

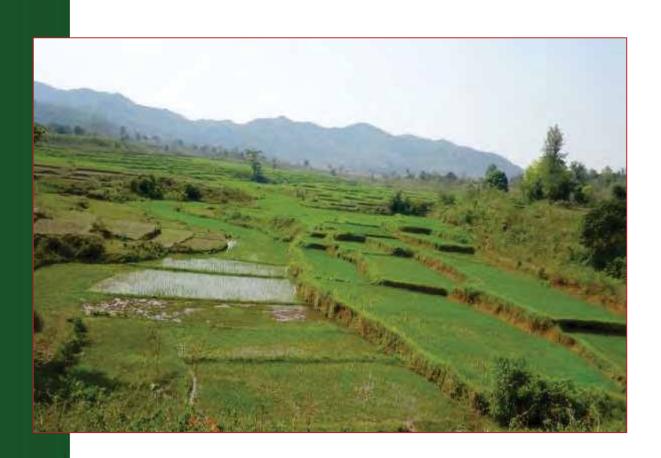


Government of Andhra Pradesh

Primary Sector Mission

Proceedings of Action Plan Preparatory Workshop

28–29 April 2015 ICRISAT-Patancheru, Telangana





International Crops Research Institute for the Semi-Arid Tropics

Patancheru 502 324, Andhra Pradesh, India



Government of Andhra Pradesh

Primary Sector Mission

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Editors Suhas P Wani, KH Anantha SP Tucker and KV Raju



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Acknowledgements

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Government of Andhra Pradesh

Primary Sector Mission Proceedings of Action Plan Preparatory Workshop

The Andhra Pradesh Primary Sector Mission was launched during October 2014 is moving forward to transform agriculture and allied sectors in the state. The Government of Andhra Pradesh is committed to transform the primary sector into an equitable, scientific, and prosperous and climate smart sector. As part of the Vision 2029, the stress is on increasing productivity of the primary sector; mitigating the impact of droughts through water conservation and micro- irrigation; postharvest management to reduce the wastage; and establishment of processing, value addition capacity and supply chain of the identified crops.

ICRISAT has been identified as the knowledge partner and is playing a crucial role in providing technical assistance to the Government of Andhra Pradesh in steering this process of Primary Sector development along with Consultative Group for International Agricultural Research (CGIAR) institutions, State Universities of Agriculture, Horticulture, livestock and fisheries. One of the objectives of this initiative is to establish pilot sites of 10,000 ha each in 13 districts to operationalize the convergence of primary sector for increasing productivity, profitability and sustainability through science- led development and climate smart agriculture.

A two day Team building and action plan preparatory workshop was held during 28-29 April 2015 at ICRISAT Patancheru. About 220 GoAP primary sector officials from 13 districts, head quarter and ICRISAT along with other CG centers scientists attended the workshop. Representatives from NABCONs (NABARD Consultancy services) from NABARD (National Bank for Agriculture and Rural Development), Centre for Good Governance, State Universities of Agriculture, Horticulture, Livestock and Fishery also participated and deliberated extensively on different issues of primary sector and prepared district level action plan that would serve as basis for Mandal level action plan preparation.

During the first day, the state plan worked out through extensive discussions during past couple of months involving state, some district officials was shared with all the participants. The important growth engines of this plan in primary sectors comprise agriculture, horticulture livestock and fisheries.

In agriculture, the target is to enhance GVA (Gross Value Addition) by 5925 cr from 44565 cr during 2014-15 to 50490 cr during 2015-16. The focus is to achieve this is through adopting soil test-based application of micro- & secondary nutrients (17+3.5 lakh ha under vegetables and horticulture), enhancing area under irrigation (2 Lakh ha) and other best practices. An investment of about 250 cr in micro-nutrients is expected to add GVA by more than 2000 crores. Maize is becoming important growth engine and its area is to be enhanced from 3 Lakh ha to 4 Lakh ha in depleting groundwater areas. Varietal replacement in paddy (2.5 Lakh ha), maize (1 Lakh ha), groundnut (4 Lakh ha), along with high density planting in cotton (0.03 Lakh ha) are other major intervention.

Horticulture sector is targeting GVA by 90 crores during 2015-16. Banana, mango, chillies, tomato are major growth engines. The strategy include to enhance area under such high value crops and promoting practices like Micro Irrigation, shade nets, Post Harvest infrastructure.

Under APPSM, we have adopted a concept of developing 10000 ha representative areas in the districts to be developed as Pilot sites of Learning/Bright Spots, and the plan is to expand such concept to satellite regions.

The concept of FPOs (Farmer Producer Organizations) is being promoted to strengthen smallholder farmers across the value chain and enhance their bargaining power through collective action. One FPO comprises of about 50-60 Farmers Interest Groups with 1000 farmers in 10-20 villages. The target for 2015-16 is to develop 76 FPOs covering 2.2 Lakh farmers across various commodities like banana, dairy, chillies, maize & other crops, fisheries.

Under livestock sector, milk, meat and egg are major growth engines. The growth in contribution to GSDP (Gross State Domestic Product) targeted in livestock sector is 24.2% during this year. The targeted intervention to achieve stipulated growth are –fodder promotion, processing & conservation, promotion of dual purpose crops, promoting concentrates, Al using sexed semen, developing procurement, processing & marketing facilities, credit through banks, animal health and CB. The targeted % increase in value addition during 2015-16 is – 26% in milk, 24% in meat and egg. Similarly the targeted growth in fisheries is 21%. The important interventions include promotion of good species, mechanization, healthcare, cage culture, deep sea fishing and CB. In case of forest, the target is to enhance GVA from 460 cr during 2014-15 to 1284 cr during 2015-16. To support these growth engines, ambitious plans are there during 2015-16 for mechanization and micro irrigation (133,000 ha).

After discussion on the state plan, district-wise group discussions were conducted to prepare district level plan of action. The plans are developed in line with the strategy and measurable indicators.

Mr. SP Tucker, Special Chief Secretary to GoAP, Planning Department and Agriculture Production Commissioner, in his remarks highlighted the issues of low productivity, water scarcity, droughts and large dependent population on primary sector in new state of Andhra Pradesh. He highlighted the variability in productivity across different regions within the state and as compared nationally and internationally. He urged all to probe into such issues, chalk out comparisons with different growth engines and accordingly prepare district plans to achieve double digit growth in primary sector. He particularly highlighted the issues like micro nutrient deficiencies, high fertilizer application in coastal areas, low milk yield, expansion of maize in water depleting regions, quality issues to target international markets, promotion of banana, vegetables. He guided some groups to come up with clear strategy in respective sectors. He focused on pilot sites to be developed as labs of achieving faster growth and it will be expanding to adjoining areas. He highlighted on planning by considering cropping system based market behavior. He gave a clear message to become the one of the best three states by 2022.

The Commissioner, Agriculture assured convergence for providing the micro- & secondarynutrients for vegetable and horticultural crops by the Department of Agriculture and he assured to bring circular in this context.

The district level sector-wise action plan and pilot site action plan were presented by district level department heads and ICRISAT district coordinators, respectively. These are draft action plans prepared to highlight possible interventions in each of the district and pilot site and to improve further with suggestions. The important outcome of these presentations is that there should be commonality across districts and pilot sites and growth engines need to be prioritized based on their contribution to the district as well as pilot site and a common summary table for reporting the GVA was prepared and circulated among all the participants to maintain uniformity across the sectors and districts.

As guided by Mr. Tucker, the respective commissioners also interacted and guided their team to come up with distilled plan of action on respective sectors. In breakout groups of four departments led by the respective Commissioners also deliberated the policy and institutional bottlenecks to realize the goal along with the work plans budgetary needs were also worked out. The discussion basically revolved around on how to revive the sectors, what strategies/modalities are required and expert suggestions to achieve double digit growth in the respective sector.

The major issues discussed in agriculture sector deliberated during the discussion includes seed replacement, especially paddy seed replacement in North Coastal districts as the productivity is very low compared to other districts, enhancing resource use efficiency by introducing improved practices, rejuvenation of soil analytical laboratories, micronutrient procurement and quality assessment, strengthening of extension services.

Similarly, in horticulture sector, introducing micronutrients package for banana and papaya for improving productivity, individual farm ponds with enhanced subsidy from 50-75%, precooling units for Tomato and assistance for transportation in Glut periods, INM (Integrated Nutrient Management) & IPM (Integrated Pest Management) Package for Chillies, Training Chilly farmers on reduction of pesticide residues and Aflatoxin, subsidized double drip laterals for Acid lime, etc.

Livestock and Dairy sector addressed issues like establishment of a system for declaring Milk Production Cost on seasonal basis, promotion of decentralized milk processing and marketing system, Establishment of dairy consortiums at State and District level with major stakeholders to address issues related to milk production and post-production activities, rationalization of Price payment to the dairy farmers by controlling malpractices, on-line monitoring, etc.

As fishery sector is one of the fast growing sectors without substantial public investment, the discussion focused on strengthening the sector with new policy guidelines to help farmers to produce more and increase their income. The major issues discussed include, insurance for the fishing farmers and modalities on the premium, beneficiary contribution and Govt. contribution, suitable incentives to bring abandoned area into culture, increasing

Skilled manpower, treating aquaculture on far with agriculture, establishing fishery market to increase per capita consumption, exploring deep sea fishing potential, etc.

Open house suggestions and ideas from the district officials were sought and all officers participated actively and interacted with the Special Chief Secretary and Agricultural Production Commissioner Mr. SP Tucker, Special Chief Secretary Agriculture Mr. Vijay Kumar, Principal Secretary Fisheries Mr. Manmohan Singh, Commissioner Agriculture Mr. Madhusudan Rao, Commissioner Horticulture Smt. Usha Rani, Commissioner Marketing Dr. Kishore and Dr. Suhas Wani from ICRISAT.

Recommendations

- An urgent attention to ensure suitable marketing and price support is needed.
- Efforts are needed to ensure marketing support as well as pursue value-chain and processing through public-private partnership (PPP) to benefit farmers.
- Post-harvest losses need to be tackled to minimize financial losses through developing infrastructure for drying, processing, storage and value addition.
- Necessary financial and human resources support need to be ensured through fast tracking policies and clearances by the concerned departments.
- Trained human resources to achieve and sustain the growth of each sub sector.
- Urgent need to pursue the development of training centers for the farmers and skill development policy for Primary Sector.
- Weekly video or tele conference involving key decision making officials at state and district level to monitor progress
- Seed replacement is one of the important interventions which need to be tackled immediately through supply of good quality seeds as the availability of seed is the major constraints.
- As DSR (Direct Seed Rise) helps to overcome labour shortage and efficient use of water resource, area under DSR need to be increased.
- As the productivity of paddy in North Coastal districts (1.7 t/ha) is below the state average of 3.6 t/ha, these districts should be given priority for paddy seed replacement with improved variety seeds with higher yield.
- The state of Andhra Pradesh has number of soil analytical laboratories. However, most of them are dysfunctional. Therefore, these laboratories need to be rejuvenated.
- Medium duration of varieties are to be made available to increase crop yield and enhance the resource use efficiency.
- Micronutrients procurement and quality assessment need to be fast tracked to ensure timely application of micronutrients by the farmers.

- As it is evident that soil-test-based micronutrient application enhances the yield, soil
 analysis has to be completed well in advance to prepare recommendations and
 distribution of soil health cards for efficient use of micronutrients.
- An effective extension system provides good basis for effective implementation of activities on ground. Therefore, extension systems need to be strengthened to cater the needs of farmers and stakeholders.
- Micronutrients package for Banana and Papaya for improving productivity
- Supply of seedlings instead of Hybrid seed for Tomato, Chillies and other vegetable crops
- More emphasis on individual farm ponds, enhancing subsidy from 50-75%
- Trench cutting for micro-irrigation convergence with MGNREGA (Mahatma Gandhi National Rural Employment Guarantee Act) for labour component
- Pre-cooling units for Tomato and assistance for transportation in Glut periods
- INM & IPM Package for Chillies, Training Chilly farmers on reduction of pesticide residues and Aflatoxin
- In key performance indicators, Targets under Poly houses and shade nets is higher and should be revised. Banks should finance without collateral security i.e. Urban property
- Commissioner marketing explained about sanction of Rs 18.56 cr. for post-harvest infrastructure in market yards
- Allowing subsidized double drip laterals for Acid lime from 4th year and supply of 16 mm lateral instead of 12 mm
- Establishment of a system for declaring Milk Production Cost on seasonal basis by competent authority, which helps to evolve rational milk pricing policy
- Promotion of decentralized milk processing and marketing system to market milk to ensure additional price to farmers
- Establishment of micro BMCUs (Bulk Milk Cooling Units) (500 to 1000 Liters capacity) so as to have direct market linkage
- Establishment of dairy consortiums at State and District level with major stakeholders to address issues related to milk production and post-production activities
- Rationalization of Price payment to the dairy farmers by controlling malpractices
- Limit on Number of animals should be removed
- Online monitoring
- Tag applied by any Insurance company shall be accepted by all other companies for future renewals
- Claim settlement should be with in fortnight
- Insurance companies are not coming forward to insure the Sheep and Goat

- Due to migration it is not possible the Veterinarian and Insurance companies to reach the animals after death.
- Insurance for the fishing farmers need to be developed, modalities on the premium, beneficiary contribution and Govt. contribution for both Shrimp and fish crops to be assessed.
- The abandoned area in the shrimp culture is to be brought into culture by providing suitable incentives. Incentives need to be worked out to bring more abandoned areas into culture.
- Skilled manpower required for the fishery sector is assessed and accordingly establishment of fishery polytechnics, increase in number of seats in Fishery colleges is to be worked out.
- Currently, aquaculture is considered as commercial agriculture and a detailed report is to be worked out to treat aquaculture on far with agriculture.
- Fisheries marketing to be developed to increase per capita consumption and to devise the strategies as per supply or production.
- Deep sea fishing potential to be exploited by conversion of the existing vessels into tuna long-liners.

Concluding Session

In concluding session Dr. Peter Carberry, Deputy Director General, ICRISAT, welcomed the Hon'ble Minister of Agriculture, horticulture, Animal Husbandry, Fisheries and Marketing and assured full support for the mission. He appreciated the efforts of the Special Chief Secretary Mr. SP Tucker for meticulous planning of the mission.

During interaction of the workshop participants with honorable agriculture minister, Sri Pattipati Pulla Rao, Dr. P V Satyanarayana, ADR, Maruteru, W Godavari, emphasized to give importance to pulses during rabi season in rice fallows as they are cultivated in 12 lakh hectare areas. He also requested for substantial investments in research to sustain the productivity in long run. Mr. Sarma NDRK, emphasized the need for releasing canal water early, so that cropping intensity and productivity of Rabi crops will be enhanced.

Mr. M Venkateshwarlu, Project Director, Micro Irrigation Project, Anantapur said that to achieve double digit growth, there is lot of scope in horticulture and requested to provide technical staff to achieve the targets as horticulture crops fetch more income in less area. Mr. Ramana, Assistant Director Horticulture, Anantapur requested to provide water soluble fertilizers for fertigation to reach 100% farmers. Also requested to provide secondary, micronutrients and mulching materials for horticulture crops. Request made to enhance subsidy on farm ponds from 50 per cent to 70 per cent.

Joint Director Animal Husbandry, Chittoor said that livestock is playing crucial role in providing organic manures for crops whereas importance to be given for fodder production as horticulture sector is hampering fodder production and mixed farming to be promoted to address this issue. He also requested for developing pricing policy for milk. JD AH, East Godavari told that input cost of poultry is increasing and farmers to be

supported by giving subsidy on feed and power. Need for developing processing industries for meat and egg. There is lot of demand for buffalo meat and policy to be developed for male buffalo slaughter.

Fisheries department officer requested for developing pricing policy as well as to explore marketing opportunities. He also requested to treat fisheries on par with agriculture to provide incentives to farmers and fishermen. There is need to enhance processing units to avoid fungus development which fetches low price. Lot of problems in aqua culture and there is no mechanism to solve the problems. Research and extension to be developed to support the farmers. Lot of shortage of technical manpower and there is need to increase seats in the colleges as well as staff.

Hon'ble Shri. Prathipati Pulla Rao, Minister for Agriculture, Horticulture, Animal Husbandry, Fisheries and Marketing addressed the participants during the concluding session and emphasized on the ambition of Hon'ble Chief Minister on achieving 24 per cent growth as an example of Madhya Pradesh and to become top 3 performing states in India. He emphasized on the following issues:

- Participants to work together to achieve higher level growth rate with science led interventions in the primary sector Mission and he urged that Andhra Pradesh should become one of the top three states in the country.
- Emphasized the urgency for analyzing 4 lakh soil samples and distributing soil health cards to farmers on war footing before onset of the rainy season.
- Micronutrient application is the critical areas we need to focus on and the Government is committed to full fill the budgetary requirement necessary for this purpose. Deficient micronutrients will be provided to farmers on 50% subsidy as the budget was already allocated.
- Special officer of primary sector will be appointed and posted in all the districts for effective coordination and monitoring.
- Officers should build the confidence among farmers using their vast experience, skills and motivate the farmers towards the goal of achieving higher benefits.
- Fodder deficit in Rayalseema must be overcome using the new fodder technologies, storage, etc.
- Advised all the participants to share the knowledge gained during two day workshop with other district and Mandal level officers to make this mission successful and achieving the double digit growth in the state.
- The Hon'ble Minister stressed on conducting workshops and campaigns to educate the farmers to adopt the technologies and emphasized on exploring the marketing opportunities to get more income and benefits to more number of farmers.
- He also assured processing industries, cold storages facilities to be developed and incentives will be provided to processing and marketing.

The Hon'ble Minister highlighted the technical support and guidance of ICRISAT for the mission and congratulated Dr. SP Wani and team as well as Mr. SP Tucker for identifying the growth engines in all the sectors. He promised that the Government will do the needed

changes in policies to remove the bottlenecks and provide full support to the mission.

Dr. Suhas Wani and Dr. KV Raju guided the deliberations during the workshop. The workshop concluded with vote of thanks by Dr. KV Raju, Assistant Director, ICRISAT Development Centre.

Workshop Events through Lens



Agriculture Minister Prathipati Pulla Rao interactive with DDG Peter Carberry and SP Wani



Peter Carberry and SP Wani welcoming Prathipati Pulla Rao



KV Raju, SP Wani, Prathipati Pulla Rao, Peter Carberry



Manmohan Singh, T Vijay Kumar, Peter Carberry, Prathipati Pulla Rao, SP Tucker and SP Wani



Peter Carberry addressing the participants



Prathipati Pulla Rao addressing the participants



SP Tucker addressing the participants



SP Tucker Interacting with participants



SP Wani addressing the participants



SP Tucker interacting with participants



SP Wani interacting with participants









Interaction with participants









Interaction with Participants



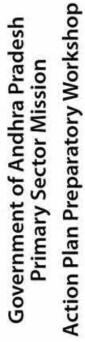
Presentations and Group discussions with participants



Minister Sri Prathipati Pullarao visit of SAT Venture







28–29 April 2015 Ralph W Cummings Auditorium ICRISAT, Patancheru





PROGRAM

Tuesday, 28 April 2015 0830-0900 Registration Session 1 **Inaugural Session** 0900-0930 Welcome and Objectives KV Raju 0930-1000 State Level Action Plan Presentation 1000-1030 Health break 1030-1330 Groups: Sector-wise Preparation of District Level and Mandal Level Plans 1330-1430 Lunch break 1430-1500 Welcome - Primary Sector & Pilots SP Wani 1500-1530 Opening Remarks (Purpose and Plan of this Workshop) SP Tucker **Technical Session I** Session 2 Chair : SP Tucker Rapporteur : Girish Chander 1530-1550 District Action Plan, Kurnool JDA, Kurnool Pilot site Action Plan. Kurnool P Pathak 1550-1600 1600-1610 Discussions 1610-1640 Group photograph & Health break 1640-1700 District Action Plan, Guntur JDA, Guntur Pilot Site Action Plan, Guntur G Pardhasaradhi 1700-1710 1710–1720 **Discussions** 1710-1740 District Action Plan, Kadapa JDA, Kadapa Girish Chander 1740-1750 Pilot Site Action Plan, Kadapa

Mary Cummings Park

1750-1800

1800

Discussions

Workshop Dinner

Wednesday, 29 April 2015

Session 3 Technical Session II

| | Chair Rapporteur | : Sanjay Gupta : KH Anantha | |
|-----------|--|--------------------------------|--------------------|
| 0600-0700 | Morning Walk | Starts from Guestel | |
| 0700–0800 | Breakfast | | Banquet Hall |
| 0800–0810 | Over View of I | Day 1 | |
| 0810-0830 | District Action | Plan, Nellore | JDA, Nellore |
| 0830-0840 | Pilot Site Action Plan, Nellore Gajanan LS | | |
| 0840-0850 | Discussions | | |
| 0850-0910 | District Action | Plan, Visakhapatnam | JDA, Visakhapatnam |
| 0910–0920 | Pilot Site Action | on Plan, Visakhapatnam | KH Anantha |
| 0920-0930 | Discussions | | |
| 0930–0950 | District Action | Plan, West Godavari | JDA, West Godavari |
| 0950–1000 | Pilot Site Action | on Plan, West Godavari | Kaushal K Garg |
| 1000–1010 | Discussions | | |
| 1010–1040 | Health Break | | |
| 1040–1100 | District Action | Plan, Krishna | JDA, Krishna |
| 1100–1110 | Pilot Site Action | on Plan, Krishna | Ch Anitha |
| 1100–1120 | Discussions | | |
| 1120–1140 | District Action | Plan, Srikakulam | JDA, Srikakulam |
| 1140–1150 | Pilot Site Action | on Plan, Srikakulam | Ch Srinivasa Rao |
| 1150–1200 | Discussions | | |
| 1200–1220 | District Action | Plan, Ananthapur | JDA, Ananthapur |
| 1220–1230 | Pilot Site Action | on Plan, Ananthapur | CS Pawar |
| 1230–1240 | Discussions | | |
| 1240–1300 | District Action | Plan, East Godavari | JDA, East Godavari |
| 1300–1310 | Pilot Site Action | on Plan, East Godavari | Rajesh Nune |

| 1310–1320 | Discussions | |
|-----------|---|-------------------|
| 1320–1420 | Lunch Break | |
| 1420–1440 | District Action Plan, Chittoor | JDA, Chittoor |
| 1440–1450 | Pilot Site Action Plan, Chittoor | P Narasimha Rao |
| 1450–1500 | Discussions | |
| 1500–1520 | District Action Plan, Vizianagaram | JDA, Vizianagaram |
| 1520–1530 | Pilot Site Action Plan, Vizianagaram | LS Jangawad |
| 1530–1540 | Discussions | |
| 1540–1600 | District Action Plan, Prakasam | JDA, Prakasam |
| 1600–1610 | Pilot Site Action Plan, Prakasam | |
| 1610–1620 | Discussions | |
| 1620–1630 | Health Break | |
| 1630–1700 | Crop Plans by NABCONS | Malkit Singh |
| 1700–1730 | Monitoring Management by Center for Good Governance | Vijay Kumar Reddy |
| 1730 | Closing Remarks | SP Tucker |

29-04-2015 – Minister's Program

Master of Ceremonies: Suhas P Wani

| 1530–1540 | Welcome | Suhas P Wani |
|-----------|--|-----------------|
| 1540–1545 | Presentation of Bouquet to Hon'ble Agriculture Minister | Peter Carberry |
| 1545–1555 | Welcome New Members in Primary Sector - SP Tucker - T Vijay Kumar | |
| 1555–1610 | Highlights from the Team Building and Action plan Preparatory Workshop | KH Anantha |
| 1610–1620 | Address by DDG | Peter Carberry |
| 1620–1640 | Address by Special Chief Secretary on Primary Sector Planning Workshop and Recommendations | SP Tucker |
| 1640–1700 | Address by Hon'ble Agriculture Minister | Sri P Pulla Rao |
| 1700 | Vote of Thanks | KV Raju |

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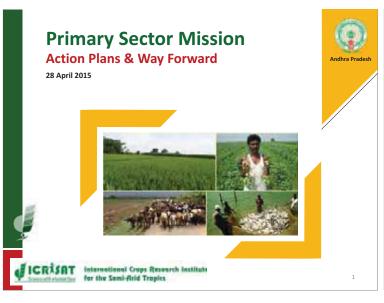
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ICRISAT Development Center

Power Point Presentations

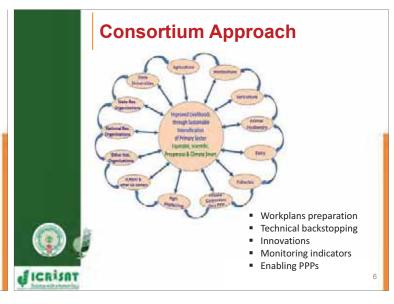












Strategy

Scaling- up with low hanging fruits and **Innovations in Pilot sites**

- Convergence
- Consortium
- Campaigns for awareness building
- Effective delivery systems
- Value chains and market linkages
- Enabling policies and institutions
- Effective monitoring



Networking and Team Building

- Number of workshops with stakeholders
 - Public private partnerships
 - State level planning
 - District level planning
- Discussions with
 - Line departments
 - State universities
 - Planning department



Digital Agriculture

- Data capturing and archiving
- Analysis and decision making
- Planning various interventions
- Knowledge delivery systems
- Monitoring and evaluation thru Dashboard
- Farmer to farmer ideas







Field Level Capacity Development

- Pilot sites as sites of learning
- Seeing is believing
- Hands on training (Master trainers and Lead farmers)
- Skill development specialized agencies
 - Mechanization
 - ICT-enabled extension
 - Village seed banks
 - Microenterpreunership





Agriculture



Soil Mapping for Nutrient Deficiencies







- Widespread deficiencies of multiple nutrients upto 95% in soils of AP are observed
- Good yield responses (20 to 120%) to application of balanced nutrients are recorded thru Bhoochetana in A.P. and Karnataka
- Soil sample collection and analyses by DoA is in progress but excluding boron
- Incentivised micronutrient supply based on soil mapping along with targeted awareness building will increase crop productivity by 10 per cent on 30.6 lakh ha



Macro Benefits with Micronutrients Incentive of ₹150 crores to farmers will generate₹ 2275 crores from 3.06 M ha Additional environmental benefits Area for micro & Cost Crops sec-nutrients in value (crore) (Lakh ha) (crore) Benefits with direct application of nutrients Agricultural crops 21.0 260 Horticultural crops Residual benefits in rabi season

Agricultural crops

Horticultural crops

ICRISAT

1028

917

214

116

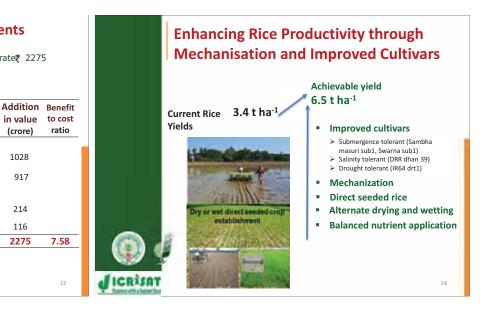
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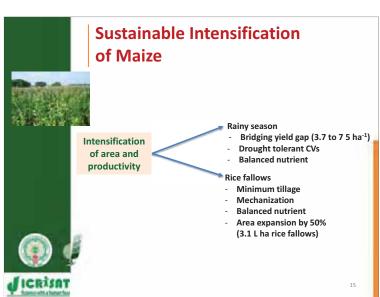
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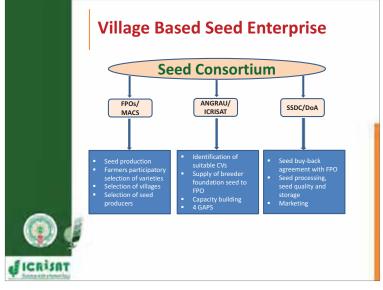




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1.1

30.6





Horticulture



| | | Horticulture-S | Strategies | |
|---|---|---|---|--------------------------------|
| | Chillies | Vegetables | Coconut | Oilpalm |
| | Integrated Pest ManagementCapacity | Poly House and Shadenet House Cultivation | Cocoa as intercrop Custom Hire Centers | Inter crop Drip irrigation |
| | Building for 2 lakh Chillies Farmers | Transportation of Vegetables through Railway wagons | HarvestersTransportation of | Custom Hire Centers |
| | Custom Hire Center at every village | Pandal and Trellies Cultivation | coconut through Railway wagons | |
| | Poly SheetsSolar DryersTransplanter | Formation of FPOs | By ProductsNeera Extraction | AN TOWN IN COURT |
| | Export Promotion | | Area Expansion | |
| 9 | CRISAT | | | |

Good agriculture practices (7000 ha.) and IPM (8000 ha.)

Horticulture-Increasing Productivity and Production

- Technology adoption
 - Tissue Culture Banana with drip irrigation- 20.000 ha.
 - Poly houses in 600 acres to grow
- Mulching in 6,000 ha increases yield by 20%.
- Productivity increase 25-30%
- Capacity building in new technologies
- Area expansion of one Lakh ha/year under APMIP
- Develop good knowledge delivery to farmers through call centers, ICT
- Vegetable cultivation
 - in urban areas- e.g. Vijayawada, Visakhapatnam, Tirupathi and Guntur.
- in Lanka Villages of Godavari Districts
- Value addition
- Transportation of Tomato & Coconut through Railway wagons (Cold Wagons)
- Explore export potential of nurseries in Kadiyam (East Godavari District)

Horticulture: Long-Term Action Plan

- Area Expansion
 - Cocoa area as intercrop in coconut gardens
 - Oilpalm in 10,000 ha
 - Coffee in 40,000 ha
 - Pepper in 3,600 ha cultivation in tribal areas
- Post Harvest Infrastructure
 - Pack Houses (400 Nos)
 - Cold Storages (6 Nos)
 - Cashew Processing Units (10 Nos)



Imp.

Feeding regime

2 L d-1

Credit supply

Livestock





21,000 SHGs to work on Dairy activity through NGO's/FPOs ■ Produce 10 LLPD

Medium Term Strategy

 Better management of (3 Lakh) Heifers of high genetic merit ■ Between 18-20 months for early conception (Sunondin)

Long Term Strategy

Better management of (5 Lakh) improved heifer calves for early maturity



Fodder Production

- Implement Effective Feed and Fodder Policy
 - Ensure availability and access during drought and summer
 - Enable production & preservation of fodder
 - Improve post-harvest management suitable to agro-ecological regions of state
 - Creation of fodder banks & storage facilities

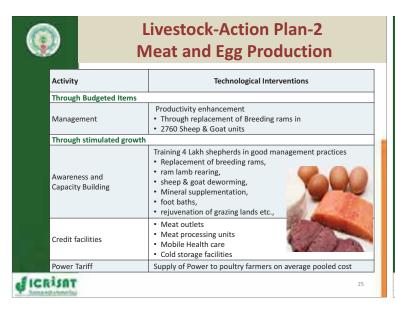


Fodder Management + Fodder Banks for Rayalaseema Districts

- Better Utilization of maize stover
 - Research support from ICRISAT on buy back tie up in convergence with Agriculture Dept.
- **Baling of Paddy Straw**
 - Surplus pockets to stock the crop residue in fodder bank for utilization in fodder deficit areas.
- Commercialization of maize silage
 - Imported technology on PPP.
 - Locally available crop residue and feed ingredients through

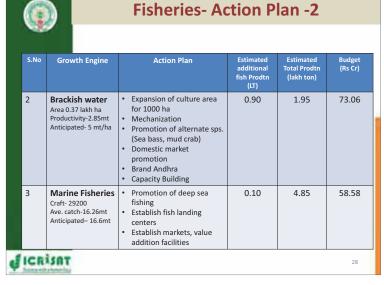


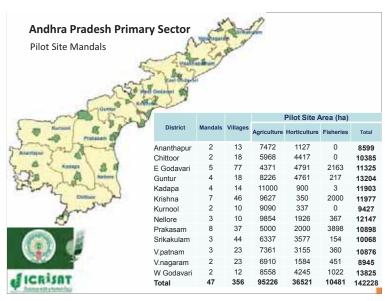


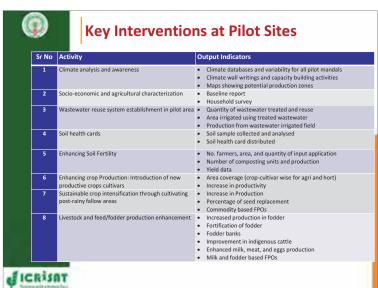


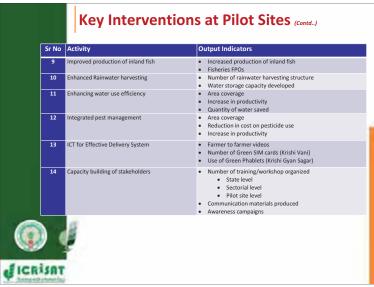


| | 9 | Fisheries- Action | n Plan | -1 | |
|-----------|---|--|--------------------------------------|----------------------------------|-------------------------|
| SI. No | Growth Engines | Action Plan | Estimated additional fish Production | Estimated Total Production | Budget (R in Crores) |
| L | Fresh water Fisheries Secto | or | 1.50 LT | 15.34 | 55.54 |
| | a) Reservoirs Total no. 104 Area2.40 lakh ha Productivity- 85 kg/ ha Anticipated- 300 kgs | Cage culture Stocking of advance fingerlings Captive nurseries Stocking of scampi culture | 0.0516 | 0.0720 | |
| | b) Tanks Total No. 25400 Area- 3.38 lakh ha Productivity- 0.75 ton Anticipated- 1.0 ton | Stocking of advance finger lings Desilting, deepening of tanks under MGNREGS Scampi seed stocking | 0.0875 | 3.38 | |
| | c) Aquaculture Total No. 42400 Area – 1.25 lakh ha Productivity- 8.2 Anticipated- 9.2 | Brood stocks banks, hatcheries establishment Amendments to regularization of tanks, AP Aquaculture seed Act 2006 | 1.25 | 11.50 | |
| | d) Lakes and rivers Kolleru lake-0.90 Lakh ha Rivers- 11,514 kms | Desilting, deepening, stocking and seed ranching | 0.11 | 0.39 | |
| K | CRISAT | | | | 27 |









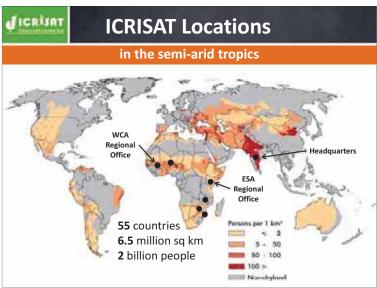


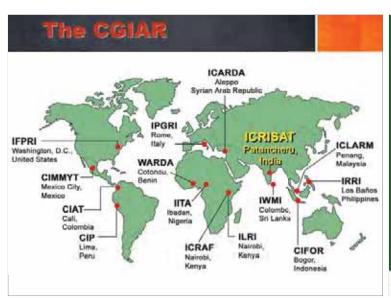


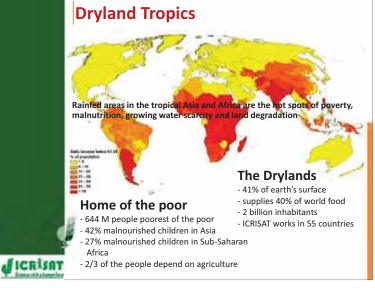


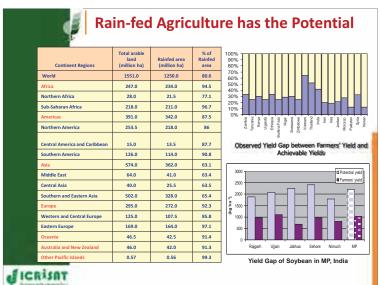


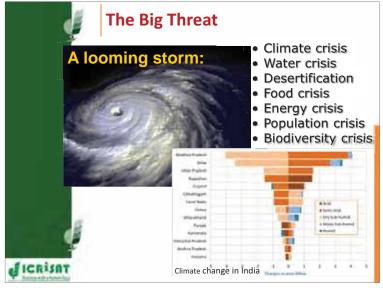


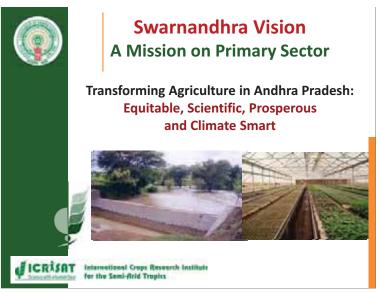


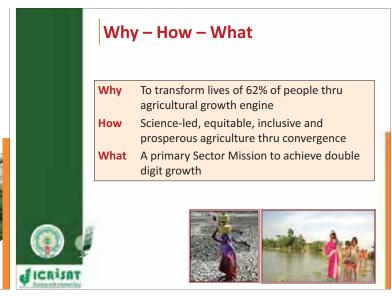




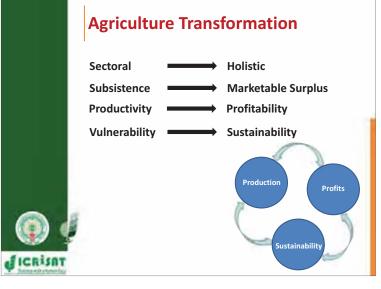






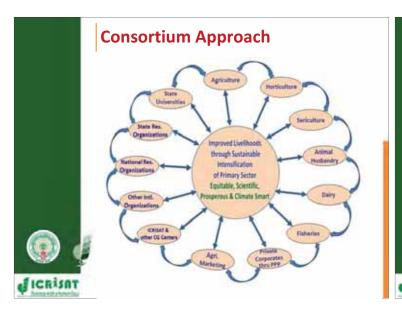








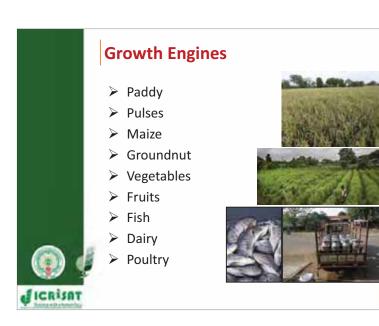


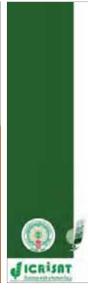




Critical Areas

- Planning
- Execution
- Monitoring
- > Refinement
- Scaling-up

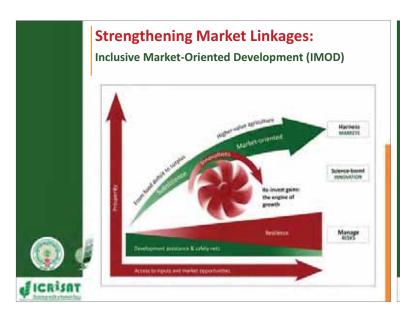




How

- > to enhance productivity
- > to minimize post-harvest
- > to enhance quality
- > to add value
- > to generate more income for the farmers







Multi-prong Market and Value Chain

- ❖ SHGs − Producers companies
- ❖ Strengthening Rayathu Bazars
- National Commodity and derivative exchange (NCDEX)
- Public private partnerships
- Drought proofing

Digital Agriculture: Upgrade Delivery Systems

- ➤ For effective delivery, monitoring and information dissemination for achieving the impact
 - ICT for innovative extension systems
 - Agromet Advisory Services
 - GIS-based certified land titles
 - Use of Satellite imageries





Certified human resource development in

- Agroprocessing
- Polyhouses
- Breeding farms
- Dairy industry
- Fisheries
- ❖ Value-addition





What is measured gets delivered

- Monitoring at all levels Mandal to State Mission
- Use of ICT for on-line M&E
- Coordination at district level
- Value-chain/product wise monitoring



Thank you







21

Agriculture

Agriculture- Growth Engines

| | Area (laki | | akh ha) | Yield | (kg/ha) | Pro | oduction ('000 | MT) | GVA (Rs ii | value n Cr.) |
|---------|---|---------|---------|---------------|----------------|---------------|----------------|----------------|--------------|-----------------|
| SI. No. | Growth Engine | 2014-15 | 2015-16 | 2014-15 | 2015-16 | 2014-15 | 2015-16 | % increase | 2014-15 | 2015-16 |
| 1 | 2 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 1 | Paddy | 23.88 | 24.73 | 3402 | 3712 | 12315 | 13770 | 12 | 18514 | 2070 |
| 2 | Cotton | 8.21 | 8.28 | 529 | 600 | 1449 | 1490 | 3 | 5604 | 576 |
| 3 | Maize | 3.00 | 4.00 | 6260 | 6618 | 1883 | 2647 | 41 | 2168 | 304 |
| 4 | Sugarcane | 1.39 | 1.50 | 70192 | 77628 | 10787 | 11644 | 8 | 1723 | 185 |
| 5 | Tobacco | 1.35 | 1.33 | 1918 | 2111 | 259 | 283 | 9 | 2973 | 324 |
| 6 | Groundnut | 8.72 | 9.00 | 585 | 677 | 498 | 610 | 22 | 1573 | 192 |
| 7 | Blackgram | 3.17 | 3.75 | 681 | 800 | 267 | 300 | 12 | 1560 | 175 |
| 8 | Bengalgram | 3.17 | 4.75 | 1114 | 1250 | 419 | 593 | 41 | 1031 | 146 |
| 9 | Redgram | 1.51 | 2.00 | 481 | 550 | 85 | 110 | 29 | 337 | 43 |
| | Others | | | | | | | | 9082 | 1029 |
| | Total | | | | | | | | 44565 | 5049 |
| 9 | Micro nutrient | | 17.00 | The impact is | accounted fo | r in crops of | paddy,maize,c | otton,groundni | ıt | |
| 10 | 10 Addl area to be brought under irrigation | | | | kely brought i | | on during Rabi | 2015-16 and cr | opping patte | rn will be |

Growth Engine- Paddy

Existing yield gap of 890 kg/ha in rice over best performing state of Punjab(3989 kg/ha)

- ➤ Submergence tolerant cultivars (Sambha masuri sub1, Swarna sub1,CR 1009 Sub 1)
- ➤ Salinity tolerant cultivars (DRR dhan 39)
- > Drought tolerant cultivars (Sahbhagi dhan, IR64 drt 1)
- > Mechanisation for transplanting
- > Direct seeded rice in upland as well as tail end areas using seed drills , drum seeders
- ➤ Balanced nutrient application
- ➤ Efficient water management

Action Plan for addressing the yield gap

| SI.No. | Technological interventions | Area |
|---------|---|----------|
| 31.140. | recimological interventions | proposed |
| 1 | Varietal replacement | 2.50 |
| 2 | Quality seed replacement | |
| 3 | Direct seeding MSRI (Drum Seeding & Mechanical Transplanting) | 5.00 |
| 4 | Micronutrient application | 8.00 |
| 5 | Green manuring | 2.50 |
| 6 | Increasing the area under pulses in Rice fallows | 4.00 |
| 7 | Raising Red gram on Rice bunds | 0.40 |

Growth Engine- Maize

Rainy Season Maize

- ➤ 45% of maize area (1.0 lakh ha) is cultivated during rainy season with 3.7 t ha⁻¹ productivity which is half of *rabi* season maize productivity
- Using drought tolerant maize in upland areas productivity can be enhanced
- > Balanced nutrient application would increase productivity

Rice Fallow Areas

- Rabi maize will be popularised in 3 lakh ha in rabi rice area for effective water use
- Zero tillage after direct seeded or early maturing paddy would enable maize cultivation and save water also.
- Balanced nutrient application with drought tolerant cultivars would increase productivity and area expansion under maize
- Mechanization would bring in efficiency and profitability for the farmers

Action Plan for addressing the yield gap

| Sl.No. | Technological interventions | Area proposed |
|--------|-----------------------------|---------------|
| 1 | Additional area under Maize | 1.00 |
| 2 | Zero tillage | 1.00 |
| 3 | Micronutrient supply | 2.00 |

Growth Engine- GroundnutAction Plan for addressing the yield gap

| Sl.No. | Technological interventions | Area proposed |
|--------|--|------------------|
| | GROUNDNUT | |
| 1 | Application of gypsum and micronutrients | 5.00 |
| 2 | Varietal replacement | 4.00 |
| 3 | Popularization intercropping of Red gram with other pulses and oilseed crops like ground nut in Ananthapuramu and other districts. | 4.00 |

Growth Engine- Cotton Action Plan for addressing the yield gap

| SI.No. | Technological interventions | Area proposed |
|--------|-----------------------------|------------------|
| | COTTON | |
| 1 | High density planting | 0.03 |
| 2 | Micronutrient supply | 2.00 |

Micronutrients to Boost Agricultural Production and Productivity

- > Widespread deficiencies of multiple nutrients in soils of A.P are observed
- > Soil sample collection and analyses by DoA is in progress
- Incentivised micronutrient supply based on soil mapping along with targeted awareness building will increase crop productivity by 10 per cent on 26.6 lakh ha (20.5 lakh ha with direct application of nutrients and 6.1 lakh ha with residual benefits)

Micro-nutrients Soil analysis data for 2014-15

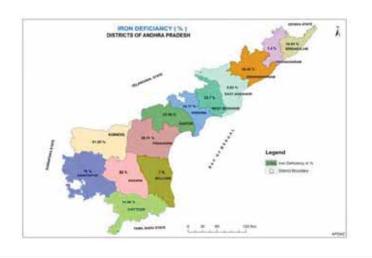
| | | | ı | n | op | per | Ire | on | Many | ganese | | S lph r | |
|-----|---------------|----------------------------------|------------------------|---|------------------------|-----|------------------------|-----|------------------------|--------|-----------------------------|------------------------|---|
| S o | istri t | otal o of samples analysed | elo riti al e el | | elo riti al e el | | elo riti al e el | | elo riti al e el | | otal samples analysed | elo riti al e el | |
| 1 | Srikakulam | 6724 | 2712 | | 310 | 1 | 1078 | 1 | 256 | 1 | 8764 | 493 | |
| 2 | Vijayanagaram | 12079 | 5390 | | 166 | 1 | 169 | 1 | 205 | 1 | 15479 | 800 | 1 |
| 3 | Visakapatnam | 3745 | 1732 | | 240 | 1 | 1364 | | 892 | | 3789 | 100 | |
| 4 | East oda ari | 6878 | 3046 | | 30 | | 346 | | 144 | | 7826 | 160 | |
| 5 | est oda ari | 5299 | 2827 | | 596 | 11 | 1256 | | 388 | | 6853 | 602 | |
| 6 | Krishna | 3365 | 2203 | | 40 | 11 | 544 | 1.1 | 129 | | 7905 | 202 | |
| 7 | untur | 6191 | 2643 | | 98 | 1 | 1460 | | 121 | 1 | 7650 | 504 | |
| 8 | Prakasam | 6565 | 2008 | | 87 | 1 | 1727 | 1 | 247 | | 3685 | 725 | 1 |
| 9 | Nellore | 9020 | 5683 | | 271 | | 631 | | 180 | | 12852 | 126 | |
| 10 | nanthapur | 5000 | 1200 | | 50 | 1 | 800 | 1 | 100 | | 3900 | 663 | 1 |
| 11 | Thirupathi | 8949 | 2052 | | 35 | | 1332 | 1 | 638 | 1 | 16311 | 1551 | 1 |
| 12 | Kadapa | 4600 | 3450 | | | | 2990 | | | | 4577 | 1739 | |
| 13 | Kurnool | 8806 | 5725 | 1 | 1441 | 1 | 7181 | 1 | 1896 | 1 | 5834 | 3029 | 1 |
| | Total | 87221 | 1 | | | | | | 5196 | | 101525 | 10031 | |

Soil Fertility Management: Trade-offs

- Full costing of micro- & secondary- nutrients = Rs. 250 crores
- Value addition= Rs.2275 crores (with 10% increase in productivity)
- Enhanced resource use efficiency
- Improvement in soil health & ecosystem services

| Crops | Area for micro & sec- nutrients (Lakh ha) | Cost (crore) | Addition in value (crore) | Benefit to cost ratio |
|--|---|-----------------|---------------------------|-----------------------------|
| Benefits with direct applica | ation of nutrients | | | |
| Agricultural crops (paddy, maize, groundnut, cotton, other) | 17.0 | 210 | 832 | |
| Horticultural crops (Chillies, tomato, onion, banana, papaya, cashewnut, oilpalm, mango, sweet orange) | 3.5 | 40 | 917 | |
| Residual benefits in rabi se | ason | | | |
| Agricultural crops (paddy, maize, groundnut) | 5.0 | 0 | 214 | |
| Horticultural crops (Chillies, tomato) | 1.1 | 0 | 116 | |
| Total | 26.60 | 250 | 2079 | 7.58 |

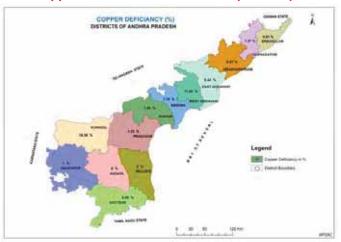
Iron status in Andhra Pradesh (2014-15)



Zinc status in Andhra Pradesh (2014-15)



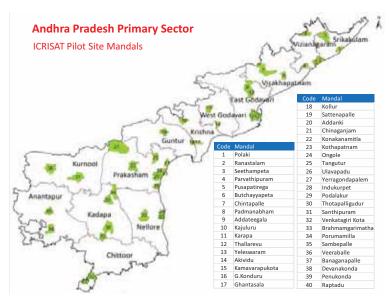
Copper status in Andhra Pradesh (2014-15)



ICRISAT

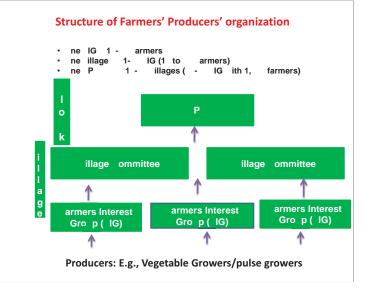
Primary Sector Development

Pilot Sites and Action Plans



| | | | Pilo | t Sites | | | | |
|------|---------------|------------|---------|-----------------|-------------|------------------|-----------|-----------|
| | | Pilot Site | No. of | £ | Crop | Area | Livestock | Fisheries |
| S.NO | District | Area (ha) | Mandals | No. of Villages | Agriculture | Horticultur e | (No.) | (ha) |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1 | Ananthapur | 10000 | 3 | 12 | | | | |
| 2 | Chittoor | 10879 | 2 | 19 | 7941 | 1860 | 524396 | - |
| 3 | East Godavari | 10162 | 5 | 77 | - | - | - | 2162 |
| 4 | Guntur | 10000 | 4 | 20 | - | - | 19980 | - |
| 5 | Kadapa | 10000 | 4 | 13 | - | - | - | - |
| 6 | Krishna | 10000 | 7 | 43 | 14378 | 1200 | | 2000 |
| 7 | Kurnool | 10000 | 2 | 10 | - | - | - | - |
| 8 | Nellore | 12147 | 3 | 10 | 7854 | 1574 | | 367 |
| 9 | Prakasam | 10900 | 8 | - | 5000 | 2000 | - | 3898 |
| 10 | Srikakulam | 10500 | 3 | 57 | 4721 | 3392 | - | - |
| 11 | Visakhapatnam | 10500 | 3 | 23 | - | - | | - |
| 12 | Vizianagaram | 10273 | 2 | 23 | - | 7030 | | - |
| 13 | West Godavari | 10546 | 1 | 8 | 18558 | 4245 | _ | 1022 |

Farmer Producer Organizations



Farmers' Producers Organizations

| | Distri | cts |
|---------------|--------|---------|
| District | FPOs | Farmers |
| East Godavari | 6 | 18000 |
| West Godavari | 3 | 3000 |
| Krishna | 3 | 12000 |
| Nellore | 3 | 3000 |
| Guntur | 10 | 34000 |
| Prakasham | 9 | 30000 |
| Vijayanagaram | 3 | 12000 |
| Srikakulam | 6 | 18000 |
| Vishakapatnam | 3 | 3000 |
| Kadapa | 3 | 6000 |
| Kurnool | 15 | 42000 |
| Chittor | 3 | 6000 |
| Ananthapur | 9 | 33000 |
| Total | 76 | 220000 |

Commodities Commodity **FPOs** Farmers Dairy 60000 12 12000 Onion 6000 Chilly 12000 Banana 12000 inland Fisheries 9000 Marine Fish 9000 Paddy 12 48000 Maize 24000 Cotton 16000 Ground Nut 3 12000 220000

Expected output and Impact of FPOs

onomi Impa t (ompared to the baseline)

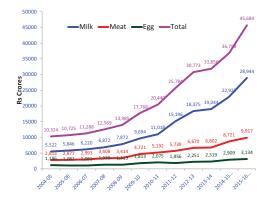
- Per hectare production impro ed by 10% by end o project period
- Increase in net return to armer In lation 10%
- Reduce gap in a ailability o inputs by 20 25%
- Institutional iability
- Increase in sub sector de elopment or agriculture
- Increased ood nutritional security
- Market linkage or backward and orward integration will be ensured
- dditional employment generated due to increased intensity o arming
- Benchmark minimum wage rate or labor or men and women separately

So ial Impa t

- Social capital built in the orm o FP s
- Impro ed gender relation decision making o women armers in F FP s – No o women in key board member nositions
- Increased bargaining power or input purchase and output marketing
- Reduce social con licts and risks and
- enhance wel are at household le el
- Impro ed ood and nutritional alue
- eadership role o producers in technology absorption
- En ironment carbon credit
- Reduction in Migration
- Positi e health and nutrition e ects or users

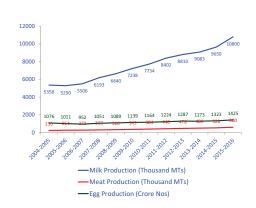
Livestock

GVA – Livestock Sector Commodity wise growth for last 10 years (Rs Cr)



| Year | Growth Rate % in GSDP |
|--------------------------|--------------------------|
| 2004-05 | |
| 2005-06 | 3.88 |
| 2006-07 | 5.25 |
| 2007-08 | 11.35 |
| 2008-09 | 11.27 |
| 2009-10 | 27.05 |
| 2010-11 | 15.04 |
| 2011-12 | 26.15 |
| 2012-13 | 19.35 |
| 2013-14 | 3.52 |
| 2014-15 (Anticipated) | 15.51 |
| 2015-16 (Projected) | 24.15 |

Quantity Produced during last 10 years



| -1.13 |
|-------|
| 3.14 |
| 12.42 |
| 6.57 |
| 8.80 |
| 6.63 |
| 8.65 |
| 5.05 |
| 2.76 |
| 6.17 |
| 11.72 |
| |

Strategies and activities to achieve Double Digit Growth

- ➤ Livestock Health Care Health Calendar
- ➤ Fodder Policy Post Harvesting/ Conservation/ Marketing
- ➤ Breeding Policy Sexed Semen/ ET Lab/ Indegenous breeds/ NGOs
- ➤ Animal Hostels Integrated Model
- ➤ Milk Policy Procurement/ Processing / Value Addition / Market Intelligence
- ➤ Credit Support Dairy / Poultry / Sheep farmers
- ➤Meat and Egg Policy Meat and Egg Processing and Marketing/ Value Addition / Market Intelligence
- ► Convergence Fodder Development
- >Awareness and Capacity Building Dairy farmers / Shepherds / Deptl Staff
- ►IT tools MIS/GIS

Activities & Timelines - Fodder Development

| Activity | Time Line |
|---|-----------|
| Fodder Policy | May 2015 |
| Fodder Seed Distribution (3500 MTs) | May 2015 |
| EOI for Fodder Production / Conservation / Marketing | June 2015 |
| Tie up with approved Entrepreneurs | July 2015 |
| Azolla (3000 Units) | July 2015 |
| Perennial Fodder Development (13000 Acres) | July 2015 |
| Hydroponics (200 units) | Aug 2015 |
| Fodder Banks (3 locations) | Sept 2015 |
| Promotion of Dual purpose crops (ILRI-2500 Acres in Rice fallows) | Oct 2015 |
| Silage (2000 Units) | Oct 2015 |
| Commercial Silage Bales (15000 MTs) | Nov 2015 |
| Fortification and Baling of Khariff Maize stover (7 Lakh MTs) and Crop Residues | Dec 2015 |
| Fortification of Rabi Maize stover (addl production from 4 Lakh Ha) | Mar 2016 |

Outcome

- ➤ Reduce the fodder shortage
- ➤ Supports medium / big dairy farmers' fodder requirements
- fodder becomes an economic activity

Activities & Timelines - Other activities

| Activity | Time Line |
|--|-------------------|
| Medium / Big Dairy Farmers (2500) | Identified |
| Regional Conference with Medium / Big Dairy farmers (3 locations) | May 2015 |
| Survey for identification of 7 Lakh farmers (10 lakh animals producing more than 6 Lit of Milk per day); 3 Lakh Heifers and 5 Lakh high pedigree female calves; 21000 SHGs; 50 FPOs for Milk | June 2015 |
| Credit support through Banks | June 2015 |
| Capacity Building of Dairy Farmers | July 2015 |
| Sexed Semen (10000 doses) | July 2015 |
| Creating Marketing avenues for additional Milk Production (32 Lakh Litres per day) – Mega Dairy/Milk Powder Plant / Marketing Intelligence | Aug 2015 |
| Training of 7 lakh dairy farmers and 2 lakh shepherds | Aug 2015 |
| ET and Sexed Semen Lab (PPP- 1 Location) | Aug 2015 |
| Additional Breeding stock through NGOs (50000) | Aug 2015 |
| Cold storage facilities/egg powder/ Chicken breast processing plant/ Modern slaughter house/Export facilities | Oct 2015 |
| Govt Grazing (waste) lands to Shepherds (10000 Acres) | |
| MEGA PASU MELA with Dairy / Sheep / Poultry farmers by Hon'ble Chief Minister (Awards / Incentives to Livestock farmers) | Jan 2016 (Pongal) |

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ILRI Suggestions_24.04.2015

- 5% improvement in the digestibility of stover / straw from 1 Ha land produces 800 Kg more milk and 40 kg less methane
- Reducing the ICP from 16 18 months to 13 14 months
- For every 3 calvings one lactation benefit
- Results in 23 Lakh Litres per Day (67.10 LLPD @ 3 years interval)
- Targeting body weight (400 to 250 kg) and Milk Production (7 to 10 Litres per day)
- 10 kg roughage will be saved
- Existing fodder shortage (30%) can be avoided
- Green House Gas emission reduced by 50%

Low Hanging Fruits identified in Livestock Sector

Short Term Strategy:

- 10 Lakh High Yielding cattle with 6 Ltrs Milk Yield per day Awareness on better feeding aspects to increase milk yield to 8 ltrs per day (Additional Milk Production – 20 LLPD)
- 2468 progressive dairy farmers producing more than 50 ltrs per day additional credit support to these farmers to enhance milk production – 1.5 LLPD
- 21000 SHGs to be engaged to Dairying activity through NGO's to produce 10 LLPD.
- Total Expected Additional Output 11.65 Lakh MTs

Medium Term Strategy:

 Better care & Management of (3 lakh) Heifers of high genetic merit between 18-20 months for early conception.

Long Term Strategy:

Better care & management of (5Lakh) improved heifer calves for early maturity.

6

Growth Engine- Milk

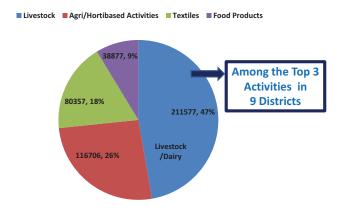
| | | tive Ani h Numl | | | | | | (Rs in | Projected Growth for 2015-16 | | | | |
|---|---------|--------------------|------------------|-------------|-------------|------------------|---------|---------|------------------------------------|---------|---------|-----------------------------------|------------------|
| Sector | 2014-15 | 2015-16 | % of Increase | 2014- 15 | 2015- 16 | % of Increase | 2014-15 | 2015-16 | % of Increase | 2014-15 | 2015-16 | Inc in Value (Rs in Crores) | % of increase |
| a) Milk from Crossbred Cows | 8.289 | 9.035 | 9.00 | 7.697 | 8.24 | 7.05 | 23.29 | 27.17 | 16.69 | 5528 | 7283 | 1755 | 31.75 |
| b) Milk from Non Descriptive Cows | 7.989 | 7.590 | -5.00 | 2.477 | 2.58 | 4.16 | 7.22 | 7.15 | -1.05 | 1715 | 1916 | 201 | 11.72 |
| c) Milk from Graded Murrah Buffaloes | 15.997 | 17.437 | 9.00 | 7.612 | 8.14 | 6.94 | 44.45 | 51.81 | 16.56 | 10551 | 13886 | 3335 | 31.61 |
| d) Milk from Non Descriptive Buffaloes | 14.998 | 14.248 | -5.00 | 3.946 | 4.21 | 6.56 | 21.60 | 21.87 | 1.24 | 5128 | 5861 | 733 | 14.30 |
| Sub- Total | 47.273 | 48.309 | 2.19 | 5.43 | 5.79 | 6.59 | 96.56 | 108.00 | 11.85 | 22922 | 28944 | 6024 | 26.28 |

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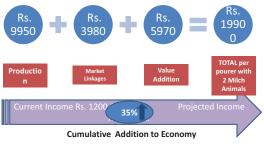
Action Plan for Additional Milk Production

| Strategies | Activities | Estimated Additional increase in production in lakh liters per day | Estimated additional annual milk production in Lakh Metric Tons | | |
|--|---|---|---|-----------------------|----|
| Increasing the average milk yield of 20 lakh Improved Animals by 1 litre per day(including those with SHG) | Fodder Development | 20 | 7.519 | Partially Budgeted | |
| Increasing the average milk yield of 10 lakh Non descript Animals by 1/2 litre per day | Capacity building, Fodder Development & Mineral supplementation | 5 | 1.88 | Partially Budgeted | |
| breeding stock(1.04 lakh) added | Artificial Inseminations, Calves born, Preventive and Curative Health Care | 5 | 1.95 | Budgeted | |
| Additional milk production through 2500 Big & Medium Dairy Farms each producing 50 litres per day to create facilities for additional 100 Its per farm | Capacity building and credit facilities | 1 | 0.38 | NA | |
| | Total | 31 | 11.73 | | 28 |

Role of Dairy in SHG Livelihoods



Dairy FPOs by SERP Return on Intervention



60 FPOs

Members

200000 SHG

Note:

SERP Internal Survey showed a value addition of a total of Rs. 19900 per dairy farmer assuming that they had 2 milch animals. Of this, 50% is expected to come from Production related interventions, 20% from Market Linkages and 30% from Value Addition

Cumulative Figures are calculated using currently available data of2,11,000 SHG members engaged in Dairy from the SERP Micro Enterprise Survey

Fodder Policy (2015-16)

| | | | | Funding | plan for 20 | 15-16 (Rs. in Cro | ores) |
|------------|---|----------|-----------|----------|---------------------------------|--------------------------------|---|
| Sl. No. | Name of the Activity | Physical | Financial | Budgeted | Additional funds required | funds through other sources | Remarks |
| 1 | Fodder seed supply for annual fodders (in MT's) | 3500 | 17.5 | 5.00 | 12.5 | - | |
| 2 | Perennial fodder production under assured irrigation sources (in acres) | 13000 | 31.20 | - | - | | Funding from MGNREC S |
| 3 | Fodder banks &Conservation of crop residues through fodder bales in PPP(in MTs) | 10000 | 8.00 | 8.00 | - | | for summer management in Chittoor & Ananthapur |
| 4 | Fodder block making units | 4 | 4.00 | 4.00 | - | - | For Maize Stove utilization in PPP |
| | Silage Making Units for Individual farmers (Rs.18000/- per unit) | 2000 | 3.60 | - | - | 3.60 | Funding from MGNREG S |

Fodder Policy (2015-16)

| | | | Funding plan for 2015-16 (Rs. in Crores) | | | | | | |
|------------|--|----------|--|----------|---------------------------------|--------------------------------|---------------------------------------|--|--|
| SI. No. | Name of the Activity | Physical | Financial | Budgeted | Additional funds required | funds through other sources | Remarks | | |
| | Hydrophonics in PPP(Rs.30000/- per unit) | 200 | 0.60 | 0.60 | - | - | | | |
| 7 | Azolla units(Rs.5000/per unit) | 3000 | 1.50 | 1.50 | - | - | - | | |
| | Promotion of commercial Silage Bales on PPP(in MTs) | 15000 | 8.00 | 8.00 | - | - | - | | |
| 9 | Capacity Building f to Dairy Farmers with an Incentive of Mineral Mixture (Rs.300 per person, Rs.70 per kg) | 700000 | 91.00 | 3.00 | 88.00 | - | - | | |
| | Credit facility to Big farmers through Bank linkage | 1000 | - | - | - | - | Rs.50 Crore institutiona credit | | |
| | Total | | 165.40 | 30.10 | 100.50 | 34.80 | | | |

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| | | | Gro | wth | Eng | ine- | Mea | nt & I | gg | | | | |
|---------------------------------------|-----------------|---------------------------------------|------------------|---------|----------------------|----------------------|--------------|------------------------------------|------------------|------------------------------------|---------|-----------------------------------|---------------------|
| | Producti | Productive Animals in Lakh Numbers | | | vity Per A In Kgs | | | uction per Year and Metric Tons | | Production Value (Rs in Crores) | | Projected Growth for 2015-16 | |
| Sector | 2014-15 | 2015-16 | % of Increase | 2014-15 | 2015-16 | % of Increas e | 2014-15 | 2015-16 | % of Increase | 2014-15 | 2015-16 | Inc in Value (Rs in crores) | % of increase |
| Meat Production | leat Production | | | | | | | | | | | | |
| a) Buffaloe Meat | 5.913 | 6.386 | 8.00 | 106.76 | 116.37 | 9.00 | 63.13 | 74.32 | 17.72 | 1044 | 1228 | 184 | 17.65 |
| b) Sheep Meat | 69.075 | 74.601 | 8.00 | 14.30 | 15.15 | 6.00 | 98.75 | 113.04 | 100.00 | 1632 | 1867 | 235 | 14.41 |
| c) Goat Meat | 34.212 | 36.607 | 7.00 | 12.66 | 13.42 | 6.00 | 43.33 | 49.14 | 13.42 | 716 | 812 | 96 | 13.35 |
| d) Pig Meat | 0.398 | 0.410 | 3.00 | 38.08 | 39.61 | 4.00 | 1.51 | 1.62 | | 25 | 27 | 2 | 7.06 |
| d) Backyard Poultry Meat | 92.322 | 97.862 | 6.00 | 1.21 | 1.29 | 6.00 | 11.21 | 12.60 | 100.00 | 185 | 208 | 23 | 12.29 |
| e) Commercial Poultry Meat | 2754.229 | 2,864.398 | 4.00 | 1.12 | 1.22 | 8.50 | 309.82 | 349.60 | | 5121 | 5775 | 654 | 12.77 |
| Sub- Total | 2956.15 0 | 3080.26 4 | 4.20 | 13.27 | 13.88 | 4.62 | 527.751 | 600.330 | 13.75 | 8721 | 9917 | 1196 | 13.71 |
| Egg Production | | | | Eggs | year / | | Crore | Eggs | | | | | |
| a) Eggs from Backyard Poultry | 112.630 | 118.261 | 5.00 | 71.00 | 75.00 | 5.63 | 79.967 | 88.70 | 10.92 | 178 | 195 | 18 | 9.87 |
| b) Eggs from Commercial Poultry | 408.582 | 439.634 | 7.60 | 301.00 | 304.00 | 1.00 | 1229.832 | 1336.49 | 8.67 | 2731 | 2940 | 209 | 7.64 |
| Sub- Total | 521.212 | 557.895 | 7.04 | 186.00 | 189.50 | 1.88 | 1309.79 9 | 1425.18 | 8.81 | 2909 | 3134 | 226 | 7.78 |
| Others | | | | | | | | | | 2246 | 3689 | | |
| Grand Total | | | 4.48 | | | 4.36 | | | 11.47 | 36798 | 45684 | 8886 | ³³ 24.15 |

Action Plan for additional Meat Production

| Strategies | Activities | Estimated additional annual meat production in Lakh Metric Tons | Budgeted or Not | |
|---|---|--|-----------------|---|
| sheen by 2 Kg per appum in 40 lakh sheen | Capacity building of shepherds for exchange of 2 lakh breeding rams | 0.08 | Budgeted | - |
| Increasing the average meat yield of Ramlambs by 8 Kg per annum in 20 lakh Ramlambs. | Capacity building of shepherds to with hold the lambs up to the marketable age of 12 months | 0.16 | Budgeted | |
| Additional Meat Production due to addition of extra 8 lakh sheep & goat (15 kg slaughter weight per animal) 47000 buffalo (116 kg slaughter weight per animal) & 250lakh poultry (1.2 kg slaughter weight per bird) to the culled stock | | 0.47 | Budgeted | |
| | Capacity building and supply of units | 0.001 | Budgeted | |
| Additional Meat production of 0.2 kg from 80 lakh desi birds | Preventive and curative health care measures | 0.016 | Budgeted | |
| | Total | 0.727 | | |

3.4

| | Activities for Meat Production | | | | | | | | | | |
|------------|--|--------------|-------|-----------|------------|-----------------|--|--|--|--|--|
| | | | 1 | Funding p | lan for 20 | 15-16 (Rs. in C | Crores) | | | | |
| Sl. No. | Name of the Activity | Physica 1 | | Budgeted | | | Remarks | | | | |
| 1 | 2 | 3 | 5 | 6 | 7 | 8 | 9 | | | | |
| 1 | Capacity building to shepherds with incentives for Breeding Ram exchange, (including Insurance) | 200000 | 30.00 | - | 30.00 | - | | | | | |
| 2 | Support to the entrepreneurs in the form of bank linkages for retention of ram lambs | | - | - | - | - | Rs.300 Crores institutional credit | | | | |
| | Total | | 30.00 | _ | 30.00 | _ | | | | | |

Dairy

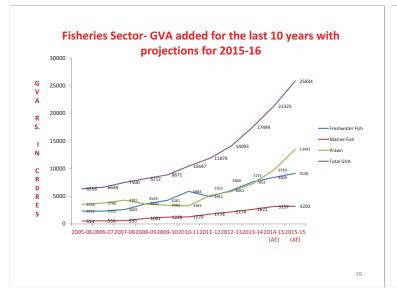
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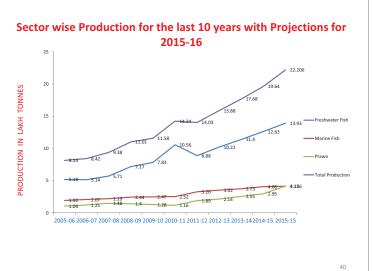


Strategies to achieve the Target during 2015-16 Milk Procurement (APDDCF)

| | Milk Procurement during 20 | 14-15 in Lakh Litres (2 LLPD) | 730.00 | | | | | |
|----|--|--|---------------------------------------|--|--|--|--|--|
| SL | Steps | Technological Interventions | Expected Procurement Lakh Ltrs. | | | | | |
| 1 | Increase Milk Procurement | Expand Milk Routes to vergin areas | 73.00 | | | | | |
| 2 | Increase Milk Procurement | optimize milk routes | 73.00 | | | | | |
| 3 | Increase Milk Procurement | Through capacity building/Awareness in existing Milk Collection Centres | 73.00 | | | | | |
| 4 | Increase Milk Procurement | Promote 10 Dairy Entrepreneurs in each of 6 Districts under APDDCF scope (500 LPD*10 * 6) | 109.50 | | | | | |
| 5 | Increase Milk Procurement | Revive 58 BMCUs, expand village coverage to 1160, expected Milk Pcoruement /Village 50 LPD | 211.70 | | | | | |
| | | Sub Total | 540.20 | | | | | |
| | Projected Milk Procurement 2015-16 in Lakh Litres (3.48 LLPD) | | | | | | | |
| | GR% 74 | | | | | | | |

Fisheries





Fisheries-sector wise production and GVA for the last 10 years with projections during 2015-16

| | Pro | duction (L | akh MT) | | GVA (Rs. in Crores) | | | | | % Contribution | |
|-----------------|--------------------|----------------|---------|--------|---------------------|--------------------|----------------|-------|-------|--------------------------------|--------------------|
| Year/ Sector | Freshwater fish | Marine fish | Prawn | Total | Growth Rate (%) | Freshwater fish | Marine fish | Prawn | Total | at current price to GSDP | Growth Rate (%) |
| 2005-06 | 5.18 | 1.92 | 1.04 | 8.14 | 5.85 | 2311 | 514 | 3533 | 6358 | 4.31 | 6.23 |
| 2006-07 | 5.14 | 2.07 | 1.21 | 8.42 | 3.44 | 2322 | 556 | 3766 | 6644 | 3.82 | 4.50 |
| 2007-08 | 5.71 | 2.19 | 1.48 | 9.38 | 11.40 | 2605 | 593 | 4302 | 7500 | 3.53 | 12.88 |
| 2008-09 | 7.17 | 2.44 | 1.4 | 11.01 | 17.38 | 3642 | 1001 | 3569 | 8212 | 3.46 | 9.49 |
| 2009-10 | 7.83 | 2.47 | 1.28 | 11.58 | 5.18 | 4261 | 1228 | 3382 | 8871 | 3.25 | 8.02 |
| 2010-11 | 10.56 | 2.52 | 1.16 | 14.24 | 22.97 | 5884 | 1270 | 3293 | 10447 | 3.27 | 17.77 |
| 2011-12 | 8.88 | 3.26 | 1.89 | 14.03 | -1.47 | 4952 | 1774 | 5153 | 11879 | 3.28 | 13.71 |
| 2012-13 | 10.22 | 3.52 | 2.14 | 15.88 | 13.19 | 6051 | 2174 | 5868 | 14093 | 3.44 | 18.64 |
| 2013-14 | 11.4 | 3.73 | 2.55 | 17.68 | 11.34 | 7603 | 2621 | 7275 | 17499 | 3.77 | 24.17 |
| 2014-15 (AE) | 12.63 | 4.06 | 2.95 | 19.64 | 11.09 | 8409 | 3157 | 9759 | 21325 | 4.1 | 21.86 |
| 2015-16 (AE) | 13.93 | 4.12 | 4.156 | 22.206 | 13.07 | 9138 | 3203 | 13493 | 25834 | To be calculated | 21.14 |

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(Prawn: Both cultured & captured shrimp and prawn from Inland and Marine sources)

(Source: Production particulars- Dept. of Fisheries, GVA- Director, Econonomics and Statistics)

Sector-wise projections for the years 2014-15 & 2015-16

| Sector | 2014-15 | (AE) | 2015-16 | 6 (AE) | % of Gi Rat | |
|----------------------|---|---|---|---|--|--|
| | Production | Value | Productio | Value | Product | Value |
| | (lakh tonnes) | (Rs in | n (lakh | (Rs in | ion | |
| | | Crores) | ton.) | Crores | | |
| Prawn production | 2.95 | 9759 | 4.156 | 13493 | 40.88 | 38.26 |
| (culture prawn and | | | | | | |
| shrimp from | | | | | | |
| Freshwater, Brackish | | | | | | |
| water and captured | | | | | | |
| shrimp from Marine | | | | | | |
| fisheries sector | | | | | | |
| Freshwater Fish | 12.63 | 8409 | 13.93 | 9138 | 10.29 | 8.67 |
| Marine Fish | 4.06 | 3157 | 4.12 | 3203 | 1.46 | 1.46 |
| TOTAL | 19.64 | 21325 | 22.206 | 25834 | 13.07 | 21.14 |
| | Prawn production (culture prawn and shrimp from Freshwater, Brackish water and captured shrimp from Marine fisheries sector Freshwater Fish Marine Fish | Production (lakh tonnes) Prawn production (culture prawn and shrimp from Freshwater, Brackish water and captured shrimp from Marine fisheries sector Freshwater Fish 12.63 Marine Fish 4.06 | Production (lakh tonnes) Value (Rs in Crores) Prawn production (culture prawn and shrimp from Freshwater, Brackish water and captured shrimp from Marine fisheries sector Freshwater Fish 12.63 8409 Marine Fish 4.06 3157 | Production (lakh tonnes) Value (Rs in Crores) Prawn production (lakh tonnes) 9759 4.156 Prawn production (culture prawn and shrimp from Freshwater, Brackish water and captured shrimp from Marine fisheries sector Freshwater Fish 12.63 8409 13.93 Marine Fish 4.06 3157 4.12 | Production (lakh tonnes) Value (Rs in Crores) Value | Production (lakh tonnes) Value (Rs in Crores) ton.) Crores Prawn production (culture prawn and shrimp from Freshwater, Brackish water and captured shrimp from Marine fisheries sector Freshwater Fish 12.63 8409 13.93 9138 10.29 Marine Fish 4.06 3157 4.12 3203 1.46 |

Note: GVA values as per DES for 2014-15 (AE) and approximate estimated GVA values for 2015-16 are projected in the above table

Growth Engine- Brackish Water

| Sl. No | Strategies | Actionable Points | Estimated additional increase in Production (in Lakh Tonnes) | Estimated Total Production (L.T) | Budget Allocated (Rs in Crores) | Support from othe institutions |
|--------|--|--|---|-------------------------------------|---------------------------------------|--|
| | A) Revival of defunct culture area and Optimum utilisation of | Promotion through incentives for revival of defunct area for 1000 ha and inputs subsidy , Cluster approach for shrimp farming with the assistance of NaCSA | 0.05 | 1.1 | 20.00 | Expedite the process of registration of new farms, hatcheries through CAA |
| | Promotion of Sea bass culture in 100 ha and Mud Crab in 100 ha by providing subsidy for revival of diversified species defunct area & for inputs, Assistance for establishment of Sea bass & Mud Crab hatcheries | | 0.006 | 0.006 | 5.10 | Technical support from CIBA, CAA, RGCA, MPEDA, SVVU for promtion of alternate specie |
| | C) Mechanisation in Aquaculture | Incentive for farm mechanisation for aerators, solar pump and solar lights for 1000 farmers and promotion of sustainable shrimp production | 0.28 | 0.28 | | NEDCAP financial & technical Support |
| | D) Disease surveillance and Lab services | Disease diagnostic services at labs and at farm site to reduce the crop losses due to disease out break for 15000 farmers | 0.36 | 0.36 | 2.00 | MPEDA, NaCSA technical support through lab service |
| | E) Capacity Building and Extennsion activitie | Awareness on Best Management Practices and Technical services at farm site for production of quality shrimp crop for 3000 farmers | 0.16 | 0.16 | 4.46 | CIFE, CIBA, MPEDA SIFT technical support |
| | TOTAL | | 0.856 | 1.906 | 51.67 | |

| il. No | Strategies | Actionable Points | Estimated additional increase in Production (in Lakh Tonnes) | Estimated Total Production (L.T) | Budget Allocated (Rs in Crores) | Non financial requirement |
|--------|---|---|---|---|---------------------------------------|---|
| | | Promotion of farm mechanisation in L. vannamei farms in 400 ha and cluster approach in aquaculture | 0.2 | 1.301 | 13.00 | Expedite the process of registration of farms through DLCs and Department |
| | B) Cage culture in reservoirs | Intensive culture in reservoirs/ perennial tanks through cage culture in 144 cages for diversified species Like Tilapia for getting optimum potential yields in 1000 ha. | 0.06 | 0.06 | 10.02 | Technical support from CIFRI and MPEDA |
| | promotion of scampi culture in tanks | Revival of scampi culture in 500 ha through input subsidy, stocking of all reservoirs and tanks with advance size of scampi seed | 0.01 | 0.2 | 2.75 | Technical support from MPEDA, RGCA, SVVU |
| | D) Stocking of tanks & reservoirs and Promtion of BMPs in existing aquaculture ponds | Stocking of advanced fingerlings of fish seed in all tanks, reservoir, promotion of captive nurseries, desliting and deepening of tanks under RKVY, NFDB & MGRNEGS in about 3 lakh ha, | 0.51 | 13.06 | 0.50 | Funds of Rs. 10 crores from RKVY, Rs. 2 crores from NFDB, Rs. 120 cro from MGNREGS will be tapped |
| | E) Promotion of alternate species Red Tilapia and GIFT | Introduction of Red Tilapia and GIFT in 1000 ha with MPEDA, RGCA Support | 0.3 | 0.3 | 10.00 | Technical & marketing support from MPEDA |
| | F)Establsihment of Fish Brood Stock Centres and Hactheries and strengthening of Fish seed Farms | Establishment of 4 Brood stock centres to develop genetically improved brood stock, Establishment of 7 hatcheries for scampi, tilapia, carps for supply of quality seed to cater the seed requirement of aqua farmers | 0.3 | 0.3 | 21.50 | Technical support from CIFA, CIFRI, NFDB, NBI |
| | G) Empowerment of SC/ ST socieites through Integrated development | Supply of fishing inputs, mobile fish vending units, social infrastructure development under SCP/TSP for 32 societies and 800 farmers | 0.05 | 0.05 | 11.15 | Support from District Revenue Authorities ar PR Dept |
| | Institutes | Conducting of awareness programmes, trainings and skill upgradation activities to generate more skilled man power in Aquacultrure sector for about 3000 farmers | 0.16 | 0.16 | 0.40 | Technical support from SIFT, MPEDA, CIFA and SVVU |
| | TOTAL | | 1.59 | 15.43 | 69.32 | 44 |

| SI. No | ategies | Actionable Points | Estimated additional increase in Production (in Lakh Tonnes) | Estimated Total Production (L.T) | Budget Allocated (Rs in Crores) | Non financial requirement |
|----------------------------------|----------------------------------|---|---|---|--|---|
| A) Prom Deep Se | otion of a fishing | Promotion of tuna long lining for deep sea fishing through subsidy for motorised and mechanised boats about 1500 boats to tap under exploited resources from deep sea water resources | 0.06 | 0.20 | 12.00 | Technical support from CIFNET, CIFT, FSI, SIFT |
| B) Estab Fish land Centres | шы | Hygienic handling of harvested fish and shrimp and reduction of post harvest losses through establishing fish landing centres | | 0.27 | 14.00 | Technical support from CICEF, EPTRI, EFST, APPCB |
| | ervation of resources | Implementation of Ban period on marine fishing for 61 days for conservation of ban period from April 15 to June 14th 2015, Relief assistance to crew members through cash benefitting 90,000 crew members | - | 2.00 | 13.00 | Support from Coastal Security Police (CSP), Coast Guard for implementation of conservation period |
| marine t | fishing motorised chanised | Sales Tax exemption on HSD oil for Mechanised boats (3000 lts/ month) and Motorised Boats (300 lts/ month) @ Rs. 6.03 per LTS. For supporting the marine fishing activities for about 1.400 craft | 0.04 | 2.40 | 14.00 | CIFNET, FSI and CIFT technical support |
| F) Disast Prepare | dness | Maintenance of shore stations, relief boats , GPS tracking for vessel monitoring for taking up cyclone rescue operations, Exgratia to family members of deceased fishers | | | 2.60 | Support from Disaster Management, Coastal Security Police, Coast Guard, District Revenu Authorities |
| TOTAL | | | 0.10 | 4.87 | 55.60 | |

| | Action | Plan for Marketing in Fish | neries Sect | or |
|--------|---|--|------------------------------------|---|
| SI. No | Strategies | Actionable Points | Budget Allocated (Rs in Crores) | Non financial requirement |
| | A) Establishment of Fibre fish marts | Promotion of domestic fish markets by establishing fish vending fibre marts (10 areas) in urban muncipality areas | 1.06 | Model survey of MATSYA FED. KERALA and MPEDA Support |
| | B) Value addition | Promotion of post harvest technolgies for value addition through establishing units of de sacler, deboner, packing and marketing (6units) | 0.90 | Technical support from CIFT, SIFT |
| | C) Fish vending through Matsya Mithra Groups | Promotion of domestic fish marketing through retail outlet by providing revolving fund to Matsya Mithra Groups (750 women) | 0.50 | Support from Local Muncipal Authorities |
| | D) Promotion of AP Fish products in national and international market | Promotion of "Brand Andhra" for AP Fish and shrimp produced through print and electronic, expos, exhibitions etc and technical service for establishing infrastructure facilities | 7.00 | Support from Sea food Exporters Association, EIC, MPEDA |
| | E) Promotion of Ornamental fish Trade through fisherwomen | Establishment of back yard hatcheries for production of ornamental fish and promotion of marketing, as an alternative livelihood for fisherwomen (120 units covering 1800 fisherwomen) | 1.13 | Technical support from SIFT, CIFA, MPEDA |
| | | TOTAL | 10.59 | |

Horticulture

Targeted GVA and Production for 2015-16 at Current Prices

| | 201 | 4-15 | 2015-16 | | | |
|------------------------|---------------------|------------------------|---------------------|------------------------|--|--|
| Horticulture | GVA (in Crores) | Prod. (in '000 MTs) | GVA (in Crores) | Prod. (in '000 MTs) | | |
| Growth Engines | | | | | | |
| 1.Chillies | 3767 | 524 | 8174 | 1220 | | |
| 2.Banana | 6727 | 2870 | 6965 | 3666 | | |
| 3.Mango | 3435 | 2886 | 3980 | 3344 | | |
| 4.Sweet Orange | 1176 | 1331 | 1299 | 1470 | | |
| 5.Cashewnut | 814 | 90 | 1935 | 214 | | |
| 6.Tomato | 3589 | 2400 | 3729 | 3390 | | |
| 7.Oil Palm | 911 | 1302 | 980 | 1400 | | |
| 8.Lemon | 1382 | 583 | 1472 | 621 | | |
| 9.Papaya | 1220 | 1488 | 1574 | 1920 | | |
| 10.Others | 12397 | | 12580 | | | |
| TOTAL | 35417 | | 42686 | | | |
| INCREMENT IN GSDP | 1904 | | 7269 | | | |
| BUDGET (Rs. in Crore) | 219 | | 310 | | | |

Gro th ngine- anana 1 -1

| Sl.No | Name of the District | Area in Ha | Production in MT | Value Rs. In Cr. |
|-------|----------------------|------------|------------------|------------------|
| 1 | Kurnool | 2000 | 100000 | 100.00 |
| 2 | Kadapa | 3200 | 160000 | 160.00 |
| 3 | Anantapur | 3000 | 150000 | 150.00 |
| 4 | Chittoor | 300 | 15000 | 15.00 |
| 5 | West Godavari | 400 | 20000 | 20.00 |
| 6 | East Godavari | 100 | 5000 | 5.00 |
| 7 | Guntur | 200 | 10000 | 10.00 |
| 8 | Krishna | 200 | 10000 | 10.00 |
| 9 | Srikakulam | 50 | 2500 | 2.50 |
| 10 | Vizianagaram | 150 | 7500 | 7.50 |
| 11 | Visakhapatnam | 100 | 5000 | 5.00 |
| 12 | Prakasam | 200 | 10000 | 10.00 |
| 13 | Nellore | 100 | 5000 | 5.00 |
| | Total | 10000 | 500000 | 500.00 |

| S | ame of the ompany | April, 1 | May, 1 | ne, 1 | ly, 1 | Ags t, 1 | Septe mber, 1 | tob er, 1 | o e mber, 1 | e em ber, 1 | an ar y, 1 | ebr ary, 1 | Mar h, 1 | otal o of Plants |
|---|--|-------------|-----------|----------|----------|-------------|---------------------|-----------------|-------------------|-------------------|---------------|------------------|-------------|------------------------|
| 1 | aya Sree io te h Plants, os r | 0 50 | 0 50 | 0 50 | 0 50 | 0 50 | 0 50 | 0 50 | 0 50 | 0 50 | 0 50 | 0 75 | 1 00 | 6 75 |
| | M s Mi ros n ioplants (India) P t td, yderabad | 5 00 | 6 00 | 10 00 | 10 00 | 10 00 | 10 00 | 10 00 | 10 00 | 10 00 | 10 00 | 10 00 | 10 00 | 111 00 |
| | itroplant ee dimetla (ill), thb llap r yderabad- | 7 50 | 7 50 | 7 50 | 7 50 | 7 50 | 7 50 | 7 50 | 7 50 | 7 50 | 7 50 | 7 50 | 7 50 | 90 00 |
| | M s Sai ara io e hnoligies td eedimetla, yderabad | 2 00 | 2 00 | 2 00 | 2 00 | 2 00 | 2 00 | 2 00 | 2 00 | 2 00 | 2 00 | 2 00 | 2 00 | 24 00 |
| | M s akshmi iote h, Yelahanka, angalore | 0 50 | 1 00 | 1 00 | 1 00 | 1 50 | 1 50 | 2 50 | 3 50 | 4 00 | 5 00 | 5 00 | 5 00 | 31 50 |
| | Grand otal | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | | |

Gro th ngine- hillies (1 -1)

- Integrated Pest Management
- Capacity Building for 2 lakh Chillies Farmers
- Custom Hire Center at every village
 - Poly Sheets
 - Solar Dryers
 - Transplanter
- Export Promotion

Additional area nder hillies Iti ation for 1 -1

| S o | istri t | hillies |
|-----|--------------|---------|
| 1 | East oda ari | 2000 |
| 2 | untur | 50000 |
| 3 | Prakasam | 12000 |
| 4 | Kadapa | 1000 |
| 5 | nanthapuram | 3000 |
| | Α | |

Crop wise Action Plan for Micro irrigation for 2015-16

| SI.No | Name of the Crop | Area Proposed in ha | | | |
|-------|---|---------------------|--|--|--|
| 1 | Vegetables | 2580 | | | |
| 2 | Chillies | 5000 | | | |
| 3 | Banana | 8000 | | | |
| 4 | Papaya | 500 | | | |
| 5 | Turmeric | 120 | | | |
| 6 | Flowers (Open) | 100 | | | |
| 7 | Sugarcane | 900 | | | |
| 8 | Cotton | 400 | | | |
| 9 | Maize | 500 | | | |
| 10 | Acid Lime | 100 | | | |
| 11 | Pomegranate | 50 | | | |
| 12 | Sweet Orange | 1000 | | | |
| 13 | Mango | 400 | | | |
| 14 | Coconut | 50 | | | |
| 15 | Cashew | 50 | | | |
| 16 | Oil palm | 700 | | | |
| 17 | Sapota | 50 | | | |
| 18 | Guava | 50 | | | |
| 19 | Others (Fig, Ber, Custard Apple, Amla, Aloevera etc.,) | 50 | | | |
| 20 | Sprinklers Crops (Ground nut & Pulses) | 2000 | | | |
| | Total | 10000 | | | |

Indicative payment module on Annuity for implementation of Micro Irrigation in 4.00 lakh ha from 2015-16 to 2018-19

| Details | GOI | Share | Contributi on | Total | GOI | Share | Contrib ution | Total | GOI | Share | Contribu tion | Total | GOI | Share | Contribut ion | Total |
|---|--------|----------------|---------------------------|--------|--------|----------------|---------------------------|--------|--------|----------------|---------------------------|--------|--------|----------------|---------------------------|---------|
| Current year | 135.00 | 109.93 | 157.04 | 401.97 | 135.00 | 109.93 | 157.04 | 401.97 | 135.00 | 109.93 | 157.04 | 401.97 | 135.00 | 109.93 | 157.04 | 401.97 |
| Arrears of Previous years | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 109.92 | 0.00 | 109.92 | 0.00 | 219.85 | 0.00 | 219.85 | 0.00 | 329.77 | 0.00 | 329.77 |
| Total | 135.00 | 109.93 | 157.04 | 401.97 | 135.00 | 219.85 | 157.04 | 511.89 | 135.00 | 329.78 | 157.04 | 621.82 | 135.00 | 439.70 | 157.04 | 731.74 |
| Interest on amount due to the paid to the MI Companies | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 33.80 | 0.00 | 33.80 | 0.00 | 56.33 | 0.00 | 56.33 | 0.00 | 67.60 | 0.00 | 67.60 |
| Total with interest | 135.00 | 109.93 | 157.04 | 401.97 | 135.00 | 253.65 | 157.04 | 545.69 | 135.00 | 386.11 | 157.04 | 678.15 | 135.00 | 507.30 | 157.04 | 799.34 |
| | | 201 | 9-20 | | | 2020 |)-21 | | | 202 | 1-22 | | | Т | otal | |
| Details | GOI | State Share | Bene. Contributi on | Total | GOI | State Share | Bene. Contrib ution | Total | GOI | State Share | Bene. Contribu tion | Total | GOI | State Share | Bene. Contribut ion | Total |
| Current year | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 540.00 | 439.72 | 628.16 | 1607.88 |
| Arrears of Previous years | 0.00 | 329.77 | 0.00 | 329.77 | 0.00 | 219.85 | 0.00 | 219.85 | 0.00 | 109.92 | 0.00 | 109.92 | 0.00 | 1319.08 | 0.00 | 1319.08 |
| Total | 0.00 | 329.77 | 0.00 | 329.77 | 0.00 | 219.85 | 0.00 | 219.85 | 0.00 | 109.92 | 0.00 | 109.92 | 540.00 | 1758.80 | 628.16 | 2926.96 |
| Interest on amount due to the paid to the MI Companies | 0.00 | 67.60 | 0.00 | 67.60 | 0.00 | 33.80 | 0.00 | 33.80 | 0.00 | 11.27 | 0.00 | 11.27 | 0.00 | 270.40 | 0.00 | 270.40 |
| Total with | | | | | | | | l | | | | | | | | |

Gro th ngine- omato 1 -1 Additional area nder omato Iti ation for 1 -1

| SI o | istri t | omato |
|------|---------------|-------|
| 1 | Visakhapatnam | 500 |
| 2 | East oda ari | 100 |
| 3 | est oda ari | 100 |
| 4 | Krishna | 100 |
| 5 | Prakasam | 350 |
| 6 | hittoor | 4000 |
| 7 | Kadapa | 500 |
| 8 | nanthapuram | 1000 |
| 9 | Kurnool | 500 |
| | A | 1 |

| SI. No | Crop | Present Yield Ton/ha | Increased yield due to interventions Ton/ha | % of increase | Interventions |
|-----------|----------------------|----------------------------|--|---------------|---|
| 1 | Tomato (Poly houses) | 20 | 80 | 650 | Poly houses + Shadenet houses + IPM + Mulching + Fertigation |

istri t ise targets for Poly o ses and Shadenet

| Sl.No | District | Poly Houses in Sqm | Shadenet in Sqm | Total |
|-------|---------------|-----------------------|-----------------|--------|
| 1 | Srikakulam | | 2000 | 2000 |
| 2 | Vizianagaram | | | |
| 3 | Visakhapatnam | 5000 | 15000 | 20000 |
| 4 | East Godavari | 2500 | 15250 | 17750 |
| 5 | West Godavari | 5000 | 15000 | 20000 |
| 6 | Krishna | 10000 | 20000 | 30000 |
| 7 | Guntur | 12000 | 51000 | 63000 |
| 8 | Prakasam | 8000 | 30000 | 38000 |
| 9 | Nellore | | | |
| 10 | Chittoor | 570000 | 80000 | 650000 |
| 11 | Kadapa | 20000 | | 20000 |
| 12 | Ananthapuram | 3000 | 7500 | 10500 |
| 13 | Kurnool | 22000 | 35000 | 57000 |
| | TOTAL | 657500 | 270750 | 928250 |

Area pansion nder orti It re rops

| S.No | District | Banana | Chillies | Papaya | Tomato | Onion | Potato | Gourds |
|------|---------------|--------|----------|--------|--------|-------|--------|--------|
| 1 | Srikakulam | 50 | | | | 1000 | | 200 |
| 2 | Vizianagaram | 150 | | | | | | 200 |
| 3 | Visakhapatnam | 100 | | | 500 | | 2000 | 500 |
| 4 | East Godavari | 100 | 2000 | | 100 | | | 600 |
| 5 | West Godavari | 400 | | 100 | 100 | | | 200 |
| 6 | Krishna | 200 | | | 100 | | | 500 |
| 7 | Guntur | 200 | 50000 | 500 | | | | 500 |
| 8 | Prakasam | 200 | 12000 | 500 | 350 | | | 500 |
| 9 | Nellore | 100 | | | | | | 200 |
| 10 | Chittoor | 300 | | 500 | 4000 | | 5000 | 500 |
| 11 | Kadapa | 3200 | 1000 | 2200 | 500 | 1000 | | 200 |
| 12 | Ananthapuram | 3000 | 3000 | 1200 | 1000 | 3000 | | 500 |
| 13 | Kurnool | 2000 | | | 500 | 5000 | | 500 |
| | Total | 10000 | 68000 | 5000 | 7150 | 10000 | 7000 | 5100 |

District Wise Postharvest Infrastructure Available in Andhra Pradesh

| SI. No | Name of the District | Cold Sto | rage units | Ripening | Chambers | Mango Processi | | Cashew Processing units | |
|---------|-------------------------|----------|-------------------|----------|-------------------|-------------------|-------------------|-------------------------|-------------------|
| 31. 140 | | No | Capacity (MTS) | No | Capacity (MTS) | No | Capacity (MTS) | No | Capacity (MTS) |
| 1 | Srikakulam | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 99 |
| 2 | Vijayanagaram | 5 | 32500 | 0 | 0 | 1 | 125 | 0 | С |
| 3 | Vizag | 1 | 6500 | 3 | 78 | 0 | 0 | 15 | 165 |
| 4 | East Godavari | 4 | 26000 | 0 | 0 | 0 | 0 | 5 | 55 |
| 5 | West Godavari | 2 | 13000 | 0 | 0 | 0 | 0 | 3 | 33 |
| 6 | Krishna | 26 | 169000 | 5 | 130 | 3 | 375 | 0 | C |
| 7 | Guntur | 77 | 500500 | 11 | 286 | 0 | 0 | 0 | С |
| 8 | Prakasham | 53 | 344500 | 3 | 78 | 0 | 0 | 27 | 297 |
| 9 | Nellore | 5 | 32500 | 1 | 26 | 0 | 0 | 2 | 22 |
| 10 | Chittoor | 4 | 26000 | 3 | 78 | 43 | 5375 | 0 | С |
| 11 | Kadapa | 2 | 13000 | 14 | 364 | 1 | 125 | 0 | С |
| 12 | Ananthapur | 8 | 52000 | 14 | 364 | 0 | 0 | 0 | C |
| 13 | Kurnool | 14 | 91000 | 25 | 650 | 0 | 0 | 0 | С |
| | Total | 201 | 1306500 | | | 48 | 6000 | 61 | 671 |

| | | Identified Vegetable Clusters in AF | | | | |
|------|----------------|--|--|--|--|--|
| S.No | District | Name of the Potental mandals | Market Source | | | |
| 1 | Srikakulam | Ponduru eeraghattam Etcherla Srikakulam rural | Srikakulam Barampuram | | | |
| 2 | Vizianagaram | Mentada Ramabhadrapuram Nellimerla Bondapalli | Vishakapatnam Vzn local | | | |
| 3 | Vishakapatnam | nandapuram Sabba aram Vishakapatnam K Kotapadu raku umbriguda ukumpeta | | | | |
| | | Korukonda Seetanagaram Rajanagaram Kadium Tallapudi | Rajahmundry | | | |
| 4 | Fast oda ari | lamuru Ra ulapalem treyapuram Tuni | Ra ulapalem | | | |
| 4 | Last oua all | malapuram Ila aram yina illy Kotananduru | malapuram | | | |
| | | Kakinada rural Pithapuram ollaprolu Sanka aram | Kakinada Tuni | | | |
| 5 | est oda ari l | Peda egi hintalapudi | Eluru local | | | |
| 6 | est oda ari II | warakatirumala Nallajerla Pera ali | Eluru | | | |
| 7 | Krishna | konduru Totla alluru | Vijayawada | | | |
| 8 | untur I | Narakoduru Mangalagiri | yderabad Benguluru hennai | | | |
| 9 | untur II | Yedlapadu Kothapalem Konda eedu | untur yderabad | | | |
| 10 | Prakasam I | Marturu | Marturu ngole RBz Rollapalem | | | |
| 11 | Prakasam II | santamanguluru J ponguluru Ballipura a Kothapatnam ngole iddalaluru Besta aripeta Kuruchapadu | Marturu ngole RBz iddaluru | | | |
| 12 | Nellore I | Nellore Rural Naidupeta zili Podalakuru uduru Saidapuram ekkili Tellakuru | uduru Nellore Naidupeta | | | |
| 13 | Nellore II | Kaligiri Ka ali Indukurpeta | Nellore Krishna untur henna | | | |
| 14 | hittoor I | Penumuru udipala Madanapally Kuppam Vayalpadu | hennai Benguluru ydearbad | | | |
| 15 | hittoor II | urramkonda Kalikiri Kayalguda KVB Puram ST Narana anam S | hennai Benguluru Tirupati Madanapally | | | |
| 16 | Kumool I | Kalluru Kurnool Nandikotkuru r akallu Tapipalem | yderabad oastal districts | | | |
| 17 | Kumool II | Kodumuru | yderabad | | | |
| 18 | Kadapa I | Pendlimarri K inne | Kadapa town | | | |
| 19 | Kadapa II | Mydukur u uru | Vijayawada Nellore hennai | | | |
| 20 | nantapur I | BK Samudram arladinne Kalaynadurg Raidurgam Pamidi Kambuluru | Kolar yderabad Benguluru Madanapally | | | |
| 21 | nantapur II | Kadiri Indupur Penukonda harma arm Tanakallu Nallacherla | Benguluru hennai | | | |

Identified Farmer Groups

| S.No | District | Number of groups |
|------|-----------------|------------------|
| 1 | Krishna | 15 |
| 2 | Visakhapatam | 4 |
| 3 | West Godavari-2 | 6 |
| 4 | Guntur-1 | 8 |
| 5 | Chittor-2 | 1 |
| 6 | Chittor-1 | 14 |
| | Total | 48 |

dget e irement for 1 -1

Rs in rores

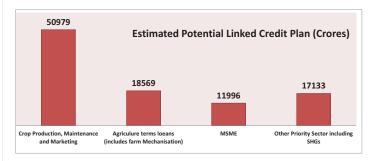
| SI. No | Name of the Scheme | Central Share | State Share | Total | Major components to be covered | Budgted/ budget to be provided |
|-----------|--|------------------|----------------|--------|--|--|
| 1 | Mission for Integrated Development of Horticulture(MIDH) (75:25) | 56.25 | 18.75 | 75.00 | PHM, Protected cultivation, Farm Ponds, Farm Mechanization & Area expansion, Plastic Mulching | Budgeted |
| 2 | Promotion of Horticulture Activities (State Plan) (0:100) | 0.00 | 210.00 | 210.00 | Area expansion for 5,000 Ha., Protected Cultivation for 1200 acres, Machinery service stations for 1000 Nos, Pesticide residue testing labs for 3 Nos, Promotion of FPPOs. Creation of water resources and form ponds. | Budgeted |
| 3 | Rashtriya Krishi Vikas Yojana (RKVY) (50:50) * | 29.135 | 29.135 | 58.25 | Value chain for vegetables, promotion of farmers groups, production to market linkages | GOI revised the budget sharing pattern 50:50 from this financial year only hence state share of Rs 29.135 crores has tobe provided by state govt. |
| 4 | National Mission on Oilseeds and Oilpalm Programme (NMOOP) (50:50) * | 36.55 | 36.55 | 73.10 | Oilpalm area expansion for 12,000 Ha., | GOI revised the budget sharing pattern 50:50 from this financial year only hence state share of Rs 36.55 crores has tobe provided by state govt. |
| 5 | On Farm Water Management Programme (OFWM) – APMIP (Differential Subsidy Pattern) * | 135.00 | 439.70 | 574.70 | Micro Irrigation for 1 Lakh Ha. On annuity basis. | Budget to be provided by state govt is Rs 109.93 Crores for 15-16 if implemented on annuity. State share of Rs.132.93 Crores has to be reelased for the installed systems in 36122 Ha during 2014-15 |
| | Total | 258.935 | 734.135 | 993.07 | | |

Budget provided by Agriculture Department

Credit Plan

- 1. Crop Production, Maintenance and Marketing
- 2. Farm Mechanization
- 3. Milk, Meat, Egg, Poultry & Fisheries

Sector wise Potential Linked Credit Plan



Crop Production, Maintenance and Marketing:

- ${\bf 1.} \ \ {\bf Seed\ rolling\ plan\ to\ be\ prepared\ to\ assess\ variety\ wise\ requirement\ and\ production$
- 2. Extension reforms through Micro ATM and motivation of farmers through the Rythu Chainya Yatra, conferences, Adarsh Rythu Awards
- 3. Implement innovative practices and organizing marketing of the produce
- 4. Custom hiring centrers in farmers groups may be promoted
- 5. Provide more credit through the Group Model

Mechanization Sector - Revised for 2015-16 (Rs. Crores)

- To increase Production and Productivity, There is immense potential in Agriculture sector through the Tractors, Power Tiller, Rotavators, Paddy Tran planters, Threshers, Combine Harvesters, Seed Drills AND other equipments.
- 2. AP is to promote farm mechanization with the support of financing banks
- Subsidy is available under RKVY, Normal State Plan, Nation Mission on Agri-extension & Technology and National Food Security Mission.

| Activity | Physical units | Financial Outlay | Bank Loan |
|---|----------------|------------------|-----------|
| Tractors | 27675 | 1587 | 1317 |
| Power Tillers | 13970 | 285 | 247 |
| Combined Harvesters | 450 | 112 | 86 |
| Custom Hiring Centres | 761 | 51 | 37 |
| Maize dehusker cum Sheller | 696 | 5 | 3 |
| Groundnut Mechanization | 1780 | 44 | 34 |
| Paddy Mechanization | 6473 | 96 | 67 |
| Sugarcane Mechanization | 100 | 5 | 4 |
| Others (tillage equipment, seed drills and rotovators, etc. | 70963 | 445 | 353 |
| TOTAL | 122844 | 2635.66 | 2151.78 |

Potential Estimated for Milk, Meat, Egg, Poultry & Fisheries

| Sector | AP Rank in India | Production | Credit Projections |
|---------|------------------|---------------|---------------------------|
| Milk | 7 | 90.82 lakh MT | 4276.55 |
| Meat | 4 | 4.89 lakh MT | 1316.22 |
| Egg | 2 | 12727 Million | |
| Poultry | | 817 lakh | 1098.23 |
| | Total | | 6691. 00 Crores |

| Sl.No | Activity | Phy. Units | Financial (Crore) |
|-------|--|------------|-------------------|
| 1 | Inland Fisheries | 20523 | 109.87 |
| 2 | Fresh water prawn farming | 1319 | 38.59 |
| 3 | Brackish water prawn farming | 2725 | 73.44 |
| 4 | Marine Fisheries | 5661 | 48.20 |
| 5 | Others (nets, tricycles, ice boxes, retail outlets, etc. | 76735 | 1532.63 |
| | Total | 1,06,963 | 1802.73 |

Key Points

Establishing PSU:

NABARD may be entrusted for monitoring and oversee the implementation of credit plan at ground level in the state

Milk, Meat, Egg & Poultry

- 1. Buffaloes and cows account for 69% and 31 % of total milk production in the state
- 2. The per capita availability of milk is estimated at 289 gm/day, is comparable to nation average of 296 gm/day for 2012-13
- 3. Poultry, buffaloes, sheep and goats accounted for 61%, 12%, 18.5% and 8.2% of total meat production during 2013-14 $\,$
- 4. Activity based Producer Organizations for could be promoted
- 5. Setting up of livestock markets with all infrastructure facilities
- 6. Promoting quality mulch animals and calf rearing needs with incentives

FISHERIES

- 1. Licensing of brackish water shrimp farming units and fresh water
- 2. Demarcation of brackish water area
- 3. Banks are not coming forward to support due to absence of insurance companies
- 4. Create demand and hygienic retail outlets for domestic & international market
- 5. Development of all male tilapia culture and reservoir fisheries

Forests

GVA at current prices

(in Crore)

| S.No. | ltem | 2013-14 | 2014-15 | 2015-16 | % * |
|-------|----------------------|---------|---------|---------|--------|
| 1. | Major Forest Produce | 91.33 | 415.19 | 1000 | 1006 % |
| 2. | Fire wood | 0.65 | 0.75 | 0.80 | 39 % |
| 3. | Minor Forest Produce | 91.16 | 44.11 | 283 | 835 % |

District Plan and Financial requirements

| S.No. | District Plan | Financial Plan | Financial Plan (Required |
|-------|---------------|-----------------------|---------------------------|
| | | (Available) in Crore | in addition) in Crore |
| 1. | Anantapur | 0 | |
| 2. | Kadapa | 0 | 1 |
| 3. | Chittoor | 2 | 1 |
| 4. | Kurnool | 0 | 1 |
| 5. | West Godavari | 0 | 1 |
| 6. | East Godavari | 1 | 0 |
| 7. | Krishna | 0 | 0 |
| 8. | Guntur | 0 | 0 |
| 9. | Visakhapatnam | 1 | 0 |
| 10. | Vijayanagaram | 0 | 0 |
| 11. | Srikakulam | 0 | 0 |
| 12. | Nellore | 0 | 1 |
| 13. | Prakasham | 0 | 1.5 |
| | Total | 4 | 6.5 |

Irrigation

| | Action Plan 2015-16 | | | | | | | |
|---------------------------|-------------------------------------|---|---------------|-----------------------------------|----------------------------|---|--|--|
| Major and Medium Projects | | | | | | | | |
| Sl. No. | Name of the Projects | Balance IP to be Created (Programme) (in Acres) | | | | Remarks | | |
| | | New | Stab | New | Stab | | | |
| 1 | HNSS- Phase-I | 184178 | 0 | 84178 | | | | |
| 2 | Thotapally | 135000 | 0 | 135000 | | | | |
| 3 | Gundlakamma Reservoir | 20010 | 0 | 20010 | | | | |
| 4 | Pushkaram LI Scheme | 40055 | 0 | 40055 | | | | |
| 5 | Tadipudi LI Scheme | 53056 | 0 | 53056 | | | | |
| 6 | HNSS- Phase-II | | | | | Canal will be completed and be created in 2016-17 | | |
| | Lift on Godavari at Pattiseema | Water will | be lifted and | | rakasam barrag n Canal. | e through Polavaram Right | | |
| | Polavaram Right Main Canal | The cana | l works will | | and water will rrage. | be supplied to Prakasam | | |
| 8 | GNSS Phase I | 34000 | 0 | 0 | | The Gandikota Reservoir and the main canal from Pothireddypadu head regulator to Gandikota Reservoir will be completed and water will be stored in Gandikota. | | |
| 9 | Pula Subbaiah Veligonda | Tunnel I v | | leted and Nalla Ayacut will be | | sevoir would be filled up. 7-18 | | |
| | B.R.R.Vamsadhara Stage II- Ph-II | | | | yacut will be ci | servoir are programmed to be eated during 2016-17. | | |
| | Venkatanagaram Pumping Scheme | 19109 | 10641 | 0 | C | Ayacut will be created during 2016-17. | | |
| | Total | 485408 | 10641 | 332299 | 0 | | | |

Abstract Action Plan (2015-16 & 2016-17)

| S. No. Year | | Balance IP to (Progra- (in Ac | mme) | I.P Likely to be Created in Khariff/Rabi (in Acres) | | |
|-------------|---------|-------------------------------------|-------|---|-------|--|
| | | New Stab | | New | Stab | |
| 1 | 2015-16 | 485408 | 10641 | 332299 | 0 | |
| 2 | 2016-17 | 793887 | 59921 | 793887 | 59921 | |
| | Total | 1279295 | 70562 | 1126186 | 59921 | |



NTR Jala Siri 2015-2017

Rural Development Department Andhra Pradesh

Objectives - NTR Jala Siri

- Developing 10.8 lakh acres of command and non-command area through 1.90 lakh borewells.
- ➤ Major anti-poverty initiative expected annual income per HH not less than Rs.20,000 per acre & added value income of Rs.30,000/- to the GSDP. ((0.2*10.8+0.3*10.8)=5400Cr)
- Not only GW extraction but GW recharge as well.

| Area | Ayacut (lakh acres) | No. of wells (Lakh) | Ayacut(Acres) under each borewell |
|-------------|------------------------|------------------------|---|
| Command | 7.80 | 1.30 | 6 Acres |
| Non-Command | 3.00 | 0.60 | 5 Acres |
| Total | 10.80 | 1.90 | |

✓ Income generation through proposed NTR Jala Siri Programme will be Rs.5400 Cr. by spending Rs.2207.00Cr.

Components of NTR Jala Siri

/ Micro-Irrigation

- To irrigate more area with same amount of water, Micro-Irrigate techniques like Sprinkler and drip are required. Estimated for 50% of the total area irrigated under new wells with Micro Irrigation.
- Ground Water recharging
- No Ground water structure (Bore Well/ Tube Well) would taken up in the over exploited areas.
- Bore Wells shall be taken up only as supplementary or distress irrigation.
- Multi cropping shall be encouraged whereas the high water intensive crops like paddy, sugarcane etc. Under flood irrigation from bore wells shall not be encouraged and encourage these crops under MIP only.
- Priority should be given to only irrigated dry crops/horticulture including vegetable cultivation with sprinkler or drip shall be taken up.
- Selection Criteria:

☐ Selection of beneficiaries :

- As drilling of bore well is proposed under MGNREGS funds beneficiaries should be prioritized as : SC, ST, and Small and marginal farmers.
- □ Contribution from beneficiaries
 - \succ 5% cost from SC/ST farmers and 20% from other Small and Marginal farmers.

| District v | wise | GW/f | easih | le wel | ΙIς |
|------------|------|-------|-------|---------|-----|
| י או ווכני | W13C | O V V | Casib | IC VV C | |

| SI. No | Name of District | Considering the spacing stipulations as per WALTA Act, Qu problems, water adequacy areas, tentative feasible wel | | | | |
|--------|------------------|--|------------------|------------------------|--|--|
| | | Command Area | Non-Command Area | Total Additional wells | | |
| 1 | Srikakulam | 9255 | 6910 | 16165 | | |
| | Vizianagaram | 8475 | 9531 | 18006 | | |
| | Visakhapatnam | 1070 | 7583 | 8653 | | |
| | East oda ari | 11035 | 5014 | 16049 | | |
| | est oda ari | 11948 | 1834 | 13782 | | |
| | Krishna | 18084 | 322 | 18406 | | |
| | untur | 18249 | 617 | 18866 | | |
| | Prakasam | 15223 | 4001 | 19224 | | |
| | Nellore | 17067 | 7463 | 24530 | | |
| 1 | hittoor | 1020 | 2650 | 3670 | | |
| 11 | Kadapa | 1707 | 3843 | 5550 | | |
| 1 | nanthapur | 2335 | 1544 | 3879 | | |
| 1 | Kurnool | 15042 | 8570 | 23612 | | |
| | otal: | 1 1 | | 1 | | |

Abstract -NTR Jala Siri -2015-2017

| Area | Acres (Lakhs) | No of Bore Wells lakhs | MGNREGS Rs. Crores | NABARD/RIDF. Rs. Crores | 5% SC&ST farmers + 20% S&M farmers contribution (Cr) | Total outlay Rs. Crores |
|------------------------|------------------|---------------------------------|-----------------------|----------------------------|--|-------------------------------|
| Command area | 7.80 | 1.30 | 391.53 | 916.00 | 18+241=259 | 1566.12 |
| Non Command area | 3.00 | 0.60 | 269.47 | 630.41 | 12+166 =178 | 1077.88 |
| Total | 10.80 | 1.90 | 661.00 | 1546.41 | 436.59 | 2644.00 |

* Income Generation per acre Rs.20,000/*Value Added per acre Rs.30,000/*Total Rs.50,000/*Income generation through proposed NTR Jala Siri Programme will be Rs.5400 Cr. by spending Rs.2207.00Cr.

Funding pattern for NTR Jala Siri

| | Command Area | | | | | | | | |
|----------------------|----------------------------|------------------------------------|---------------------------|--------------------------------------|--------------------------------------|--------------------------------|--|--|--|
| | | EGS Funding | | | NABARD/ RIDF Govt. Funding | | | | |
| No. of Bore Wells | Material Component | Labor Component | | | 5% SC&ST farmers + | FGS & | | | |
| proposed | BWs Drilling Rs. in Cr. | Check Dams Pits Rs. in Cr. | / Total EGS Rs. in Cr. | Total NABARD/ Govt. Rs. in Cr. | 20% S&M farmers contribution (Cr) | NABARD/ Govt. Rs. in Cr. | | | |
| 130510 | 326.2 | 8 65. | 26 391.53 | 916.00 | 258.59 | 1566.12 | | | |
| | | | Non- Comman | d Area | | | | | |
| | | EGS Funding | | NABARD/ RII | Total Outlay (Rs. in Cr.) | | | | |
| No. of Bore Wells | Material Component | Labor Component | | Total NABARD/ | 5% SC&ST farmers + | EGS & | | | |
| proposed | BWs Drilling Rs. in Cr. | Check Dams / Pits Rs. in Cr. | Total EGS Rs. in Cr. | Govt. Rs. in Cr. | 20% S&M farmers contribution (Cr) | NABARD/ Govt. Rs. in Cr. | | | |
| 59884 | 239.53 | 29.94 | 269.47 | 630.41 | 178.00 | 1077.88 | | | |



Navyandhra Jala Prabha

Rural Development Department,
Andhra Pradesh.



NJP - Objectives





Sanctions status



- Developing 2.19 lakh acres of fallow land benefiting 2.89 lakh SC/ST farmers
- Rs. 385.55 crores sanctioned under Phase-I.
- Bringing land under cultivation by providing Irrigation Facilities.
- Sharing of Ground water
- Micro Irrigation practices
- Reduction of migration
- Major anti-poverty initiative (expected annual income per HH not less than Rs. 20,000/- per acre)
- > Equity in access of groundwater
- Convergence with MGNREGS to improve asset quality
- Not only GW extraction, but recharge as well

Financial and Physical targets distributed based on sanctions accorded to individual districts.

| Sno | Description | | Releases (Cr) | Expenditure (Cr) |
|-----|------------------|--------|------------------|---------------------|
| 1 | Financial | | | |
| | NABARD RIDF-XVII | 198.80 | 149.15 | 99.15 |
| | MGNREGS | 186.75 | 64.56 | 64.56 |
| | Total | 385.55 | 213.71 | 163.71 |



NJP – Physical Progress upto 20-04-2015



| Description | Physical Progress |
|---|-------------------|
| | |
| Target Area (lakh acres) | 2.19 lakh acres |
| Ground water survey done | 2.55 lakh acres |
| Drilled Bore Wells | 11712 nos. |
| Irrigation sources requiring energisation | 9672 nos. |
| Energisation completed | 5454 nos. |
| Area brought under irrigation | 0.96 lakh acres |
| BW recharge structures completed | 3911 nos. |

Summary

| Navyandhra jala Prabha | | | | | | | | |
|------------------------|---|--|---------------------------------|---------------------------------|---------------------------------|--------------------------|---|--|
| Year | Expenditure under RIDF/Govt. Share Rs. Cr. | Expenditure under MGNREGS Rs. Cr. | Total expenditure Rs. Cr. | Area developed Lakh acres | Income generatio n Rs.Cr. | Value added Rs.Cr. | Total of income and value added Rs. Cr. | |
| 2014 on wards | 99 | 65.00 | 164 | 60 | 120 | 180 | 300 | |
| 2016 onwards | 100 | 70.00 | 170 | 75 | 150 | 225 | 375 | |
| Total | 199 | 135.00 | 334 | 135 | 270 | 405 | 675 | |

| | NTR Jala Siri Proposed Project | | | | | | | | |
|------------------|--|--------------------------------------|---------|-------|---------|-------------|---|--|--|
| | Expenditure under RIDF/Govt. Share Rs. Cr. | Expenditure under MGNREGS Rs. Cr. | | Area | | Value added | Total of income and valu added Rs. Cr. | | |
| 1st year onwards | 773.21 | 330.00 | 1103.21 | 5.40 | 1080 | 1620 | 2700 | | |
| 2nd year onwards | 773.20 | 331.00 | 1104.20 | 5.40 | 1080 | 1620 | 2700 | | |
| Total | 1546.41 | 661.00 | 2207.41 | 10.80 | 2160.00 | 3240.00 | 5400 | | |

* Income Generation per acre Rs.20,000/*Value Added per acre Rs.30,000/*Total Rs.50,000/-



| | Compar | ison state | ment of Ar | ea, Yield, P | roduction a | and GVA - | 2014-15 & | 2015-16 | | |
|------|--------------------|------------|------------|----------------------|-------------|-----------|------------|----------------------|------------------|-------|
| | | | 2014-15 | | | | 2015-16 | | | |
| S.No | Name of the Crop | Area (Ha) | Yield (Kg) | Productio n (MTs) | GVA (Cr) | Area (Ha) | Yield (Kg) | Productio n (MTs) | GVA (Cr) | % GVA |
| 1 | Paddy | 395364 | 5891 | 2329063 | 3168 | 413458 | 6481 | 2679811 | 3645 | 15 |
| 2 | Jowar | 2060 | 1037 | 2137 | 3 | 1842 | 1160 | 2137 | 3 | 0 |
| 3 | Bajra | 58 | 1183 | 69 | 0 | 60 | 1183 | 71 | 0 | 0 |
| 4 | Maize | 13256 | 8288 | 109861 | 144 | 16571 | 8224 | 136281 | 179 | 24 |
| 5 | Ragi | 432 | 750 | 324 | 1 | 430 | 750 | 323 | 0 | 0 |
| | Coarse Grain | 411170 | 17149 | 2441454 | 3315 | 432361 | 17799 | 2818622 | 3827 | 15 |
| 6 | Redgram | 2164 | 600 | 1298 | 6 | 2200 | 600 | 1320 | 6 | 0 |
| 7 | Greengram | 1432 | 677 | 969 | 4 | 1500 | 524 | 786 | 4 | 0 |
| 8 | Blackgram | 15242 | 741 | 11301 | 49 | 19228 | 742 | 14272 | 62 | 27 |
| | Total Pulses | 18838 | 2018 | 13569 | 59 | 22928 | 1866 | 16377 | 71 | 20 |
| To | otal Foodgrains | 430008 | 19167 | 2455022 | 3375 | 455289 | 19665 | 2834999 | 3898 | 15 |
| 9 | Groundnut | 153 | 1744 | 267 | 1 | 149 | 2452 | 365 | 1 | 0 |
| 10 | Sesamum | 3295 | 222 | 731 | 3 | 3450 | 222 | 765 | 4 | 33 |
| | Total Oilseeds | 3448 | 1966 | 998 | 9 | 3599 | 2673 | 1130 | 5 | -44 |
| 11 | * Cotton | 22433 | 812 | 74557 | 280 | 22500 | 812 | 85632 | 321 | 15 |
| 12 | Sugarcane | 14728 | 96000 | 1413888 | 240 | 13425 | 96000 | 1288800 | 219 | -9 |
| 13 | Tobacco | 3394 | 2832 | 9612 | 31 | 3400 | 3068 | 10431 | 33 | 6 |
| | Other crops | 40555 | 99644 | 1498057 | 551 | 39325 | 99880 | 1384863 | 574 | 4 |
| Tot | Total Cropped Area | | 120777 | 3954078 | 3934 | 498213 | 122218 | 4220992 | 4477 (543Crs) | 14 |

2. CONSTRAINTS AND INTERVENTIONS PROPOSED FOR TO ACHIEVE THE DOUBLE DIGIT GROWTH &

3. BUDGET AVAILABLE AND REQUIREMENT FOR 2015-16

| | | | Paddy | 1 | | |
|----------|--------------------------------|---|--------------------|---|------------|-----------------|
| S. No | Major Constraint noticed | Interventions Proposed | Area (Ha) or | Departmental schemes to be converged | | idget akhs) |
| | | | Units | | Avail able | Requir ement |
| 1 | shortage in | Community nurseries | Targete | 1&2.Will be sorted out with the intervention of the District Collector and Irrigation Dept. | | |
| 2 | maiscrimmat | GPS based soil sample collection Recommendation of timely and balanced application of NPK fertilizers based on Soil test Data results | (16,000 | Field Demos, Educating farmers through Polam pilustundi, Chandranna Rythu kshetrams through intensive soil testing Programme. | | 10 |

| S. | Major | Interventions | Area | Departmental | Budget | (Lakhs) |
|----|--|---|------------------------|--|---------------|----------------------|
| No | Constraint noticed | Proposed | Propose d in Ha | schemes to be converged | Availa ble | Requir ement |
| 3 | Cultivation of age old varieties prone to lodging, pests and Diseases (MTU-7029, BPT-5204) | Promoting the cultivation of Non Lodging New Varieties like MTU-1064, MTU-1061, MTU-1075 & OTHER RP BIO 226 | | Awareness through Polam Pilusthondi Programme, Minikits, Supply of subsidy seed through APSEED &Seed Village Scheme. | Nil | 30.19 |
| 4. | Deep Planting | Adoption of Shallow planting and encouraging power tillers and rotovators for puddling which prevents deep planting of seedlings. | 49080 (1200 PTs) | Supply of farm machinery through NSP, SMAM, RKVY | 288.96 | 900 (1500 PTs) |

| S. No | Major Constraint | Interventions Proposed | Area Propos | Departmental schemes to be | Budget (Lakhs) | |
|----------|--|---|-----------------------|--|-------------------|-----------------|
| | noticed | | ed in Ha | converged | Availa ble | Requir ement |
| 5 | Planting methods for optimum population | Encouraging drum seeder technology and SMSRI –Direct sowing. Drum seeder SMSRI Direct sowing | 1326 2952 33630 | Awareness through Polam Pilusthondi programme, Chandranna Rythu Ksetralu | Nil | 89.50 (CRKs) |
| 6 | Correction of Micro nutrient Deficiency | By application of Micro nutrients like Zinc Sulphate, Boron, Gypsum in Micronutrient deficient soils (10000 Ha, 500 Mt) | Mt) | Awareness through Polam Pilusthondi programme, Chandranna Rythu Ksetralu and Bhuchetana. | 52.22 | 200 (102.41) |

| S. N o | Major Constraint noticed | Interventions Proposed | Area Propos ed in Ha | Departmental schemes to be converged | | dget khs) Requir ement |
|--------------|--|--|-------------------------------|---|-----|---------------------------------|
| 7 | Poor weed management | Recommending Integrated weed Management practices | На | Awareness through Polam Pilusthondi programme, Chandranna Rythu Ksetralu . | Nil | 35.00 |
| 8 | Low organic matter | Recommendation of Green manure seed like Pillipesara, Sunhemp, Dahincha in Rice fallow fields during summer. Recommending organic source of fertilizers like Vermi compost, Azospirellum, Azatobactor, PSB. | - 23,714 Ha (5 200) | Awareness through Polam Pilusthondi programme, Chandranna Rythu Ksetralu and ATMA trainings. | Nil | 125.00 |
| 9 | Non availibility of Credit to tenant farmers | Discouraging the private finance and encouraging the banking sector Formation of Tenant famers into RMGs & JLGs to avail crop loans through PACS and Banks 55 Crores (33058) | (67000) farmers) | Conducting awareness programmes through special campaigns and Polam pilustondi | Nil | Nil |

| S.N | | Interventions Proposed | Area | Departmental | Budget | (Lakhs) |
|-----|---|---|--|---|------------------|-----------------|
| 0 | Constrain t noticed | | Propos ed in Ha | schemes to be converged | Availa ble | Requir ement |
| 10 | Promotion of Red Gram | Encouraging pulse crops such as Redgram on Paddy field bunds, on the bunds of commercial crops such as Cotton, Tobacco, Tapioca | (3000) | NFSM Demonstrations. (3-4 Qtls per acre yield) | Nil | 237.20 |
| 11 | Post Harvest Losses | Minimise the post harvest losses through supply of harvestors and Dryers. Combined Harvesters 35, Dryres 15, | 30240 (25440) Chs-50 Driers – 20 | Promotion of FM on Large scale to reduce Cost of Cultivation, Labour problem, and Time saving | 288.96 | 73.74 |
| 12 | Indescremi nate use of pesticides | Recommendation of Need based pesticides and IPM practices to farmers and creating awareness about usage of Neem oil, Neem cake | 27000 (17993) | Awareness through Polam Pilusthondi Programme Chandranna Rythu Ksetralu and ATMA trainings | 174.36 (NFSM) | 151 |

COTTON

| S. No | Major Constraint noticed | Interventions Proposed | Area Propos ed in Ha | Departmental schemes to be converged | Budget Availab le | (Lakhs) Require ment |
|----------|--|---|-------------------------------|--|-------------------------|------------------------------------|
| 1 | maintainena ce of optimum plant | Increasing Plant density by adopting 700 g/acre seed rate instead of Local practice of 450 g/acre. | (7200) | Chandranna Rythu Kshetral and Polam Pilustondi. | | 49.44 (Polam Pilustundi) |
| 2 | aumage | Promoting Stem application of pesticides against sucking pests | (4900) | Chandranna Rythu Kshetral and Polam Pilustondi. | | |

SUGAR CANE

| S. No | Major Constraint | Interventions Proposed | Area Propose | Departmental schemes to be | Budge | t (Lakhs) |
|----------|---------------------|---|-------------------------|--|---------------|-----------------|
| | noticed | | d in Ha Area sown | converged | Avail able | Require ment |
| 1 | | Adoption of single bud sets for planting | | Chandranna Rythu Kshetral and Polam Pilustondi. | | |
| 2 | treatment | Seed treatment with Malathion and Carbendazim | 0100 | Chandranna Rythu Kshetral and Polam Pilustondi. | | |

MINOR MILLETS

| S.No | Major Constrai nt noticed | Interventions Proposed | Area Proposed in Ha | Departmental schemes to be converged | Buc (Lal Avail able | lget khs) Requi reme nt |
|------|------------------------------------|---|----------------------------------|--|------------------------------|-------------------------------------|
| 1 | Less Area (Maize) | Promoting Hybrids in Maize in upland & agency areas & Zero tillage in Delta areas Maize | 3000 (755) | Seed subsidy to be enhanced Seed on Subsidy under INSIMP & NFSM schemes. | | 30.00 |
| | Less area | Ragi Korra & Sama | 1200(310) 600(406) 150(58) | | | |

PULSES

| S. No | Major Constraint | Interventions Proposed | Area Propose | Departmental schemes to be | | dget ikhs) |
|----------|-----------------------------|---|-----------------|---|---------------|-----------------|
| | noticed | (PULSES) | d in Ha | converged | Avail able | Requir ement |
| 1 | Delayed Paddy sowings | Increasing the area under Summer Pulses through early sowing of Paddy | (5000) | Will be sorted out with the intervention of the District Collector and Irrigation Dept. | | 234 |
| 2 | | Varietal replacement with new varieties like PU 31, MASH 338 in Black gram, LGG 460, WG 37 in Green gram High yielding and resistant to YMV. | 15000 | NFSM and Contingency plan | | |

OIL SEEDS

| S N o | Major Constraint noticed | Interventions Proposed | Area Proposed in Ha | Departmental schemes to be converged | Budge Avail able | Require ment |
|-------------|---------------------------------|--|---------------------------|--------------------------------------|------------------------|-----------------|
| 1 | Less Area under Oil Seeds | Increasing area under Oil seeds under NMOOP Supplying varieties lik YLM 17 & YLM 66, Gouri in Sesamum and K 6, Dharani in Ground nut Sesamum Groundnut | 2800 (436) 126(27) | NMOOP NMOOP seed from APSSDC. | Nil | 18.40 |

4. Policy support Required Components

- 1. Need based release of Canal Irrigation water in consultation with the Agriculture Department.
- 2. Targets and guidelines under various schemes to be finalized and communicated well in advance.
- 3. Budget allocation to be made before the commencement of season
- Seed subsidy to be extended to new varieties such as MTU 1061, MTU 1064, MTU 1075 and RP BIO 226 both under General distribution and Seed Village Scheme.
- 5. Permission to procure area specific inputs from local institutions.
- 6. Providing mobility to the Extension functionaries for effective implementation of schemes.
- 7. Release of budget to the current accounts instead of PD Accounts to avoid operational problems in the treasury.
- 8. Construction of common threshing floors and trunk roads in tail end areas to avoid cyclone damage.

| 5. Statement of Perce | entage of Grov | vth in Agricult | ural crops fi | rom 2013-14 | to 2015-2016 |
|---------------------------|----------------|-----------------|---------------|--------------|--------------|
| East Godavari | 2013-14 | 2014-15 | % of | | (Expected) |
| S.No Name of the Crop | GVA (Crores) | GVA (Crores) | Growth | GVA (Crores) | % of Growth |
| 1 Paddy | 2319 | 3168 | 37 | 3645 | 15 |
| 2 Jowar | 3 | 3 | 0 | 3 | 0 |
| 3 Bajra | 0 | 0 | -8 | 0 | 3 |
| 4 Maize | 93 | 144 | 55 | 179 | 24 |
| 5 Ragi | 2 | 1 | -74 | 0 | 0 |
| Coarse Grain | 2417 | 3315 | 37 | 3827 | 15 |
| 6 Redgram | 0 | 6 | 1112 | 6 | 2 |
| 7 Greengram | 6 | 4 | -24 | 4 | -19 |
| 8 Blackgram | 7 | 49 | 600 | 62 | 26 |
| Total Pulses | 13 | 59 | 345 | 71 | 21 |
| Total Food grains | 2431 | 3375 | 39 | 3898 | 16 |
| 9 Groundnut | 3 | 1 | -60 | 1 | 37 |
| 10 Sesamum | 1 | 3 | 360 | 4 | 5 |
| Total Oilseeds | 3 | 9 | 153 | 5 | -42 |
| 11 * Cotton | 77 | 280 | 265 | 321 | 15 |
| 12 Sugarcane | 163 | 240 | 48 | 219 | -9 |
| 13 Tobacco | 6 | 31 | 405 | 33 | 9 |
| Other crops | 246 | 551 | 124 | 574 | 4 |
| Total Cropped Area | 2680 | 3934 | 47 | 4477 | 14 |

WELCOME DEPARTMENT OF HORTICULTURE



EAST GODAVARI DISTRICT

Area, Production & Productivity for 2014-15 & 2015-16 HORTICULTURE CROPS - GROWTH

| CROP | Arc | ea in ha | | Production in M.Tonns | | | | Productivity (MT / HA) | | |
|------------------|-------------|-------------|------------------|--------------------------|-------------|------------------|-------------|---------------------------|------------------|--|
| | 2014- 15 | 2015- 16 | % grow- th | 2014- 15 | 2015- 16 | % grow- th | 2014- 15 | 2015- 16 | % grow- th | |
| FRUITS | 39105 | 42702 | 9.20 | 438465 | 531382 | 21.20 | 11.21 | 12.44 | 10.97 | |
| PLANTATIONS | 110311 | 116627 | 5.72 | 790099 | 895775 | 13.37 | 7.16 | 7.68 | 7.26 | |
| TUBER CROPS | 15551 | 17500 | 12.53 | 236465 | 288750 | 22.00 | 15.20 | 16.50 | 8.55 | |
| VEGETABLES | 8847 | 9730 | 10.00 | 159750 | 194600 | 23.00 | 18.05 | 20.00 | 10.80 | |
| FLOWERS & SPICES | 2586 | 3079 | 19.06 | 17901 | 21683 | 21.12 | 6.92 | 7.04 | 1.73 | |
| TOTAL | 1,76,400 | 1,89,638 | 7.50 | 16,42,680 | 19,32,190 | 17.62 | 9.31 | 10.19 | 9.45 | |

Critical Issues

- Low productivity
- Poor quality of the produce including food safety issues
- Inadequate availability of quality seed & planting material of improved varieties
- Emergence of diseases & pests climate change
- Slow pace in adoption
- Inadequate infrastructure facilities for post harvest management
- Environmental concerns due to indiscriminate use of inputs
- Climate change- hailstorm, drought, high moisture, frost
- Lack of adequate trained manpower

Annexure-II

PRIMARY SECTOR MISSION (HORTICULTURE) - 2015-16
Additional Area Proposed during 2015-16 to Achieve Double Digit Growth
(i.e.30%)on the existing Dist.GDP

Name of the District: EASTGODAVARI

| SI. No | Name of the Crop | Units No/ Sq.mt/ Ha | Additional Area Proposed (Ha) (2015- 16) | Expected increase in Production by the following Interventions (MTs/Ha) | Expected increase in Productivity by the following Interventions (MTs/Ha) | Average Market Price (Rs.Mts) (based on 2014-15 prices | | Financial Budget requireme nt (Rs. In Lakhs) | | | | | |
|--------|---------------------|------------------------------|--|--|--|---|------|--|--|--|--|--|--|
| l. | Short term C | Crops | | | | | | | | | | | |
| 1 | T.C. Banana | На | 100 | 6000 | 60 | 7500 | 450 | 37.50 | | | | | |
| 2 | Papaya | На | 260 | 19500 | 75 | 8710 | 1698 | 46.80 | | | | | |
| 3 | Tomato | На | 125 | 3750 | 30 | 18000 | 675 | 23.43 | | | | | |
| 4 | Onion | На | 20 | 300 | 15 | 15800 | 47 | 0.60 | | | | | |
| 5 | Red Chilies | На | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| 6 | Potato | На | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| 7 | Turmeric | На | 20 | 300 | 15 | 70000 | 210 | 4.00 | | | | | |
| 8 | Pine Apple | На | 10 | 0 | 0 | 0 | 0 | 0 | | | | | |
| 9 | Water Melon | На | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| 10 | Musk Melon | На | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |

| | | | | Page | 1-2 | | | | |
|--------|-----------------------------------|------------------------------|--|--|---|---|--|--|--|
| SI. No | Name of the Crop | Units No/ Sq.mt/ Ha | Additional Area Proposed (Ha) (2015- 16) | Expected increase in Production by the following Interventions (MTs/Ha) | Expected increase in Productivity by the following Interventions (MTs/Ha) | Average Market Price (Rs.Mts) (based on 2014-15 prices | Total value (Rs. in Lakhs) (6*8) | Financial Budget requireme nt (Rs. In Lakhs) | Intervention s proposed to increase Production //Producti- vity |
| 11. | Major 5 Veg. Crops(Specify) | | | | | | | | |
| a. | Brinjal | На | 50 | 700 | 14 | 20800 | 146 | 1.50 | |
| b. | Bhendi | На | 40 | 160 | 4 | 20100 | 32 | 1.20 | |
| C. | Gourds | На | 40 | 400 | 10 | 24000 | 96 | 1.20 | |
| d. | Cabbage | На | 0 | 0 | 0 | 0 | 0 | 0 | |
| e. | Cauliflower | На | 0 | 0 | 0 | 0 | 0 | 0 | |
| 12. | Major 5 Flower Crops (Specify) | На | | | | | | | |
| a. | Chrysanthemum | На | 30 | 240 | 8 | 74000 | 178 | 4.80 | |
| b. | Marigold | На | 40 | 200 | 5 | 86000 | 172 | 6.40 | |
| C. | Jasmine | На | 10 | 40 | 4 | 103300 | 41 | 1.60 | |
| d. | Tuber rose | На | 40 | 160 | 4 | 42000 | 67 | 16.00 | |
| e. | Crossandra | На | 10 | 30 | 3 | 1480000 | 444 | 1.60 | |
| f. | 13.Other if any (specify) | На | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Sub total | | 795 | 31780 | 39.98 | | 4257 | 146.63 | |
| | | | | | | | | | |

Page-3

| | Name of the Crop | Units No/ Sq.mt/ Ha | Additional Area Proposed (Ha) (2015- 16) | Expected increase in Production by the following Interventions (MTs/Ha) | Expected increase in Productivity by the following Interventions (MTs/Ha) | Average Market Price (Rs.Mts) (based on 2014-15 prices | Total value (Rs. in Lakhs) (6*8) | Financial Budget requirement (Rs. In Lakhs) | Intervention s proposed to increase Production /Producti- vity |
|-----|-------------------------------|------------------------------|--|--|---|---|---|---|---|
| 13. | Poly House cultivation (sqmt) | sqmts | | | | | | | |
| a. | High value vegetables | sqmts | 2400 | 19200 | 8 | 40000 | 7680 | 5.04 | |
| b. | High value Flowers. | sqmts | 0 | 0 | 0 | 0 | 0 | 0 | |
| | 15.Shade Net Houses (sqmt) | sqmts | | | | | 0 | 0 | |
| a. | Nurseries | sqmts | 1000 | 0 | 0 | | 0 | 7.10 | |
| b. | High value Vegetables. | sqmts | 3000 | 24000 | 8 | 40000 | 9600 | 21.30 | |
| C. | High Value Flowers | sqmts | 1000 | 6000 | 6 | 120000 | 7200 | 7.10 | |
| | Sub total | | 7400 | 49200 | 6.65 | | 24480 | 40.54 | |

Page-4

| | Name of the Crop | | Additional Area Proposed (Ha) (2015- 16) | | Expected increase in Productivity by the following Interventions (MTs/Ha) | Average Market Price (Rs.Mts) (based on 2014-15 prices | Total value (Rs. in Lakhs) (6*8) | Financial Budget requirement (Rs. In Lakhs) | Intervention s proposed to increase Production /Producti- vity |
|-----|---------------------------|----------|--|-------|---|---|---|---|---|
| II. | Long term Crops | <u> </u> | | | | | | | |
| 1. | Mango | На | 350 | 0 | 0 | | 0 | 63.00 | |
| 2. | Cashew | На | 100 | 0 | 0 | | 0 | 12.00 | |
| 3. | Sweet Orange | На | 35 | 0 | 0 | | 0 | 6.30 | |
| 4. | Acid Lime | На | 0 | 0 | 0 | | 0 | 0 | |
| 5. | Pomegranate | На | 0 | 0 | 0 | | 0 | 0 | |
| 6. | Sapota | На | 0 | 0 | 0 | | 0 | 0 | |
| 7. | Guava | На | 60 | 0 | 0 | | 0 | 10.800 | |
| 8. | Cocoa | На | 350 | 0 | 0 | | 0 | 42.000 | |
| 9. | Coconut | На | 250 | 0 | 0 | | 0 | 20.000 | |
| 10. | Oil Palm | На | 2400 | 0 | 0 | | 0 | 480.000 | |
| | Other if any (specify) | На | 0 | 0 | 0 | | 0 | 0 | |
| | Sub-Total | | 3545 | 0 | 0 | 0 | 0 | 634.10 | |
| | Grand Total | | 11740 | 80980 | 6.90 | 0 | 28737 | 821.27 | |

Annexure-III
PRIMARY SECTOR MISSION (HORTICULTURE) - 2015-16
Interventions Proposed during 2015-16
Name of the District: EASTGODAVARI

| | | | | | Pendals | | ору | | | IPM | | |
|-----|---------------|----------------|-------------|----------------|-----------------------------|----------------|-----------------------------|----------------|----------|-----------------------|--------------------------|--|
| SI. | | | Cultivation | | Periudis | | Management | | vanation | Vagetables (in Ha) | | |
| | | Physical Ha | | Physical Ha | Financial Rs.in Lakhs | Physical Ha | Financial Rs.in Lakhs | Physical Ha | | Physic al Ha | Financial Rs.in Lakhs | |
| 1 | Tomato | 20 | 3.75 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 2 | Major Veg. | 0 | 0 | 50 | 62.50 | 0 | 0 | 0 | 0 | 100 | 7.50 | |
| | Total-1 | 20 | 3.75 | 50 | 62.50 | 0 | 0 | 0 | 0 | 100 | 7.50 | |

Page-2

| SI. | | | | Canopy Manage- ment | | | | | | Protected Cultivation | | | |
|----------------------------|---------------|-----------------|------------------------------|---------------------------|-----------------------------|-----------------------|-----------------------------|-------------------|-----------------------------|-----------------------|-----------------------------|----------------|----------------------------|
| SI. Name of No the Crop | | | | | | Vagetables (in Ha) | | Fowers (in Ha) | | Vagetables (in Ha) | | | vers Ha) |
| | | Physic al Ha | Financia I Rs.in Lakhs | Physi cal Ha | Financial Rs.in Lakhs | Physica I Ha | Financial Rs.in Lakhs | Physical Ha | Financial Rs.in Lakhs | Physical Ha | Financial Rs.in Lakhs | Physical Ha | Financia Rs.in Lakhs |
| | Capsi- cum | 0 | 0 | 0 | 0 | 3000 | 21.30 | 0 | 0 | 3000 | 21.30 | 0 | 0 |
| 2 | Mango | 1000 | 75.00 | 200 | 40.00 | | | | | | | | |
| | Total-2 | 1000 | 75.00 | 200 | 40.00 | 3000 | 21.30 | 0 | 0 | 3000 | 21.30 | 0 | 0 |

Achievements of MI installations '2014-15

| S.No | Name of the Crop | Area in Ha. |
|------|----------------------------|-------------|
| 1 | Oil Palm | 660.93 |
| 2 | Mango | 50.65 |
| 3 | Banana | 38.64 |
| 4 | Citrus/ Sweet Orange | 12.19 |
| 5 | Cashew | 40.08 |
| 6 | Coconut | 92.69 |
| 7 | Papaya | 9.31 |
| 8 | Guava, Custard Apple etc., | 9.55 |
| 9 | Vegetables | 10.84 |
| 10 | Mulbery | 7.57 |
| 11 | Sugarcane | 34.59 |
| 12 | Fodder, Sesamum and Pulses | 107.53 |
| | Total: | 1074.57 |

Proposed Action Plan 2015-16

| S.No | Name of the Crop | Area in Ha. | Financial Outlay (Subsidy) Rs. in Lakhs |
|------|----------------------------|----------------|---|
| 1 | Oil Palm | 1100 | 399.38 |
| 2 | Mango | 85 | 28.29 |
| 3 | Banana | 90 | 78.81 |
| 4 | Citrus/ Sweet Orange | 80 | 25.52 |
| 5 | Cashew | 35 | 11.17 |
| 6 | Coconut | 110 | 30.25 |
| 7 | Papaya | 25 | 20.11 |
| 8 | Guava, Custard Apple etc., | 15 | 4.79 |
| 9 | Vegetables | 65 | 71.50 |
| 10 | Mulbery/Cotton | 65 | 56.92 |
| 11 | Sugarcane | 195 | 193.69 |
| 12 | Flowers/ Spices | 75 | 82.50 |
| 13 | Fodder, Sesamum and Pulses | 100 | 20.26 |
| | Total: | 2040 | 1023.19 |

Productivity increase by Micro Irrigation Intervention

| S.No | Name of the Crop | Normal yield per Ha. in Tons per Ha. | Yield due to MI Intervention in Tons per Ha. | Productivity increase per Ha. % |
|------|--------------------------|--|--|---------------------------------------|
| 1 | Oil Palm | 18.00 | 30.00 | 67 |
| 2 | Mango | 15.00 | 25.00 | 67 |
| 3 | Banana | 42.50 | 55.00 | 29 |
| 4 | Acid Lime | 12.50 | 17.50 | 40 |
| 5 | Cashew | 0.80 | 1.00 | 25 |
| 6 | Coconut (Copra recovery) | 1.80 | 2.16 | 20 |
| 7 | Papaya | 75.00 | 100.00 | 33 |
| 8 | Vegetables | 18.00 | 35.00 | 94 |
| 9 | Sugarcane | 87.50 | 150.00 | 71 |

Fisheries

ACTION PLAN FOR INCREASE THE PRODUCTION UNDER FISHERIES SECTOR DURING 2015-16 IN EAST GODAVARI I. Marine Fisheries : Production (M.Tonns) (M.Tonns) Present Projected I I a) Marine Fish 82380 (2014:15) 87,50d2015:16) b) Marine Prawn 15600 17,993 1 Dispersification (Dispersification (Dispersi Intervention required 17,950 1. Diversification of Fishing for untapped Tuna Fishing by long line Expected. | Resources | 1. Length of Coast line - 161 KMtrs | 2. Mechanized Boats - 711 No's | 2. Mechanized Boats - 174 No's | 4. Country Crafts - 2576 No's | Total: | Fishing No. of Unit Total Subsidy Loan/ Units Cost outlay Ben. Con 300 4.00 1200.00 600.00 600.00 2. Motorization of Traditional Crafts | No. of | Unit | Total | Loan/ | Units | Cost | Outlay | Subsidy | Ben. | Production | Con | M. Tons | | 3. Strict implementation of Ban period from 15-04-2015 to 31-05-2015 40% i.e. 35,200 tonns can be expected 4. Supply of Ice boxes with 50% subsidy limited to Rs. 3000/- per Box Stocking of Fish fingerlings under RKVY /NFDB Scheme in all MI Tanks and Reservoirs Stocking of fresh water prawn juveniles in selective Reservoirs/ M.I. Tanks 18000 T.E.W.S.A (Ha) 1746.87 4054.75 10,000

| Solar | III. Brackish water Fishe | ries | Production | (M.Tonr | <u>ns)</u> 1. | Mechai | nisation in | Aqua cultu | re by suppl | ying Aerato | rs, |
|-------|--------------------------------------|------|---------------------------------|---------|-----------------|-------------------|------------------------|-------------------------|------------------------|-----------------------------------|-------------------|
| Joiai | Tiger prawn L. Vannamei Crab | | Present 4500 6000 5000 | 9030 | No. of Units | Unit Cost | Total outlay | farmers Subsidy | Loan/ Ben. Con | Expected Production M. Tons | Value In Lakhs |
| | 4. others | | | 5000 | 650 2. Promo | 5.00 tion of I | 3250.00 Mud crab fa | 1625.00 arming in 10 | 1625.00 0 Ha | 650 | 2600.00 |

IV. Introduction of new species/ Techniques

- Seabass farming 75 Ha
 Cage culture in Major Reservoirs i.e. Yeleru, Maddigadda, Bhupathipalem
 Setting up of Fibre marts in Kakinada and Rajahmundry Municipal Corporations
 Setting up of retail outlets with De-scaling, De-boning, packing machine and working shed.

Abstract (In terms of production 15.15%, Value=36.86)

| | | • | | • |
|---------|--------------|-------------------------|-----------------------------|---------------|
| Sl. No. | Item | Present 2014-15 (Tonns) | Projected (2015-16) (Tonns) | Value (lakhs) |
| 1. | Marine Fish | 82380 | 87500 | 43750 |
| 2. | Marine Prawn | 15600 | 17950 | 34700 |
| 3. | Inland Fish | 30545 | 35150 | 17575 |
| 4. | Inland prawn | 10778 | 18000 | 36000 |
| 5. | Tiger prawn | 4500 | 4950 | 9900 |
| 6. | L. Vannamei | 6000 | 9030 | 18600 |
| 7 | Crab | | 5000 | 25000 |
| 8 | Others | | 5000 | 5000 |
| | Total: | 149803 | 182580 | 190525 |





THANK YOU

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ACTION PLAN FOR 2015-16



ANIMAL HUSBANDRY









Revenue Divisions

DIVISIONAL OFFICES OF AHD: 3

KAKINADA - RAJAHMUNDRY - AMALAPURAM

• Total number of Mandals in the District : 64

• Total number of Villages : 1411

LIVESTOCK RESOURCES

(19th livestock census)



Cattle : 2,71,671



Buffaloes: 6,23,647



Sheep 2,29,006



Goat 2,20,191



Poultry 1,38,13,701



Pigs 21,093

Others 40,041

VETERINARY HEALTH INSTITUTIONS

Veterinary Poly Clinic : 1
Veterinary Hospitals : 15
Veterinary Dispensaries : 152
Rural Livestock Units : 80

TRAINING INSTITUTIONS

State Animal Husbandry Training Centre
 Regional A. H. Training Centre
 District A.H. Training Centre
 1 (Mandapeta)
 1 (Kakinada)
 1 (Kakinada)

VETY. RESEARCH DIAGNOSTIC & BIOLOGICAL PRODUCTION INSTITUTIONS

Veterinary Biological Research Institute
 Animal Disease Diagnostic Laboratory
 1 (Samalkota)
 1 (akinada)

INSTITUTIONS IN ANIMAL HUSBANDRY AND HEALTH SERVICES

• Veterinary Poly Clinic : 1

• Veterinary Hospitals : 15

Veterinary Dispensaries : 152Rural Livestock Units : 80

• Gopalamitra centers : 235

PRODUCTION ESTIMATES FROM LIVESTOCK

| S.NO | ITEM OF PRODUCTION | PRODUCTION DURING 2014-15 |
|------|--------------------|------------------------------|
| 1 | MILK | 8.286 LAKH MTs |
| 2 | MEAT | 43,970 MTs |
| 3 | EGGS | 44,536.89 LAKH NOS. |

SGDP AT **CURRENT PRICES** FROM AGRICULTURE SECTOR

| S.NO | SECTOR | RS. IN CRORES | %TOTHE SGDP |
|------|---------------------|---------------|-------------|
| 1 | AGRICULTURE | 75220 | 15.80 |
| 2 | ANIMAL HUSBANDRY | 33600 | 7.06 |
| 3 | FISHERIES | 17295 | 3.63 |
| 4 | OTHERS | 4904 | 1.03 |
| | TOTAL AGRI | 1,31,019 | 27.53 |
| | SGDP | 4,75,859 | |

GROWTH RATE IN SGDP AT CURRENT PRICES

FROM AGRICULTURE SECTOR

| S.NO | SECTOR | % GROTH RATE |
|------|------------------|--------------|
| 1 | AGRICULTURE | 16.74 |
| 2 | ANIMAL HUSBANDRY | 7.14 |
| 3 | FISHERIES | 22.75 |
| 4 | OTHERS | 6.39 |
| | TOTAL AGRI | 14.44 |
| | SGDP | 13.46 |

EXPECTED PRODUCTION FROM LIVESTOCK IN 2015-16 IN EAST GODAVARI DISTRICT

| S.NO | ITEM OF PRODUCTION | PRODUCTION DURING 2014-15 | EXPECTED GROWTH RATE | EXPECTED PRODUCTION 2015-16 |
|------|-----------------------|---------------------------------|----------------------------|-----------------------------------|
| 1 | MILK | 8.76 LAKH MTs | | 9.46 LAKH MTs |
| 2 | MEAT | 44,574 MTs | | 45,254 мтs |
| 3 | EGGS | 48,881 LAKH NOS. | | 42,229 lakh nos. |

ACTION PLAN FOR 2015-16 TO REACH EXPECTED GROWTH

MILK SECTOR

- KSHEERASAGAR PROGRAMME
- HEIFERS COMING INTO MILK PRODUCTION
- INTRODUCTION OF MILCH ANIAMALS
- IMPROVING FODDER PRODUCTION
- SUPPLY OF MINERAL MIXTURE PREVENTIVE VACCINATIONS
- ORGANISATION OF HEALTH CAMPS
- AWARENESS BUILDING

KSHEERASAAGAR PROGRAM

- ❖Animals at 6th to 7th month pregnancy will be enrolled.
- ❖Concentrate feed will be supplied during the last trimester of pregnancy and during 1st trimester of calving

6500 animals are being introduced into the scheme and 1300 MTs of additional milk production is expected















Sunandini (Calf Feed Subsidy Program)

No. of calves Born in 2011-12 No. likely to come into Production for the first time 13.000

Expected production 19500 MTs







AREA BASED MINERAL MIXTURE SUPPLY



- ❖To sustain production
- ❖Maintain general health and improve fertility rate
- ❖Reduce dry period
- ❖Reduce inter calving period of the animals
- ❖Mineral mixture is supplied on 75% subsidy.



Fodder Development (Area under Fodder Cultivation)

| | FODDER PRODUCTION DURING 2014-15 | FODDER PRODUCTION DURING 2014-15 |
|---|-------------------------------------|-------------------------------------|
| 1 | 17,000 ACRES | 2,000 ACRES |





Health and Fertility Camps

| Health and fertility | Health and fertility |
|----------------------|----------------------|
| Camps organised | camps Proposed to be |
| In 2014-15 | organised in 2015-16 |
| 300 | 500 |





HRD Trainings

TRAININGS

No. of farmers to be trained under various programmes : 5000







PRODUCTION ENHANCEMENT

ALLTHE INITIATIVES LIKE

FODDER PRODUCTION,

PREVENTIVE VACCINATION,

DEWORMING,

MINERAL MIXTURE SUPPLY,

ORGANISATION OF HEALTH CAMPS,

TRAINING PROGRAMMES ARE EXPECTED TO

IMPROVE MILK PRODUCTION BY 10%

ACTION PLAN FOR 2015-16 TO REACH EXPECTED GROWTH

MEAT SECTOR

- SUPPLY OF MINI SHEP/GOAT UNITS
- INTRODUCTION OF RAMS OF IMPROVED BREEDS
- DEWORMING OF ALL SHEEP AND GOATS TWICE
- PREVENTIVE VACCINATIONS IN SHEEP & GOAT
 - AWARENESS BUILDING
 - BACKYARD POULTRY DEVELOPMENT

MINI SHEEP AND GOAT UNITS

- 5 sheep or goats are supplied
- > 50% subsidy @ 15000/- to each unit
- > 62units are sanctioned to the district
- Identification of beneficiaries is completed





BACKYARD POULTRY UNITS

>45 four week old chicks are supplied in two spells











ISSUES IN THE DEPARTMENT

- Large no of vacancies (35%).
- 52 out of 149 veterinary assistant surgeon
- 71 out of 115 veterinary assistant
- 70 out of 189 posts Office subordinates -vacant
- Inadequate Awareness levels of farmers on scientific feeding and management

FURTHER INTERVENTIONS NEEDED TO REACH EXPECTED GROWTH

MILK SECTOR

- SUPPLY OF CONC. FEED ON SUBSIDY TO ALL MILCH ANIMALS
- SUPPORT PRICE FOR MILK
- CREDIT FACILITY ON DRI
- PROVISION OF HOUSING (SUBSIDY ON ANIMAL SHEDS)
- ESTABLISHMENT OF FARM SCHOOLS
- INSURANCE FOR DAIRY FARMERS
- SUPPORT FOR FPOs
- MILK SUPPLY TO SCHOOL CHILDREN
- STRENGTHENING OF MILK COOPS.

FURTHER INTERVENTIONS NEEDED TO REACH EXPECTED GROWTH

MEAT SECTOR

- ALLOCATION OF LAND FOR GRAZING
- SUPPLY OF CONC. FEED ON SUBSIDY
- ORGANISATION AND REGULATION OF CATTLE AND SHEEP SHANDIES
- ALLOWING MALE BUFFALO CALVES FOR SLAUGHTER
- BACKYARD POULTRY SUPPORT IN A BIGGER SCALE
- EXPORT PROMOTION

FURTHER INTERVENTIONS NEEDED TO REACH EXPECTED GROWTH

EGG SECTOR

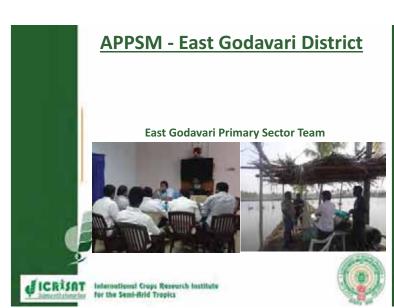
- AGRICULTURE STATUS TO POULTRY
- COLD STORAGE FACILITY
- EXPORT PROMOTION
- CREDIT FLOW.



Thank You



JOINT DIRECTOR ANIMAL HUSBANDRY KAKINADA



East Godavari Profile District Profile (10818 km2) Agency, (3000 km2): Rainfed 80% Upland (Approx. 4000 km2); 50-50 RF and Irrigated Delta (Approx. 3500km2); Irrigated 90% Rainfall 1200 mm **Major Crop Details in the District** # ICRISAT International Crops Research Institute for the Semi-firld Tropics

APPSM - Progress 1. Pilot site identification has been completed a. Gangavaram – 7 villages (G.Area - 4902 ha; Cul.Area - 3034 ha) b. Yeleswaram – 9 villages (G.Area – 8968 ha; Cul.Area – 4652 ha) c. Tallarevu, Karapa and Kajuluru - 61 Villages (Inland Fisheries of 2160 ha) 2. Collection of soil samples a. Farmers meeting on soil sampling are in progress -(4(7) in Gangavaram and 3(9) in Yeleswaram completed) b. Farmers training on collection of soil samples -(1 (7) in Gangavaram mandal has been completed and crop exists in Yeleswaram mandal) Discussions on convergence of schemes with all departments have en completed International Crops Research Institute for the Semi-firid Tropics CRISAT

Criteria Adopted for Site Selection Representativeness in terms of soils, landscape, rainfall, crops, and socio-economic conditions of district Accessibility for regular monitoring · Farmers willingness to adopt • Presence of suitable institutions · Potential for impact **Process** District collector

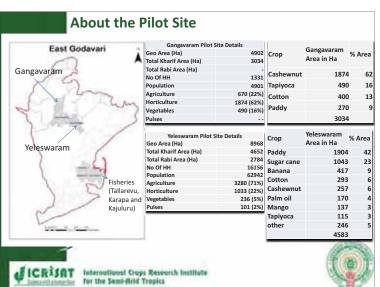
Stakeholders' consultations (Consultation with all line Departments)

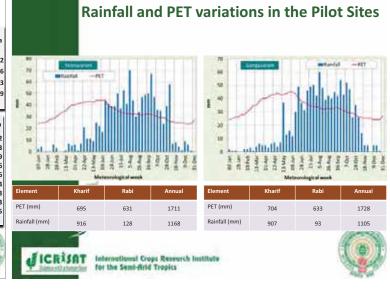
- CPO
- JD's of all line departments
- Mandal level all line departments staff

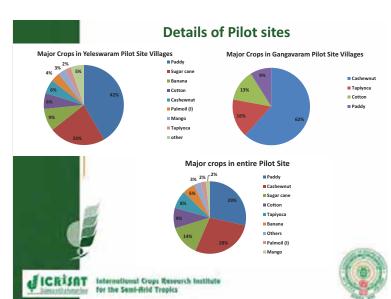


International Crops Research Institute for the Semi-firid Tropics









| S No | Crop | Interventions | Possible (Ha) | | Prop Area | osed ı (%) | Exped (%) Y incre | ield | % incr ir prodc | 1 |
|------|----------|---|------------------|------|--------------|---------------|-------------------------|------|-----------------------|------|
| | | | GGVM | YLSM | GGV M | YLSM | GGVM | YLSM | GGVM | YLSM |
| 1 | Paddy | Micro-nutrient Application | 270 | 2728 | 60% | 60% | 10 | 10 | 14.6 | 14.6 |
| 2 | | Green Manure - Dahicha orsun hemp -75kgs/hect | 270 | 2728 | 2% | 2% | 5 | 5 | | |
| 3 | | Improved cultivars MTU 1075 and 1064 1061 RT bio 226 (Paddy) | 270 | 2728 | 50% | 50% | 15 | 15 | | |
| 4 | | Plantation methods - Direct -drum SNSRI Paddy | 270 | 2728 | 5% | 5% | 10 | 10 | | |
| 5 | | Farm Mechanisation - Custum hiring Centres - Combined Harvesters Driers - Power trillers - Rotovaters | 270 | 2728 | 5% | 5% | 10 | 10 | | |
| | | | | | | | | | | |
| 6 | Cotton | Micro-nutrient Application | 400 | 293 | 60% | 60% | 10 | 10 | 12 | 12 |
| 7 | | Cotton-IPM | 400 | 293 | 30% | 30% | 10 | 10 | | |
| 8 | | Cotton-High density plantation | 400 | 293 | 20% | 20% | 10 | 10 | | |
| 9 | | Cotton-Inter cropping with Red gram | 400 | 293 | 10% | 10% | 10 | 10 | | |
| | Sugarcan | | | 2131 | | 60% | | 10 | | |
| 10 | e | Micro-nutrient Application | | | | | | | | 9 |
| 11 | | Sugarcane- Bud chip and single chip method | | 2131 | | 10% | | 10 | | |
| 12 | | Micro Irrigation | | 2131 | | 10% | | 10 | | |
| 13 | | WIC | | 2131 | | 10% | | 10 | | |

| s | | | Possible A | rea | Prop | osed | Expec (%) Yi | | % incr | |
|----|----------|---|------------|-----|----------|------|-----------------|----|--------|-------|
| No | Crop | Intervention | (Ha) | | Area (%) | | increase | | produ | ction |
| 14 | Banana | Micro-nutrient Application | | 882 | | 60% | | 10 | | 11.0 |
| 15 | | Tissue cluture in Banana | | 882 | | 10% | | 10 | | |
| 16 | | IPM in Banana | | 882 | | 20% | | 10 | | |
| 17 | | WIC | | 882 | | 10% | | 10 | | |
| 18 | | Micro Irrigation | | 882 | | 10% | | 10 | | |
| 19 | Cashewnu | at Micro-nutrient Application | 1874 | 257 | 60% | 60% | 10 | 10 | 11 | 11 |
| 20 | | Micro Irrigation | 1874 | 257 | 5% | 5% | 10 | 10 | | |
| 21 | | Rejuvenation | 1874 | 257 | 30% | 30% | 15 | 15 | | |
| | | Pruning and Training, Basin Preparation, Fertiliser Application, Gap filling, IPM and Grafting | | | | | | | | |
| 22 | Tapioca | Micro-nutrient Application | 490 | 115 | 60% | 60% | 10 | 10 | 10 | 10 |
| 23 | -upioca | CTCRI - Plant Materials (Trivendrum), YSR University | 490 | | | 20% | 10 | 10 | | |
| 24 | | BBF | 490 | | | 20% | 10 | 10 | | |
| 25 | | Capacity Building programs - Salem visit | | | | /- | | | | |
| 26 | Brinjal | Micro-nutrient Application | | 72 | | 60% | | 10 | | 10.1 |
| 27 | | Micro Irrigation | | 72 | | 10% | | 10 | | |
| 28 | | IPM | | 72 | | 10% | | 10 | | |
| 29 | | mulching | | 72 | | 2% | | 5 | | |
| 30 | | BBF | | 72 | | 20% | | 10 | | |
| 31 | Palmoil | Micro-nutrient Application | | 170 | | 60% | | 10 | | 7.5 |
| 32 | | Micro Irrigation | | 170 | | 10% | | 10 | | |
| | | Intercrop - COCOA - WIC | | 170 | | 5% | | 10 | | |
| | | | | | | | | | | |

| | | | 2014-15 | | | 2015-16 | | | rease in | Value | Increase in % | | | | |
|--|---------|---------------------|-----------|--------------|--------|---------------------------------|------|--------|----------|--------------|---------------|------|--------------|-----------------|------|
| | S No | Sector | | Area (Ha) | Prod' | Gross Value (Rs Crore) | | Prod' | 1 | Area (Ha) | Prod' | 1 | Area (Ha) | Prod' (tons) | GVA |
| | 1 | Agriculture | Paddy | 2728 | 15168 | 1.9 | 2728 | 17005 | 2.2 | 0 | 1837 | 0.28 | 0.0 | 12.1 | 14.6 |
| | | | Cotton | 293 | 1026 | 0.4 | 293 | 1149 | 0.4 | 0 | 123 | 0.04 | 0.0 | 12.0 | 12.0 |
| | | | Sugarcane | 2131 | 159808 | 21.1 | 2131 | 166848 | 23.0 | 0 | 7040 | 1.90 | 0.0 | 4.4 | 9.0 |
| | | | | | | | | | | | | | | | |
| | 2 | Horticulture | Banana | 882 | 22045 | 9.4 | 882 | 23191 | 10.4 | 0 | 1147 | 1.03 | 0.0 | 5.2 | 11.0 |
| | | | Tapioca | 115 | 1833 | 0.5 | 115 | 2017 | 0.5 | 0 | 183 | 0.05 | 0.0 | 10.0 | 10.0 |
| | | | Brinjal | 72 | 1449 | 0.8 | 72 | 1596 | 0.9 | 0 | 146 | 0.08 | 0.0 | 10.1 | 10.1 |
| | | | Plam oil | 170 | 2551 | 1.7 | 170 | 2742 | 1.8 | 0 | 191 | 0.12 | 0.0 | 7.5 | 7.5 |
| | | | | | | | | | | | | | | | |
| | | Animal Husbandry | | | | | | | | | | | | | |
| | | Backyard Poultry | | | | | | | | | | | | | |
| | 4 | Fisheries | | | | | | | | | | | | | |
| | | Inland | | | | | | | | | | | | | |
| | | Total | | 6391 | 203879 | 36 | | | 39 | | 10669 | 4 | | | 10.6 |



Major interventions Soil test-based nutrient management Improved cultivars Integrated pest management Organic matter building measures Landform management for in-situ moisture conservation and water management (including MI & scheduling) Expansion of horticulture crops Expansion of poly houses Fodder promotion Shifting to high value agriculture Etc..

International Crops Research Institute for the Semi-firid Tropics



Discussions made

District Collector; CPO; Sub Collector -ITDA; JDA – Agriculture; PD-ATMA; PD-DWMA; JDA-Animal husbandry; JDA- Horticulture; DD-Fisheries; PHO-ITDA; PAO-ITDA; ADA-Addateegala; ADA-Yeleswaram; AO-Addateegala; AO-Yeleswaram; HO-Addateegala, etc.









FICRISAT International Crops Research Institute for the Semi-firid Tropics

Process

- Met District Collector and CPO : discussed about pilot site selections
- As suggested by DC we met all districts heads of Primary sectors as shown in pics
 - Visited Mandal offices and collected village level data and analysed and also checked the criteria list for selection
 - Contacted back all heads of primary sectors for zeroing the mandals (Addateegala and Yeleswaram mandals for agriculture, horticulture, animal husbandry and watershed development, and Tallarevu, Karapa and Kazuluru for fisheries development)
 - Then meet DC and CPO for finalising the proposed mandals and to get approval from DC
- Memo has been sent to all line departments for sharing their 2015-16 working plans in proposed mandals

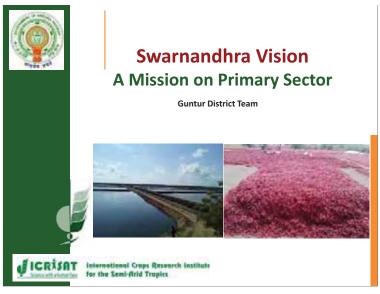




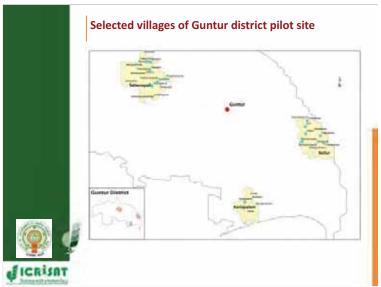


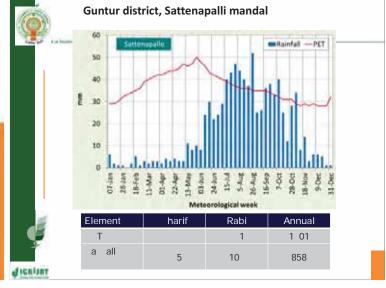


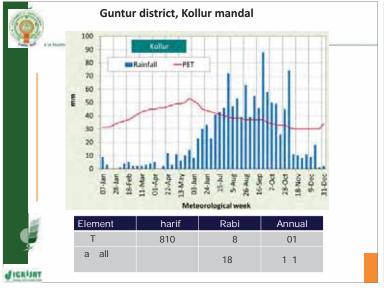


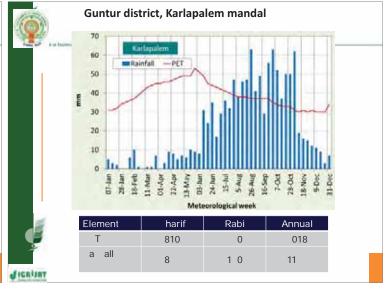










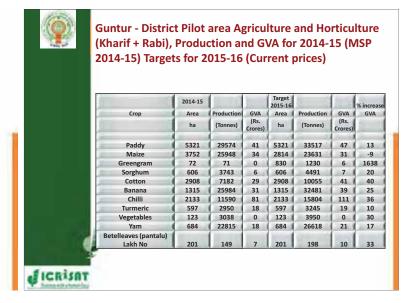


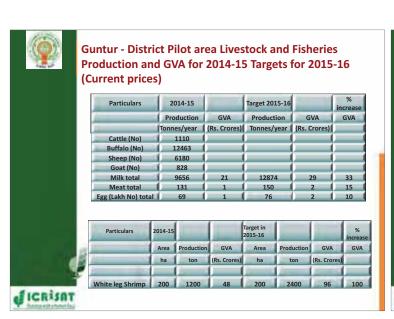
Constraints Identified Across villages Based on Stakeholders Consultations Agriculture Lack of awareness on soil health Non application of oraganic manures Excess use of N P K fertilizers Rodent damage Labour shortage Lack of mechanisation Fluctuations in market prices Horticulture Lack of knowledge of improved management practices for vegetable cultivation Lack of improved vegetable crop varieties

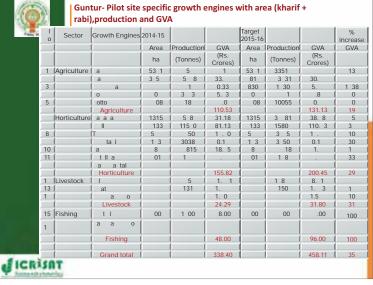
Needs regular capacity building program

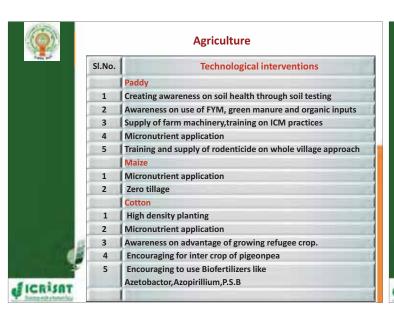
ICRISAT

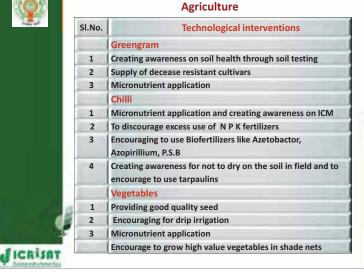
Banana susceptible to lodging due to more plant height Required tissue culture seedlings in Banana

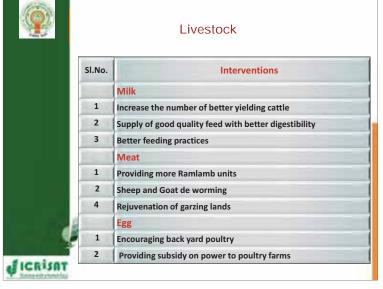


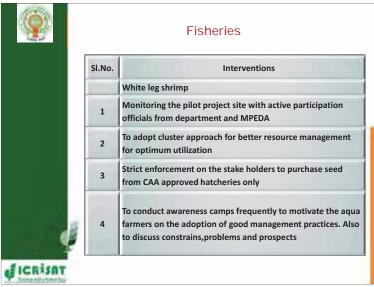


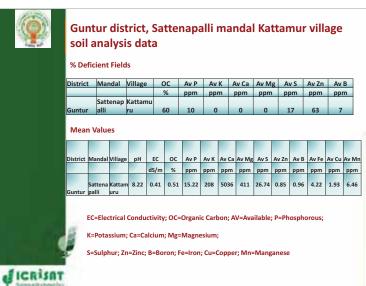




















Zinc sulfate

10



Soil Health card for Kattamur (Village Mean data)

| _ | - | 612 | The same | Table . | 22 | - | | | | | |
|----------|-----|-----|----------|---------|------|-----|--|--|--|--|--|
| nie: | | | 98 (| . 4 | 91 | 18 | | | | | |
| an sale. | | | * | 0 | | | | | | | |
| 66 | 70 | | . 40 | | - 81 | | | | | | |
| sers. | | | 17 | 4 | | | | | | | |
| PA. | | | - 60 | | | 1.6 | | | | | |
| rh. | | | | | - | | | | | | |
| NAC - | | in | 41 | + | | + | | | | | |
| 14. | * | | 100 | + | | | | | | | |
| la . | | | 0 | 4 | | | | | | | |
| 600 | 198 | | in. | 4 | # | 4. | | | | | |
| 4 | 266 | | 10 | | - | 10 | | | | | |
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| Make: | 40 | | * | | | 91 | | | | | |
| 10.00 | | | | 4 | + | 96 | | | | | |
| 16.7 | 99. | | 4. | | 10 | 44. | | | | | |
| - | - | | źn | | | 66 | | | | | |
| * | * | 40 | * | | 1 | 84 | | | | | |
| - | - | + | - | | | 40 | | | | | |
| Périti I | H. | m. | | | | 81. | | | | | |

Acknowledgement

I sincerely acknowledge

All the district level officials of the line departments,

Kollur, Sattenapalli and Karlapalem mandal level officials of line departments

for providing necessary support in getting the required data of the pilot site and for the help and co-operation in preparation of action plan of the pilot site.



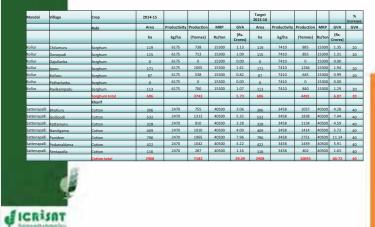
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| Mandal | Village | Crop | 2014-15 | | | | | Target 2015-16 | | | | | % increase |
|--------------|-------------|--------------|---------|--------------|------------|--------|-----------------|-------------------|--------------|------------|--------|-----------------|---------------|
| | | | Area | Productivity | Production | MRP | GVA | Area | Productivity | Production | MRP | GVA | GVA |
| | | | ha | kg/ha | (Tonnes) | Rs/ton | (Rs. Crores) | ha | kg/ha | (Tonnes) | Rs/ton | (Rs. Crores) | |
| | | | | | | | | | | | | | |
| Kollur | Chilumuru | Banana | 73 | 19760 | 1442 | 12000 | 1.73 | 73 | 24700 | 1803 | 12000 | 2.16 | 25 |
| Kollur | Donepudi | Banana | 60 | 19760 | 1186 | 12000 | 1.42 | 60 | 24700 | 1482 | 12000 | 1.78 | 25 |
| Kollur | Gajullanka | Banana | 313 | 19760 | 6185 | 12000 | 7.42 | 313 | 24700 | 7731 | 12000 | 9.28 | 25 |
| Kollur | lpuru | Banana | 123 | 19760 | 2430 | 12000 | 2.92 | 123 | 24700 | 3038 | 12000 | 3.65 | 25 |
| Kollur | Kolluru | Banana | 37 | 19760 | 731 | 12000 | 0.88 | 37 | 24700 | 914 | 12000 | 1.10 | 25 |
| Kollur | Potharlanka | Banana | 709 | 19760 | 14010 | 12000 | 16.81 | 709 | 24700 | 17512 | 12000 | 21.01 | 25 |
| | | Banana total | 1315 | | 25984 | | 31.18 | 1315 | | 32481 | | 38.98 | 25 |
| Sattenapalli | Bhatluru | Chilli | 294 | 5434 | 1595 | 70000 | 11.17 | 294 | 7410 | 2175 | 70000 | 15.23 | 36 |
| Sattenapalli | Gudipudi | Chilli | 421 | 5434 | 2286 | 70000 | 16.00 | 421 | 7410 | 3117 | 70000 | 21.82 | 36 |
| Sattenapalli | Kattamuru | Chilli | 353 | 5434 | 1918 | 70000 | 13.43 | 353 | 7410 | 2616 | 70000 | 18.31 | 36 |
| Sattenapalli | Nandigama | Chilli | 263 | 5434 | 1430 | 70000 | 10.01 | 263 | 7410 | 1950 | 70000 | 13.65 | 36 |
| Sattenapalli | Panidem | Chilli | 443 | 5434 | 2409 | 70000 | 16.86 | 443 | 7410 | 3285 | 70000 | 23.00 | 36 |
| Sattenapalli | Pedamakkena | Chilli | 286 | 5434 | 1555 | 70000 | 10.89 | 286 | 7410 | 2121 | 70000 | 14.85 | 36 |
| Sattenapalli | Rentapalla | Chilli | 73 | 5434 | 396 | 70000 | 2.77 | 73 | 7410 | 540 | 70000 | 3.78 | 36 |
| | | Chilli total | 2133 | | 11590 | | 81.13 | 2133 | | 15804 | | 110.63 | 36 |



| Mandal | Village | Crop | 2014-15 | | | | | Target 2015-16 | | | | | % increase |
|--------------|-------------|----------------|---------|--------------|------------|--------|-----------------|-------------------|--------------|------------|--------|-----------------|---------------|
| | | | Area | Productivity | Production | MRP | GVA | Area | Productivity | Production | MRP | GVA | GVA |
| | | | ha | kg/ha | (Tonnes) | Rs/ton | (Rs. Crores) | ha | kg/ha | (Tonnes) | Rs/ton | (Rs. Crores) | |
| | | | | | | | | | | | | | |
| Kollur | Chilumuru | Turmeric | 37 | 4940 | 184 | 60000 | 1.10 | 37 | 5434 | 202 | 60000 | 1.21 | 10 |
| Kollur | Donepudi | Turmeric | 23 | 4940 | 116 | 60000 | 0.70 | 23 | 5434 | 128 | 60000 | 0.77 | 10 |
| Kollur | Gajullanka | Turmeric | 101 | 4940 | 500 | 60000 | 3.00 | 101 | 5434 | 550 | 60000 | 3.30 | 10 |
| Kollur | lpuru | Turmeric | 44 | 4940 | 216 | 60000 | 1.30 | 44 | 5434 | 238 | 60000 | 1.43 | 10 |
| Kollur | Kolluru | Turmeric | 17 | 4940 | 86 | 60000 | 0.52 | 17 | 5434 | 95 | 60000 | 0.57 | 10 |
| Kollur | Potharlanka | Turmeric | 287 | 4940 | 1420 | 60000 | 8.52 | 287 | 5434 | 1562 | 60000 | 9.37 | 10 |
| Sattenapalli | Bhatluru | Turmeric | 17 | 4940 | 84 | 60000 | 0.50 | 17 | 5434 | 92 | 60000 | 0.55 | 10 |
| Sattenapalli | Gudipudi | Turmeric | 10 | 4940 | 50 | 60000 | 0.30 | 10 | 5434 | 55 | 60000 | 0.33 | 10 |
| Sattenapalli | Kattamuru | Turmeric | 10 | 4940 | 50 | 60000 | 0.30 | 10 | 5434 | 55 | 60000 | 0.33 | 10 |
| Sattenapalli | Nandigama | Turmeric | 0 | 4940 | 0 | 60000 | 0.00 | 0 | 5434 | 0 | 60000 | 0.00 | |
| Sattenapalli | Panidem | Turmeric | 49 | 4940 | 240 | 60000 | 1.44 | 49 | 5434 | 264 | 60000 | 1.58 | 10 |
| Sattenapalli | Pedamakkena | Turmeric | 0 | 4940 | 0 | 60000 | 0.00 | 0 | 5434 | 0 | 60000 | 0.00 | |
| Sattenapalli | Rentapalla | Turmeric | 1 | 4940 | 4 | 60000 | 0.02 | 1 | 5434 | 4 | 60000 | 0.03 | 10 |
| | | Turmeric total | 597 | | 2950 | | 17.70 | 597 | | 3245 | | 19.47 | 10 |







| Mandal | Village | Crop | 2014-15 | | | | | Target 2015-16 | | | | | % increase |
|--------|-------------|------------------|---------|--------------|------------|--------|-----------------|-------------------|--------------|------------|--------|-----------------|---------------|
| | | | Area | Productivity | Production | MRP | GVA | Area | Productivity | Production | MRP | GVA | GVA |
| | | | ha | kg/ha | (Tonnes) | Rs/ton | (Rs. Crores) | ha | kg/ha | (Tonnes) | Rs/ton | (Rs. Crores) | |
| | | | | | | | | | | | | | |
| Kollur | Chilumuru | Vegetables | 9 | 24700 | 222 | 400 | 0.01 | 9 | 32110 | 289 | 400 | 0.01 | 30 |
| Kollur | Donepudi | Vegetables | 10 | 24700 | 247 | 400 | 0.01 | 10 | 32110 | 321 | 400 | 0.01 | 30 |
| Kollur | Gajullanka | Vegetables | 31 | 24700 | 766 | 400 | 0.03 | 31 | 32110 | 995 | 400 | 0.04 | 30 |
| Kollur | Ipuru | Vegetables | 10 | 24700 | 247 | 400 | 0.01 | 10 | 32110 | 321 | 400 | 0.01 | 30 |
| Kollur | Kolluru | Vegetables | 9 | 24700 | 222 | 400 | 0.01 | 9 | 32110 | 289 | 400 | 0.01 | 30 |
| Kollur | Potharlanka | Vegetables | 54 | 24700 | 1334 | 400 | 0.05 | 54 | 32110 | 1734 | 400 | 0.07 | 30 |
| | | Vegetables total | 123 | | 3038 | | 0.12 | 123 | | 3950 | | 0.16 | 30 |
| Kollur | Chilumuru | Yam | 64 | 33345 | 2133 | 8000 | 1.71 | 64 | 38903 | 2489 | 8000 | 1.99 | 17 |
| Kollur | Donepudi | Yam | 40 | 33345 | 1350 | 8000 | 1.08 | 40 | 38903 | 1575 | 8000 | 1.26 | 17 |
| Kollur | Gajullanka | Yam | 214 | 33345 | 7128 | 8000 | 5.70 | 214 | 38903 | 8316 | 8000 | 6.65 | 17 |
| Kollur | lpuru | Yam | 109 | 33345 | 3632 | 8000 | 2.91 | 109 | 38903 | 4237 | 8000 | 3.39 | 17 |
| Kollur | Kolluru | Yam | 8 | 33345 | 270 | 8000 | 0.22 | 8 | 38903 | 315 | 8000 | 0.25 | 17 |
| Kollur | Potharlanka | Yam | 249 | 33345 | 8303 | 8000 | 6.64 | 249 | 38903 | 9686 | 8000 | 7.75 | 17 |
| | | Yam total | 684 | | 22815 | | 18.25 | 684 | | 26618 | | 21.29 | 17 |



| Mandal | Village | Crop | 2014-15 | | | | | Target 2015-16 | | | | | % increase |
|--------|-------------|--------------------------------|---------|--------------|------------|--------|-----------------|-------------------|--------------|------------|--------|-----------------|---------------|
| | | | Area | Productivity | Production | MRP | GVA | Area | Productivity | Production | MRP | GVA | GVA |
| | | | ha | kg/ha | (Tonnes) | Rs/ton | (Rs. Crores) | ha | kg/ha | (Tonnes) | Rs/ton | (Rs. Crores) | |
| | | | | | | | | | | | | | |
| Kollur | Donepudi | Betelleaves (pantalu) | 2 | 74100 | 120000 | 5 | 0.06 | 2 | 98800 | 160000 | 5 | 0.08 | 33 |
| Kollur | Gajullanka | Betelleaves (pantalu) | 0 | 74100 | 0 | 5 | 0.00 | 0 | 98800 | 0 | 5 | 0.00 | |
| Kollur | Ipuru | Betelleaves (pantalu) | 49 | 74100 | 3660000 | 5 | 1.83 | 49 | 98800 | 4880000 | 5 | 2.44 | 33 |
| Kollur | Kolluru | Betelleaves (pantalu) | 0 | 74100 | 0 | 5 | 0.00 | 0 | 98800 | 0 | 5 | 0.00 | |
| Kollur | Potharlanka | Betelleaves (pantalu) | 138 | 74100 | 10200000 | 5 | 5.10 | 138 | 98800 | 13600000 | 5 | 6.80 | 33 |
| Kollur | Chilumuru | Betelleaves (pantalu) | 12 | 74100 | 900000 | 5 | 0.45 | 12 | 98800 | 1200000 | 5 | 0.60 | 33 |
| | | Betelleaves (pantalu) total | 201 | | 14880000 | | 7.44 | 201 | | 19840000 | | 9.92 | 33 |











| Mandal | Village | Particulars | 2014-15 | | | Target 2015-16 | | | % increa |
|--------------|-------------|-------------|-------------|--------|--------------|-------------------|--------|--------------|----------|
| | | | Production | MRP | GVA | Production | MRP | GVA | GVA |
| | | | Tonnes/year | Rs/Ton | (Rs. Crores) | Tonnes/yea r | Rs/Ton | (Rs. Crores) | |
| | | | | | | | | | |
| Kollur | Chilumuru | Meat | 0.377 | 109000 | 0.004 | 0.422 | 109000 | 0.005 | 12 |
| Kollur | Donepudi | Meat | 1.792 | 109000 | 0.020 | 2.007 | 109000 | 0.022 | 12 |
| Kollur | Gajullanka | Meat | 1.386 | 109000 | 0.015 | 1.552 | 109000 | 0.017 | 12 |
| Kollur | lpuru | Meat | 0.636 | 109000 | 0.007 | 0.712 | 109000 | 0.008 | 12 |
| Kollur | Kolluru | Meat | 31.291 | 109000 | 0.341 | 35.046 | 109000 | 0.382 | 12 |
| Kollur | Potharlanka | Meat | 1.459 | 109000 | 0.016 | 1.634 | 109000 | 0.018 | 12 |
| Kollur | Ravikampadu | Meat | 0.486 | 109000 | 0.005 | 0.544 | 109000 | 0.006 | 12 |
| Sattenapalli | Bhatluru | Meat | 7.638 | 109000 | 0.083 | 8.555 | 109000 | 0.093 | 12 |
| Sattenapalli | Gudipudi | Meat | 14.226 | 109000 | 0.155 | 15.933 | 109000 | 0.174 | 12 |
| Sattenapalli | Kattamuru | Meat | 11.22 | 109000 | 0.122 | 12.566 | 109000 | 0.137 | 12 |
| Sattenapalli | Nandigama | Meat | 20.688 | 109000 | 0.225 | 23.171 | 109000 | 0.253 | 12 |
| Sattenapalli | Panidem | Meat | 16.6 | 109000 | 0.181 | 18.592 | 109000 | 0.203 | 12 |
| Sattenapalli | Pedamakkena | Meat | 10.8 | 109000 | 0.118 | 12.096 | 109000 | 0.132 | 12 |
| Sattenapalli | Rentapalla | Meat | 12.069 | 109000 | 0.132 | 13.517 | 109000 | 0.147 | 12 |
| | | Meat total | 131 | | 1.424 | 146 | | 1.595 | 12 |





| Mandal | Village | Particulars | | 2014-15 | | Target 2015-16 | | | % increase |
|--------------|-------------|---------------------|-------------|---------|--------------|-----------------|--------|--------------|------------|
| | | | Production | MRP | GVA | Production | MRP | GVA | GVA |
| | | | Tonnes/year | Rs/ton | (Rs. Crores) | Tonnes/yea r | Rs/ton | (Rs. Crores) | |
| | | | | | | | | | |
| Kollur | Chilumuru | Egg (Lakh No) | 0.111 | 203397 | 0.002 | 0.122 | 203397 | 0.002 | 10 |
| Kollur | Donepudi | Egg (Lakh No) | 0.137 | 203397 | 0.003 | 0.151 | 203397 | 0.003 | 10 |
| Kollur | Gajullanka | Egg (Lakh No) | 0.082 | 203397 | 0.002 | 0.090 | 203397 | 0.002 | 10 |
| Kollur | lpuru | Egg (Lakh No) | 0.031 | 203397 | 0.001 | 0.034 | 203397 | 0.001 | 10 |
| Kollur | Kolluru | Egg (Lakh No) | 67.542 | 203397 | 1.374 | 74.296 | 203397 | 1.511 | 10 |
| Kollur | Potharlanka | Egg (Lakh No) | 0.111 | 203397 | 0.002 | 0.122 | 203397 | 0.002 | 10 |
| Kollur | Ravikampadu | Egg (Lakh No) | 0.090 | 203397 | 0.002 | 0.099 | 203397 | 0.002 | 10 |
| Sattenapalli | Bhatluru | Egg (Lakh No) | 0.117 | 203397 | 0.002 | 0.129 | 203397 | 0.003 | 10 |
| Sattenapalli | Gudipudi | Egg (Lakh No) | 0.078 | 203397 | 0.002 | 0.085 | 203397 | 0.002 | 10 |
| Sattenapalli | Kattamuru | Egg (Lakh No) | 0.048 | 203397 | 0.001 | 0.053 | 203397 | 0.001 | 10 |
| Sattenapalli | Nandigama | Egg (Lakh No) | 0.221 | 203397 | 0.004 | 0.243 | 203397 | 0.005 | 10 |
| Sattenapalli | Panidem | Egg (Lakh No) | 0.266 | 203397 | 0.005 | 0.292 | 203397 | 0.006 | 10 |
| Sattenapalli | Pedamakkena | Egg (Lakh No) | 0.086 | 203397 | 0.002 | 0.095 | 203397 | 0.002 | 10 |
| Sattenapalli | Rentapalla | Egg (Lakh No) | 0.100 | 203397 | 0.002 | 0.110 | 203397 | 0.002 | 10 |
| | | Fee (Lakh No) total | 69 | | 1.404 | 76 | | 1.544 | 10 |





| Mandal | Village | Particulars | 2014-15 | | | | | Expected improveme nt in 2015- 16 | | | | | % increase |
|------------|--------------|---------------------------|---------|--|------------|--------|--------------|--|------------------|------------|------------|--------------|------------|
| | | | Area | Productivit y | Production | MRP | GVA | Area | Productivit y | Production | MRP | GVA | GVA |
| | | | ha | ton | ton | ton | (Rs. Crores) | ha | kg/ha | Quintals | Rs/quintal | (Rs. Crores) | |
| | | | | | | | | | | | | | |
| Karlapalem | | White leg Shrimp | 100 | 6 | 600 | 400000 | 24 | 100 | 12 | 1200 | 400000 | 48 | 100 |
| | | | | | | | | | | | | | |
| Karlapalem | | White leg shrimp | 100 | 6 | 600 | 400000 | 24 | 100 | 12 | 1200 | 400000 | 48 | 100 |
| | | (L.Vannamei) | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | White leg Shrimp total | 200 | | 1200 | | 48 | 200 | | 2400 | | 96 | 100 |
| | | | | | | | | | | | | | |
| Tullur | Venkatapalem | Cage farming of fish | | First of its kind in AP By Governmen t | | | | 2 | | | | | |
| | | in river | | | | | | | | | | | |
| | | | | | | | | | | | | | |



Double Digit Growth Milk Production — Guntur district

ouble igit Growth Meat Production – Guntur district

PRESENT STATUS:

| I o to a T | o t | l o to a T | l o |
|---------------|-------|---------------|------|
| 01 15 | 015 1 | t ot at | |
| 10.39 | 11.60 | 7.6% | 2841 |

| PRESENT STATUS: | | | |
|------------------------|-------|---|-------------|
| Meat (Thousand MTs) | | cted Meat Production n Thousand MTs) | G P |
| 01 15 | 015 1 | t ot at | (In Crores) |
| 42257 | 48000 | 13.5% | 793 |

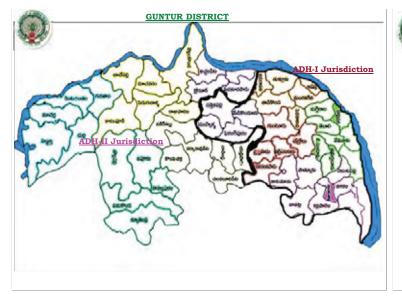
ouble igit Growth Eggs Production – Guntur district

 PRESENT STATUS:

 Eggs (in Lakh Nos)
 Projected Eggs Production (in Lakh Nos)
 G P (In Crores)

 01 15
 015 1
 t o t at

 11413
 12300
 7.7 %
 273



| Crop | Potential Mandals |
|--------------|---|
| Стор | 1 Otential Mandais |
| Chillies | All Mandals except 15 coastal mandals in the district. |
| Banana | Kolluru, Thulluru, Thadepalli, Bhattiprolu, Kollipara, Tenali, Mangalagiri and Duggirala. |
| Turmeric | Duggirala, Bhattiprolu, Kolluru, Kollipara, Mangalagiri, Thulluru and Muppal |
| Acidlime | Thulluru, Tsunduru, Duggirala, Mangalagiri, Phirangipuram and Bellamkond |
| Sweet Orange | Bollapalli, Durgi, Nakarakal, Macharla, Veldurthy and Vinukonda |
| Sapota | Duggirala, Chebrolu and Nagaram. |
| Brinjall | Chebrolu,Bapatla and Thadepalli. |
| Tomato | Chebrolu,Narasaraopet and Bellamkonda |
| Bhendi | Mangalagiri, Tsunduru, Thadepalli, Chebrolu, Narasaraopet and Dachepalli |
| Onion | Thadepalli, Mangalagiri, Tadikonda, Narasaraopet and Thulluru |
| Little gourd | Chebrolu, Pedakakani and Mangalagiri. |
| Betelvine | Ponnuru,Kolluru and Kollipara |
| Amla | Vinukonda and Bollapalli |
| Jasmine | Bapatla, Mangalagiri, Yadlapadu and Narasaraopet. |
| Marigold | Phirangipuram, Thadepalli, Narasaraopet and Mangalagiri |
| Crossandra | Mangalagiri,Narasaraopet, Yadlapadu and Bapatla. |

| ANNE | URE - I |
|----------------|-----------------|
| PRIMARY SECTOR | MISSION-2015-16 |
| istrict | Profile |

| Name of the istrict: GUNTUR | | | | | |
|--|-------------------------------|---------------------|-------------------------|--|--|
| Major Horticulture crops Grown in the istrict | Area(Ha) up to (31.3.2015) | Production (MTs) | Productivity (MT/Ha) | Average Market (Price based od 2014-15 Fig. in year) Rs/Ton | Total Value.(Rs. In Lakhs) (3*5) |
| 1 | | 3 | | 5 | |
| I.Short term Crops | | | | | |
| Banana(Local) | 5600 | 280000 | 50 | 10000 | 28000.00 |
| 2.T.C. Banana | 150 | 11550 | 77 | 18000 | 2079.00 |
| 3. Papaya | 511 | 38325 | 75 | 6000 | 2299.50 |
| 4. Tomato | 581 | 34860 | 60 | 12000 | 4183.20 |
| 5.Onion | 55 | 1375 | 25 | 20000 | 275.00 |
| 6. Red Chillies | 61544 | 307720 | 5 | 6800 | 20924.90 |
| 7.Green Chillies | 455 | 9100 | 20 | 9000 | 819.00 |
| 8.Potato | | | | | |
| 9.Turmeric | 5604 | 33624 | 6 | 70000 | 23536.80 |
| 10.Garlic | | | | | |
| 11. inger | | | | | |
| 12. Pine Aplle | | | | | |
| 13.Water Melon | 47 | 1762.5 | 37.5 | 6000 | 105.75 |
| 14.Musk Melon | | | | | |
| 15.Veg. Crops in the istrict | 10731 | 289737 | 27 | 12000 | 34768.44 |
| 16.Flower Crops in the istict | 820 | 123 | 0.15 | 25000 | 30.7 |
| 17.Other if any (specify) | | | | | |
| Sub-Total | 86098 | 1008177 | 382.65 | 256000 | 305347.04 |

| Major Horticulture crops Grown in the istrict | Area(Ha) up to (31.3.2015) | Production (MTs) | Productivity (MT/Ha) | Average Market (Price based od 2014-15 Fig. in year) Rs/Ton | |
|--|-------------------------------|---------------------|-------------------------|--|---------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| II.Long term Crops | | | | | |
| 1.Mango | 1238 | 11142 | 9 | 18000 | 2005.5 |
| 2.Cashew | 166 | 33.2 | 0.2 | 180000 | 59.7 |
| 3.Sweet Orange | 2462 | 92325 | 37.5 | 15000 | 13848.7 |
| 4.Acid Lime | 2454 | 36810 | 15 | 30000 | 11043.0 |
| 5.Pomegranate | | | | | |
| 6.Sapota | 1574 | 18888 | 12 | 8000 | 1511.0 |
| 7.Guava | 280 | 3360 | 12 | 10000 | 336.00 |
| 8.Cocoa | | | | | |
| 9.Coconut | 136 | 8.375 lakhs nuts | | Rs.10/- Per unit | 83.7 |
| 10. Oil Palm | | | | | |
| 11. Other if any (specify) Sub-Total | 8310 | 162558.2 | 85.7 | 261000 | 28887.8 |

| Major Horticulture crops Grown in the istrict | Area(Ha) up to (31.3.2015) | Production (MTs) | Productivity (MT/Ha) | Average Market (Price based od 2014-15 Fig. in year) Rs/Ton | |
|--|----------------------------------|--------------------------------|--------------------------------|--|-----------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| III. Existing P C | | | | | |
| Poly House cultivation- Chilli Seedlings (sqmt) | 12000 | 30 Lakh seedlings / Acer | 10 Lakh seedlings / Acer | 60 Paisa / Seedling | 18.00 |
| i. Vegetables - Tomato | | 75.6 | 63 | 12000 | 9.00 |
| ii.Flowers - Hybrid Chrysanthimam | | | | | |
| 15.Shade Net Houses (sqmt) | | | | | |
| i.Nurseries (specify Crops) | 50000 | 1.25 crore seedlings | 10 Lakh seedlings / Acer | 60 Paisa / Seedling | 75.00 |
| ii.Vegetables Capsicum | | | | | |
| iii.Floweres (specify Crops) | | | | | |
| Sub-Total | 62000 | | | | 102.00 |
| 12.Grand Total | 156408 | | | | 334336.90 |

| | Major Growth Engines contributing to the GS P in Guntur istrict | | | | | | | | | | | |
|-----|---|------------------|---------|-----------|---------------|--------------|----------------|------------------|------------------------------|----------------|------------------|--|
| SI. | Crop | Existing Area | Prodn | Value Rs. | lue Rs. Poten | | | | Total (Existing Proposed) | | | |
| No | СГОР | (Ha) | (MTs) | In Lakhs | (Ha) | Area (Ha) | Prodn (MTs) | Value (Lakhs) | Area (Ha) | Prodn (MTs) | Value (Lakhs) | |
| 1 | Chillies | 61544 | 307720 | 209249.00 | 20000 | 6154 | 36924 | 2511.00 | 67698 | 344644 | 211760.00 | |
| 2 | Banana | 5750 | 291550 | 30079.00 | 500 | 30 | 1500 | 300.00 | 5780 | 292410 | 30379.00 | |
| 3 | Turmeric | 5604 | 33624 | 23537.00 | 1000 | 560 | 3640 | 2548.00 | 6164 | 37264 | 26085.00 | |
| 4 | Vegetables | 11312 | 324597 | 24000.00 | 5000 | 2784 | 89466 | 10736.00 | 14096 | 414063 | 34736.00 | |
| 5 | Papaya | 511 | 38325 | 2299.00 | 500 | 127 | 9779 | 587.00 | 638 | 48104 | 2886.00 | |
| 6 | Sweet Orange | 2462 | 92325 | 13849.00 | 1000 | 245 | 0 | 0.00 | 2707 | 92325 | 13849.00 | |
| | Total | 87183 | 1088141 | 303013 | 28000 | 9900 | 140669 | 16682 | 97083 | 1228810 | 319695.00 | |
| | • | | | | | | | | | | | |

| | 200 | | | | DDIA | | nnex | | | CULTUR | | | | | |
|---------|------------------------|------------------------------|-----------------------------|------|------------------------------|-----------------|-----------------------------|----------------|-----------------------------|----------------|-----------------------------|----------------|-----------------------------|-------------|----------------------------|
| | 31) | | | | PRIN | | entions P | | | | E. | | | | |
| 1 | Name of the D | ietviot: C | UNTUD | | | Interv | entions P | roposea a | uring 201 | 5-16 | | | | | |
| SI. | Name of the D | Micro Ir | | Mulc | hing | Farn | n Ponds | Pandal C | ultivation | Trallies C | ultivation | Can Manag | iopy gement | Rejuva | nation |
| No. | Name of the Crop | Physica ^l l Ha | Financial Rs.in Lakhs | | Financi al Rs.in Lakhs | Physic al Ha | Financial Rs.in Lakhs | Physical Ha | Financial Rs.in Lakhs | Physical Ha | Financial Rs.in Lakhs | Physical Ha | Financial Rs.in Lakhs | Physical Ha | Financia Rs.in Lakhs |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 1 T.C | Banana | 20 | 15.92 | | | | | | | | | | | | |
| 2 Ban | iana | 70 | 55.72 | | | | | | | | | | | | |
| 3 Pap | | 60 | 43.88 | | | | | | | | | | | | |
| 4 Ton | | 15 | 15 | 25 | 4 | | | | | | | | | | |
| 5 Oni | on | 12 | 12 | | | | | | | | | | | | |
| 6 R.C | | 913 | 361.11 | 15 | 2.4 | 12 | 9 | | | | | | | | |
| 7 Tur | meric | 100 | 100 | | | | | | | | | | | | |
| 8 Wat | ter Malon | 25 | 10.51 | 9 | 1.44 | | | | | | | | | | |
| 9 Mus | sk Malon | | | | | | | | | | | | | | |
| | e apple | | | | | | | | | | | | | | |
| | jor Veg.Crops 6 Nos | 125 | 125 | | | | | 59 | 147.5 | | | | | | |
| 12 Mai | ior Flower Crops 6 Nos | 70 | 70 | | | | | | | | | | | | |
| 13 Pota | ato | | | | | | | | | | | | | | |
| 4 Zing | ger | | | | | | | | | | | | | | |
| 15 Can | | | | | | | | | | | | | | | |
| 16 Hv. | Tomato | 15 | 15 | | | | | | | 70 | 13.12 | | | | |
| 17 Sub | -Total | 1425 | 824.14 | 49 | 7.84 | | | | | | | | | | |
| Frui | its | | | | | | | | | | | | | | |
| 17 Mai | ngo | 110 | 31.9 | | | | | | | | | | | | |
| 18 Cas | | | | | | | | | | | | | | | |
| 19 S.O | | 130 | 37.7 | 10 | 1.6 | | | | | | | | | 200 | |
| | de Lime | 90 | 26.1 | 10 | 1.6 | | | | | | | 170 | 10.2 | | |
| | negranete | | | | | | | | | | | | | | |
| 2 Sap | | 20 | 5 | | | | | | | | | | | | |
| 23 Gua | | 40 | 11.6 | | | | | | | | | | | | |
| 24 Coc | | | | | | | | | | | | | | | |
| 25 Coc | | | | | | | | | | | | | | | |
| 26 Oil | | | | | | | | | | | | | | | |
| | er if any | 685 | 271.17 | | | | | | | | | | | | |
| | -Total | 1075 | 383.47 | 20 | 3.2 | | | | | | | | | | |
| | and Total | | 1207.61 | 69 | 11.04 | | 9 | 59 | 147.5 | 70 | 13.12 | 170 | 10.2 | 340 | |

| 364 | l. | Protected Cu | ltivation Poly | Shadene | et Houses | | IPM | | |
|-----|--------------------------|--------------|--------------------------|-------------|--------------------------|-------------|--------------------------|----------------|-------------------------|
| Яľ | | Houses | (sqmts) | (sq | mts) | | IPM | on | |
| | Name of the Crop | Vagetable | s (sqmts) | Nur | series | Vege | tables | R.C | Chillies |
| 9 | | Physical Ha | Financial Rs.in Lakhs | Physical Ha | Financial Rs.in Lakhs | Physical Ha | Financial Rs.in Lakhs | Physical Ha | Financial Rs.in Lakl |
| 1 | 2 | 17 | 18 | 21 | 22 | 27 | 28 | 29 | 30 |
| 1 | T.C Banana | | | | | | | | |
| 2 | Banana | | | | | | | | |
| 3 | Papapa | | | | | | | | |
| 4 | Tomato | | | | | | | | |
| 5 | Onion | | | | | | | | |
| 6 | R.Chillies | | | | | | | 810 | 2- |
| 7 | Turmeric | | | | | | | | |
| 8 | Water Malon | | | | | | | | |
| 9 | Musk Malon | | | | | | | | |
| 10 | Pine apple | | | | | | | | |
| 11 | Major Veg.Crops 6 Nos | | | | | 400 | 12 | • | |
| 12 | Major Flower Crops 6 Nos | | | | | | | | |
| 13 | Potato | | | | | | | | |
| 14 | Zinger | | | | | | | | |
| 15 | Capsicum | 12000 | 63.0 | 5 | | | | | |
| 16 | Hy.Tomato | | | 50000 | 150 |) | | | |
| 17 | Sub-Total | | | | | | | | |
| | Fruits | | | | | | | | |
| 17 | Mango | | | | | | | | |
| 18 | Cashew | | | | | | | | |
| 19 | S.Orange | | | | | | | | |
| 20 | Acide Lime | | | | | | | | |
| 21 | Pomegranete | | | | | | | | |
| 22 | Sapota | | | | | | | | |
| 23 | Guava | | | | | | | | |
| 24 | Cocos | | | | | | | | |
| 25 | Coconut | | | | | | | | |
| 26 | Oil Palm | | | | | | | | |
| 27 | Other if any | | | | | | | | |
| | Sub-Total | | | | | | | | |
| | Grand Total | 12000 | 63.0 | 50000 | 150 | 400 | 12 | 810 |) 2- |





DEPARTMENT OF FISHERIES GUNTUR DISTRICT



FISHERIES SECTOR- PRODUCTION AND GVA FOR 2014-15 WITH PROJECTIONS FOR 2015-16

| | 2014-15 Fish & Prawn production Achievements Shrimp14-15 | | | | nents | value 14- | GVA (AE) | | |
|-------------------------|--|----------------|------|--------|-------------------------|-----------------|---------------------------------|--------|-----------|
| Name of the District | Inland Fish | Marine Fish | | Shrimn | Fresh water Prawn | Total Shrimp | Total Production (Tonnes) | 15 | deducting |
| Guntur | 30381 | 31460 | 7594 | 7454 | 3326 | 18374 | 80215 | 125795 | 103152 |

| | | 2015 | -16 Fish | & Prawr | Targets | | | GVA (AE) | | | |
|----------------|----------------|-----------------------------|------------------|-------------------------|-----------------|---------------------------------|--------|--------------------------------|-------|---------------------------|----------------|
| | | S | Shrimp15-1 | | | | | after | | Growth Rate | Growth |
| Inland Fish | Marine Fish | Brackishw ater Shrimp | Marine Shrimn | Fresh water Prawn | Total Shrimp | Total Production (Tonnes) | | deducting 18% input cost | | on Production Value | Rate on GVA |
| 32650 | 31450 | 13600 | 7900 | 5530 | 27030 | 91130 | 162143 | 132957 | 13.61 | 28.89 | 28.89 |

ACTION PLAN FOR GUNTUR DIST. FOR 2015-16

Name of the scheme: Action plan FDO wise for promotion of Scampi hatchery during 2015-16

| S.no. | FDO | Village/mandal | Mandal | Extent |
|-------|--|---------------------|---------|--------------------|
| 1 | Smt A.Usha Kiran, Cell.No:9989159638 FDO,bapatla | Suryalanka ,Bapatla | Bapatla | 5.5 ha (1 unit) |

Name of the scheme: Revival of Scampi culture

Assistance proposed in Guntur district: 60lakhs

| S.no. | FDO | Village/mandal | Mandal | No of hectares proposed |
|-------|---|------------------|--------------|----------------------------|
| | Sri P.Sambasiva | Brugubanda of | Sattenpalli | 10 |
| | Reddy,AIF,Sattenpalli contact no:9866872206 | Thondapi of | Muppalla | 10 |
| | | Madamanchipadu , | Vinukonda. | 4 |
| | Sri | Ummadavaram | Vinukonda | 4 |
| | N.Jaggalah,FDO,Vinukonda Cell.no:9440524381 | Nuzendla | Nuzendia | 4 |
| | Cell.no:9440524581 | Kanumarlapudi | Savalyapuram | 4 |
| | | Potturu | Savalyapuram | 4 |
| | Sri G.Radha Krishna,FDO,Tenali Cell.no:9848432511 | Chinaravuru | Tenall | 5 |
| | | Kuchipudi | Amarthalur | 5 |
| | | Pedapudi, | Amarthalur | 5 |
| | | Inturu | Amarthalur | 5 |

Name of the scheme: Promotion of Tilapia culture

Assistance proposed: 30 lakhs

| S.no. | FDO | Village | Mandal | hectares proposed |
|-------|------------------------------------|---------------|------------|----------------------|
| | Sri G.Radha Krishna,FDO,Tenali | Chinaravuru | Tenali | 3 |
| | Cell.no:9848432511 | Kuchipudi | Amarthalur | 4 |
| | | A.Gudavalli I | Vemur | 3 |
| 2 | Smt A.Usha Kiran,FDO,Bapatla | Mullapalem | Bapatla | 4 |
| | cell.no:9989159638 | Jammulapalem | Bapatla | 3 |
| | | Jillellamudi | Bapatla | 3 |
| 3 | Smt P.Madhavi Latha.FDO,Repalle | Nalluru | Repalle | 4 |
| | Cell.No:94939241167 | Manthripalem | Nagaram | 3 |
| | | Yeletipalem | Nagaram | 3 |
| | | · · | | |

Name of the scheme: Backyard hatcheries for ornamental fish for SHGs/Coops/individuals

Assistance proposed in Guntur dist : 20 units

| S.no. | FDO | Village | Mandal | No. of units |
|-------|---|-------------|------------|--------------|
| 1 | Sri V.Bala Krishna,FDO,Guntur cell.No:9032410979 | Gorantia, | Guntur | 3 |
| | Cell.140.9032410979 | Guntur | Guntur | 3 |
| | | Tadikonda | Tadikonda | 4 |
| 2 | Sri G.Radha Krishna,FDO,Tenali | Chinaravuru | Tenali | 3 |
| | Cell.no:9848432511 | Kuchipudi | Amarthalur | 4 |
| | | A.Gudavalli | Vemur | 3 |

Name of the scheme: Revolving fund for fisher women (FWCS/MMGs)

Assistance proposed in Guntur dist : 05 units

| S.no. | FDO | Village | Mandal | No. of units |
|-------|---|------------|------------|--------------|
| 1 | Smt P.Madhavi Latha.FDO,Repalle Cell.No:94939241167 | Mollagunta | Repalle | 3 |
| 2 | Sri G.Radha Krishna,FDO,Tenali Cell.no:9848432511 | Kuchipudi | Amarthalur | 1 |
| 3 | Sri L.A.Henry,AIF,Macherla Cell.no:9866213412 | | | 1 |

Name of the scheme: Promotion of Mud crab culture

Assistance proposed in Guntur dist: 10 units/10hectares

| S.no. | FDO | Village | Mandal | No. of hectares proposed |
|-------|--|----------------|-------------|--------------------------------|
| , | Smt P.Madhavi Latha.FDO,Repalle | Mollagunta | Repalle | 3 |
| ' | Cell.No:94939241167 | Lankevanidibba | Repalle | 2 |
| 2 | Sri A.V.Raghava Reddy,FDO,Nizampatnam | Kothapalem | Nizampatnam | 3 |
| 2 | cell.No:9701101559 | Adavuladeevi | Nizampatnam | 2 |

Name of the scheme: Promotion of deep sea fishing (tuna long lining) for big motorized boats

Assistance proposed: Rs 50.00 lakhs

| S.no. | FDO | Village | Mandal | No of units |
|-------|-------------------------------------|------------------------|-------------|-------------|
| 1 | SriP.Galidemudu, FDO,Nizampatnam | Nizampatnam harbour | Nizampatnam | 50 |

Name of the scheme: Marine Cage Culture for sustainable farming

| S.no. | FDO | Village | Mandal | No. of units proposed |
|-------|--|------------|---------|-----------------------|
| 1 | Smt A.Usha Kiran,FDO,Bapatla cell.no:9989159638 | Suryalanka | Bapatla | 1 |

Name of the scheme: Brackish water Cage Culture for sustainable farming

| S.no. | FDO | Village/mandal | Mandal | No of Units proposed |
|-------|--|-------------------|---------|-------------------------|
| 1 | Smt P.Madhavi Latha.FDO,Repalle Cell.No:94939241167 | Raavi Anathavaram | Repalle | 1 |
| | | Penumudi | Renalle | 1 |

Name of the scheme: Fresh Water Cage Culture

| S.no. | FDO | Village | Mandal | No of units proposed |
|-------|--|-----------------|-----------|-------------------------|
| 1 | Sri. CH.Prasad, FDO, Nagarjuna Sagar Cell NO:9346462106 | Nagarjuna Sagar | Macheria | 1 |
| 2 | Sri.V.Bala Krishna FDO, Guntur Cell No: 9032410979 | Seethanagaram | Tadepalli | 1 |

Name of the scheme: Revival of Brackish Water Aqua culture

Assistance proposed in Guntur district:60 Lakhs

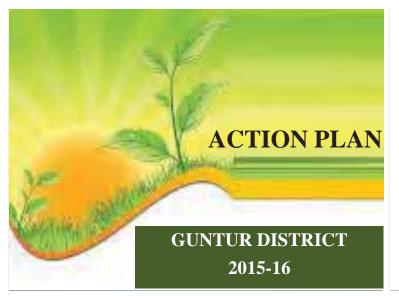
| S.no. | FDO | Village/mandal | No. of units | No of units propo sed |
|-------|---|---------------------|----------------------|--------------------------------|
| | Smt P.Madhavi Latha.FDO,Repalle | Raajukalva | Repaile | 25 |
| | Cell.No:94939241167 | Lankevanidibba | Repalle | 25 |
| | CCII.110.54555241107 | Pothumeraka | Repalle | 40 |
| | | Gangadipalem | Repalle | 60 |
| | | Dindi | Nizampatna m | 30 |
| 2 | Sri A.V.Raghava Reddy,FDO,Nizampatnam | Kopthapalem | Nizampatna m | 50 |
| | cell.No:9701101559 | Adavuladeevi | Nizampatna m | 40 |
| | | Amudalapalli | Nizampatna m | 30 |
| | | Adavi | Bapatla | 20 |
| | | Buddam | Karlapalem | 20 |
| | | Thummalapalli | Karlapalem | 10 |
| | | Pedapuluguvaripalem | Karlapalem | 10 |
| | | Ganapavaram | Karlapalem | 10 |
| | Smt A.Usha Kiran, FDO,Bapatla cell.no:9989159638 | Pittalavanipalem | Pittalavanipa lem | 10 |
| | | Khazipalem | Pittalavanipa lem | 10 |
| | | Alluru | Pittalavanipa lem | 10 |
| | | Alkapuram | Pittalavanipa lem | 10 |
| Total | | | | 410 |

Name of the scheme: Remodelling the existing Fish Farm as per requirement of brood bank, collection of brood from various river courses, etc.,

Assistance proposed: Rs 100.00 lakhs

| S.no. | FDO | Village | Mandal | No. of units |
|-------|---|------------|--------|--------------|
| 1 | Sri P.Galidemudu ,FDO,Nidubrolu Cell.No:9441537798 | Nidubrolu, | Ponnur | 1 |

Thank you



STATEMENT SHOWING THE ACTION PLAN FOR ACHIEVING DOUBLE DIGIT GROWTH RATE IN AGRICULTURE IN THE GUNTUR DISTRICT FOR THE YEAR 2015-16

| | | Total Cropped Area in Ha. | | | | | | | | | | | |
|--------|-------------------------|---------------------------|----|--------|--------------------|-------------------------------|---------|-------|-------|-------|-------------------------------|----------------------------|----------|
| SliNo. | | Kharif 2014 | | | Existing Kharif | VI | | | | | Total Production | Gross Value (Rs. | |
| 0 | ō | Rainfed | OI | Wet | Total | Productivity (kgs per ha.) | Rainfed | ID | Wet | Total | Productivity (kgs per ha.) | Kharif & Rabi (in Qtls) | In Crore |
| | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 7000 | Paddy | 0 | | 255607 | 255607 | 3600 | | | 32155 | 32155 | 3725 | 10399625.75 | 1455. |
| | lowar | 32 | | | 32 | 1800 | | 22665 | | 22665 | 5980 | 1355943.00 | 207. |
| | Bajra | 689 | | | 689 | 2000 | | 44 | | 44 | 0 | 13780.00 | 1 |
| | Ragi | | | | | 0 | | 76 | | 76 | 450 | 342.00 | 0 |
| | Maize | 367 | | | 367 | 3550 | | 71513 | | 71513 | 7500 | 5376503.50 | 704 |
| | Redgram | 8861 | | | 8861 | 650 | | 856 | | 856 | 700 | 63588.50 | 27 |
| | Bengalgram | | | | 0 | 0 | 9633 | | | 9633 | 1500 | 144495.00 | 45 |
| 9 | Greengram | 177 | | | 177 | 750 | | 41456 | | 41456 | 800 | 332975.50 | 153 |
| | Blackgram | 1057 | | | 1057 | 700 | | 39482 | | 39482 | 1000 | 402219.00 | 174 |
| 3 | Groundnut | 804 | | | 804 | 1550 | | 3508 | | 3508 | 2950 | 115948.00 | 46 |
| 9.0 | Sesamum | 1483 | | | 1483 | 390 | 3414 | | | 3414 | 500 | 22853.70 | 10 |
| 9 | Castor | 723 | | | 723 | 850 | | 452 | | 452 | 600 | 8857.50 | 3 |
| | Rapeseed and Mustard | | | | | 0 | 273 | | | 273 | 450 | 1228.50 | o |
| 9 | Soyabean | 439 | | | 439 | 950 | | | | 0 | 0 | 4170.50 | 1 |
| 3 | Cotton | 206374 | | | 206374 | 550 | | | | 0 | 0 | 1135057.00 | 459 |
| 3 | Tobacco | | | | | 0 | 5778 | | | 5778 | 3000 | 173340.00 | 216 |
| 33 | Sugarcane | 470 | | | 470 | 84023 | | | | 0 | 0 | 394908.10 | ٤ |
| | Total :- | | | | | | | | | | | | 3517. |

| | Proposed Area in Ha. | | | | | | | | | | | |
|-------------------------|----------------------|------|---------|--------|-------------------------------|---------|---------|-------|-------|-------------------------------|----------------------------|------------------------|
| Crop | | Khar | if 2015 | | Targetted Kharif 2015 | | Rabi 20 | 15-16 | | Targetted Rabi 2015-16 | Total Production | Gross Value (Rs. In |
| Ğ | Rainfed | | Wet | Total | Productivity (kgs per ha.) | Rainfed | ΩI | Wet | Total | Productivity (kgs per ha.) | Kharif & Rabi (in Qtls) | Crores) |
| | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| Paddy | | | 260000 | 260000 | 3885 | | | 5895 | 5895 | 4001 | 10336858.95 | 1447.1 |
| jowar | 50 | | | 50 | 2300 | | 17737 | | 17737 | 6770 | 1201944.90 | 183.9 |
| Bajra | 650 | | | 650 | 2500 | | | | 0 | | 16250.00 | 2.0 |
| Ragi | | | | 0 | 0 | | 450 | | 450 | 500 | 2250.00 | 0.3 |
| Maize | | 400 | | 400 | 3915 | | 88317 | | 88317 | 8500 | 7522605.00 | 985.4 |
| Redgram | 9000 | | | 9000 | 750 | | 856 | | 856 | 825 | 74562.00 | 32.4 |
| Bengalgram | | | | 0 | 0 | 9630 | | | 9630 | 1800 | 173340.00 | 55.0 |
| Greengram | 250 | | | 250 | 850 | 40655 | | | 40655 | 900 | 368020.00 | 169.2 |
| Blackgram | 1265 | | | 1265 | 750 | 48282 | | | 48282 | 1200 | 588871.50 | 256. |
| Groundnut | 703 | | | 703 | 1800 | | 2909 | | 2909 | 3125 | 103560.25 | 41.4 |
| Sesamum | 2250 | | | 2250 | 490 | 3406 | | | 3406 | 550 | 29758.00 | 13.6 |
| Castor | 725 | | | 725 | 950 | | 452 | | 452 | 750 | 10277.50 | 3.6 |
| Rapeseed and Mustard | | | | | 0 | 263 | | | 263 | 500 | 1315.00 | 0.4 |
| Soyabean | | | | 0 | 1050 | | | | 0 | | 0.00 | 0.0 |
| Cotton | 195000 | | | 195000 | 650 | | | | 0 | | 1267500.00 | 513.3 |
| Tobacco | | | | | 0 | | 5394 | | 5394 | 3200 | 172608.00 | 215. |
| Sugarcane | 445 | | | 445 | 84150 | | | | 0 | | 374467.50 | 8.2 |
| Total :- | | | | | | | | | | | | 3928.3 |

| Crop | Critical Gaps identified | Interventions proposed to bridge the gaps |
|-------|---|---|
| | 27 | 28 |
| Paddy | Lack of awareness on soil health | Creating awareness on soil health through soi testing |
| | Non application of organic manure | Awareness on use of FYM, supply of green manure seed & organic inputs |
| | Seed treatment with bio fungicides is not followed | Awareness on use of Bio fungicides for seed treatment |
| | Using high seed rate | Awareness trainings on use of recommended seed rate |
| | Optimum plant population not followed | Encouraging SMSRI and Direct seeding |
| | Application of phosphatic fertilizers as top dressing | Educating the farmers on basal application of phosphatic fertilizer |
| | High cost of cultivation | Supply of Farm machinery, training on ICM practices |
| | Zinc deficiencies not rectified | Supply of micronutrients like Zn and awareness through trainings |
| | Indiscriminate use of pesticides | Awareness on IPM practices |
| | Rodent damage | Trainings and supply of rodenticide on whole village approach |

| Crop | Critical Gaps identified | Interventions proposed to bridge the gaps |
|--------|---|--|
| | 27 | 28 |
| Cotton | lack of awareness on soil health | Creating awareness on soil health through soil testing |
| | Non application of organic manure | Awareness on use of FYM, supply of green manure seed & organic inputs |
| | | Awareness on use of Bio fungicides for seed treatment |
| | | Educating the farmers on basal application of phosphatic fertilizer |
| | High cost of cultivation | Supply of Farm machinery, training on ICM practices |
| | Indiscriminate use of pesticides | Awareness on IPM practices |
| | Refugee crop not followed in RT. COTTON. | Awareness on advantages of growing refugee crop. |
| | | Supply of micronutrients like Boron & Mg and awareness through trainings |
| | Increasing incidence of sucking pests including Mealy Bugs due to mono cropping | Awareness on growing intercrops like Green gram, Black gram, Cluster bean, soybean to facilitate multiplication of natural enemies for controlling sucking pests |

| Crop | Critical Gaps identified | Interventions proposed to bridge the gaps | | |
|--------|--|--|--|--|
| | 27 | 28 | | |
| | Lack of awareness on soil health | Creating awareness on soil health through soil testing | | |
| | Non application of organic manure | Awareness on use of FYM, supply of green manure seed & organic inputs | | |
| d nut | Seed treatment with bio fungicides is not followed | Awareness on use of Bio fungicides for seed treatment | | |
| Ground | Using high seed rate | Awareness trainings on use of recommended seed rate | | |
| 3 | High cost of cultivation | Supply of Farm machinery, training on ICM practices | | |
| | Non adoption of Gypsum application | Application of Gypsum before Peg penetration for improving quality | | |

| Crop | Critical Gaps identified | Interventions proposed to bridge the gaps |
|-------|--|---|
| | Non adoption of Seed treatment with Bio fertilisers | Seed treatment with PSB |
| 0 | Indiscriminate use of Fertilisers. | Create awareness for application of fertilisers as per soil test results. |
| Maize | Improper water management practices. | Create awareness on integrated water management practices. |
| | Improper control measures for control of stem borer | Taking control measures for stem borer by application of insecticides 10 days after sowing and 22 DAS. And IPM practices. |

| Crop | Critical Gaps identified | Interventions proposed to bridge the gaps |
|-------|--|--|
| | Non adoption of Seed treatment with Bio fertilisers | Seed treatment with PSB |
| Jowar | Improper water management practices. | Giving irrigations at critical stages. |
| | Improper management practices for control of stem borer. | Application of insecticides for control of stem borer during early stages of crop. |

| Crop | Critical Gaps identified | Interventions proposed to bridge the gaps |
|----------|--|--|
| | Lack of awareness on soil health | Creating awareness on soil health through soil testing |
| Red gram | Non adoption of Seed treatment with Bio fungicides | Awareness on use of Bio fungicides for seed treatment |
| Red | Maruka Pod borer damage | Need based plant protection measures |
| | Wilt problem | Seed treatment and crop rotation to be followed |

| Crop | Critical Gaps identified | Interventions proposed to bridge the gaps |
|------------|---|---|
| - | Non Adoption of Seed treatment with Bio fertilisers | Seed treatment with Rhyzobium culture. |
| Green Gram | Non usage of sprinkler irrigation | Awareness on Light irrigations with sprinklers at 30 day and 55 days of crop. |
| 6 | Improper control of Maruka . | Create awareness on integrated pest management practices. |

| Crop | Critical Gaps identified | Interventions proposed to bridge the gaps |
|-----------|------------------------------------|--|
| | Maruka pod borer damage | Need based plant protection measures |
| | Wilt problem | Soil application of biofungicides along with FYM |
| Blackgram | Incidense of Yellow mosaic virus | Awareness on IPM practices to manage sucking pests and YMV resistant varieties |
| ä | Lack of awareness on biopesticides | Trainings on uses of biopestides like neem oil |
| | Leaf spot diseases | Need based plant protection measures |
| | Indiscriminate use of pesticides | Awareness on IPM practices |

| Crop | Critical Gaps identified | Interventions proposed to bridge the gaps |
|-------------|----------------------------------|---|
| Ē | wilt problem | Basal application of T.viridi |
| Bengal gram | high seed rate | Use of optimum seed rate |
| Bei | non practicing of seed treatment | Seed treatment with TV/Rhizobium |

| | Gross | Value | | | Strategies | to be Adopt | d for achiev | ing Double Digit Growth | | | |
|-------------------------------------|----------------------------|-------------------------|-----------------------|-----------------------------------|-----------------------|------------------------------|--|---|-------------------|--------------------------------|-------------|
| | (Rs. In | Crores) | | Inputs Re | quired | | Awareness | Farm Power | | | |
| Greengram Blackgram Groundnut | Existing Gross Value | Targeted Gross Value | Name of the Inputs | Quantity required (in MTs.) | Unit Cost (in Rs.) | Total Cost (Rs. In lakhs) | Creation through Chandranna Rythu Kshetrams proposed (each 10 Ha.) | Items required Under different Categories | Physical (No.) | Financial (Rs. In Lakhs) | Remar ks |
| | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 |
| Paddy | 1455.95 | 1447.16 | Zypsum | 3000 | 1527 | 45.81 | | Tractor Drawn implements | 1285 | 190 | |
| Jowar | 207.46 | 183.90 | ZnSO4 | 3900 | 17700 | 690.3 | | Impoved Farm Machinery | 25 | 35 | |
| Bajra | 1.72 | 2.03 | Boron | 50 | 40800 | 20.4 | | Rotovators | 536 | 268 | |
| Ragi | 0.05 | 0.35 | T. viridi | 30 | 100000 | 30 | | Harvesters | 40 | 400 | |
| Maize | 704.32 | 985.46 | Psuedo monos | 1.5 | 150000 | 2.25 | | Plant Protection Equipment (Power operated) | 5000 | 370 | |
| Redgram | 27.66 | 32.43 | Dhaincha | 800 | 15430 | 123.44 | | Diesel Engines | 2500 | 450 | 11.63% |
| Bengalgram | 45.88 | 55.04 | Sunhemp | 200 | 20880 | 41.76 | | Power Tillers | 20 | 20 | e - 1. |
| Greengram | 153.17 | 169.29 | Pillipesara | 250 | 28980 | 72.45 | | Tarpaulins | 8000 | 98 | rowth |
| Blackgram | 174.97 | 256.16 | | | | | 185 | Post Harvest Equipment | 370 | 135 | |
| Groundnut | 46.38 | 41.42 | | | | | | Mini Tractors | 30 | 30 | |
| Sesamum | 10.51 | 13.69 | | | | | | Self Propelled Machinery | 80 | 80 | verg |
| Castor | 3.14 | 3.65 | | | | | | Paddy Harvesting Package | 15 | 180 | 0 |
| Rapeseed and Mustard | 0.38 | 0.41 | | | | | | CHC - Cotton | 55 | 165 | |
| Soyabean | 1.04 | 0.00 | | | | | | SMSRI | 4 | 80 | |
| Cotton | | | | | | | | | | | |
| Tobacco | 216.68 | 215.76 | | | | | | | | | |
| Sugarcane | 8.69 | 8.24 | | | | | | | | | |
| Total :- | 3517.70 | 3928.32 | | | | 1026.41 | | | | 2501 | |

THAN_O

DEPARTMENT OF AGRICULTURE



JOINT DIRECTOR OF AGRICULTURE KADAPA DIST

Double Digit Growth

Action Plan for the year 2015-16

Double Digit Growth

To achieve the "Double Digit Growth" one should

➤ Identify the GAPS which actually hindering to maximize the productivity.

| PADDY | | | | | | | |
|---|--|--|--|--|--|--|--|
| GAP | INTERVENTIONS | | | | | | |
| | Productivity enhancement interventions | | | | | | |
| Deficit Organic matter in the Soil | Pillipesera, Daincha, sunhemp | | | | | | |
| Usage of old varieties | NDLR-8, NDLR-7, NLR 34449 | | | | | | |
| Imbalanced use of Chemical fertilizers | Soil test based fertilizer usage | | | | | | |
| Imbalanced use of micro nutrients | Zinc, Boron, Gypsum | | | | | | |
| Improper water management | Effective water management, | | | | | | |
| | Cost reduction interventions | | | | | | |
| | i) Line sowing | | | | | | |
| Non maintenance of optimum plant population and following | ii) Drum Seeding | | | | | | |
| traditional way of transplanting methods | iii) SMSRI | | | | | | |
| Indiscriminate use of Pesticides | IPM Practices for control of Pests, Diseases, Weeds and, Alley formation | | | | | | |
| Farm Mechanization | Mechanization through Rotovators, Transplanters, Harvesters and Driers | | | | | | |
| Interv | entions to bring additional area into cultivation | | | | | | |
| Repair to the minor & medium | tanks and irrigation canals and efficient water management | | | | | | |

GAP INTER

| GAP | INTERVENTIONS |
|---|--|
| Productivity enhancement in | nterventions |
| Refugee border crop not maintained in BT Cotton | Refugee crop with non BT Seed or Redgram seed, |
| Intercropping not fallowed | Encourage intercropping with redgram, Castor crop on boundaries. |
| Imbalanced use of micro nutrients | Zinc, Boron ,Magnesium |
| Improper water management | Efficient water management |
| Traditional cultivation methods followed | Encouraging high density planting system . |
| Cost reduction interventions | 5 |
| Imbalanced use of Chemical fertilizers | Soil test based fertilizer usage |
| Indescriminate use of Pesticides | IPM Practices for control of Pests, Diseases, Weeds and Stem application method, Traps and lures usage |
| Farm Mechanization | Mechanization, Cotton harvesters |
| | |

GROUND NUT

| GROOMP HOT | | | | | | | | |
|---|--|--|--|--|--|--|--|--|
| INTERVENTIONS | | | | | | | | |
| nt interventions | | | | | | | | |
| K-9, Dharani, TAG-24,ICGV-91114 | | | | | | | | |
| Intercropping with Redgram,Fieldbean | | | | | | | | |
| Gypsum,Zinc, Boron | | | | | | | | |
| Effective water management through Sprinklers and Form Ponds | | | | | | | | |
| ions | | | | | | | | |
| IPM Practices for control of Pests, Diseases, Weeds,Border crop with Jowar | | | | | | | | |
| Mechanization | | | | | | | | |
| | | | | | | | | |

PULSES

| GAP | INTERVENTIONS |
|-------------------------------------|--|
| Productivity enhanceme | nt interventions |
| Usage of old varieties | Jaki-9218,ICPL-85063,ICPH-2740,PRG- 158,BDN-711,PU 31, LBG 752, LGG 460 |
| Imbalanced use of micro nutrients | Zinc,Boron,Gypsum |
| Improper water management | Effective water management through Sprinklers and Form Ponds |
| Cost reduction intervent | tions |
| Indescriminate use of Pesticides | IPM Practices for control of Pests, Diseases, Weeds, |
| Farm Mechanization | Mechanization, Multicrop threshers |

| SI. No | Crop | Area (ha) | | Area - | Non- target area | Yield (kg/ha) | | | Produc tion(MT) | | Produc t value (Rs in Cr.) | | |
|--------|----------------|---------------|-------------|--------|------------------------|------------------|--------------------|--------|------------------------|--------|-------------------------------------|-------------|------------------|
| | | | 2015- 16 | ha | | 2014- | 2015-16 (target | target | | | | 2015- 16 | % increa e |
| 1 | 2 | | | | | 5 | | 6 | 7 | | 9 | 11 | |
| | Rice | 56563 | | 15000 | 42805 | 3115 | 3894 | 3115 | 176194 | | 423 | 460 | |
| | Jowar | 14880 | | 3000 | 7736 | | | | | | 37 | 29 | |
| | Bajra | 2889 | 4020 | 1500 | 2520 | 2050 | 2563 | | 5922 | 9010 | 8 | 13 | |
| | Maize | 3299 | 4298 | 3000 | 1298 | 4500 | 5625 | 4500 | 14846 | 22716 | 22 | 33 | 5 |
| | Redgra m | 2367 | 10550 | 4000 | 6550 | 121 | 242 | 121 | 286 | 1761 | 2 | 10 | 51 |
| | Blackgr am | 6486 | 7687 | 2000 | 5687 | 585 | 731 | 585 | 3794 | 4789 | 24 | 30 | |
| | Bengal gram | 68164 | 94500 | 20000 | 74500 | 595 | 744 | 595 | 40558 | 59203 | 158 | 231 | |
| | Greeng ram | 4200 | 4355 | 1000 | 3355 | 625 | 781 | 625 | 2625 | 2878 | 12 | 14 | |
| | Ground nut | 26988 | 68949 | 25000 | 43949 | 1250 | 1563 | 1250 | 33735 | 93999 | 165 | 461 | 1 |
| | Sunflo wer | 15901 | 29800 | 10000 | 19800 | 615 | 769 | 615 | 9779 | 19865 | 38 | 76 | 10 |
| 11 | Sesamu m | 15326 | 14950 | 4000 | 10950 | 475 | 594 | 475 | 7280 | 7576 | 39 | 41 | |
| 12 | Castor | 686 | 1500 | 200 | 1300 | 510 | 638 | 510 | 350 | 791 | 1 | 3 | 13 |
| | Sugarc ane | 373 | 374 | 0 | 374 | 68500 | 85625 | 68500 | 25551 | 25619 | 6 | 6 | |
| 14 | Cotton | 35127 | 35320 | 10000 | 25320 | 550 | 688 | 550 | 19320 | 20801 | 78 | 84 | |
| | Total | 253249 | 344844 | 98700 | 246144 | | | | 361458 | 477129 | 1014 | 1491 | |

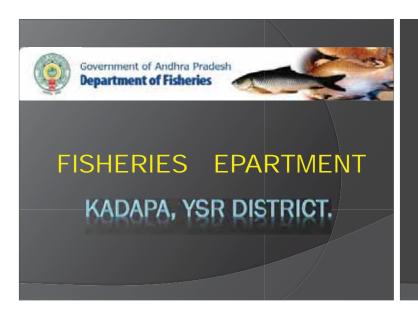
| | TARGETTED AREA, YIELD & PRODUCTION IN RESPECT OF Y.S.R., DISTRICT FOR THE YEAR 2015-16 | | | | | | | | | | |
|-----------|--|-----------------|----------------|--------|---|---|---------------------------|----------------------------|---------------------|--|--|
| S. No. | Crops | Kharif,2015 | Rabi,2015-16 | Total | Anticipated Yield Kharif,2015 in Kgs/Ha | Anticipated Yiled, Rabi,2015-16 in Kgs/Ha | Production Kharif,2015 | Production Rabi,2015-16 | Total Production | | |
| 1 | Rice | 52500 | 5305 | 57805 | 3134 | 3062 | 164535 | 16244 | 18077 | | |
| 2 | Jowar | 4150 | 6586 | 10736 | 2050 | 1410 | 8508 | 9286 | 1779 | | |
| 3 | Bajra | 2500 | 1520 | 4020 | 2250 | 2000 | 5625 | 3040 | 866 | | |
| 4 | Maize | 450 | 3848 | 4298 | 3915 | 6250 | 1762 | 24050 | 2581 | | |
| 5 | Ragi | 10 | 100 | 110 | 1200 | 1000 | 12 | 100 | 112 | | |
| 6 | Minor Millets | 200 | 105 | 305 | 1000 | 1000 | 200 | 105 | 305 | | |
| | Cereals & Millets | 59810 | 17464 | 77274 | | | 180642 | 52825 | 233467 | | |
| 7 | Redgram | 10500 | 50 | 10550 | 400 | 900 | 4200 | 45 | 4245 | | |
| 8 | Bengalgram | 0 | 94500 | 94500 | | 1200 | 0 | 113400 | 113400 | | |
| 9 | Greengram | 605 | 3750 | 4355 | 750 | 700 | 454 | 2625 | 3079 | | |
| 10 | Blackgram | 817 | 6870 | 7687 | 750 | 800 | 613 | 5496 | 610 | | |
| 11 | Horsegram | 640 | 3000 | 3640 | 550 | 550 | 352 | 1650 | 2002 | | |
| 12 | Other Pulses | 950 | 980 | 1930 | 900 | 1100 | 855 | 1078 | 1933 | | |
| | Total Pulses | 13512 | 109150 | 122662 | | | 6474 | 124294 | 130768 | | |
| | FOOD GRAINS | 73322 | 126614 | 199936 | | | 187116 | 177119 | 364235 | | |
| 13 | Groundnut | 55848 | 13101 | 68949 | 650 | 2250 | 36301 | 29477 | 65778 | | |
| 14 | Sesamum | 450 | 14500 | 14950 | 400 | | 180 | 6960 | 7140 | | |
| 15 | Sunflower | 1800 | 28000 | 29800 | 600 | 800 | 1080 | 22400 | 23480 | | |
| 16 | Saflower | 120 | 350 | 470 | 1000 | 1000 | 120 | 350 | 470 | | |
| 17 | Castor | 1500 | 0 | 1500 | 500 | | 750 | 0 | 750 | | |
| | Oilseeds | 59718 | 55951 | 115669 | | | 38431 | 59187 | 97618 | | |
| 18 | Chillies | 550 | 120 | 670 | 3900 | 12250 | 2145 | 1470 | 3615 | | |
| 19 | Cotton | 34500 | 820 | 35320 | 608 | | 123388 | 3376 | 12676 | | |
| 20 | Onion | 2560 | 650 | 3210 | 19200 | 13320 | 49152 | 8658 | 57810 | | |
| 21 | Sugarcane | 374 | | 374 | 78500 | | 29359 | 0 | 29359 | | |
| 22 | Turmeric | 3480 | | 3480 | 9000 | | 31320 | 0 | 31320 | | |
| | TOTAL | 41464 174504 | 1590 184155 | 43054 | | | 235364 | 13504 | 248868 | | |

| l. No | Component | Crop | Variety | Units | Quantity required | Covering schemes |
|-------|----------------------|---------------|-------------|-------|-------------------|----------------------|
| 1 | | | K-6 | Qtls | 38000 | |
| 2 | | Groundnut | K-9 | Qtls | 5000 | |
| 3 | | Grounding | Dharani | Qtls | 2000 | |
| 4 | | | Narayani | Qtls | 2000 | |
| 5 | | Redgram | LRG-41 | Qtls | 3000 | |
| 6 | | neugiaiii | ICPL-85063 | Qtls | 200 | |
| 7 | | | JGL-1798 | Qtls | 100 | |
| 8 | | Paddy | JGL-3844 | Qtls | 200 | Seed supply plan |
| 9 | | rauuy | NLR-34449 | Qtls | 5000 | |
| 10 | Seed | | NLR-33892 | Qtls | 500 | |
| 11 | seeu | Greengram | LGG-460 | Qtls | 400 | |
| 12 | | Castor hybrid | | Qtls | 100 | |
| 13 | | Greenmanure | Daincha | Qtls | 15000 | |
| 14 | | | Sunhemp | Qtls | 3000 | |
| 15 | | | Pillipesara | Qtls | 1000 | |
| 16 | | Redgram | ICPH-2740 | Qtls | 200 | |
| 17 | | | PRG-158 | Qtls | 100 | |
| 18 | | Bengalgram | JAKI-9218 | Qtls | 1000 | NFSM & NMOOP |
| 19 | | Castor | PCH-111 | Qtls | 200 | |
| 20 | | Groundnut | ICGV-91114 | Qtls | 360 | |
| 21 | Water Carrying Pipes | | | No.s | 1200 | |
| 22 | Sprinklers | | | No.s | 950 | |
| 23 | Vermi-Hatcheries | | | No.s | 25 | NFSM, NMOOP & RKV |
| 24 | Portable veri-beds | | | No.s | 1000 | |
| 25 | Tarpaulin sheets | | | No.s | 6000 | |
| 26 | Zinc Sulphate | | | MTs | 385 | NFSM. NMOOP. Micro |
| 27 | Boran | | | MTs | 40 | Plan & Bhuchetana |
| 28 | Gypsum | | | MTs | 3134 | rian & biluciletalia |

Budget details

| SI. No. | Scheme | Scheme details | Budget relo achievements Cro | in 2014-15 in | Projected budget requirement for |
|---------|------------------------|--------------------|------------------------------------|---------------|-------------------------------------|
| | | | Releases | Achieved | 2015-16 in Crores |
| 1 | NMOOP | Oilseeds | 2.87 | 2.14 | 2.97 |
| 2 | NFSM-Rice | Rice | 1.38 | 0.53 | 1.2 |
| 3 | NFSM-Pulses | Pulses | 2.43 | 1.72 | 3.2 |
| | | NSP | | 3.36 | 6.1 |
| 4 | Farm Mechanization | RKVY | 7.51 | 0.9 | 2.4 |
| | | SMAM | | 0.39 | 0.76 |
| 5 | RKVY (Organic | Portable vermibeds | 0.38 | 0.38 | 0.45 |
| 3 | Farming) | Vermihatcheries | 0.15 | 0.15 | 0.5 |
| 6 | Seed Village Scheme | Subsidy | 0.6 | 0.501 | 1.16(Pending bills of 2014-15) |
| | | Transportation | 0.6 | 0.591 | 0.0275(Pending bills of 2014-15) |

THANK YOU!



RESOURCES

1. Available water sourses:-

| S.No. | | No. of Water Sources | EWSA (Ha) |
|-------|-------|-------------------------|------------|
| 1 | Та | 1 .I. Ta | 1 30 .5 ta |
| | | 3 0 Ta | 1 8 .50 ta |
| | Total | 5 1 Ta | 1 181.0 ta |
| | 0 | 0 о | 111 .00 ta |
| 3 | a o | 1 | 1 |
| | Total | 5 | 1 8.0 ta |

Total No. of Mandals on Kadapa dt. - 51

Total Fish Seed Farms - 03

Total Rivers - Penna, Chitravathi, Papagni, Kundu, Cheyuru, Bahuda

2. Present status of Fish Production during the year 2014-15

| S. No. | No. of Water Sources | EWSA (HA) | Production (tonnes) | Productivity |
|-----------|-------------------------|-----------|---------------------|--------------|
| 1 | 1 Ta | 1 5 ta | 5 To | 5 a |
| | 3 0 | 103 ta | 5 1 To | 50 a |
| 3 | | | 101 To | |
| | Total | 11 3 ta | 3 To | 80 a |

3. Anticipated Fish Production Target during the year 2015-16

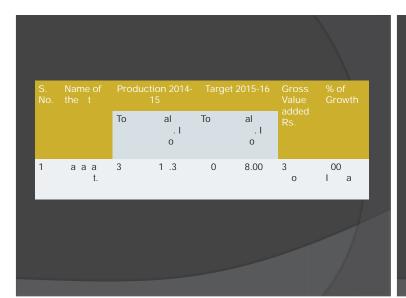
| | No. of Water Sources | EWSA (HA) | Production (tonnes) | Producti | vity |
|---|-------------------------|---------------|---------------------|----------|------|
| 1 | 1 .l. Ta | 1 30 .5 ta | | | |
| | 3 0 Ta | 1 8 .50 ta | 5 5 To | 351 | а |
| | 11 o | 13 5 ta | 3 11 To | i | a |
| | Total | 53.0 ta | 0 То | 3 a | |

4. Strategy to increse Fish Production

| | | | | Budget requirement |
|---|-----------------------------|---------------|-----|-----------------------|
| 1 | I to a tt o t | lt o | 100 | |
| | to a a | I ta | 100 | |
| 3 | o t to o o a o t o to | at a ta t | 150 | |
| | o oto o "GIFT" Tilapia | 1 | 150 | |
| 5 | Ta o 5 o o t | o It 000TT | | |
| | | | | |

5. Inland fish and prawn production details in M.T.

| S.No. | Name of the ist. | Variety | Achieve ment 2014-15 | Target 2015-16 | ifferen ce in product ion in tonnes | % Growth |
|-------|------------------------|-----------|----------------------------|-------------------|---|-------------|
| 1 | a a a t t | I la | 3 To | 0 To | 33 To | 1 5 |
| | | at a a | l . | 50 To | 50 To | 100 |



- (1) A I M: TO ACHIEVE 2 DIGITAL GROWTH RATE.
- (2) POSSIBILITIES:
 - 1) To bring additional area under Fish culture ie. Fishery wealth in completed reservoirs will be transferred to fisheries department for enhancement of fish production.
 - Annamayya Project
 Buggavanka Project
 Veligallu Project
 Gandikota Project
 Jerrikona Project

 - 2) The production and productivity can be increased by using new techniques
 - a) Introduction of Cage culture in Major reservoirs.
 - b) Introduction new culture specie i.e. gift Tilapia for short seasonal
 - c) Setting of fibre marts in municipalities for increasing the fish consumption.

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ACTION PLAN
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HORTICULTURE-YSR DISTRICT

PRIMARY SECTOR MISSION-2015-16

Growth Engines

Banana Papaya Tomato Chillies

PRIMARY SECTOR MISSION (HORTICULTURE)- 2015-16

Growth Engines to achieve Double digit growth at the end of 2015-16

Name of the istrict: YSR istrict

| | | | | 2014-15 | | | | 2 | 015-16 | | | |
|----------|-------------------|--------------|-------------------------------------|-------------------------------|-----------------------|---------------------------|-------|-------------------------------------|-------------------------------|--------------------|--|--|
| S. No | Growth Engines | Area (Ha) | Producti vity (tonne/ ha.) | Productio n (in Tonnes) | Price per Tonne | GVA (in Crores) | Area | Produc tivity (tonne /ha.) | Productio n (in Tonnes) | GVA (in Crores) | | |
| 1 | Banana | 11000 | 60 | 660000 | 12000 | 792.00 | 13000 | 62.5 | 812500 | 975.00 | | |
| 2 | Tomato | 7000 | 38 | 266000 | 8000 | 212.80 | 8500 | 40 | 340000 | 272.00 | | |
| 3 | Papaya | 2320 | 75 | 174000 | 10000 | 174.00 | 2500 | 75 | 187500 | 187.50 | | |
| 4 | Chillies | 757 | 4 | 3028 | 70000 | 21.20 | 2000 | 5 | 9785 | 68.50 | | |
| | Total | 21077 | | 1103028 | | 1200 | 26000 | | 1349785 | 1503.00 | | |

PRIMARY SECTOR MISSION (HORTICULTURE)- 2015-16

Percentage of Growth and GVA (in Crores) at constant prices

Name of the istrict: YSR istrict

| | | 2014-15 | 2015-16 | |
|------------|----------------|------------------------|--------------------|-----------------|
| S1. No. | Growth Engines | GVA (in Crores) | GVA (in Crores) | % Growth in GVA |
| 1 | Banana | 792.00 | 975.00 | 23.1 |
| 2 | Tomatoes | Tomatoes 212.80 272.00 | | 27.8 |
| 3 | Papaya | 174.00 | 187.50 | 7.8 |
| 4 | Chillies | es 21.20 68.50 | | 223.2 |
| | Total | 1200.0 | 1503.0 | 25.3 |

DEPARTMENT OF HORTICULTURE

Activities and Strategies

Growth Engine –Banana

Area Expansion Tissueculture Plants IPM INM Capacity building



DEPARTMENT OF HORTICULTURE

Activities and Strategies

Growth Engine - Papaya

Area Expansion
IPM
INM
Capacity building
Mass production &
release of predators
against mealy bug



DEPARTMENT OF HORTICULTURE

Activities and Strategies

Growth Engine –Tomato

Seedlings Trellies Mulching IPM INM

Capacity building

Special package for SATLM



DEPARTMENT OF HORTICULTURE

Activities and Strategies

Growth Engine –Chillies

Seedlings IPM INM Capacity building



| | | P | PRIMA | RY SE | СТО | R M | ISSI | NC | (HOF | RTICU | ILTU | RE) | - 201 | 5-16 |) | |
|-----------------------------|---|----|--------|-----------------------|---------------------------|-------------|---------------------------|-------------|--|----------|-------------------------------|---------|---------------------------|--------------|---------------------------|---------|
| Budget Requirement Proposal | | | | | | | | | | | | | | | | |
| Na | me of t | he | istric | t : YS | R is | tric | t | | | | | | | | | |
| SI. No | SI. Name of the Junits Area Financial Rudget requirement (Re. In Leides) | | | | | | | | Total Budg Requirement (Rs. In Lakhs) | | | | | | | |
| 1 | 2 | 3 | 4 | | | | | | | 5 | | | | | | 6 |
| | | | | Area Expansio n | Budget Require ment | IPM (Ha) | Budget Requir ement | INM (Ha) | Budget Require ment | Seedling | Budge t Requir ement | Trellie | Budget Requir ement | Mulchi ng | Budget Require ment | |
| 1 | T.C. Banana | На | 2000 | 2000 | 614.78 | 2000 | 24.00 | 2000 | 24.00 | 0 | 0 | 0 | 0 | 0 | 0 | 662.78 |
| 2 | Papaya | На | 180 | 180 | 44.392 | 1000 | 12.00 | 1000 | 12.00 | 0 | 0 | 0 | 0 | 0 | 0 | 68.39 |
| 3 | Tomato | На | 1500 | 0 | 0 | 300 | 3.60 | 0 | 0 | 1500 | 90 | 420 | 78.75 | 100 | 16 | 188.35 |
| 4 | Red Chillies | На | 1200 | 0 | 0 | 1200 | 14.40 | 1200 | 14.40 | 1200 | 72 | 0 | 0 | 0 | 0 | 100.80 |
| | | | | | | | | | | | | | | Тс | otal | 1028.32 |

Crop wise Action Plan for Micro irrigation

| SI.No | Name of the Crop | Area Proposed in ha |
|-------|------------------|---------------------|
| 1 | Vegetables | 830 |
| 2 | Chillies | 520 |
| 3 | Banana | 2800 |
| 4 | Papaya | 540 |
| 5 | Turmeric | 120 |
| 6 | Flowers (Open) | 100 |
| 7 | Sugarcane | |
| 8 | Cotton | 860 |
| 9 | Maize | |
| 10 | Acid Lime | 160 |
| 11 | Pomegranate | 100 |
| 12 | Sweet Orange | 420 |
| 13 | Mango | 600 |
| 14 | Betelvine | 75 |
| 15 | Groundnet | 1000 |
| 16 | Onion | 100 |
| 17 | Tomato | 2000 |
| 18 | Others | 125 |
| | Total | 10250 |
| | Budget | 80,00,00,000 |
| | | 9 |

HORTICULTURE-YSR DISTRICT PRIMERY SECTOR MISSION 2015-16

Issues

- Assistance on Farmponds may be increased to 75% to 90%.
- Permission to implement area expansion with existing drip system.
- Subsidy on seedlings for Tomato, Chillies etc.
- Assistance on IPM&INM may be enhanced to 50%@Rs2500/ha.

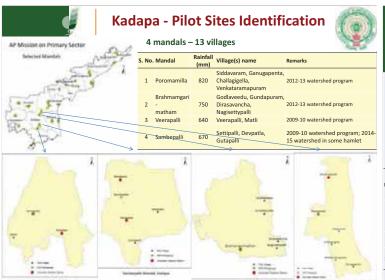


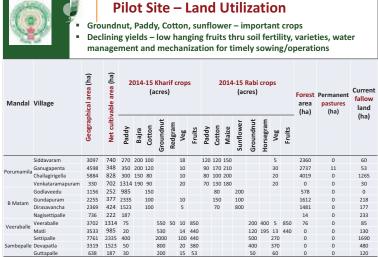


I ICRISAT

Summary of value addition in Kadapa Pilot site

| S. No. | Sector | Value added (Crores) |
|-----------|-----------------------------|-------------------------|
| 1 | Agriculture | 9.24 |
| 2 | Milk | 3.67 |
| 3 | Meat | 2.66 |
| 4 | Egg | 0.05 |
| 5 | Fisheries | 0.06 |
| 6 | Vegetables | 3.37 |
| 7 | Rejuvenation of plantations | 0.31 |
| | Total | 19.36 |

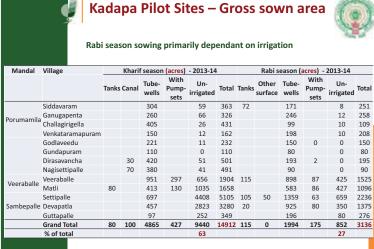




97% holdings having less than 5 ha and operating on 88% area Total holdings Small holdings Marginal & Semi-Medium Medium Large holdings Village holdings holdings Mandal Area Area Area Area No. No. No. No. No (acres) (acres) Siddavaram Ganugapenta Porumamila Challagirigella Venkataramapuram Godlaveedu Gundapuram B.Matam Dirasavancha Nagisettipalle Veeraballe Matli Settipalle ambepalle Devapatla Guttapalle **Grand Total** 11246 34991 9266 19802 1686 10950

% of total

Kadapa Pilot Sites - Farm Holdings



Kadapa Pilot Sites – Livestock

Constraints: Lack of adequate & nutrious fodder, improper feeding schedule; Low yielding breeds, Animal health issues, Markets

| Mandal | Village | Breedable cattle | Breedable buffaloes | Total | Animal in milk | Sheep | Goat | Poultry birds | Fish | eries |
|------------|-----------------|------------------|---------------------|-------|-------------------|-------|-------|------------------|------|----------------|
| | | | | | | | | | No | Area (acre) |
| Porumamila | Siddavaram | 5 | 832 | 837 | 374 | 2874 | 411 | 886 | 1 | 63 |
| Porumamiia | Ganugapenta | 12 | 783 | 795 | 331 | 2499 | 964 | 1463 | | |
| | Challagirigella | 0 | 1025 | 1025 | 441 | 1144 | 921 | 1800 | | |
| | Venkataramapur | | | | | | | | | |
| | am | 20 | 398 | 418 | 154 | 4060 | 464 | 766 | 1 | 30 |
| | Godlaveedu | 0 | 211 | 211 | 111 | 3608 | 162 | 514 | | |
| BMatam | Gundapuram | 0 | 25 | 25 | 18 | 773 | 100 | 87 | | |
| DIVIALATII | Dirasavancha | 0 | 528 | 528 | 278 | 6109 | 888 | 1990 | | |
| | Nagisettipalle | 10 | 344 | 354 | 235 | 1881 | 135 | 603 | 1 | 28 |
| Veeraballe | Veeraballe | 369 | 250 | 619 | 480 | 6055 | 1979 | 14927 | 2 | 262 |
| | Matli | 587 | 746 | 1333 | 569 | 6429 | 2436 | 9047 | 1 | 45 |
| Sambepalle | Settipalle | 1638 | 116 | 1754 | 824 | 18083 | 1641 | 8818 | | |
| | Devapatla | 1130 | 155 | 1285 | 1021 | 25374 | 245 | 4447 | | |
| | Guttapalle | 267 | 70 | 337 | 247 | 1918 | 129 | 620 | | |
| | Grand Total | 4038 | 5483 | 9521 | 5083 | 80807 | 10475 | 45968 | 6 | 427 |



- Soil test-based application of secondary- & micro- nutrients (6400 ha)
- Improved varieties (6400 ha)
- Seed production
- Landform management
- Sowing of kharif (500 ha) and rabi (200 ha) fallows
- Mechanization through CHCs (4 new)
- Recycling of on-farm wastes to make quality composts pilot (100 no)
- Wastewater recycling agriculture pilot (1 no)
- Capacity building in best agricultural practices (~120 no)

| Mandal | al Crop Extent \ | | Variety + Soil test-based sec & micronutrients | Tergeted area (ha) | Present Productivity Kgs/ha | Targetted productivity Kg/Ha | Present production in Mts | Present Growth Value Rs in Crores | Increased production (tones) | Additional value (cr) | Trainings | нафрегу | Convergence |
|------------------|------------------|------|--|-----------------------|-----------------------------------|------------------------------------|---------------------------------|--|------------------------------------|-----------------------|-----------|---------|------------------------------------|
| Porumamilla | Paddy | 419 | NLR-3449, NDLR-7, NDLR-8 | 269 | 3115 | 3894 | 1305 | 2.87 | 209.48 | 0.46 | 9 | 1 1 | pu |
| T OT GITTIGHTHIG | Cotton | 258 | Bt-II Hybrids | 258 | 550 | 687.5 | 141.9 | 0.60 | 35.475 | 0.15 | 6 | | a au |
| B.Mattam | Paddy | 1060 | NDLR-7, NDLR-8, NLR-3449 | 700 | 3115 | 3894 | 3302 | 7.26 | 545.13 | 1.20 | 18 | į. | 2 E |
| Dilviottoiii | Cotton | 141 | Bt-II Hybrids | 141 | 550 | 687.5 | 77.55 | 0.33 | 19.388 | 0.08 | 3 | | OF, KKV T, F. Bhucheta mbadi |
| | Paddy | 595 | NLR-3449, NDLR-8 | 325 | 3115 | 4828 | 1853 | 4.08 | 556.81 | 1.22 | 15 | 9 | tion, Bhuch |
| Veeraballi | Ground nut | 487 | K-6, K-9, Dharani | 487 | 1250 | 1563 | 608.8 | 2.74 | 152.19 | 0.68 | 12 | 1 1 | |
| | Redgram | 490 | ICPL-85063, ICPH-2740, LRG-41 | 400 | 121 | 242 | 59.29 | 0.40 | 48.4 | 0.33 | 12 | | - ro |
| | Paddy | 140 | NLR-3449, NDLR-8 | 140 | 3115 | 3894 | 436.1 | 0.96 | 109.03 | 0.24 | 3 | | a La |
| Sambepalli | Ground nut | 5750 | K-6, K-9, Dharani | 3125 | 1250 | 1563 | 7188 | 32.3 | 976.56 | 4.39 | 24 | 1 1 | 당 |
| | Redgram | 570 | ICPL-85063, ICPH-2740, LRG-41 | 570 | 121 | 242 | 68.97 | 0.47 | 68.97 | 0.47 | 15 | | Σ |
| Total | | 9910 | | 6415 | 16302 | 21494 | 15041 | 52.1 | 33303 | 9.24 | | | |



2015 Plan of Action - AH - Milk

- Fodder (Jowar, Bajra, maize) promotion: 500 ha [District level: 8800 ha to 12000 ha]
 "Silage: ~2 in each pilot village i.e. ~26 total [District level: 100 units 1 to 2 per mandal]
- Health camps deworming/vaccination of 70% livestock; AI of 10% livestock
- Concentrated feed for 6 months (~2000 livestock)
- CB ~4000 farmers

| Village | Milk production | | | | | | | |
|------------------|-----------------|---------------|------------------|--|--|--|--|--|
| | 2014-15 (ltr) | 2015-16 (ltr) | Value added (Rs) | | | | | |
| Siddavaram | 409530 | 491436 | 2702898 | | | | | |
| Ganugapenta | 362445 | 434934 | 2392137 | | | | | |
| Challagirigella | 482895 | 579474 | 3187107 | | | | | |
| Venkataramapuram | 168630 | 202356 | 1112958 | | | | | |
| Godlaveedu | 121545 | 145854 | 802197 | | | | | |
| Gundapuram | 19710 | 23652 | 130086 | | | | | |
| Dirasavancha | 304410 | 365292 | 2009106 | | | | | |
| Nagisettipalle | 257325 | 308790 | 1698345 | | | | | |
| Veeraballe | 525600 | 630720 | 3468960 | | | | | |
| Matli | 623055 | 747666 | 4112163 | | | | | |
| Settipalle | 902280 | 1082736 | 5955048 | | | | | |
| Devapatla | 1117995 | 1341594 | 7378767 | | | | | |
| Guttapalle | 270465 | 324558 | 1785069 | | | | | |
| Total | 5565885 | 6679062 | 36734841 | | | | | |
| | | | 3.67 crores | | | | | |



2015 Plan of Action – AH - Meat

- Deworming twice in a year (100% livestock)
- *Sheep & goat distribution (5+1 Ram) = 65 units (thru bank finance + 25% incentive
- ■CB

| Village | S | heep m | eat | | Goat m | eat | P | oultry r | neat | Total value | |
|------------------|-----------------|-----------------|---------------------|-----------------|-----------------|---------------------|-----------------|-----------------|---------------------|-------------|--|
| | 2014-15 (kg) | 2015-16 (kg) | Value added (Rs) | 2014-15 (kg) | 2015-16 (kg) | Value added (Rs) | 2014-15 (kg) | 2015-16 (kg) | Value added (Rs) | added (Rs) | |
| Siddavaram | 14226 | 16360 | 853578 | 1562 | 1796 | 93708 | 498 | 548 | 4984 | 952270 | |
| Ganugapenta | 12370 | 14226 | 742203 | 3663 | 4213 | 219792 | 823 | 905 | 8229 | 970224 | |
| Challagirigella | 5663 | 6512 | 339768 | 3500 | 4025 | 209988 | 1013 | 1114 | 10125 | 559881 | |
| Venkataramapuram | 20097 | 23112 | 1205820 | 1763 | 2028 | 105792 | 431 | 474 | 4309 | 1315921 | |
| Godlaveedu | 17860 | 20539 | 1071576 | 616 | 708 | 36936 | 289 | 318 | 2891 | 1111403 | |
| Gundapuram | 3826 | 4400 | 229581 | 380 | 437 | 22800 | 49 | 54 | 489 | 252870 | |
| Dirasavancha | 30240 | 34775 | 1814373 | 3374 | 3881 | 202464 | 1119 | 1231 | 11194 | 2028031 | |
| Nagisettipalle | 9311 | 10708 | 558657 | 513 | 590 | 30780 | 339 | 373 | 3392 | 592829 | |
| Veeraballe | 29972 | 34468 | 1798335 | 7520 | 8648 | 451212 | 8396 | 9236 | 83964 | 2333511 | |
| Matli | 31824 | 36597 | 1909413 | 9257 | 10645 | 555408 | 5089 | 5598 | 50889 | 2515710 | |
| Settipalle | 89511 | 102937 | 5370651 | 6236 | 7171 | 374148 | 4960 | 5456 | 49601 | 5794400 | |
| Devapatla | 125601 | 144441 | 7536078 | 931 | 1071 | 55860 | 2501 | 2752 | 25014 | 7616952 | |
| Guttapalle | 9494 | 10918 | 569646 | 490 | 564 | 29412 | 349 | 384 | 3488 | 602546 | |
| Total | 399995 | 459994 | 23999679 | 39805 | 45776 | 2388300 | 25857 | 28443 | 258570 | 2,66,46,548 | |
| | | | | | | | | | | 2 66 cr | |



ICRISAT.

2015 Plan of Action - AH - Eggs

- •Vaccination & deworming 100% birds
- •Chick distribution = 45 birds unit to each of 5 farmers in 13 pilot villages

| Village | | Poultry Eggs | |
|------------------|--------------|--------------|------------------|
| | 2014-15 (No) | 2015-16 (No) | Value added (Rs) |
| Siddavaram | 33225 | 36548 | 9968 |
| Ganugapenta | 54863 | 60349 | 16459 |
| Challagirigella | 67500 | 74250 | 20250 |
| /enkataramapuram | 28725 | 31598 | 8618 |
| Godlaveedu | 19275 | 21203 | 5783 |
| Gundapuram | 3263 | 3589 | 979 |
| Dirasavancha | 74625 | 82088 | 22388 |
| Nagisettipalle | 22613 | 24874 | 6784 |
| Veeraballe | 559763 | 615739 | 167929 |
| Matli | 339263 | 373189 | 101779 |
| Settipalle | 330675 | 363743 | 99203 |
| Devapatla | 166763 | 183439 | 50029 |
| Guttapalle | 23250 | 25575 | 6975 |
| Total | 1723800 | 1896180 | 5,17,140 |
| | | | 0.05 cr |



2015 Plan of Action - Fisheries

- Currently no production in 6 ponds in pilot sites
- ■Effective area = 150 ha
- **■**Convergence with MNGREGS

| S. No. | Intervention | Effectiv e Area | Cost (Rs) | Return | Value added (Rs) |
|--------|---|--------------------|--------------|--------|------------------------|
| 1 | Release of 25mm seedlings (Katla, Rohru, Mrugal) after 1 month stocking | 150 ha/ 6 ponds | 300000 | 900000 | 6,00,000 |
| 2 | Capacity-building/awareness | 6 | - | - | - |
| | | | | | 0.06 cr |







2015 Plan of Action - Horticulture

1. New areas under vegetable cultivation (convergence for MI)

| Nandal | Area (acre) | | Investment/acre | | | | | | | Return | | Net return (Rs) | |
|---------------|--------------------|----------|-----------------|---------------------|-----|-----|-------|---------|-----------------------|--------|-------------|-----------------|--|
| | Tomato/ Hyb veg | Seedling | Staking | Plastic mulching | IPM | INM | | | Productivity kg/ac | | Return (Rs) | | |
| orumamila | 75 | 2400 | 0 | 12800 | 480 | 480 | 16160 | 1212000 | 8000 | 8 | 4800000 | 3588000 | |
| 3 Matam | 50 | 2400 | 0 | 12800 | 480 | 480 | 16160 | 808000 | 8000 | 8 | 3200000 | 2392000 | |
| ambepalle | 250 | 2400 | 7500 | 12800 | 480 | 480 | 23660 | 5915000 | 16800 | 8 | 33600000 | 27685000 | |
| otal | | | | | | | | | | | | 3.36.65.000 | |

| 2. Rejuvenation of | f existing p | lantation (| convergence | for MI) |
|--------------------|--------------|-------------|-------------|---------|
|--------------------|--------------|-------------|-------------|---------|

| | | | Productivity | | | | |
|------------|-------|--------|--------------|----------|-------------|------------------|-----------------|
| | | Area | improvement | | | | |
| Mandal | Crop | (acre) | (kg/ac) | Price/kg | Return (Rs) | Expenditure (Rs) | Net return (Rs) |
| Veeraballe | Mango | 250 | 360 | 20 | 1800000 | 250000 | 1550000 |
| Sambepalle | Mango | 250 | 360 | 20 | 1800000 | 250000 | 1550000 |
| Total | | | | | | | 31,00,000 |

3. New plantations = 400 acres; ~ 13 lakh cost (convergence for MI)

Kadapa district – Banana:

New Plantation = 2000 ha [Cost = 20 crore; Return = 186 cr] Existing plantation= 11000; Prod imp by 5t ha⁻¹ thru CB [Addnl Return = 82cr] Banana in Kadapa: Cost = 20 crore; Additional Return = 268 crore



2015 Plan of Action - Watershed

| Village | Repair - Check dam | | Repair- Percolation tank | Repair - Med percolation tank | New - Check dam | New - Check wall | Farm pond | | New - Percolati on tank | | converge - Ag, Hort, AH (Lakh) | СВ | Total Fin (Lakhs) |
|-----------------|--------------------------|---|--------------------------------|-------------------------------------|-----------------------|------------------------|--------------|----|-------------------------------|-----|--------------------------------------|-------|----------------------|
| Godlaveedu | 5 | | 4 | | | | | | | 10 | | | |
| T.Soudrapalli | 4 | | 2 | | | | | | | 16 | | | |
| Dirasavancha | 3 | | | | | | | | | 10 | 22.22 | 8.24 | 80.84 |
| Nagisettipalli | 1 | | | | | | | | | 8 | | | |
| Gundapuram | 2 | | | | | | | | | 12 | | | |
| Settipalli | 5 | | 3 | 1 | 3 | | 8 | | 1 | 90 | | | |
| Guttapalli | 4 | | | | | | | | | 96 | 26.5 | 9 | 268.4 |
| Devpatla | 20 | | 3 | | | | | | | 96 | | | |
| Veeraballe | 20 | 3 | 15 | | | | 15 | | | 250 | 42.5 | 5 | 402.2 |
| Matli | | | | | | | | | | | 12.5 | 5 | 193.3 |
| Ganugapenta | 6 | | 6 | | 6 | 8 | 30 | 16 | 3 | 23 | | | |
| Challagirigella | 5 | | 3 | | 4 | 6 | 25 | 11 | 2 | 8 | 47 | | 247.04 |
| Venkatrampuram | 3 | | 1 | | | | 1 | | 1 | 6 | 17 | 5.15 | 217.04 |
| Siddavaram | | | | | 2 | 1 | 4 | | | 6 | | | |
| Total | 78 | 3 | 37 | 1 | 15 | 15 | 83 | 27 | 7 | 631 | 78.22 | 27.39 | 759.58 |





2015 Plan of Action - Micro-irrigation

| Mandal | Village | | Drip | S | orinkler | G. T | otal of MI |
|------------|------------------|-----|-------------|-----|-------------|------|-------------|
| | | No | Area (acre) | No | Area (acre) | No | Area (acre) |
| | Siddavaram | 11 | 57 | 1 | 3.75 | 12 | 61 |
| Porumamila | Ganugapenta | - | - | - | - | - | - |
| Porumannia | Challagirigella | 2 | 9 | - | - | 2 | 9 |
| | Venkataramapuram | - | - | - | - | - | - |
| | Godlaveedu | 51 | 119 | 4 | 8.6 | 55 | 127 |
| BMatam | Gundapuram | 1 | 4 | | | 1 | 4 |
| Divididili | Dirasavancha | 16 | 62 | 17 | 13.55 | 33 | 76 |
| | Nagisettipalle | 4 | 9 | - | - | 4 | 9 |
| Veeraballe | Veeraballe | 30 | 92 | 64 | 196.875 | 94 | 289 |
| veeraballe | Matli | 48 | 155 | 25 | 73.3 | 73 | 228 |
| | Settipalle | 119 | 387 | 18 | 47.15 | 137 | 434 |
| Sambepalle | Devapatla | 74 | 210 | 1 | 2.525 | 75 | 213 |
| | Guttapalle | 22 | 76 | - | - | 22 | 76 |
| | Total | 378 | 1180 | 130 | 346 | 508 | 1525 |

Important crops covered >>>>

MI System Crop No Area (acre) Drip Fruit (mango +)plants 51 214 Vegetables (Tomato +) 252 768 183 Cotton Sprinkler Groundnut Maize 492 Total



Thank you!

Thankfully Acknowledge Kadapa Team; Collector CPO & staff JD Agriculture & staff

JD Animal Husbandry & staff PD-Micro-Irrrigation & staff AD Horticulture & staff & staff Addl PD-DWMA & staff

AD-Fisheries & staff



International Crops Research Institute for the Semi-firid Trapics





DEPARTMENT OF AGRICULTURE



JOINT DIRECTOR OF AGRICULTURE KURNOOL

Double Digit Growth

• To achieve the "Double Digit Growth" one should identify the GAPS which actually hindering to maximize the productivity.

TARGETTED FOR GROWTH VALUE ADDED FOR 2015-16

| Sl.No. | Name of the Sub-division | Growth Engine for the year 2014-15 | Growth Engine Projection for the year 2015-16 | Net Difference Projected | Percentage Growth Projected |
|--------|-----------------------------|--|---|-----------------------------|--------------------------------|
| 1 | Kurnool | 207.20 | 231.92 | 24.72 | 11.93 |
| 2 | Dhone | 224.48 | 263.59 | 39.11 | 17.42 |
| 3 | Nandikotkur | 221.20 | 255.84 | 34.64 | 15.66 |
| 4 | Atmakur | 217.45 | 251.83 | 34.38 | 15.81 |
| 5 | Nandyal | 480.06 | 523.13 | 43.07 | 8.97 |
| 6 | Allagadda | 72.49 | 84.64 | 12.15 | 16.76 |
| 7 | Koilakuntla | 800.49 | 1028.61 | 228.12 | 28.50 |
| 8 | Adoni | 766.65 | 904.09 | 137.44 | 17.93 |
| 9 | | 397.25 | 443.47 | 46.22 | 11.63 |
| 10 | Yemmiganur | 584.60 | 700.60 | 116.00 | 19.84 |
| 11 | Pattikonda | 146.77 | 273.96 | 127.19 | 86.66 |
| | GRAND TOTAL | 4118.64 | 4961.68 | 843.04 | 20.47 |

District GVD : 20.47%

TARGETED AREA, YIELD AND PRODUCTION FOR DIFFERENT AGRICULTURAL CROPS FOR KHARIF 2015 AND RABI 2015-16

| Name of the Crop | | | | | Kharif 2 | 2015 | | | | Rabi 2 | 015-16 | |
|--|-------|--------------|---------|-------|----------------|-------|--------|---------|-------|---------------------|--------|-----------------------|
| 2 Jowar 18500 3151 2724 3500 64750 55000 2900 2900 3500 192500 3 Bajra 10000 1023 1284 1350 13500 500 1000 1000 1200 600 4 Maize 45000 4530 3638 6100 274500 25000 6000 6000 6500 162500 5 Ragi 0 0 0 0 0 0 0 0 6 Millets(Korra) 15000 848 961 1020 15300 2500 750 750 800 2000 181500 123000 123000 123000 123000 123000 123000 1200 250 3850 850 900 2250 8 Bengal Gram 0 0 200000 1050 1500 24000 1050 1200 24000 <td>Sl.No</td> <td></td> <td>ed Area</td> <td>Yield</td> <td>Kharif 2014</td> <td>Yield</td> <td></td> <td>ed Area</td> <td>Yield</td> <td>Rabi 2014- 15</td> <td>Yield</td> <td>Production in M.Ts</td> | Sl.No | | ed Area | Yield | Kharif 2014 | Yield | | ed Area | Yield | Rabi 2014- 15 | Yield | Production in M.Ts |
| 3 Bajra 10000 1023 1284 1350 13500 500 1000 1000 1200 600 4 Maize 45000 4530 3638 6100 274500 25000 6000 6000 6500 162500 5 Ragi 0 0 0 0 0 0 0 0 0 6 Milor Millets(Korra) 15000 848 961 1020 15300 2500 750 750 800 2000 7 Redgram 53000 421 402 650 34450 2500 850 850 900 2250 8 Bengal Gram 0 0 200000 1050 1500 1200 240000 9 Greengram 2500 576 1081 1200 3000 4500 650 650 3825 10 Blackgram 5000 625 1331 1600 8000 7500 | 1 | Rice | 93000 | 3410 | 5894 | 6500 | 604500 | 40000 | 4200 | 4200 | 4300 | 172000 |
| 4 Maize 45000 4530 3638 6100 274500 25000 6000 6500 162500 5 Ragi 0 | 2 | Jowar | 18500 | 3151 | 2724 | 3500 | 64750 | 55000 | 2900 | 2900 | 3500 | 192500 |
| 5 Ragi 0 0 0 0 0 0 0 0 6 Minor Millets(Korra) 15000 848 961 1020 15300 2500 750 750 800 2000 Course Grain 181500 123000 7 Redgram 53000 421 402 650 34450 2500 850 850 900 2250 8 Bengal Gram 0 0 0 200000 1050 1200 240000 9 Greengram 2500 576 1081 1200 3000 4500 650 650 850 3825 10 Blackgram 5000 625 1331 1600 8000 7500 750 750 900 6750 11 Horsegram 100 650 650 750 75 500 650 650 700 350 12 Other Pulses 100 | 3 | Bajra | 10000 | 1023 | 1284 | 1350 | 13500 | 500 | 1000 | 1000 | 1200 | 600 |
| 6 Minor Millets(Korra) 15000 848 961 1020 15300 2500 750 750 800 2000 Course Grain 181500 123000 123000 123000 5000 421 402 650 34450 2500 850 850 900 2250 8 Bengal Gram 2500 576 1081 1200 3000 4500 650 650 850 3825 10 Blackgram 5000 625 1331 1600 8000 7500 750 750 900 6750 11 Horsegram 100 650 650 750 75 500 650 650 700 350 12 Other Pulses 100 700 700 70 500 650 650 700 350 | 4 | Maize | 45000 | 4530 | 3638 | 6100 | 274500 | 25000 | 6000 | 6000 | 6500 | 162500 |
| Course Grain 181500 S48 961 1020 15300 2500 750 750 800 2000 | 5 | Ragi | 0 | | | 0 | 0 | 0 | | | 0 | 0 |
| 7 Redgram 53000 421 402 650 34450 2500 850 850 900 2250 8 Bengal Gram 0 0 0 200000 1050 1050 1200 240000 9 Greengram 2500 576 1081 1200 3000 4500 650 650 850 3825 10 Blackgram 5000 625 1331 1600 8000 7500 750 750 900 6750 11 Horsegram 100 650 650 750 75 500 650 650 700 350 12 Other Pulses 100 700 70 500 650 650 700 350 | 6 | | 15000 | 848 | 961 | 1020 | 15300 | 2500 | 750 | 750 | 800 | 2000 |
| 8 Bengal Gram 0 0 0 200000 1050 1200 240000 9 Greengram 2500 576 1081 1200 3000 4500 650 650 850 3825 10 Blackgram 5000 625 1331 1600 8000 7500 750 750 900 6750 11 Horsegram 100 650 650 750 75 500 650 650 700 350 12 Other Pulses 100 700 700 70 500 650 650 700 350 | | Course Grain | 181500 | | | | | 123000 | | | | |
| 9 Greengram 2500 576 1081 1200 3000 4500 650 650 850 3825 10 Blackgram 5000 625 1331 1600 8000 7500 750 750 900 6750 11 Horsegram 100 650 650 750 75 500 650 650 700 350 12 Other Pulses 100 700 700 70 500 650 650 700 350 | 7 | Redgram | 53000 | 421 | 402 | 650 | 34450 | 2500 | 850 | 850 | 900 | 2250 |
| 10 Blackgram 5000 625 1331 1600 8000 7500 750 750 900 6750 11 Horsegram 100 650 650 750 75 500 650 650 700 350 12 Other Pulses 100 700 700 70 500 650 650 700 350 | 8 | Bengal Gram | 0 | | | 0 | 0 | 200000 | 1050 | 1050 | 1200 | 240000 |
| 11 Horsegram 100 650 650 750 75 500 650 650 700 350 12 Other Pulses 100 700 70 500 650 650 700 350 | 9 | Greengram | 2500 | 576 | 1081 | 1200 | 3000 | 4500 | 650 | 650 | 850 | 3825 |
| 12 Other Pulses 100 700 70 500 650 650 700 350 | 10 | Blackgram | 5000 | 625 | 1331 | 1600 | 8000 | 7500 | 750 | 750 | 900 | 6750 |
| | 11 | Horsegram | 100 | 650 | 650 | 750 | 75 | 500 | 650 | 650 | 700 | 350 |
| Total Pulses 60700 215500 | 12 | Other Pulses | 100 | | | 700 | 70 | 500 | 650 | 650 | 700 | 350 |
| | | Total Pulses | 60700 | | | | | 215500 | | | | |

| | | | | Kharif 2 | 2015 | | Rabi 2015-16 | | | | |
|-------|-----------------------|----------------------------|---------------------------|-------------------------------------|-----------------------------|------------------------|----------------------------|---------------------------|---|-----------------------------|-----------------------|
| Sl.No | Name of the Crop | Expecte d Area in Ha | Normal Yield Kgs/Ha | Yields Kharif 2014 Kgs/Ha. | Expected Yield Kgs/Ha | Productio n in M.Ts | Expecte d Area in Ha | Normal Yield Kgs/Ha | Yields Rabi 2014- 15 Kgs/Ha | Expected Yield Kgs/Ha | Production in M.Ts |
| 13 | Groundnut | 18000 | 582 | 835 | 1150 | 20700 | 30000 | 1000 | 1000 | 1150 | 34500 |
| 14 | Sesamum | 1000 | 650 | 650 | 700 | 700 | 7500 | 650 | 650 | 700 | 5250 |
| 15 | Castor | 40000 | 457 | 669 | 750 | 30000 | 500 | 600 | 600 | 700 | 350 |
| 16 | Sunflower | 10000 | 800 | 825 | 875 | 8750 | 25000 | 700 | 700 | 900 | 22500 |
| 17 | Safflower | 500 | 550 | 650 | 800 | 400 | 2000 | 750 | 750 | 800 | 1600 |
| 19 | Rape & Mustred | 0 | | | 0 | 0 | 6000 | 650 | 650 | 750 | 4500 |
| 21 | Other Oil Seeds | 500 | | | 850 | 425 | 1500 | 600 | 600 | 650 | 975 |
| | Total Oil Seeds | 70000 | | | | | 72500 | | | | |
| 22 | Cotton | 350000 | 375 | 450 | 550 | 192500 | 500 | 450 | 450 | 500 | 250 |
| 23 | Mesta | 500 | 550 | 550 | 600 | 300 | 1500 | 550 | 550 | 600 | 900 |
| 24 | Chillies | 25000 | 2607 | 3599 | 4000 | 100000 | 5000 | 3400 | 3400 | 3800 | 19000 |
| 25 | Sugarcane | 3000 | 93000 | 93500 | 95000 | 285000 | 0 | 0 | 0 | 0 | 0 |
| 26 | Onion | 35000 | 2500 | 2800 | 3000 | 105000 | 5000 | 2000 | 2000 | 2500 | 12500 |
| 27 | Turmiric | 4500 | 3500 | 3000 | 3150 | 14175 | 0 | | | 0 | 0 |
| 28 | Tobacco | 1500 | 3200 | 3500 | 4000 | 6000 | 15000 | 4000 | 4000 | 4500 | 67500 |
| | Total Cropped Area | 731700 | | | | | 438000 | | | | |

| PADDY | | | | | | | |
|---|---|--|--|--|--|--|--|
| GAP | INTERVENTIONS | | | | | | |
| Productivity enhancement interventions | | | | | | | |
| Deficit Organic matter in the Soil | Pillipesera, Daincha, sunhemp | | | | | | |
| Usage of old varieties | MTU-1061, MTU-1075, MTU-1064, NLR 34449 | | | | | | |
| Imbalanced use of Chemical fertilizers | Soil test based fertilizer usage | | | | | | |
| Imbalanced use of micro nutrients | Zinc, Boron, Gypsum | | | | | | |
| Improper water management | Effective water management | | | | | | |
| | Cost reduction interventions | | | | | | |
| | i) Broadcasting | | | | | | |
| Non maintenance of optimum plant population and following | ii) Drum Seeding | | | | | | |
| traditional way of transplanting methods | iii) SMSRI | | | | | | |
| Indiscriminate use of Pesticides | IPM Practices for control of Pests, Diseases, Weeds and with special reference to Rodents | | | | | | |
| Farm Mechanization | Mechanization through Rotovators, Transplanters, Harvesters and Driers | | | | | | |
| Interv | entions to bring additional area into cultivation | | | | | | |
| Repair to the minor & medium | tanks and irrigation canals | | | | | | |

MAIZE

| GAP | INTERVENTIONS | | | | | |
|---|---|--|--|--|--|--|
| Productivity enhancement interventions | | | | | | |
| Deficit Organic matter in the Soil | Pillipesera, Daincha, sunnhemp | | | | | |
| Imbalanced use of Chemical fertilisers | Soil test based fertilizer usage | | | | | |
| Imbalanced use of micro nutrients | Zinc, Boron ,Gypsum | | | | | |
| Improper water management | Effective water management | | | | | |
| Lack of awareness on other corn varieties | popularizing the other corn varieties like baby corn , sweet corn and pop $\operatorname{corn}.$ | | | | | |
| Cost reduction interventions | | | | | | |
| Lack of awareness on Zero Tillage practice | Adopting Zero tillage in rice fallows | | | | | |
| Indescriminate use of Pesticides | IPM Practices for control of Pests, Diseases, Weeds | | | | | |
| Farm Mechanization | Mechanization | | | | | |
| | | | | | | |

GROUNDNUT

| GROONDING | | | | | | |
|--|---|--|--|--|--|--|
| GAP | INTERVENTIONS | | | | | |
| Productivity enhancement interventions | | | | | | |
| Usage of old varieties | K-9, Dharani, Anantha | | | | | |
| Lack of awareness on Gypsum usage | Application of Gypsum | | | | | |
| Imbalanced use of micro nutrients | Zinc, Boron | | | | | |
| Improper water management | Effective water management through Sprinklers and Form Ponds | | | | | |
| Cost reduction intervent | ions | | | | | |
| Indescriminate use of Pesticides | IPM Practices for control of Pests, Diseases, Weeds | | | | | |
| Farm Mechanization | Mechanization | | | | | |

SUMMER PULSES

| Productivity enhancement interventions | | | | | | | |
|---|--|--|--|--|--|--|--|
| PU 31, LBG 752, LGG 460 | | | | | | | |
| Zinc,Boron,Gypsum | | | | | | | |
| Effective water management through Sprinklers and Form Ponds | | | | | | | |
| tions | | | | | | | |
| IPM Practices for control of Pests, Diseases, Weeds | | | | | | | |
| Mechanization | | | | | | | |
| | | | | | | | |

Thank you



TARGETTE GVA AN PRO UCTION FOR 2015-16 AT CURRENT PRICES

| | 201 | 4-15 | 20: | | |
|---------------------|---------------------------|-----------------------|---------------------------|--------------------|----------------------|
| Horticultur e | Prod. (in '000 MTs) | GVA (in Crores) | Prod. (in '000 MTs) | GVA (in Crores) | Increase in % GVA |
| Growth Engines | | | | | |
| 1.Onion | 366465 | 549.70 | 399465 | 583.45 | 6.1 |
| 2.Vegetables | 316100 | 379.32 | 412100 | 494.52 | 30.4 |
| 3.Mango | 111675 | 167.51 | 111675 | 167.51 | 0 |
| 4.Banana | 167775 | 165.47 | 287375 | 285.07 | 62.27 |
| 5.Red Chillies | 124935 | 74.96 | 147435 | 91.63 | 22.24 |
| 6.Tomato | 75225 | 45.13 | 105225 | 81.13 | 39.77 |
| TOTAL | 1162175 | 1382.09 | 1463275 | 1703.31 | |
| INCREMENT IN GVA | | | | | 26.78 |

BEST PRACTICES TO ENHANCE PRO UCTIVITY

| SI. No | Name of the crop | Present productivity (MT / Ha) | Expected productivity (MT / Ha) | Best Practices |
|-----------|------------------|--------------------------------------|---------------------------------|--|
| 1 | Mango | 9 | 12 | High density plantation, rejuvenation, canopy management, topworking and micro irrigation and fertigation, Soil and leaf analysis |
| 2 | Banana | 35 | 50 | Use of tissue culture saplings,staking ,IPN/INM and microirrigation and fertigation |
| 3 | Red chilles | 5 | 7 | Mulching Practice, rip irrigation,IPM/INM |
| 4 | Onion | 18 | 20 | Usage of hybrid varieties, drip irrigation and fertigation, correct method and right stage of harvesting,proper ventilated storage structure |
| 5 | Tomato | 20 | 40 | Use of F1 hybrids,semi indeterminate type,trellies,greenhouse/polyhouse /shadenet cultivation,mulching |

Promotion of FPOs For Horti.crops

| Sl. No | Crop | Number of FPOs | Number of farmers |
|--------|----------|----------------|-------------------|
| 1 | Tomato | 4 | 80 |
| 2 | Onion | 4 | 80 |
| 3 | Chillies | 4 | 80 |
| 4 | Banana | 4 | 80 |
| | TOTAL | 16 | 320 |

Tomato Introduction of high yielding varieties; open pollinated varieties suitable for processing; Proper staking and trellising; Protected cultivation; mulching; drip irrigation/fertigation; Integrated Pest Management(IPM) Introduction of fresh produce handling and processing technologies that are compatible with value chain requirements Lack of improved varieties, Lack of varieties suitable for 2500 Lack of varieties suitable for processing, Incidence of bacterial wilt, Improper staking, Lack of processing industries, Postharvest losses 2500 Chilli Constraints/Issues Interventions Area (Ha) Improper drying, Aflatoxin contamination, Indiscriminate use of pesticides Susceptibility to Leaf curl Introduction of simple solar dryers and good drying practices Introduction of IPM and other good Kurnool 500 agricultural practices, Pesticide residue testing, Promotion of varieties resistant to leaf curl virus, suitable for oleoresin extraction, and suitable for rapid drying 500

Onion

| District | Area (Ha) | Constraints/Issues | Interventions |
|----------|--------------|--|---|
| Kurnool | 5000 | Lack of improved varieties Low bulb size Improper storage & drying facility Onion blight Poor nursery management | Introduction of improved varieties, IPM & Integrated Nutrient Management (INM), Solar dryers, Improved handling and storage techniques and facilities |
| | 5000 | | |





Thank You

DEPARTMENT OF AGRICULTURE



JOINT DIRECTOR OF AGRICULTURE **KURNOOL**

Double Digit Growth

Action Plan for the year 2015-16

Double Digit Growth

To achieve the "Double Digit Growth" one should

➤ Identify the GAPS which actually hindering to maximize the productivity.

| PADDY | | | | | | |
|---|---|--|--|--|--|--|
| GAP | INTERVENTIONS | | | | | |
| | Productivity enhancement interventions | | | | | |
| Deficit Organic matter in the Soil | Pillipesera, Daincha, sunhemp | | | | | |
| Usage of old varieties | MTU-1061, MTU-1075, MTU-1064, NLR 34449 | | | | | |
| Imbalanced use of Chemical fertilizers | Soil test based fertilizer usage | | | | | |
| Imbalanced use of micro nutrients | Zinc, Boron, Gypsum | | | | | |
| Improper water management | Effective water management | | | | | |
| | Cost reduction interventions | | | | | |
| | i) Broadcasting | | | | | |
| Non maintenance of optimum plant population and following | ii) Drum Seeding | | | | | |
| traditional way of transplanting methods | iii) SMSRI | | | | | |
| Indiscriminate use of Pesticides | IPM Practices for control of Pests, Diseases, Weeds and with special reference to Rodents | | | | | |
| Farm Mechanization | Mechanization through Rotovators, Transplanters, Harvesters and Driers | | | | | |
| Interv | entions to bring additional area into cultivation | | | | | |
| Repair to the minor & medium | tanks and irrigation canals | | | | | |

Productivity enhancement interventions Deficit Organic matter in the Pillinesera, Daincha, sunnhe

| Soil | Pillipesera, Daincna, sunnnemp |
|---|---|
| Imbalanced use of Chemical fertilisers | Soil test based fertilizer usage |
| Imbalanced use of micro nutrients | Zinc, Boron ,Gypsum |
| Improper water management | Effective water management |
| Lack of awareness on other corn varieties | popularizing the other corn varieties like baby corn , sweet corn and pop corn. |
| Cost reduction interventions | |
| Lack of awareness on Zero Tillage practice | Adopting Zero tillage in rice fallows |
| Indescriminate use of Pesticides | IPM Practices for control of Pests, Diseases, Weeds |
| Farm Mechanization | Mechanization |
| | |

MAIZE

GROUND NUT

| GILOUID HOI | | | | | | | |
|--|--|--|--|--|--|--|--|
| GAP | INTERVENTIONS | | | | | | |
| Productivity enhancement interventions | | | | | | | |
| Usage of old varieties | K-9, Dharani, Anantha | | | | | | |
| Lack of awareness on Gypsum usage | Application of Gypsum | | | | | | |
| Imbalanced use of micro nutrients | Zinc, Boron | | | | | | |
| Improper water management | Effective water management through Sprinklers and Form Ponds | | | | | | |
| Cost reduction intervent | ions | | | | | | |
| Indescriminate use of Pesticides | IPM Practices for control of Pests, Diseases, Weeds | | | | | | |
| Farm Mechanization | Mechanization | | | | | | |

SUMMER PULSES

| GAP | INTERVENTIONS | | | | | | |
|--|---|--|--|--|--|--|--|
| Productivity enhancement interventions | | | | | | | |
| Usage of old varieties | PU 31, LBG 752, LGG 460 | | | | | | |
| Imbalanced use of micro nutrients | Zinc,Boron,Gypsum | | | | | | |
| Improper water management | Effective water management through Sprinklers and Form Ponds | | | | | | |
| Cost reduction intervent | tions | | | | | | |
| Indescriminate use of Pesticides | IPM Practices for control of Pests, Diseases, Weeds | | | | | | |
| Farm Mechanization | Mechanization | | | | | | |

| | T |
|--|--|
| Productivity Enhancement Interventions | Cost Reduction Interventions |
| RICE | |
| Promoting High Yielding ,Lodging Resistant ,Pest & Disease resistant varieties Swarna sub1, Samba Mashuri sub 1, Sowbhagya Dhan, CR 1001, MTU 1121 | Ensure Optimum Plant Population by Promoting Direct seeding , MSRI (Drum Seeding & Mechanical Transplanting) |
| 2. Use of Micronutrients like zinc , based on Soil Test recommendation | Large scale Farm Mechanization using |
| for improving soil health & productivity | rotavators, transplanters, harvesters & |
| | Driers |
| 3. Efficient On Field Water Management - Rotational irrigation | Soil Test Based Nutrient application |
| MAIZE | |
| Use of Micronutrient like zinc, boron | Zero tillage of maize in rice fallows |
| 2. Control of Stem Borer | |
| 3. Special emphasis on baby corn, sweet corn and pop corn varieties | |
| GROUNDNUT | |
| 1. Popularization of drought tolerant varieties –K9, Dharani , Anantha | Integrated Pest & Disease management |
| Application of Gypsum & correction of micronutrient deficiencies –zinc, boron | |
| 2. Protective irrigation by effective utilization of scarce water resources | |
| through Community sprinklers & farm pond technology | |
| COTTON | |
| 1. Encouraging High density planting system and mechanical picking of cotton | Soil Test Based Nutrient application |
| 2. Correction of Micronutrient deficiencies – Zinc, Boron & Magnesium | |
| 3. Intercropping of red gram for sustainable returns | |

TARGETTED FOR GROWTH VALUE ADDED FOR 2015-16

| SI.No. | Name of the Sub-division | Growth Engine for the year 2014-15 | Growth Engine Projection for the year 2015-16 | Net Difference Projected | Percentage Growth Projected |
|--------|-----------------------------|--|---|-----------------------------|--------------------------------|
| 1 | Kurnool | 207.20 | 231.92 | 24.72 | 11.93 |
| 2 | Dhone | 224.48 | 263.59 | 39.11 | 17.42 |
| 3 | Nandikotkur | 221.20 | 255.84 | 34.64 | 15.66 |
| 4 | Atmakur | 217.45 | 251.83 | 34.38 | 15.81 |
| 5 | Nandyal | 480.06 | 523.13 | 43.07 | 8.97 |
| 6 | Allagadda | 72.49 | 84.64 | 12.15 | 16.76 |
| 7 | Koilakuntla | 800.49 | 1028.61 | 228.12 | 28.50 |
| 8 | Adoni | 766.65 | 904.09 | 137.44 | 17.93 |
| 9 | Alur | 397.25 | 443.47 | 46.22 | 11.63 |
| 10 | Yemmiganur | 584.60 | 700.60 | 116.00 | 19.84 |
| 11 | Pattikonda | 146.77 | 273.96 | 127.19 | 86.66 |
| | GRAND TOTAL | 4118.64 | 4961.68 | 843.04 | 20.47 |

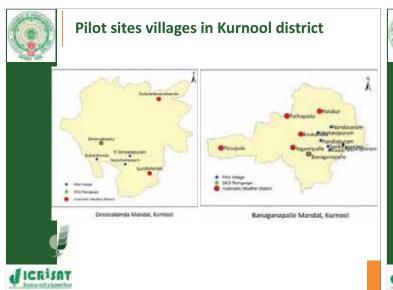
District GVD : 20.47%

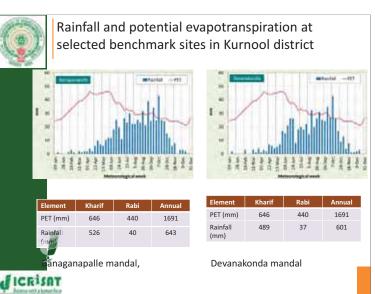




Major selection criteria for pilot site

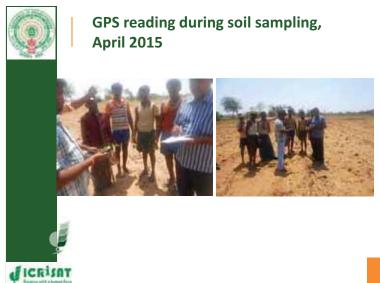
- Representativeness in terms of soils, landscape, rainfall, crops, and socioeconomic conditions
- Accessibility
- · Willingness to adopt
- Presence of suitable institutions
- Potential for impact

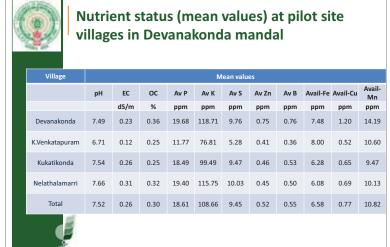


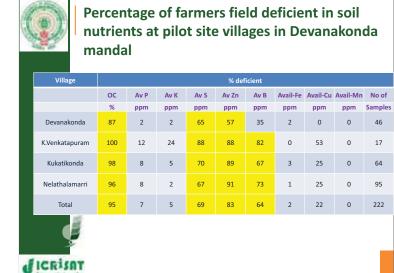
















Production and GVA for Agriculture sector for 2014-15 and 2015-16 at pilot site in Kurnool

| | | | | 2014-15 | | | | | |
|-----------------|-------------|-------------|------|------------|----------------|------|------------|----------------|------------------|
| | Sector | Commodity | Area | Production | Gross Value | Area | Production | Gross Value | Increase in % |
| | | | (ha) | (t OR No.) | (Rs Crore) | (ha) | (t OR No.) | (Rs Crore) | GVA |
| | | Groundnut | 1580 | 1112 | 3.991 | 1580 | 1400 | 5.027 | 25.97 |
| | | Bengal gram | 700 | 517 | 1.730 | 700 | 580 | 1.943 | 12.31 |
| | | Paddy | 1221 | 2540 | 3.937 | 1221 | 2950 | 4.573 | 16.14 |
| | | Cotton | 2471 | 2008 | 7.528 | 2471 | 2261.5 | 8.481 | 12.66 |
| | | Sorghum | 1138 | 936 | 1.592 | 1138 | 1160 | 1.972 | 23.87 |
| | | Pigeonpea | 507 | 224 | 1.113 | 507 | 280 | 1.392 | 25.00 |
| | Agriculture | Castor | 295 | 287 | 1.000 | 295 | 335 | 1.168 | 16.78 |
| | | Black gram | 1052 | 425 | 2.550 | 1052 | 520 | 3.120 | 22.35 |
| | | Safflower | 40 | 20 | 0.070 | 40 | 23 | 0.081 | 15.00 |
| • | | Sunflower | 71 | 47 | 0.145 | 71 | 54 | 0.166 | 14.89 |
| | | Millet | 67 | 80 | 0.105 | 67 | 90 | 0.117 | 11.43 |
| ICRIS | | Maize | 8 | 30 | 0.037 | 8 | 33 | 0.041 | 10.00 |
| Summer of Value | | Total | 9150 | 8225 | 23.80 | 9150 | 9687 | 28.08 | 17.99 |



I ICRISAT

Production and GVA for Horticultural and Livestock sectors for 2014-15 and 2015-16 at pilot site in Kurnool

| | | | | 2014-15 | | | | | |
|---------|--------------|------------------------|------|------------|----------------|------|------------|----------------|------------------|
| | Sector | Commodit y | Area | Production | Gross Value | Area | Production | Gross Value | Increase in % |
| | | , | (ha) | (t OR No.) | (Rs Crore) | (ha) | (t OR No.) | (Rs Crore) | GVA |
| | | Onion | 272 | 3568 | 4.14 | 304 | 4500 | 5.220 | 26.12 |
| | | Chilies | 85 | 323 | 1.677 | 94 | 393 | 2.042 | 21.75 |
| | | Brinjal | 29 | 283 | 0.453 | 32 | 360 | 0.576 | 27.21 |
| | | Guar | 155 | 103 | 0.465 | 155 | 120 | 0.540 | 16.22 |
| | Horticulture | Lady finger | 5 | 15 | 0.036 | 5 | 17 | 0.040 | 12.00 |
| | Horticulture | Ridge gaurd | 23 | 93 | 0.047 | 23 | 115 | 0.058 | 23.66 |
| | | Coriander | 16 | 3 | 0.023 | 16 | 4 | 0.026 | 14.00 |
| | | Tomato | 93 | 789 | 1.105 | 93 | 980 | 1.372 | 24.16 |
| | | Total | 678 | 5177 | 7.94 | 722 | 6488 | 9.87 | 24.30 |
| | | Milk (MTS) | | 2197.95 | 4.84 | | 2665.79 | 6.05 | 25.09 |
| | Livestock | Meat (MTS) | | 124.34 | 1.87 | | 143.20 | 2.15 | 15.17 |
| | | Eggs (Nos in lakhs) | | 99.5 | 2.98 | | 119.7 | 3.59 | 20.30 |
| | | Total | | | 9.69 | | | 11.79 | 21.70 |
| d ICR's | Grand Total | | | | 41.43 | | | 49.746 | 20.07 |



Agriculture - Action Plan

Groundnut

- · Application of gypsum & other micronutrients
- Supply of quality seed (K6 or other varieties)
- Broadbed & furrow (BBF) system of cultivation
- · Supply of BBF maker cum seed drill
- Training & capacity building of farmers in BBF cultivation
- · Supply of crust breaker for better pegging
- Establishment of custom hiring center for farm implements



Vegetable - Action Plan

- Supply of good quality seeds including hybrid varieties of vegetables
- · Supply of micronutrients
- Broadbed & furrow system of cultivation
- Supply of shade nets for high value vegetables
- Plant protection equipment's
- Sprinkler & drip irrigation systems
- · Provision of post-harvest infrastructure
- Grading & packing facilities
- Supply of improved farm implements
- Promote farmer producer organization (FPO) at the bench mark sites





ICRISAT

Livestock - Action Plan

- Supply of good quality feed with better digestibility
- · Increase the number of better yielding cattle
- Better feeding practices
- Vaccination of livestock
- Supply of chaff cutters



Media coverage (March 2015)







Media coverage (April 2015)

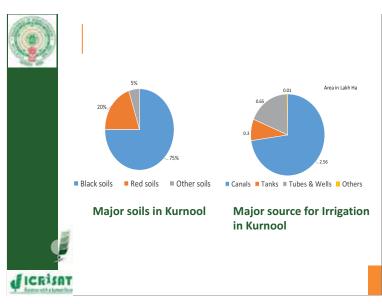




Thank you!



internetional Crops Research Institute for the Semi-Arid Travics





Major crops grown in the Kurnool district

Groundnut Bengal gram
Rice Sunflower
Cotton Sorghum
Sunflower Cotton
Pigeonpea Onion
Sorghum Chilies
Mango Brinjal
Banana









Pilot sites in Kurnool

Tomato

| | Site 1 | Site 2 |
|-----------|--|--|
| Mandal | Banaganapalli | Devanakonda |
| Watershed | Banaganaapplli | Nallachelimila |
| Villages | Venkatapuram, Nandavaram, Appalapuram, Pandlapuram, kypa, Sankalapuram | Devanakonda, K.Venakatapuram, Nelathalamarri, Kukatikonda |
| Area | 5099 ha | 5100 ha |
| Soil type | Black soil | Red soil |

Maps of Banaganapalli watershed Villages (pilot site)



Banaganapalli Latitude 15°19′02.44′′ longitude 78° 13′ 32.95′

ICRISAT



Appalapuram Latitude 15° 20′ 03.27′′ Longitude 78° 15′ 30.82′′



Major crops at Pilot site Devanakonda

- Groundnut
- Mango
- Cotton
- Chillies
- Castor
- Vegetables
- Rice
- (Onion, Tomato, Brinjal)



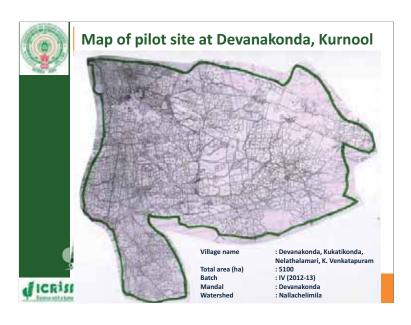


Major crops at Pilot site Banaganapalle

- Sorghum
- Pigeonpea
- Rice
- Coriander
- Cotton
- Vegetables
- Bengal gram
- Sunflower
- Horticulture









Statement showing INLAND FISH/Prawn production in Kurnool Dist. For the years 2014-15& 2015-16

| | | Total extent (ha) | Inland fish / production | | No. of | | Fish/Prawn production | | Canals | Total extent (ha) | Fish production (MTS) | | Total fish+pr production (| | % ofinc |
|---|-----|----------------------|-----------------------------|-------|--------|-------|--------------------------|-------|--------|-------------------------|-----------------------|-------|-------------------------------|-------|------------|
| | | | 14-15 | 15-16 | | | 14-15 | 15-16 | | | 14-15 15-16 | | 14-15 | 15-16 | |
| 1 | 173 | 9713.46 | 8223 | 8976 | 9 | 66221 | 14565 | 15879 | 845 | 6000 | 3095 3385 | 81934 | 26017 | 28375 | 9.16 |
| Î | 1/3 | 3713.40 | oll) | 0370 | | | | | 043 | 0000 | 3033 | 01334 | 20017 | 20373 | 5.20 |
| | | | | | | Prawn | 124 | 135 | | | | | | | |
| 2 | | | | | | | | | | | Value in Crores | | 186.60 | 31.88 | 24.3 |

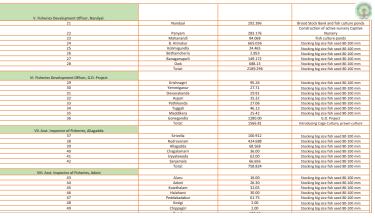


Statement showing INLAND FISH/Prawn prouction in Kurnool Dist. For the years 2014-15& 2015-16

- Interventions:
- Stocking of big size fish seed 80-100mm
- Optimum seed stocking in all reservoirs/ tanks
- Introduction of alternative quick growing varieties like Red Tilapia, Cyprinus and composite culture
- Increase of culture area by cage culture in reservoirs
- Effective implementation of conservation measures i.e Mesh size control, ban period
- Construction of captive seed rearing ponds.
- De-silting and de-weeding in all water sources

EMENT SHOWING THE MANDAL-WISE PROPOSED FISH UCTION OF KURNOOL DISTRICT FOR THE YEAR 2015-16

| PAGE PAGE | | | | | |
|--|-------------------------|--------------------------|---|--|--|
| No. of the last of | | | | | |
| Mandal | Name of the Mandal | Expected fish production | Remarks | | |
| | | | | | |
| I. Fisheries Development Officer, Kurnool | | | | | |
| 1 | Kalluru | 19.08 | Stocking big size fish seed 80-100 mm | | |
| 2 | Kurnool | 8.57 | Stocking big size fish seed 80-100 mm | | |
| 3 | Veldurthy | 38.94 | Stocking big size fish seed 80-100 mm | | |
| 4 | Dhone | 55.78 | Stocking big size fish seed 80-100 mm | | |
| 5 | Peapully | 43.85 | Stocking big size fish seed 80-100 mm | | |
| 6 | Orvakal | 17.5 | Stocking big size fish seed 80-100 mm | | |
| | Total: | 183.72 | Stocking big size fish seed 80-100 mm | | |
| II. Fisheries Development Officer, Sunkesula | | | | | |
| 7 | Gudur | 26.262 | Stocking big size fish seed 80-100 mm | | |
| 8 | C.Belgal | 43.045 | Stocking big size fish seed 80-100 mm | | |
| 9 | Nandavaram | 16.405 | Stocking big size fish seed 80-100 mm | | |
| 10 | Mantralavam | 92.713 | Stocking big size fish seed 80-100 mm | | |
| | Kurnool | 513 | Sunkesula Reservoir | | |
| | Total: | 691.425 | Introducing Cage Culture and stocking prawn seed | | |
| | | | | | |
| III. Fisheries Development Officer, Nandikotkur | | | Stocking big size fish seed 80-100 mm | | |
| 11 | J. Bunglow | | Stocking big size fish seed 80-100 mm | | |
| 12 | Nandikotkur | 5.225 | Stocking big size fish seed 80-100 mm | | |
| 13 | Gadivemula | 22.125 | Fish culture ponds | | |
| 14 | Miduthuru | 1212.25 | Srisailam back waters | | |
| 15 & 16 | Pagidyal and Pamulapadu | 8265.615 | Introducing Cage Culture and stocking prawn seed | | |
| | Total: | 9505.215 | | | |
| IV. Fisheries Development Officer, Atmakur. | | | | | |
| 17 | Atmakur | 118.51 | Stocking big size fish seed 80-100 mm | | |
| 18 | Veligodu | 4400.85 | Stocking big size fish seed 80-100 mm stocking prawn seed | | |
| 19 | Kothapalli | 27.765 | Stocking big size fish seed 80-100 mm | | |
| 20 | Srisailam | 8265.8925 | Stocking big size fish seed 80-100 mm | | |
| | Total: | 12813.0175 | | | |









TARGETTE GVA AN PRO UCTION FOR 2015-16 AT CURRENT PRICES

| | 201 | 3-14 | 201 | 4-15 | 2015-16 | | |
|---------------------------|------------------------|---------------------------|------------------------|---------------------------|------------------------|---------------------------|--|
| Horticulture | GVA (in Crores) | Prod. (in '000 MTs) | GVA (in Crores) | Prod. (in '000 MTs) | GVA (in Crores) | Prod. (in '000 MTs) | |
| Growth Engines | | | | | | | |
| 1.Chillies | 3855 | 602 | 4392 | 732 | 7320 | 1220 | |
| 2.Banana | 3017 | 1888 | 3166 | 3166 | 3666 | 3666 | |
| 3.Mango | 2148 | 2348 | 2188 | 2736 | 2674 | 3344 | |
| 4.Sweet Orange | 1037 | 1331 | 1984 | 1323 | 2204 | 1470 | |
| 5.Cashewnut | 716 | 88 | 1100 | 90 | 1257 | 214 | |
| 6.Tomato | 3037 | 3037 | 3340 | 3340 | 3390 | 3390 | |
| 7.Oil Palm | 604 | 930 | 911 | 1302 | 979 | 1400 | |
| 8.Lemon | 974 | 582 | 1049 | 583 | 1117 | 621 | |
| 9.Papaya | 880 | 1545 | 912 | 1520 | 1152 | 1920 | |
| 10.Others | 17245 | | 16375 | | 18741 | | |
| TOTAL | 33513 | | 35417 | | 42500 | | |
| INCREMENT IN GSDP | | | 1904 | | 7083 | | |
| BUDGET (Rs. in Crore) | | | 219 | | 310 | | |

istrict wise targeted (GVA)in addition to business as usual for 2015-16 (value in crores)

| S.No | District | Value (Crores) |
|------|---------------|----------------|
| 1 | East Godavari | 4546 |
| 2 | Guntur | 3917 |
| 3 | Ananthapur | 3335 |
| 4 | Kadapa | 2054 |
| 5 | West Godavari | 1826 |
| 6 | Chittoor | 1689 |
| 7 | Kurnool | 1531 |
| 8 | Visakapatnam | 1458 |
| 9 | Krishna | 1351 |
| 10 | Srikakulam | 1330 |
| 11 | Vizianagaram | 1040 |
| 12 | Prakasam | 1021 |
| 13 | Nellore | 849 |
| | Grand Total | 25947 |

Crop wise targeted (GVA)in addition to business as usual for 2015-16 (value in crores)

| S.No | Crop | Value (Crores) |
|------|--------------|----------------|
| 1 | Chillies | 4830.00 |
| 2 | Cashew | 4367.40 |
| 3 | Banana | 3729.18 |
| 4 | Mango | 2862.00 |
| 5 | Tomato | 2251.20 |
| 6 | Coconut | 1900.70 |
| 7 | Sweet orange | 1368.00 |
| 8 | Oilpalm | 1152.75 |
| 9 | Papaya | 878.40 |
| 10 | Turmeric | 755.00 |
| 11 | Brinjal | 678.00 |
| 12 | Onion | 664.80 |
| 13 | Lime | 510.00 |
| | Total | 25947.43 |

istrict wise and Crop wise break-up

| Sno | Crop | Area | Production | Value in Crores | District |
|-----|---------|-------|------------|--------------------|---------------|
| | | 16893 | 5.91 | 1075.62 | East Godavari |
| | | 15685 | 5.49 | 999.18 | Kadapa |
| | | 9760 | 3.42 | 622.44 | Ananthapur |
| 1 | Banana | 6932 | 2.43 | 442.26 | Guntur |
| | | 5819 | 2.05 | 373.10 | Kurnool |
| | | 1732 | 0.6 | 109.20 | Krishna |
| | | 1698 | 0.59 | 107.38 | Chittoor |
| | | 13433 | 2.68 | 536.00 | East Godavari |
| 2 | Brinjal | 1987 | 0.4 | 80.00 | Ananthapur |
| | | 1575 | 0.31 | 62.00 | Vizianagaram |
| | | 31758 | 0.32 | 38.40 | East Godavari |
| | | 33989 | 0.21 | 25.20 | Visakhapatnam |
| 3 | Cashew | 25230 | 0.14 | 16.80 | Srikakulam |
| | | 18179 | 0.11 | 13.20 | Vizianagaram |
| | | 19231 | 0.09 | 10.80 | West Godavari |

| Sno | Crop | Area | Production | Value in Crores | District |
|-----|-----------|--------|------------|--------------------|---------------|
| | | 127722 | 5.75 | 2875.00 | Guntur |
| | | 25484 | 1.15 | 575.00 | Prakasam |
| | | 4325 | 1.08 | 540.00 | Ananthapur |
| 4 | Chillies | 1900 | 0.85 | 425.00 | Krishna |
| | | 7453 | 0.33 | 165.00 | West Godavari |
| | | 6953 | 0.31 | 155.00 | Srikakulam |
| | | 4421 | 0.19 | 95.00 | Nellore |
| | | 49270 | 7390 | 886.80 | East Godavari |
| | | 20652 | 3097 | 371.64 | West Godavari |
| _ | | 18645 | 2796 | 335.52 | Srikakulam |
| 5 | 5 Coconut | 8700 | 1305 | 156.60 | Visakhapatnam |
| | | 8300 | 1245 | 149.40 | Vizianagaram |
| | | 4090 | 6.13 | 0.74 | Krishna |

Crop wise break-up Contd..

| Sno | Crop | Area | Production | Value in Crores | District |
|-----|---------|-------|------------|--------------------|---------------|
| 6 | Lime | 17000 | 2.55 | 510.00 | Nellore |
| | | 73527 | 6.62 | 794.40 | Chittoor |
| | | 64770 | 5.83 | 699.60 | Krishna |
| | | 39738 | 3.58 | 429.60 | Ananthapur |
| | | 24000 | 2.16 | 259.20 | Kadapa |
| 7 | Mango | 18433 | 1.66 | 199.20 | East Godavari |
| ′ | iviango | 12130 | 1.09 | 130.80 | Nellore |
| | | 10041 | 0.9 | 108.00 | Srikakulam |
| | | 9583 | 0.86 | 103.20 | Kurnool |
| | | 7097 | 0.63 | 75.60 | Prakasam |
| | | 5870 | 0.52 | 62.40 | Visakhapatnam |
| | | 71420 | 8.21 | 615.75 | West Godavari |
| | | 28102 | 3.23 | 242.25 | East Godavari |
| 8 | Oilpalm | 13481 | 1.55 | 116.25 | Krishna |
| ۰ | Olipalm | 10476 | 1.2 | 90.00 | Vizianagaram |
| | | 6965 | 0.8 | 60.00 | Visakapatnam |
| | | 3341 | 0.38 | 28.50 | Srikakulam |

| Sno | Crop | Area | Production | Value in Crores | District |
|-----|-----------------|-------|------------|-----------------|--------------|
| | | 14466 | 2.61 | 313.20 | Kurnool |
| | | 8930 | 1.6 | 192.00 | Chittoor |
| 9 | Onion | 4735 | 0.85 | 102.00 | Kadapa |
| | | 1478 | 0.26 | 31.20 | Guntur |
| | | 1229 | 0.22 | 26.40 | Vizianagaram |
| 10 | | 7893 | 6.31 | 757.20 | Ananthapur |
| 10 | Papaya | 1252 | 1.01 | 121.20 | Chittoor |
| | | 55905 | 7.55 | 906.00 | Ananthapur |
| 11 | 11 Sweet orange | 18374 | 2.48 | 297.60 | Prakasam |
| | | 10120 | 1.37 | 164.40 | Kadapa |

5

Crop wise break-up Contd..

| Sno | Crop | Area | Production | Value in Crores | District | |
|-----|----------|--------|------------|-----------------|--------------|---------------|
| | | 22149 | 4.43 | 531.60 | Kurnool | |
| | | 19727 | 3.95 | 474.00 | Chittoor | |
| | | 15755 | 3.16 | 379.20 | Kadapa | |
| 12 | - | 12464 | 2.49 | 298.80 | Guntur | |
| 12 | Tomato | Iomato | 9268 | 1.85 | 222.00 | West Godavari |
| | | 66677 | 1.33 | 159.60 | Vizianagaram | |
| | | 4735 | 0.94 | 112.80 | Nellore | |
| | | 3054 | 0.61 | 73.20 | Prakasam | |
| | | 8975 | 0.54 | 270.00 | Guntur | |
| 12 | - | 7012 | 0.42 | 210.00 | Kurnool | |
| 13 | Turmeric | 5012 | 0.3 | 150.00 | Kadapa | |
| | | 4181 | 0.25 | 125.00 | Visakapatnam | |

BEST PRACTICES TO ENHANCE PRO UCTIVITY

| SI. No | Name of the crop | Present productivity (MT / Ha) | Expected productivity (MT / Ha) | Best Practices |
|-----------|------------------|--------------------------------------|---------------------------------|---|
| 1 | Mango | 9 | 12 | High density plantation, rejuvenation, canopy management, topworking and micro irrigation and fertigation, Soil and leaf analysis |
| 2 | Banana | 35 | 50 | Use of tissue culture saplings,staking ,IPN/INM and microirrigation and fertigation |
| 3 | Papaya | 80 | 100 | Usage of gynodioecious lines (Red lady, Surya), IPM/INN micro irrigation and fertigation |
| 4 | Sweet Orange | 15 | 18 | Promotion of budlings grafted on rangapurlime,use of certified budwood material,rejuvenation, INM/IPM, micro irrigation |
| 5 | Pomegranate | 15 | 20 | Use of high yielding varieties, IPM/INM, drip irrigation, mulching, high density plantation |
| 6 | Cashew | 0.8 | 1.10 | Usage of grafts and high yielding varieties, drip irrigatio mulching, INM/IPM |
| 7 | Oilpalm | 10 | 20 | Usage of high yielding varieties, micro sprinklers,INM/IP micro nutrients |
| 8 | Coconut | 70 nuts/tree/year | 100 nuts/ tree/year | Usage of recommended varieties, drip irrigation,IPM/INI |
| 9 | Onion | 18 | 20 | Usage of hybrid varieties, drip irrigation and fertigation correct method and right stage of harvesting,proper ventilated storage structure |
| 10 | Tomato | 20 | 40 | Use of F1 hybrids, semi indeterminate type, trellies, greenhouse/polyhouse /shadenet cultivation, mulching |

Promotion of FPOs For Horti.crops

| Sl. No | Crop | Districts &Number of FPOs | Number of farmers | Budget required (Rs in lakhs) |
|--------|----------|------------------------------|-------------------|-------------------------------------|
| 1 | Tomato | Kurnool-3 Chitoor-3 | 6000 | 240.00 |
| 2 | Onion | Kurnool-3 | 3000 | 120.00 |
| 3 | Chillies | Guntur-3 Prakasam-3 | 6000 | 240.00 |
| 4 | Banana | Kurnool-3 Ananthapuramu-3 | 6000 | 240.00 |
| | TOTAL | 21 | 21000 | 840.00 |

Micronutrient intervention for Horti crops

| Crop | Gross area (Lakh ha) | MNs targeted (Lakh ha) | Productivity (tons/ha) | Price/tone (Rs) | Addl. yield (t/ha) | Additional value (crore) | |
|---------------|----------------------------|---------------------------|---------------------------|--------------------|-----------------------|-----------------------------|--|
| Chillies | 2.12 | 0.636 | 5 | 15000 | 0.50 | 48 | |
| Tomato | 1.67 | 0.501 | 20 | 12000 | 2.00 | 120 | |
| Onion | 0.55 | 0.165 | 18 | 15000 | 1.80 | 45 | |
| Banana | 0.9 | 0.27 | 35 | 25000 | 3.50 | 236 | |
| рарауа | 0.19 | 0.057 | 80 | 35000 | 8.00 | 160 | |
| Cashewnut | 0.82 | 0.246 | 1.2 | 65000 | 0.18 | 29 | |
| Oilpalm | 1.05 | 0.315 | 12 | 6500 | 1.80 | 37 | |
| Mango | 3.04 | 0.912 | 9 | 20000 | 1.35 | 246 | |
| Sweet orange | 0.98 | 0.369 | 12 | 25000 | 1.80 | 16 | |
| | 11.32 | 3.471 | 192.2 | | | 936 | |
| Budget requir | Budget required | | | | | | |

| Tomato | | | | | |
|---------------|--------------|---|---|--|--|
| District | Area (Ha) | Constraints/Issues | Interventions | | |
| Kurnool | 2500 | Lack of improved varieties, Lack of varieties suitable for | Introduction of high yielding varieties; open pollinated varieties suitable for | | |
| Chitoor | 2500 | Lack of varieties suitable following processing, Incidence of bacterial wilt, Improper staking, Lack of processing industries, Postharvest losses | open polimitate varieties solitable foli processing; Proper staking and trellising; Protected cultivation; mulching; drip irrigation/fertigation; Integrated Pest Management(IPM) Introduction of fresh produce handling and processing technologies that are compatible with value chain requirements | | |
| Present value | 5000 | 150 Cr | Projected: 300 Cr | | |



| District | Area (Ha) | Constraints/Issues | Interventions |
|---------------|--------------|--|---|
| Guntur | 2500 | Improper drying, Aflatoxin contamination, | Introduction of simple solar dryers and good drying practices |
| Prakasam | 2500 | Indiscriminate use of pesticides Susceptibility to Leaf curl virus | Journal practices. Introduction of IPM and other good agricultural practices, Pesticide residue testing, Promotion of varieties resistant to leaf curl virus, suitable for oleoresin extraction, and suitable for rapid drying |
| Present value | 5000 | 125 Cr | Projected: 225 Cr |





| District | Area (Ha) | Constraints/Issues | Interventions |
|----------|--------------|--|--|
| Kurnool | 5000 | Lack of improved varieties Low bulb size Improper storage & drying facility Onion blight Poor nursery management | Introduction of improved varieties, IPM & Integrated Nutrient Management (INM), Solar dryers, Improved handling and storage techniques and facilities Introduction of improved handling and storage techniques and facilities |
| Present | 5000 | 120 Cr | Projected: 150 Cr |



Eggplant (Brinjal

| District | Area (Ha) | Constraints/Issues | Interventions |
|----------------|--------------|----------------------------------|-------------------------------|
| East Godhavari | 2500 | Fruit & Shoot borer | • IPM |
| Vijayanagaram | 2500 | Indiscriminate use of pesticides | Mulching & drip irrigation |
| Present value | 5000 | 75 Cr | Projected: 108 Cr |



INTERVENTIONS TO INCREASE YIEL S OF MAJOR HORTICULTURE CROPS

| SI. No | Crop | Present Yield | Increased yield due to interventions | % of increase | Interventions |
|-----------|------------------|---------------|--------------------------------------|---------------|--|
| 1 | Cashew | 0.7 Tons / Ha | 1.0 Ton | 40% | Cashew Graft Rejuvenation IPM rip Fertigation Mulching Farm Mechani ation processing units |
| 2 | Mango | 9 Ton / Ha | 12 Ton | 30% | High ensity plantation IPM Rejuvenation Canopy Management rip Fertigation |
| 3 | Pomegranate | 10 Ton / Ha | 15 Ton | 50% | Good Management Practices IPM Mulching rip Fertigation |
| 4 | Banana (T.C) | 35 Ton / Ha | 50 Ton | 42% | T.C. Banana High ensity rip Mulching |
| 5 | Papaya | 80 Ton / Ha | 90 Ton | 12% | Viral resistant varieties IPM rip Fertigation |
| 6 | Tomato | 20 Ton/Ha | 150 Ton / Ha | 65% | Poly houses Shadenet houses IPM Mulching Fertigation |
| 7 | Onion | 18 Ton / Ha | 20 Ton / Ha | | New Varieties rip storage structures value addition onion flakes |
| 8 | Other vegetables | 12 Ton | 18 Ton / Ha | | rip Irrigation Fertigation Minimal processing units |

E PECTE INCREASES BY THE NEW INTERVENTIONS IN HORTICULTURE CROPS URING 2015-16

| SI. No | Name of the Component | Crop | Area (in Acres) | Yield (per Acre) | Total Yield | Rate / Ton | Total Value (in Crores) (Revenue for one year) |
|-----------|--|------------------|--|---------------------|----------------------------------|-------------------|---|
| | Protected Cultivation | Capsicum | 300 | 50 T | 15000 T | 40,000 | 60.0 |
| | Poly Houses / Shadenet Houses | Chinese eera | 300 | 4 T | 1200 T | 15,000 | 1.8 |
| 1 | | H. Tomato | 200 | 60 T | 12000 T | 10,000 | 12.0 |
| | Roses | | 100 | | 7 Crores | Rs. 4/- Flower | 28.0 |
| | | | | | | Rs. 7/- | 49.00 (Expor |
| | SUB-TOTAL | | 900 | | | | 150.8 |
| | Area expansion with Micro Irrigation | on | | | | | |
| 2 | Tissue Culture Banana | T.C. Banana | 5000 | 30 T | 150000 | 10,000 | 150.0 |
| 3 | Pomegranate | Pomegranate | 2000 | 7 T | 14000 | 55,000 | 77.0 |
| 4 | Papaya | Papaya | 2000 | 80 | 16000 | 10,000 | 16.0 |
| 5 | Cocoa area expansion | Cocoa | 10000 | 1 T | 10000 | 1.5 lakh / Ton | 150.0 |
| 6 | Micro Irrigation | Micro Irrigation | 2,50,000 (Acres) | 30% in acres | 12.5 Tons (increase yield) | 20000 | 25.0 |
| 7 | Post Harvest Losses | - | 210 units (each 5000 MTs Capacity) | 30% (Saving) | 1.05 Lakh MT (10%) | 20000 | 210.0 |
| 8 | Vegetable cultivation under pandals, trellies and urban clusters | Vegetables | 10,000 | 25 T | 2.5 Lakh MT | 20000 | 500.0 |
| 9 | Oilpalm | Oilpalm | 2.50 Lakhs | 20 T | 50 Lakh MT | 7000 | 3500.0 |
| | TOTAL | | | | | | 4778.8 |

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istrict wise Crop wise break-up

| S.No | District | Crop | Value (crores) |
|------|---------------|--------------|----------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | Sweet orange | 90 |
| | | Papaya | 7: |
| | | Banana | 6 |
| | A | Chillies | 54 |
| | Anantapur | Mango | 4 |
| | | Water melons | 1 |
| | | Brinjal | |
| | | Pomogranate | |
| | | Mango | 7: |
| | | tomato | 4: |
| 2 | Chittoor | Onion | 1 |
| • | Cnittoor | Bhendi | 1 |
| | | Papaya | 1 |
| | | Banana | 1 |
| | | Banana | 10 |
| | | Coconut | 8 |
| | | Brinjal | 5 |
| 3 | East Godavari | Oilpalm | 24 |
| | | Mango | 1 |
| | | Cashew | |
| | | Cocoa | 0 |

| S.No | District | Crop | Value (Crores) |
|------|----------|--------------|----------------|
| | | Chillies | 2875 |
| | | Banana | 442 |
| 4 | Guntur | tomato | 299 |
| | | Turmeric | 270 |
| | | Onion | 31 |
| | | Banana | 999 |
| 5 | | Tomato | 379 |
| | Kadapa | Mango | 259 |
| | | Sweet orange | 164 |
| | | Turmeric | 150 |
| | | Onion | 102 |
| | | Mango | 700 |
| | | Chillies | 425 |
| 6 | Krishna | Oilpalm | 116 |
| | | Banana | 109 |
| | | Coconut | 0.7 |
| | | tomato | 532 |
| | | Banana | 373 |
| 7 | Kurnool | Onion | 313 |
| | | Turmeric | 210 |
| | | Mango | 103 |

istrict wise Crop wise break-up contd...

15

istrict wise Crop wise break-up contd...

| S.No | District | Стор | Value (Crores) |
|------|------------|--------------|----------------|
| | | Lime | 510 |
| | | Mango | 131 |
| 8 | Nellore | tomato | 113 |
| | | Chillies | 95 |
| | | Chillies | 575 |
| | | Sweet orange | 298 |
| 9 | Prakasam | Bhendi | 92 |
| | | Mango | 76 |
| | | tomato | 73 |
| | | Sapota | 72 |
| | | Coconut | 336 |
| | | Chillies | 155 |
| 10 | Srikakulam | Pineapple | 133 |
| 10 | Srikakulam | Mango | 108 |
| | | Oilpalm | 29 |
| | | Cashew | 17 |

istrict wise Crop wise break-up contd...

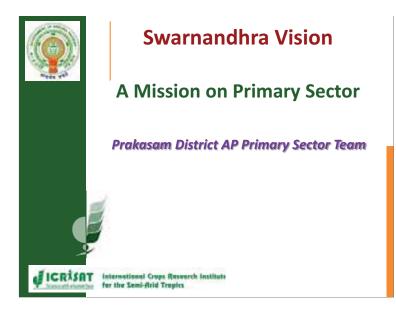
| S.No | District | Crop | Value (Crores) | | |
|------|----------------|----------|----------------|--|--|
| | | Coconut | 157 | | |
| | | Turmeric | 125 | | |
| | | Coffee | 95 | | |
| 11 | Visakhapatnam | Ginger | 95 | | |
| | | Mango | 62 | | |
| | | Oilpalm | 60 | | |
| | | Cashew | 25 | | |
| | | Tomato | 160 | | |
| | | Coconut | 149 | | |
| 12 | Vizianagaram | Oilpalm | 90 | | |
| | Vizialiagarani | Brinjal | 62 | | |
| | | Onion | 26 | | |
| | | Cashew | 13 | | |
| | | Oilpalm | 616 | | |
| | | Coconut | 372 | | |
| | | Tomato | 222 | | |
| 13 | West Godavari | Chillies | 165 | | |
| | | Cashew | 11 | | |
| | | Cocoa | 0.5 | | |

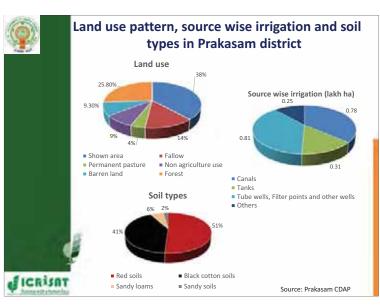
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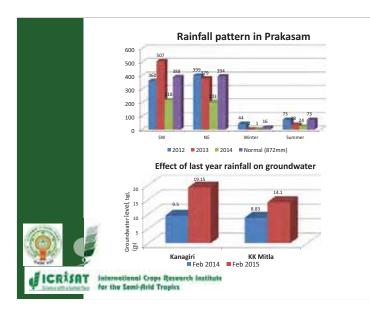


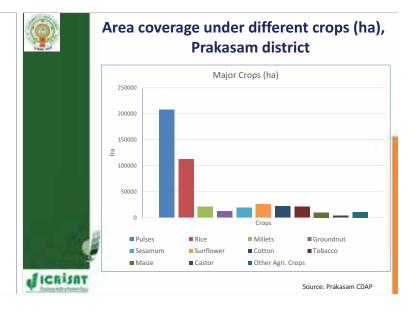
Thank You

19









Process Adopted for Sites Selection and Benchmark Characterization in Prakasam

Criteria adopted

- > Representative site for the district
- Good potential for impact to bridge the gaps
- Accessibility
- ➤ Willingness to adopt new
- > Presence of suitable institutions
- > Predisposition for change

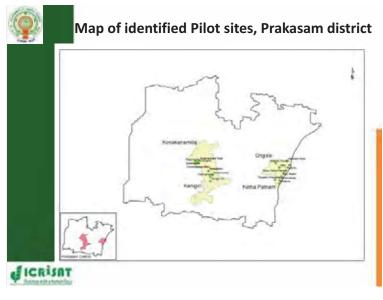
Process

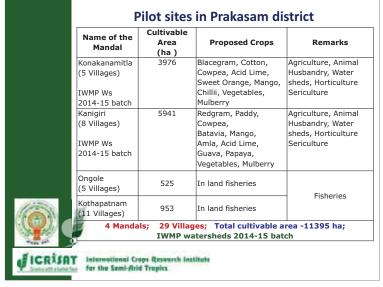
- > Stakeholders' consultations
 - District collector
 - CPO
 - JD of all line departments
 - Farmers
- Consultation with all line Departments
 - Mandal level staff of all line departments

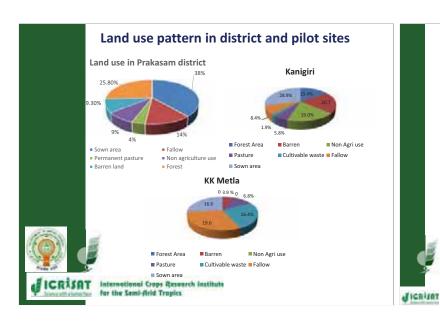


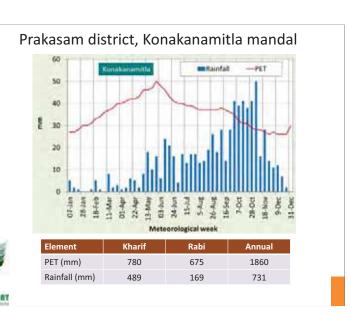
Group discussion and field visit for identification pilot sites

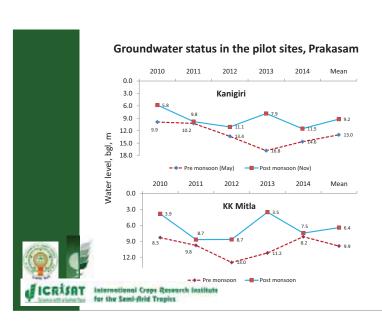














d ICRISAT

Major constraints

Agriculture

- Erratic rainfall
- Water scarcity
- Low crop yields
- Poor soils

Livestock

- Fodder scarcity (particularly green fodder)
- Low livestock productivity

Fisheries

- · Non availability of quality fish seeds
- Low survival of rate due to diseases
- No technical support
- Irregular power supply for prawn farming
- Needs to strengthen capacity building program

Horticulture

- Very low area under horticulture and vegetables
- Needs to strengthen capacity building program

Prakasam district - Pilot site specific growth engines with area (kharif + rabi), production and GVA

| | | | 2014-15 | | | 2015-16 | | |
|---------------------|------------------|-------|-------------------|---------------------------------|--------------|-------------------|---------------------------------|-------------------------|
| Sector | Sector Commodity | | Production (t) | Gross Value (Rs Crore) | Area (ha) | Production (t) | Gross Value (Rs Crore) | Increase in % GVA |
| | o a | 18 1 | 1 0 | 10.31 | 1 3 | 1 5 | 1 .88 | 5 |
| | la a | 13 1 | 8 | 5.15 | 1 15 | 101 | .30 | |
| Agriculture | o a | 5 8 | | 1. 5 | 55 | 3 | 1.81 | 5 |
| - | a | 13 5 | 5051 | 8. 3 | 150 | 158 | 10. 8 | |
| | otto | 0 | 518 | .10 | | 31 | .55 | |
| | I | 3 . | 5 | 0.00 | 3 . | 1 .8 | 0.010 | 0 |
| Horticulture | a o | 13. | 1 8 | 0.003 | 13. | 3 . | 0.003 | 0 |
| | t a | 8.8 | 103 | 0.0 0 | 8.8 | 1 38. | 0.0 35 | 0 |
| Livestock | - 1 | 10183 | 50 1.5 | 11. 0 | 10183 | 3 | 1 .00 | 5 |
| | at | 388 | 3 | 11.0 | 1 1 | | 13.11 | 1 |
| | 0. | 33 | 13 5 1 | . 3 | | 1 0 3 | 3. 1 | 5 |
| Fisheries | а | 1 | 8 8 | 35.11 | 1 10 | | 3.885 | 5 |
| Sub Totals | | | | | | | | |
| Agriculture | | 5865 | 8360 | 27.45 | 6143 | 10262 | 33.83 | 23 |
| Horticulture | | 122 | 1824 | 0.03 | 122 | 2189 | 0.04 | 20 |
| Livestock (nos.) | | 10265 | 6322 | 24.99 | 10265 | 7840 | 30.53 | 22 |
| Fishery | | 219 | 878 | 35.11 | 219 | 1097 | 43.89 | 25 |
| Grand Total | | 16471 | 17383 | 81.31 | 16749 | 21388 | 100.44 | 24 |



Interventions **Agriculture**

Paddy

- Creating awareness on soil health through soil testing
- Awareness on use of FYM, green manure and organic inputs
- Supply of farm machinery, training on ICM practices and DSR method
- Micronutrient application

Other Rainfed crops

- •Improved crop varieties
- •Soil test based balanced fertilizer and use of organic and bio fertilizers
- •Integrated crop management and in-situ and ex-situ water conservation
- •High density planting in cotton

Horticulture

- •Improved varieties and grafted fruit plants for higher yield
- Vegetable crops
- · Good quality seed
- Efficient water management through drip irrigation
- Encourage to grow high value vegetables in shade nets
- Balanced fertilizer and use of organic and bio fertilizers
- Integrated crop management



International Crops Research Institute for the Semi-firid Tropics



Livestock

Milk

Increase the number of better yielding cattle

International Crops Research Institute for the Semi-Arid Tropics

- Supply of good quality feed with better digestibility
- Better feeding practices

Meat

- •Introduce breeds that produce more meat
- •Regular health care of animals
- •Rejuvenating garzing land

- Back vard poultry
- •Strengthening support to poultry farms

- •Strengthening the participation of officials from Fisheries department and MPEDA
- •Strict enforcement of policy on the stake holders to purchase seed from CAA approved hatcheries
- •Introduction of improved sp. Like sea bass, thalapia. Etc.
- •Proposed for a mobile lab for water quality testing for aqua farmers
- •Supply of quality SPF brooder seed



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for the Semi-firid Tropics



Conclusion

- The pilot area is covered under IWMP 2014-15 batch, planning of watershed interventions for holistic development is critical
- There is a good scope for enhancing the crop yields by 20-30 % through integrated crop management package
- · Area under horticultural crops are vey small, there is a good scope to bring in vegetable and suitable horticultural crops with water conservation measures
- Fisheries sector needs to be focused for significant enhancement in the productivity in pilot site mandals of Kothapatnam and Ongole
- Sericulture the new introduction in the pilot area



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Detailed data used for GVA calculation





Agriculture

| | Village | Crop | | 2014-15 | | | | | provement in 2015 | 16 | | |
|-------------|-------------|------------------|------|---------------------|---------|------|-----------|-----------|---------------------|--------|---------------|-----------|
| a al | | | | Productivity (t/ha) | | | GVA (Rs) | Area (ha) | Productivity (t/ha) | | MRP (Rs/) | GVA (Rs) |
| anagiri | all alla | la a | | | 5.5 | 0 | | 100 | 0. | | 5500 | 0.3 |
| anagiri | 8 8 8 8 | la a | 10 | 0. 5 | 5.5 | | 1.5 | 38 | 0. | 315.3 | 0 | 1. 8 |
| anagiri | a a | la a | 8 | 0. 5 | 30 | 0 | 0.18 | 50 | 0. | 3 | 0 | 0. 5 |
| onakanamitl | a a a ala a | la a | 5 | 0. 5 | 18 .3 5 | 0 | 1.151 | 31 | 0. | . 8 | 0 | 1. 33 |
| onakanamitl | a a a | la a | 10 | 0. 5 | 5 . 5 | 0 | 1.5 | 38 | 0. | 315.3 | 0 | 1. 8 |
| anigiri | 0 0 | la a | | 0. 5 | .5 | 0 | 0. 5 | | 0. | 50. | 0 | 0.31 |
| | | Black gram | 1321 | | 825.625 | | 5.1519 | 1415 | | 1018.8 | | 6.304032 |
| | | | | | | | | | | | | |
| onakanamitl | a a all | otto | 350 | 0. | 5 | 050 | 0. | 350 | 0.85 | .5 | 050 | 1. 05 |
| onakanamitl | ala tala | | 3 0 | 0. | 3 | | 1.10 | | | 333. | 050 | 1.3 |
| | | Cotton | 740 | | 518 | | 2.0979 | 742 | | 630.7 | | 2.554335 |
| | | | | | | | | | | | | |
| anigiri | a a | 0 8 | 38 | 0. 81 | 18. 8 | 5500 | 0.101 | 0 | 0.55 | | 5500 | 0.1 1 |
| onakanamitl | otla att | | | 0. 81 | | 5500 | | 51 | 0. | | 5500 | 1. 0 |
| | | Cowpea | 548 | | 263.588 | | 1.449734 | 552 | | 329.2 | | 1.8106 |
| | | | | | | | | | | | | |
| anigiri | all alla | a | 3 5 | 3. | 1 0 .5 | 1 0 | | 35 | .1 | 1 3. | 1 0 | . 10 |
| anigiri | a a ta | a | 50 | 3. | 1 5 | 1 0 | . 81 | 500 | .1 | 050 | 1 0 | 3. |
| anigiri | 0 0 | | 5 0 | 3. | 183 | 1 0 | 3. | 50 | .1 | 5 | 1 0 | . 51 |
| | | Paddy | 1365 | | 5050.5 | | 8.434335 | 1502 | | 6158.2 | | 10.284194 |
| | | | | | | | | - | | - | | |
| anigiri | all alla | 0 a | | 0. | 383. | 0.0 | .3 3 | | 1.1 | 5. | 0.0 | .880 |
| anigiri | a a | | | 0. | 130.5 | | 0. 1 | | 1.1 | 1 5 | 0.0 | 1.000 |
| anigiri | a a all | 0 8 | | lo. | 8 | 0.0 | 3. | | 1.1 | 8 5 | 0 0 | 5.000 |
| anigiri | 0 0 | o a Pigeonpea | | u. | | 0 0 | | | | 0 | | |
| | | rigeonpea | 1891 | | 1701.9 | | 10.313514 | 1932 | | 2125.2 | - | 12.878712 |
| | | | | | | | | | | | _ | |
| | | Gr. Total | 5865 | | 8360 | | 27.45 | 6143 | | 10262 | | 33.83 |



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Livestock - Milk

| | Total | Milk | 10183 | | 5091.5 | | 11.20 | 10183 | | 6364 | | 14.0 |
|-------------|----------|-------------|----------------|------------------------------|--------------------|-----------------------|-------------|----------------|------------------------------|--------------------|-----------------------|-------------|
| o a a a tla | otla att | 1 | 2356 | 0.50 | 11 8 | 00 | .5 | 2356 | 0. 3 | 1 3 | 00 | 3. 0 |
| oaaa tla | a aaalaa | 1 | 485 | 0.50 | 3 | 00 | 0.53 | 485 | 0. 3 | 303 | 00 | 0. |
| o a a a tla | a a all | 1 | 366 | 0.50 | 183 | 00 | 0. 03 | 366 | 0. 3 | | 00 | 0.503 |
| oaaa tla | a a a | 1 | 832 | 0.50 | 1 | 00 | 0. 15 | 832 | 0. 3 | 5 0 | 00 | 1.1 |
| o a a a tla | ala tala | 1 | 266 | 0.50 | 133 | 00 | 0. 3 | 266 | 0. 3 | 1 | 00 | 0.3 |
| a a | 0 0 | 1 | 1400 | 0.50 | 00 | 00 | 1.5 0 | 1400 | 0. 3 | 8 5 | 00 | 1. 5 |
| a a | a a all | 1 | 990 | 0.50 | 5 | 00 | 1.08 | 990 | 0. 3 | 1 | 00 | 1.3 |
| a | a a | 1 | 726 | 0.50 | 3 3 | 00 | 0. | 726 | 0. 3 | 5 | 00 | 0. 8 |
| a | all alla | 1 | 2458 | 0.50 | 1 | 00 | . 0 | 2458 | 0. 3 | 153 | 00 | 3.380 |
| a | a a ta | 1 | 304 | 0.50 | 15 | 00 | 0.33 | 304 | 0. 3 | 1 0 | 00 | 0. 18 |
| unuu | | | | | | | Crores | | | | | |
| landal | Village | Particulars | Animal Nos. | Producti vity (t/year) | Producti on (t) | MRP (Rs/100k g) | GVA (Rs) | Animal Nos. | Producti vity (t/year) | Producti on (t) | MRP (Rs/100k g) | GVA (Rs) |
| | | | | | 4-15 | | | | | ement in | | |

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| landal a a | 'illage | Particulars | | | | | | | | | | |
|------------------|-------------------|------------------------------|----------------|---------------------------|-----------|-----------------------|----------|----------------|---------------------------|-----|------------------|---------|
| a | | | Animal Nos. | Productivi ty (t/year) | Productio | MRP (Rs/100kg) | GVA (Rs) | Animal Nos. | Productivi ty (t/year) | | MRP (Rs/100kg | GVA (Rs |
| a | | | | | | | Crores | | | | | |
| | a a ta | at | 960 | | | 30000 | 0. 85 | 1075 | | 11 | 30000 | 0.31 |
| | all alla | at | 7403 | | 3 | 30000 | .1 | 8291 | | 8 | 30000 | . 58 |
| a | a a | at | 2504 | | 5 | 30000 | 0. | 2804 | | 8 | 30000 | 0.831 |
| | a a all | at | 3788 | | 3 | 30000 | 1.1 3 | 4243 | | | 30000 | 1. 5 |
| | 0 0 | at | 2795 | | 8 | 30000 | 0.8 8 | 3130 | | 31 | 30000 | 0. 8 |
| oaaa tla | ala tala | at | 696 | | | 30000 | 0. 0 | 780 | | 8 | 30000 | 0. 31 |
| o a a a tla | a a a a | at | 3017 | | 30 | 30000 | 0.8 | 3379 | | 33 | 30000 | 1.00 |
| | a a all | at | 569 | | | 30000 | 0.1 | 637 | | | 30000 | 0.18 |
| o a a a tla | a a a ala a | at | 1088 | | 11 | 30000 | 0.3 | 1219 | | - 1 | 30000 | 0.3 1 |
| oaaa tla | otla att | at | 3783 | | 3 | 30000 | 1.1 1 | 4237 | | | 30000 | 1. 5 |
| a | a a ta | at alo | 304 | | 3 | 30000 | 0.08 | 350 | | 3 | 30000 | 0.10 |
| a | all alla | at alo | 2458 | | | 30000 | 0. | 2827 | | 8 | 30000 | 0.838 |
| a | a a | at alo | 726 | | | 30000 | 0.1 | 835 | | 8 | 30000 | 0. |
| a a | a a all | at alo | 990 | | | 30000 | 0. | 1139 | | 11 | 30000 | 0.33 |
| a a | 0 0 | at alo | 1400 | | 13 | 30000 | 0.3 8 | 1610 | | 1 | 30000 | 0. |
| oaaa tla | ala tala | at alo | 266 | | | 30000 | 0.0 | 306 | | 3 | 30000 | 0.0 1 |
| o a a a tla | a a a | at alo | 832 | | | 30000 | 0. 5 | 957 | | | 30000 | 0. 8 |
| oaaa tla | a a all | at alo | 366 | | 3 | 30000 | 0.0 | 421 | | | 30000 | 0.1 5 |
| oaaa tla | a a a ala a | at alo | 485 | | | 30000 | 0.131 | 558 | | | 30000 | 0.1 5 |
| oaaa tla | otla att | at alo | 2356 | | 1 | 30000 | 0. 3 | 2709 | | | 30000 | 0.803 |
| a | a a ta | Poultry meat | 34 | 1 | 0.2 | 10000 | 0.00 | 39 | | 0 | 10000 | 0.00 |
| a | all alla | Poultry meat | 3200 | | 19.2 | 10000 | 0.1 | 3680 | | 3 | 10000 | 0.3 |
| a | a a | Poultry meat | 1887 | | 11.3 | 10000 | 0.113 | 2169 | | 1 | 10000 | 0. 1 |
| | a a all | Poultry meat | 305 | | 1.8 | 10000 | 0.018 | 350 | | 3 | 10000 | 0.035 |
| | 0 0 | Poultry meat | 472 | | 2.8 | 10000 | 0.0 8 | 543 | | 5 | 10000 | 0.05 |
| | ala tala aaa a | Poultry meat | 269 | | 1.6 | 10000 | 0.01 | 309 | | 3 | 10000 | 0.031 |
| oaaa tla | a a a a | Poultry meat | 520 | | 3.1 | 10000 | 0.001 | 598 159 | | | 10000 | 0.03 |
| | aa all aaaalaa | Poultry meat | | | 0.8 | 10000 | 0.008 | | | | 10000 | 0.01 |
| | otla att | Poultry meat Poultry meat | 139 | | 0.8 | 10000 | 0.008 | 159 159 | | | 10000 | 0.01 |
| o a a a tla | oua dtt | Poultry meat Meat | 43887 | | 397 | 10000 | 11.06 | | | 491 | | 13. |



Livestock - Egg

| | | | | 2014-15 | | | Expected improvement in 2015-16 | | | | | |
|-------------|----------|-----------|----------------|------------------------------|----------|-----------------------|---------------------------------|----------------|------------------------------|---------|-----------------------|--------|
| | | | | _ | | _ | | | | | | |
| Mandal | Village | | Animal Nos. | Producti vity (t/year) | Producti | MRP (Rs/100k g) | GVA (Rs) | Animal Nos. | Producti vity (t/year) | on (t) | MRP (Rs/100k g) | GVA (R |
| | | | | | | | Crores | | | | | |
| a | a a ta | | 33.5 | | 6700 | 2 | 0.013 | 41.875 | | 8375 | 2 | 0.01 |
| a | all alla | | 3200 | | 640000 | 2 | 1. 80 | 4000 | | 800000 | 2 | 1. 00 |
| a | a a | | 1886.5 | | 377300 | 2 | 0. 55 | 2358.125 | | 471625 | 2 | 0. 3 |
| a a | a a all | | 304.5 | | 60900 | 2 | 0.1 | 380.625 | | 76125 | 2 | 0.15 |
| a a | 0 0 | | 472 | | 94400 | 2 | 0.18 | 590 | | 118000 | 2 | 0. 3 |
| o a a a tla | ala tala | | 268.5 | | 53700 | 2 | 0.10 | 335.625 | | 67125 | 2 | 0.13 |
| o a a a tla | a a a a | | 520 | | 104000 | 2 | 0. 08 | 650 | | 130000 | 2 | 0. 0 |
| o a a a tla | a a all | | 138.5 | | 27700 | 2 | 0.055 | 173.125 | | 34625 | 2 | 0.0 |
| o a a a tla | a aaalaa | | 0 | | 0 | 2 | 0.000 | 0 | | 0 | 2 | 0.000 |
| o a a a tla | otla att | | 910 | | 1091.4 | 2 | 0.00 | 1136.875 | | 1364.25 | 2 | 0.003 |
| | | Egg | 7733 | | 1365791 | | 3 | 9666 | | 1707239 | | 3.41 |
| | | Gr. Total | 61803 | | 1371280 | | 24.99 | 69521 | | 1714094 | | 30.53 |

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Horticulture

| | | Sweet Orange | 68.8 | | 1032 | | 0.019608 | 68.8 | | 1238.4 | | 0.023529 |
|--------------------|--------------|--------------|------|----------------------------|-------------------|--------|----------|---------------------------------|----------------------------------|--------|------|-------------|
| nigiri | а | t a | - | 15 | 33 | 1900 | 0.00 | - | 18 | 03. | 1900 | 0.008 |
| anigiri | a a all | t a | .8 | 15 | 3 | 2500 | 0.00 | | 18 | | 1300 | 0.008 |
| anagiri | a a ta | toa | 1. | 15 | 3 | | 0.00 | | _ | 388.8 | | 0.00 |
| | | | | | | | | | | | | |
| anigiri | a a all | Mango | 13.2 | 15 | 198 | 1500 | 0.003 | 13.2 | 18 | 237.6 | 1500 | 0.004 |
| | | | 39.6 | | 594 | | 0.00891 | 39.6 | | 712.8 | | 0.010692 |
| | | | | | | | | | | | | |
| | Garimenpenta | - I | | 15 | 1 | 1500 | 0.00 | | 18 | 1 .8 | 1500 | 0.003 |
| onakanamitla | atrgunta | 1 | 10. | 15 | 15 | | 0.00 | 10. | 18 | | | 0.003 |
| anigiri anigiri | a and | | 10. | - | 15 | | | | 18 | _ | | 0.003 |
| andal | all alla | | | Product ivity (t/ha) | Production (t) | (Rs/) | | | Product ivity (t/ha) 18 | | , | GVA 0.00 |
| | Village | Crop | | | 2014-15 | | | Expected improvement in 2015-16 | | | | |



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Fisheries

| | | | | 20: | 14-15 | | GVA (Rs) | Exp | ected improve | ement in 201 | 5-16 | GVA (Rs) |
|-----------------|------------------------|-----------------|-----------|------------------------|------------|----------|----------|-----------|------------------------|--------------|----------|----------|
| Mandal | Village | Particula rs | Area (ha) | Productivity (t/ha) | Production | MRP Rs/t | Crores | Area (ha) | Productivity (t/ha) | Production | MRP Rs/Q | Crores |
| Kothapatna m | Gundamala | Prawns | 5.9 | 4.0 | 24 | 400000 | 0.946 | 5.9 | 5.0 | 30 | 400000 | 1.182 |
| Kothapatna m | Motumala | Prawns | 16.3 | 4.0 | 65 | 400000 | 2.600 | 16.3 | 5.0 | 81 | 400000 | 3.250 |
| Kothapatna m | Gadepalem | Prawns | 1.3 | 4.0 | 5 | 400000 | 0.200 | 1.3 | 5.0 | 6 | 400000 | 0.250 |
| Kothapatna m | Beeramgunta | Prawns | 62.3 | 4.0 | 249 | 400000 | 9.964 | 62.3 | 5.0 | 311 | 400000 | 12.455 |
| Kothapatna m | Kothapatnam | Prawns | 7.2 | 4.0 | 29 | 400000 | 1.144 | 7.2 | 5.0 | 36 | 400000 | 1.430 |
| Kothapatna m | Rajupalem | Prawns | 9.0 | 4.0 | 36 | 400000 | 1.440 | 9.0 | 5.0 | 45 | 400000 | 1.800 |
| Kothapatna m | Ethamukkala | Prawns | 31.5 | 4.0 | 126 | 400000 | 5.048 | 31.5 | 5.0 | 158 | 400000 | 6.310 |
| Kothapatna m | Madanur | Prawns | 17.4 | 4.0 | 69 | 400000 | 2.776 | 17.4 | 5.0 | 87 | 400000 | 3.470 |
| Ongole | Koppolu | Prawns | 15.6 | 4.0 | 62 | 400000 | 2.496 | 15.6 | 5.0 | 78 | 400000 | 3.120 |
| Ongole | Boddulurivaripale m | Prawns | 12.2 | 4.0 | 49 | 400000 | 1.944 | 12.2 | 5.0 | 61 | 400000 | 2.430 |
| Ongole | Devarampadu | Prawns | 18.9 | 4.0 | 76 | 400000 | 3.022 | 18.9 | 5.0 | 94 | 400000 | 3.777 |
| Ongole | Gundayapalem | Prawns | 11.6 | 4.0 | 46 | 400000 | 1.853 | 11.6 | 5.0 | 58 | 400000 | 2.317 |
| Ongole | Chinthayapalem | Prawns | 10.5 | 4.0 | 42 | 400000 | 1.676 | 10.5 | 5.0 | 52 | 400000 | 2.095 |
| | | | | | | | | | | | | |
| | | | 219 | | 878 | | 35.11 | 219 | | 1097 | | 43.89 |



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Work plan submitted by line department that needs to be reviewed and finalized



| Mandal | Crops | Area (ha) | | Expected benefit | | |
|------------------------------|--------------------------------|-----------|----------|---------------------------------------|--|--|
| & no. of villages | | Existing | Proposed | Dellellt | | |
| Konkanametla (5 Villages) | Cowpea Black gram Cotton | 1002 | 2011 | 25-30% increase in productivity | | |
| Kanagiri (5 villages) | Pigeonpea Cowpea Paddy | 3505 | 5483 | | | |



Intervention

- Soil test based balanced fertilization and other improved agricultural practices
- •In-situ and ex-situ water conservation
- Efficient water management through drip and sprinklers
- Introduction of suitable crop varieties

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Animal Husbandry

| Mandal & no. of villages | Present produc (MT) | tion | Expected increase in production (MT) | | | |
|------------------------------|------------------------|------|--------------------------------------|------|--|--|
| | Meat | Milk | Meat | Milk | | |
| Konkanametla (5 Villages) | 280 | 142 | 559 | 254 | | |
| Kanagiri (5 villages) | 124 | 104 | 246 | 187 | | |

Intervention:

- Improve feed quality through concentrated feed and calcium supplement:
- Improve productivity of milch animals and ruminants;
- Improved animal health care; improve fodder availability.

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Horticulture

| Mandal | Crops | Area (ha) | | Expected | |
|------------------------------|---|-----------|------------------------|------------------------------------|--|
| & no. of villages | | Existing | Additional Proposed | benefit | |
| Konkanametla (3 Villages) | Acid lime, Sweet orange, Mango, Chilli, Vegetables | 57 | 65 | 35-40 % increase in productivity. | |
| Kanagiri (5 villages) | Batavia, Mango, Acid lime, Amla, Papaya, Vegetables | 140 | 275 | Two fold increase in productivity. | |

Interventions:

 \bullet Introduction of suitable improved variety like encourage farmers to take up acid lime CV

· Balaji selection sweet orange, budded on Rangapur lime, mango veneer grafts

•Shade net cultivation of vegetables with drip irrigation and mulching.



| Mandal & no. of villages | Crops | Area (ha) | | Expected benefit |
|-----------------------------|----------------------|-----------|------------------------|---|
| & IIO. OI VIIIages | | Existing | Additional Proposed | benefit |
| Kothapatnam (8 Villages) | In land fisheries | 602 | 350 | Increase in the area, productivity and production |
| Ongole (4 villages) | In land fisheries | 274 | 250 | |

Interventions:

Increase in in land fisheries area



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Sericulture

| Mandal | Crops | Area (ha) | | Expected |
|------------------------------|----------|-----------|------------------------|--------------------------------|
| & no. of villages | | Existing | Additional Proposed | benefit |
| Konkanametla (3 Villages) | Mulberry | Nil | 12 | 3.0-3.6 tons (silk Cocoons) |
| Kanagiri (5 villages) | Mulberry | Nil | 20 | 3.0-3.6 tons (silk Cocoons) |

Interventions:

Bivoltine hybrid rearing, providing equipments like rearing stand, brush, cutters, power sprayers; mulberry cultivation with trenches; construction of model rearing shed, etc.



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Watershed department (DWMA), 2014-15 batch

| SI. No. | Mandal | WS Name | WS area (ha) | No. Micro WS |
|------------|---------------|------------|-----------------|-----------------|
| 1 | Konakanamitla | Gotlagattu | 4817 | 5 |
| 2 | Kanagiri | Badaguleru | 5467 | 5 |
| | | Total | 10284 | 10 |

DPR preparation is progress



Minor Irrigation department proposed for 2015-16

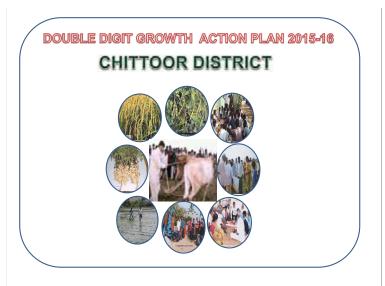
| SI. No. | Village (Mandal) | Tank | Ayacut area (ha) | Proposed work |
|------------|-------------------------------|--------------|------------------------|--|
| 1 | Chinamanagundem (KK Mitla) | Dasabandham | 64.25 | Sluices reconstruction and tank bund repair |
| 2 | Gattu vaganna | 37.51 | | " |
| 3 | Koanakana Mitla | Amba | 64.25 | Tank bund repair |
| 4 | Nagampalli | Village tank | 32.62 | Irrigation channels, surplus weir and tank bund repair |
| 5 | Salanutala | 34.594 | | Tank bund repair |



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| | | | I IT | Т | | ı | 015 | | | | | |
|---|------------|-------|------------|-----------|----------------------------|-----------------------------------|-------------------------------------|------------------------|---|----------|--|----------------------|
| | Growth Eng | ine w | ise & Farr | ning situ | ation w | ise particula | rs: KHARIF | | | | | |
| | Crop | FS | Area | | Target product ivity | Present Production in Mtons | Targetted Production in Mtons | Growth value in | Projected Growth value in Rs. Crores | 0 | Additional Growth value in Rs. Crores | % of gro wt |
| | | | (Ha) | (Kg/ha) | (Kg/ha) | 7 = (4x5) | 8= (4x6) | 9= (7xMP)/ 10000000 | 10= (8xMp)/ 10000000 | 11=(8-7) | 12 = (10-9) | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 1 | Groundnut | RF | 136479 | 642 | 758 | 87620 | 103451 | 438 | 517 | 15831 | 79 | 1 |
| 2 | RICE | ID | 1665 | 3399 | 3850 | 56610 | 64122 | 85 | 96.18 | 7512 | 11.18 | 1 |
| 3 | Sugarcane | ID | 2791 | 74887 | 82376 | 2090471 | 2299526 | 502 | 551.89 | 209055 | 49.89 | 1 |
| 4 | Ragi | RF | 7290 | 1326 | 1591 | 9667 | 11598 | 19 | 23.2 | 1931 | 4.2 | 2 |
| 5 | Redgram | RF | 8113 | 300 | 360 | 2434 | 2921 | 11 | 12.7 | 487 | 1.7 | 2 |
| 6 | Maize | RF | 1242 | · d | | | 4580 | 5 | 0.12 | | 1.41 | 1 |
| 7 | Sunflower | RF | 160 | | | | | | | _ | 0.06 | 1 |
| | Growth E | ngin | e wise | & Farn | ning sit | tuation wi | se partic | ulars: R | ABI 2015 | 5-16 | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 1 | Groundnut | RF | 14092 | 2727 | 3327 | 38429 | 46884 | 192 | 234.42 | 8455 | 42.42 | 2 |
| 2 | RICE | ID | 36338 | 3470 | 4126 | 126093 | 149931 | 189 | 224.9 | 23838 | 35.9 | 1 |
| 3 | Ragi | RF | 752 | 1639 | 1970 | 1233 | 1481 | 2 | 2.96 | 248 | 0.96 | 2 |
| 4 | Maize | RF | 775 | 5100 | 6120 | 3953 | 4743 | 6 | 6.64 | 790 | 0.64 | 2 |
| 5 | Sunflower | RF | 1375 | 774 | 913 | 1064 | 1255 | 4 | 4.71 | 191 | 0.71 | 1 |

| | ROLE OF INPUTS A | ND BUDGET REC | UIRED IN GROUNDNUT TO BOOST PROD | UCTIVITY |
|-----|------------------|-----------------|---|------------------|
| | INPUTS REQU | IRED TO ENHANCE | PRODUCTIVITY IN GROUNDNUT (Rs. In Lakh | s) |
| Sno | Input | QtyUnits | Subsidy Impact of Input | Cut off date |
| 1 | Seed | 83000 Qtls | 1660 Maintain Optimum Plant population | on 15.5.2015 |
| 2 | STC- T.Viride | 32600 Kg | 24.45 Control Root Rot Disease | 15.5.2015 |
| 3 | Micro Nutrients | | | |
| | Zinc Sulphate | 3412 Mtons | Enhance yield potentiality & energ 604circulation in the plant | y 15.5.2015 |
| | Gypsum | 68240 Mtons | Increase Kernal Weight & Oil conte 1063 in the Kernal | ent 15.5.2015 |
| | | | 3352 | |

| | INPUTS REQ | UIRED TO | O ENHAN | ICE PROI | DUCTIVITY IN RICE (Rs. In Lakhs) | |
|------|-----------------|----------|---------|----------|--|-----------------|
| SINo | Input | Qty | Units | Subsidy | Impact of Input usage | cut off date |
| 1 | Green Manure | 11650 | qtls | 298 | Increase Soil Health & Fertility status | 15.5.201 |
| 2 | STC- Carbandizm | 1249 | Kg | 6 | Control Root Rot Disease | 1.6.201 |
| 3 | Micro Nutrients | | | | | |
| | Zinc Sulphate | 833 | Mtons | | Enhance yield potentiality & energy circulation in the plant & disease resistant | 1.6.201 |

| | | | | - 11 | IT | |
|------|----------------------------|---------|--------|---------|---|-----------------|
| | INPUTS REQUIR | ED TO E | NHANCE | PRODUC | ΓΙVITY IN REDGRAM (Rs. In La | khs) |
| SINo | Input | Qty | Units | Subsidy | Impact of Input usage | cut off date |
| | High yielding varieties | 1200 | qtls | 23.4 | Varietal replacement with LRG 41 | 15.5.2015 |
| 2 | STC- Carbandizm | 600 | Kg | 2.8 | Control Root Rot Disease | 15.5.2015 |
| 3 | Micro Nutrients | | | | | |
| | Zinc Sulphate | 200 | Mtons | 35.4 | Enhance yield potentiality & energy circulation in the plant & disease resistance | 15.5.2015 |
| | | | | 61.6 | | |

| | Intervention | Input | Schama | % on | impact & Cost reduction |
|---|---------------------------------------|-----------------|---------------------|-------|--|
| | iroundnut | imput | Scheme | yicia | amput a cost reduction |
| 1 | Drought Resistant varieties | Dharani / K9 | NMOOP | 10% | Reduce yield loss due to drought |
| 2 | Increase in Seed rate to 150 Kg/Ha | | NMOOP | | Optimum plant population (33000 plants /Ha) |
| 3 | Seed Treatment | T.Viride | NMOOP | 15% | reduce cost PP measures |
| 4 | Sowing with Seed Drill | Seed drills | F.M | | Optimum plant spacing & reduce cost on manual labour, more area in less |
| 5 | Water Management | sprinklers | NMOOP | 10% | water management during critical periods gives more yields |
| 6 | Soil Test based Micro nutrients | Gypsum, Zinc | EAP | 20% | Gypsum & Zinc acts on increase in yield, Oi content & weight of the pods |
| 7 | Capacity Building | | polam pilustondi | 10% | Improves the management skills in production, Value addition & marketing knowledge |

| R | ICE | | | | |
|---|------------------------------------|---------------------------------------|-----------------------------|-----|--|
| 1 | Green Manuring | Diancha/ S.hemp | O F | 15% | Saves nearly Rs.12000/- on Green Leaf Manuring & organic manuring |
| 2 | Direct Sowing / SRI/ MSRI | Drum seeders | FM | 20% | More productive tillers, low cost method saves upto Rs.5000/- per Ha on transplanting |
| 3 | Soil Test based Micro nutrients | Gypsum, Zinc | E.A.P | 20% | Zinc Acts as Growth regulator & Gypsum helps in soil reclamation |
| 4 | Weedicide application | Butachlor | NFSM | 10% | Effective weed management & increase yields |
| 5 | High Cost Machinery | reapers, harvestors | FM | 10% | Reduce labour cost, time & more area in less time & Employment generation to farmer groups |
| 6 | Capacity Building | Pre seasonal, Pre harvesting | pola m pilust ondi | 10% | Improves the management skills in production, Value addition & marketing knowledge |

| Bud chip Plantation | | | 10% | Reduce Seed cost nearly to Rs.15000/- ha |
|--|--|-------|-----|---|
| 2 Seed Treatment | Carbandazim | | 5% | Reduce Seed borne diseases & PP measures cost |
| 3 Weedicide application | Atrazin | | 10% | Effective weed management & increase yields |
| Soil Test based Micro nutrients | Boron, Zinc & iron | | 20% | Zinc, Iron & Boron application increased cane diameter, lengt & sucrose % |
| 5 Drip irrigation | drip system | | 10% | Efficient water Management & increase in production |
| High Cost Machinery | Harvestors | | 10% | Reduce 60% Manual labour cost & Net returns will be more |
| /laize | | | | |
| Selection of Hybrid seed | | | 10% | Varietal replacement with hybrids giving more yield |
| 2 Narrow spacing | | | 10% | increase plant population & give higher yields |
| 3 Starter fertilizer application | P ₂ O ₅ & K ₂ O | | 10% | Placing in close proximity to the seed, gives more yield |
| Soil Test based Micro 4 nutrients | Boron, Zinc & iron | E.A.P | 20% | Zinc, Iron & Boron application helps in metabolic action crop growth & yeilds |
| 5 Drip irrigation | drip system | | 10% | Efficient water Management & increase in production |
| High Cost Machinery | C H Cs | FM | 10% | Reduce Manual labour cost, timely operations, more yields |
| Redgram | | | | |
| short duration High yielding drough 1 resistant varieties | t LRG 41 | NFSM | 10% | Varietal replacement with drought resistant varieties give more yield |
| 2 Close spacing | | | 10% | increase plant population & give higher yields |
| 3 Starter fertilizer application | P ₂ O ₅ & K ₂ O | | 10% | Placing in close proximity to the seed, gives more yield Zinc, Iron & Boron application helps in metabolic action crop growth & |
| 4 Soil Test based Micro nutrients | Boron, Zinc & iron | NFSM | 20% | yeilds |
| s water Management | Sprinklers | NFSM | 10% | Efficient water Management & increase in production |

1. o lat:
I loa loo o lat ottoo o tltootolootooto

3. a a loa a a tat t ala o

1. R I C E

Raw Rice (Paddy) Market Value : Rs. 14/- per Kg
Processed Rice for cooking Value : Rs. 50/- per Kg

Additional Income to farmer : Rs. 21/- (processing loss Rs. 15/-)

ITI

Encourgement of Rice flour Mills to RMGs / Women SHGs

Extraction of Rice bran oil

<u> 2. R A G I</u>

Ragi grain market value : Rs. 20/- Kg
Ragi Flour value : Rs. 30/- Kg

<u>Supply of Ragi Ball (Sangati) in MID DAY Meals to school children will give</u> <u>more nutrition compared rice</u>

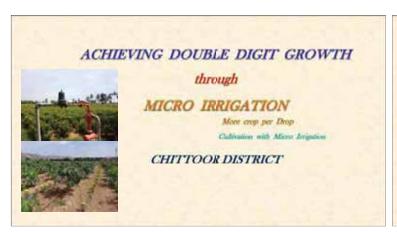
Training to Women SHGs in preparation of RAGI Biscuits, Ragi Rotis, Ragi Laddu etc. will give more income.

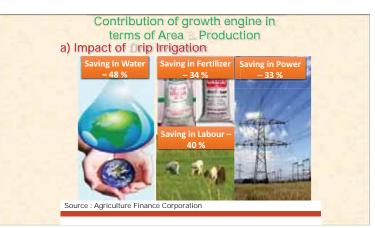
3. GROUNDNUT

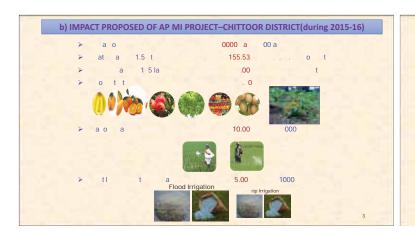
Establishment of "PEANUT BUTTER" industry

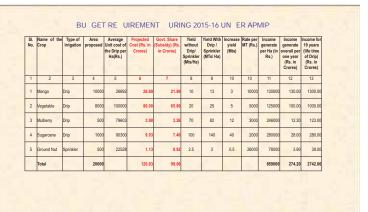
Groundnut Oil Extraction unit to RMGs for self employment







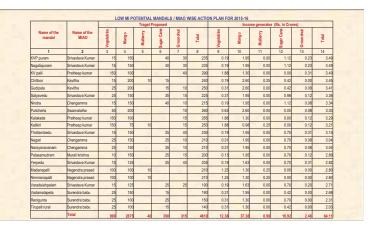


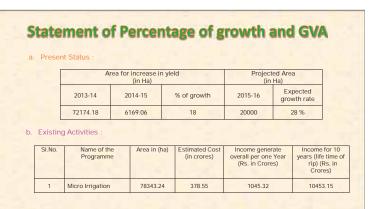


| SI. No. | Potential Type | No. of | | | Hayerr | roposed | | | | Income | generates | | rores) | |
|---------|----------------|---------|------------|-------|----------|------------|-----------|-------|------------|--------|-----------|------------|-----------|-------|
| | rotential Type | Mandals | Vegetables | Mango | Mulberry | Sugar Cane | Groundnut | Total | Vegetables | Mango | Mulberry | Sugar Cane | Groundnut | Total |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 1 H | HIGH | 23 | 5005 | 3850 | 265 | 285 | 70 | 9475 | 62.56 | 50.05 | 6.52 | 7.98 | 0.55 | 127. |
| 2 1 | MEDIUM | 21 | 2005 | 3275 | 195 | 325 | 115 | 5915 | 25.06 | 42.58 | 4.80 | 9.10 | 0.90 | 82. |
| 3 L | LOW | 21 | 990 | 2875 | 40 | 390 | 315 | 4610 | 12.38 | 37.38 | 0.98 | 10.92 | 2.46 | 64. |
| т | OTAL | 65 | 8000 | 10000 | 500 | 1000 | 500 | 20000 | 100.00 | 130.00 | 12.30 | 28.00 | 3.90 | 274.: |

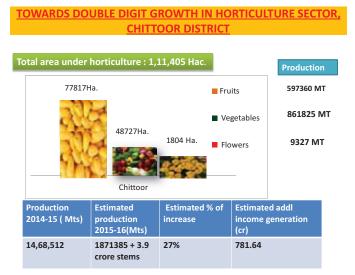
| | | | | Traget I | Proposed | | | | Incom | e generate: | Rs. in Cro | res) | |
|--------------------|-------------------|------------|-------|----------|------------|-----------|-------|------------|-------|-------------|------------|-----------|--------|
| lame of the mandal | Name of the MIAO | Vegetables | Mango | Mulberry | Sugar Cane | Groundhut | Total | Vegetables | Mango | Mulberry | Sugar Cane | Groundhut | Total |
| 2 | 1 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| amakuppam | Murali | 550 | 25 | 25 | 10 | | 610 | 6.88 | 0.33 | 0.62 | 0.28 | 0.00 | 8.10 |
| anthipuram | Murali | 550 | 25 | 25 | 10 | | 610 | 6.88 | 0.33 | 0.62 | 0.28 | 0.00 | 8.10 |
| uppam | Jayachandra Reddy | 500 | 25 | 25 | 10 | | 560 | 6.25 | 0.33 | 0.62 | 0.28 | 0.00 | 7.47 |
| iudipalli | Jayachandra Reddy | 500 | 25 | 25 | 10 | | 560 | 6.25 | 0.33 | 0.62 | 0.28 | 0.00 | 7.47 |
| kota | Sridhar | 400 | 25 | 40 | | | 465 | 5.00 | 0.33 | 0.98 | 0.00 | 0.00 | 6.31 |
| fayalpadu | Balaji | 150 | 250 | 10 | 10 | | 420 | 1.88 | 3.25 | 0.25 | 0.28 | 0.00 | 5.65 |
| angarupalem | Kavitha | 25 | 350 | | 25 | | 400 | 0.31 | 4.55 | 0.00 | 0.70 | 0.00 | 5.56 |
| .D.Nellur | Murali krishna | 15 | 350 | | 25 | | 390 | 0.19 | 4.55 | 0.00 | 0.70 | 0.00 | 5.44 |
| ala | Murali krishna | 15 | 350 | | 25 | | 390 | 0.19 | 4.55 | 0.00 | 0.70 | 0.00 | 5.44 |
| folakalacheruvu | Reddy babu | 350 | 50 | 15 | | | 415 | 4.38 | 0.65 | 0.37 | 0.00 | 0.00 | 5.39 |
| TM | Reddy babu | 350 | 50 | 15 | | | 415 | 4.38 | 0.65 | 0.37 | 0.00 | 0.00 | 5.39 |
| havanampalli | Kavitha | 25 | 350 | | 10 | 10 | 395 | 0.31 | 4.55 | 0.00 | 0.28 | 0.08 | 5.22 |
| hamballapalli | Radha krishna | 300 | 50 | 25 | | | 375 | 3.75 | 0.65 | 0.62 | 0.00 | 0.00 | 5.02 |
| Surramkonda | Balaji | 150 | 200 | 10 | 10 | | 370 | 1.88 | 2.60 | 0.25 | 0.28 | 0.00 | 5.00 |
| hinnagottigallu | Sujathamma | 100 | 225 | | 25 | | 350 | 1.25 | 2.93 | 0.00 | 0.70 | 0.00 | 4.88 |
| uthalapattu | Murali krishna | 25 | 350 | | | | 375 | 0.31 | 4.55 | 0.00 | 0.00 | 0.00 | 4.88 |
| .Kothakota | Nagendra prasad | 250 | 100 | 15 | | | 365 | 3.13 | 1.30 | 0.37 | 0.00 | 0.00 | 4.79 |
| eddamandyam | Radha krishna | 300 | 50 | | 10 | 10 | 370 | 3.75 | 0.65 | 0.00 | 0.28 | 0.08 | 4.76 |
| enumur | Murali krishna | 25 | 300 | | 15 | | 340 | 0.31 | 3.90 | 0.00 | 0.42 | 0.00 | 4.63 |
| rikalahasti | Srivastava | 25 | 200 | | 50 | 40 | 315 | 0.31 | 2.60 | 0.00 | 1.40 | 0.31 | 4.62 |
| erravaripalem | Sujathamma | 100 | 225 | | 10 | 10 | 345 | 1.25 | 2.93 | 0.00 | 0.28 | 0.08 | 4.53 |
| ireddypalli | Sridhar | 275 | 25 | 25 | 5 | | 330 | 3.44 | 0.33 | 0.62 | 0.14 | 0.00 | 4.52 |
| amachndrapuram | Surendra babu | 25 | 250 | 10 | 25 | | 310 | 0.31 | 3.25 | 0.25 | 0.70 | 0.00 | 4.51 |
| otal | | 5005 | 3850 | 265 | 285 | 70 | 9475 | 62.56 | 50.05 | 6.52 | 7.98 | 0.55 | 127.66 |

| | | | | Traget | Proposed | | | | Inco | me generate | es (Rs. in Cro | res) | |
|--------------------|------------------|------------|-------|----------|------------|-----------|-------|------------|-------|-------------|----------------|-----------|-------|
| Name of the mandal | Name of the MIAO | Vegetables | Mango | Mulberry | Sugar Cane | Groundnut | Total | Vegetables | Mango | Mulberry | Sugar Cane | Groundnut | Total |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| Gangavaram | Rama chaitanya | 200 | 50 | 40 | 10 | | 300 | 2.50 | 0.65 | 0.98 | 0.28 | 0.00 | 4 |
| Pileru | Pratheep kumar | 50 | 225 | | 25 | 10 | 310 | 0.63 | 2.93 | 0.00 | 0.70 | 0.08 | 4 |
| Rompicherla | Sujathamma | 100 | 175 | | 25 | 10 | 310 | 1.25 | 2.28 | 0.00 | 0.70 | 0.08 | 4 |
| Palamaner | Sridhar | 225 | 25 | 40 | 5 | | 295 | 2.81 | 0.33 | 0.98 | 0.14 | 0.00 | 4 |
| Chandragiri | Surendra babu | 50 | 250 | 15 | | | 315 | 0.63 | 3.25 | 0.37 | 0.00 | 0.00 | 4 |
| Vedurukuppam | Surendra babu | 25 | 250 | 10 | 15 | | 300 | 0.31 | 3.25 | 0.25 | 0.42 | 0.00 | 4 |
| Sodam | Swamalatha | 100 | 200 | | 10 | | 310 | 1.25 | 2.60 | 0.00 | 0.28 | 0.00 | 4 |
| Somala | Swamalatha | 100 | 200 | | 10 | | 310 | 1.25 | 2.60 | 0.00 | 0.28 | 0.00 | 4 |
| Kurabalkota | Nagendra prasad | 200 | 100 | 10 | | | 310 | 2.50 | 1.30 | 0.25 | 0.00 | 0.00 | 4 |
| Pakala | Swamalatha | 50 | 200 | | 25 | 10 | 285 | 0.63 | 2.60 | 0.00 | 0.70 | 0.08 | 4 |
| SR puram | Murali krishna | 25 | 200 | | 25 | 25 | 275 | 0.31 | 2.60 | 0.00 | 0.70 | 0.20 | 3 |
| Punganur | Rama chaitanya | 200 | 50 | 15 | 10 | | 275 | 2.50 | 0.65 | 0.37 | 0.28 | 0.00 | 3 |
| Pedda panjani | Rama chaitanya | 200 | 50 | 25 | | | 275 | 2.50 | 0.65 | 0.62 | 0.00 | 0.00 | 3 |
| Yadamari | Kavitha | 15 | 250 | | 10 | | 275 | 0.19 | 3.25 | 0.00 | 0.28 | 0.00 | 3 |
| Puttur | Chengamma | 25 | 200 | | 25 | 10 | 260 | 0.31 | 2.60 | 0.00 | 0.70 | 0.08 | 3 |
| Vijayapuram | Chengamma | 25 | 200 | | 25 | 10 | 260 | 0.31 | 2.60 | 0.00 | 0.70 | 0.08 | 3 |
| B.N.Kandriga | Srivastava | 25 | 150 | | 40 | 30 | 245 | 0.31 | 1.95 | 0.00 | 1.12 | 0.23 | 3 |
| Pitchatur | Chengamma | 15 | 150 | | 50 | 10 | 225 | 0.19 | 1.95 | 0.00 | 1.40 | 0.08 | 3 |
| Karvetinagar | Chengamma | 25 | 200 | 10 | 15 | | 250 | 0.31 | 2.60 | 0.25 | 0.42 | 0.00 | 3 |
| Chowdepalli | Swarnalatha | 150 | 100 | 15 | | | 265 | 1.88 | 1.30 | 0.37 | 0.00 | 0.00 | 3 |
| Ramasamudram | Rama chaitanya | 200 | 50 | 15 | | | 265 | 2.50 | 0.65 | 0.37 | 0.00 | 0.00 | 3. |
| | Total | 2005 | 3275 | 195 | 325 | 115 | 5915 | 25.06 | 42.58 | 4.80 | 9.10 | 0.90 | 82 |

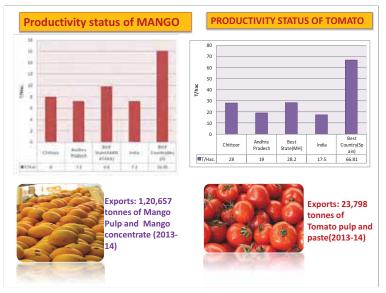








Impact of interventions (schemes) being implemented by the epartment 11 .00 13 1.00 1 .00 0.3 5111.88 3 .0 0.3 а о а о 1 .00 10 .00 11 8.00 8 .00 0.08 501.00 008.00 5010.00 100 .00 .00 158 8.80 0 8. .5 31 a a 18 .80 .80 10138.50 13. 0 50.00 8300.00 00.00 1300.00 0 80.00 .00 0.00 1 0.00 0.08 3.00 0.00 10.00 150.00 0. 0 0 53.00 0.00 3000.00 3000.00 0 50. 0 03. 0 1 55.00 351. 0 0.35 5.1 0.30 lo It 3 .00 .00 .00 .00 5146.50 50724.04 67098.82 16374.78 28.31 TOTAL



| MANGO - Interventions propose | d for enhance | ment of prod | duction of N | lango durin | g the year | 2015-16 | | | |
|--|------------------------|-------------------------------------|-----------------------------------|-------------|----------------------------------|---------------------------------------|--|--|--|
| Name of the intervention | Proposed area in Ha | Govt. assistance required(cr) | Present production (tonnes) | increased | Estimated addl. Production | Addl. Income generation (cr) | | | |
| Canopy management | 5645 | 3.387 | 39515 | 47982.5 | 8467.5 | 8.46 | | | |
| Rejuvenation | 4520 | 9.04 | 31640 | 42940 | 11300 | 11.3 | | | |
| INM/IPM practices | 4000 | 0.48 | 32000 | 38000 | 6000 | 6 | | | |
| Micro irrigation | 6000 | 13.67 | 42000 | 60000 | 18000 | 18 | | | |
| 26.577 | | | | | | | | | |
| Estimated Double Digit Growth rate for Mango | | | | | | | | | |

| Present Production during 2014- 15 | GVA during the year 2014- 15(cr) | Estimated addl. Production with the interventions of the govt. | Estimated prod. Due to addl. Area comes to bearing stage in 15-16 | Total estimated increase in production (2015-16) | Total estimated prod. During the year 15- 16 | Estima GVA(2015 | cr) -16 | Addl. Income generat ion |
|---|--|--|--|--|--|---|-----------------------------|-----------------------------------|
| 3,73,737 | 1336 | 43,768 | 1,19,000 | 1,62,786 | | Production Processin g Exports | 965 14.75 1784 | 448 |

| TOMATO - Into 2015-16 | erventions pr | oposed for o | enhancemen | t of produc | tion of To | mato durin | g the year |
|--------------------------|---------------|--------------|-------------------------------------|-------------|------------|--------------------------------------|--------------|
| Name of the intervention | Proposed a | | Govt. assistance required(cr) | n | increased | Estimated addl. Productio n | Addl. Income |
| INM | 50 | 0 | 0.06 | 17500 | 20000 | 2500 | 2.5 |
| Micro irrigation | 400 | 00 | 39.91 | 100000 | 140000 | 40000 | 40 |
| Trellies | 900 | 00 | 1.6 | 22500 | 31500 | 9000 | 9 |
| Veg. seed | 200 | 00 | 0.6 | | 80000 | 30000 | 18 |
| | | | 42.17 | | | 81500 | 69.5 |
| | Es | timated Do | uble Digit Gr | owth rate | for Tomato |) | |
| | | Estimated | Addl Prod | Total | Tota | | Estimated |

| | E | stimated Do | uble Digit Gr | owth rate for | Tomato | | |
|---|---------------------------------------|---|----------------------------------|--|---|-----------------------------|--|
| Present Production during 2014- 15 | GVA During the year 2014-15(cr) | Estimated addl. Production with the interventio ns of the govt. | Addl. Prod due to capacity | Total estimated increase in production (2015-16) | Total estimated prod. During the year 15-16 | | Estimated Addl. Income generatio n 2015- 16(cr) |
| 532629 | 532 | 81,500 | 25,000 | 1,06,500 | 6,39,129 | Production Processing Total | 182 |
| | | | | | | | |

| | | | year | r 2015-1 6 | , | | | | |
|---------------------|---------------|--------------------------|--|------------------------------------|--|---------------------------------|--------------------------------|--------------------------------------|-------|
| Name of the crop | Component | Total Area 2014-15 | Total productio n during 2014-15 (tones) | Total GVA(cr) in 2013- 14 | Expecte d addl. Area in 2015-16 | addl. Productio | Estimate | Estimate d GVA 2015-16 (cr) | d Add |
| 1.Mango | a. Production | 74204 | 373737 | 566.55 | 13223 | 162786 | 536523 | 804 | 238 |
| | b. Processing | | 153000 | 765 | | 40000 | 193000 | 965 | 200 |
| | c. Exports | | 1006 | 4.75 | | 2000 | 3006 | 13.75 | 10 |
| 2.Papaya | Production | 741 | 38982 | 135.21 | 622 | 40644 | 79626 | 172.2 | 37 |
| 3.Banana | Production | 966 | 28446 | 54.47 | 186 | 6838 | 35284 | 68.07 | 14 |
| 4. Other fruits | Production | 216 | 2189 | 7.7 | 549 | 5212 | 7401 | 36.78 | 29 |
| 5. Tomato | production | 19727 | 532629 | 532 | 2030 | 81500 | 614129 | 614 | 82 |
| | processing | | 39,000 | 156 | | 25000 | 64000 | 256 | 100 |
| 6.Other | Production | 29000 | 290000 | 261 | 1894 | 33881 | 323881 | 291 | 30 |
| Vegetables | Export | | 196 | 2 | | 500 | 696 | 5.5 | 3.5 |
| 7.Flowers | Loose Flowers | 1157.5 | 9327 | 61.55 | 436 | 4512 | 13839 | 84.69 | 23.14 |
| | Cut flowers | 1 | 15 lakhs stems | 0.6 | 25 | 3.75 crore stems | 3.9 crore stems | 15 | 15 |
| | Total | 12601.5 | 1468512 | 2546.23 | 18965 | 402873 + 3.75 crore stems | 1871385+ 3.9 crore stems | 3326 | 781.6 |

Reasons for improvement of productivity and additional income generation

o ta 13 3 ao a a аоо to a ta a 01 15 t 00 ao a to ala a a 0 t Ω at o ot It 0 а 01 15 a 10000 a o a I. a II t a 015 1 0 at o a ао аа t at a a a o 000 a o aot o a o 0 t o o t t o a o a ato o t а 0 t a t a alt o to o ta I o 1 t o to o al а 0 0 oto ta I t а t a o oto o a t al la al 0 0 to o ta I o oto o lo а al ta I 0

Proactive steps for production enhancement:

Climate change with in department and in support institutes

- a. Making all the human resources as stake holders in achieving
- b. Changing the attitude of the staff into ascertain mode for enhancement of production and income generation through effective transfer of technology.
- c. Creating awareness on Hi-tech Horticulture , value addition through exposure visits workshops and interactions with other partners of Horticulture sector.
- d. Involving YSR University, KVKs and other regional research institutes for regular diagnostic visits to the fields and expert advice on area specific suitable high yielding varieties for achieving higher productivity

ACTION PLAN FOR ACHIEVING DOUBLE DIGIT GROWTH IN MANGO

| Potantional Center/ Horticulture Officer | Mandals | Mango Additional Area (Bearing Stage) | Estimated Additional Production (Mts) | Interventions Proposed |
|---|----------------------------------|---|--|---------------------------|
| a a al | a a al T all a l'ala | 0 | 815 | |
| ttoo | ttoo ala a a a a t ala att | 1005 | 0 5 | |
| а | a aaaa aaaa | 00 | 300 | |
| a a a all | a a a all a a a a a | 515 | 35 | |
| a I | a a all | 0 | 10 | Management, INM/IPM, |
| a II at a t a | aa aa at a | 5 | 55 | |
| . ota | . ota a all a ala a | 30 | 5 0 | Drip irrigution |
| o all | o all a o a o ala | 35 | 5 15 | |
| T a alla all | Ta alla all a a a a a ala ota | 5 5 | 5085 | |
| ola ala | ola ala . ot a ota a T | 585 | 5 5 | |

| Potantional Center/ Horticulture Officer | Mandals | Mango Additional Area (Bearing Stage) | Estimated Additional Production (Mts) | Interventions |
|---|--------------------------------|---|--|-------------------------|
| Ilo | llo a a ala a a | 850 | 50 | |
| T at | a a ala ta ta a a | 5 | 5 5 | |
| at a | ata aa aa al a ala a tata a | 580 | 5 0 | |
| tt | ttaaaaaa a aa a a a taaa | 81 | 1 | at o a o |
| a a | a a a ala I la a a | 103 | 351 | aa t IIII a I ato |
| II | II all a ala a a | 0 | 3 3 | 1 40 |
| ala a t | ala a t a a T otta a a | 585 | 5 5 | |
| all | all o la a al | 0 | 8 30 | |
| al a | al a a o aa al | 0 | 5 0 | |
| | TOTAL | 13223 | 119007 | |

| АСТ | ION PLAN FOR ACHIEVING DOUBLE DIGI | T GROWTH | IN PAPAYA | |
|---|--|------------------------------|--|---------------|
| Potantional Center/ Horticulture Officer | Mandals | Papaya Additional Area | Estimated Additional Production (Mts) | Interventions |
| Bangarupalem | Bangarupalem, T.V. Palli and Irala | 0 | 130 | |
| Chittoor | Chittoor, Gudipala, Yadamari and Puthalapattu | 0 | 130 | |
| Punganur | Punganur, Peddapanjani and Gangavaram | 30 | 1 1 | |
| Madanapalle | Madanapalle, Nimmanapalli and Ramasamudram | 100 | 535 | |
| uppam-l | uppam and Gudipalli | 5 | 8 | |
| uppam-II (Santhipuram) | Ramakuppam and Santhipuram | 0 | 5 5 | а |
| V. ota | V. ota, Baireddipalli and Palamaner | 5 | 8 | a o t |
| Chowdepalli | Chowdepalli, Sadom and Somala | 5 | 33 8 | a t l |
| Thamballapalli | Thamballapalli, Peddamandyam and urabalakota | | 18 5 | Таа |
| Molakalacheruvu | Molakalacheruvu, B. othakota and PTM | 5 | 8 | la I ato |
| G Nellore | G Nellore, S.R. Puram, Penumuru and Palasamudram | 0 | 130 | a tato |
| Tirupathi | Vadamalapeta, Renigunta and R.C. Puram | 5 | 3 | |
| Chandragiri | Chandragiri, Pakala, Pulicherla and Vedurukuppam | | 1 | |
| Piller | Piller, .V. Palli and alakada | 1 | 1 | |
| C.G. Gallu | C.G. Gallu, Rompicherla and Y.V. Palem | 10 | 5 | |
| Valmikipuram | Valmikipuram, Gurramkonda and alikiri | 5 | 1 3 | |
| | TOTAL | 622 | 40648 | |

ACTION PLAN FOR ACHIEVING DOUBLE DIGIT GROWTH IN BANANA Estimated Additional Production (Mts) Banana Additional Area Mandals a a al T. . all a I ala 5 a a al ttoo t ala att ala aaaa a t l a a o a II at a t a aa aa at a 1 55 a t a It 100 3 1 ota ota a all a ala a at o .. llo .. a ala a a llo 5 Ш 331 . . all a ala a a TOTAL 195 7170

| ACTION | I PLAN FOR ACHIEVING DOUBLE DIGIT GROWTH | IN OTHE | R FRUITS | |
|---|--|---|----------|---------------|
| | | | | |
| Potentional Center/ Horticulture Officer | Mandals | Other Fruits Additional Area (Ha.) | (Mts) | Interventions |
| a a al | a a al T. alla Iala | 3 | 3 3 | |
| ttoo | ttoo ala a a a t ala att | | 8 | |
| a | a aaaa aaaa | 5 | 513 | |
| a a a all | aaaall aaalla aaa a | 0 | 380 | |
| a I | a a all | 1 | 1 1 | |
| a II at a | aa aa at a | | 8 | |
| . ota | . ota a all a ala a | 3 | 3 | |
| T a alla all | Ta alla all a a a a a ala ota | 3 | 3 3 | o a |
| ola ala | ola ala . ot a ota a T | | 0 | o I |
| Ilo | llo a a ala a | 1 | 38 | la a |
| T at | a a ala ta ta a a | 0 | 1 0 | aa It. |
| at a | at a aa aa al aala a tata a | | 5 | ato |
| tt | tt aaaaaa a aa aa a taaa | 1 | 1 1 | |
| a a | a a a ala I la a a | 33 | 313 | |
| II | llalla alaaa | 18 | 1 1 | |
| ala a t | ala a t a a T otta a a | 15 | 1 | |
| all | all o la a al | 1 | 180 | |
| al a | al a a o a a al | | 8 | |
| | TOTAL | 549 | 5212 | |

| | ACTION PLA | N FOR ACHIEVING DOUBLE DIGIT G | ROWTH IN | TOMATO | |
|--------|---|-----------------------------------|------------------------------------|-----------------------------------|----------------|
| SI. No | Potentional Center/ Horticulture Officer | Mandals | Tomato Additional Area (Ha.) | Additional Production (Mts) | Interventions |
| 1 | a a al | a a al T all a I ala | 3 | 18 | |
| | ttoo | ttoo ala a a a a t ala att | 35 | | |
| 3 | a | a aaaaaaaa | 1 1 | 31 5 | |
| | a a a all | aaaall aaalla aaa a | 05 | | |
| 5 | a I | a a all | 0 | 1 | l o |
| | a llata ta | aa aa at a | 8 | 1 | ta I o 50 |
| | . ota | . ota a all a ala a | 0 | 3 8 | 0 30 |
| 8 | o all | o all a o a o ala | 1 8 | 8 | T II t |
| | T a alla all | T a alla all a a a a a ala ota | 1 5 | 3 85 | |
| 10 | ola ala | ola ala . ot a ota a T | 3 | 3 8 | |
| 11 | Ilo | Ilo a a ala a a | 5 | | ato t ato a |
| 1 | a a | a a a ala I la a a | | 1 35 | I |
| 13 | Ш | llalla alaaa | 35 | 5 1 | |
| 1 | all | all o la a al | 1 | 5 | |
| 15 | al a | al a a o a a al | 05 | 3 | |
| | | TOTAL | 2030 | 39400 | |

| Potantional Center/ Horticulture Officer | Mandals | Other Vegetables Additional Area (Ha.) | Additional Production (Mts) | |
|---|-------------------------------|---|-----------------------------------|--------------------|
| a a al | a a al T alla I ala | 5 | 805 | |
| ttoo | ttoo ala a a a t ala att | 8 | 1 | |
| а | a aaaa aaaa | 1 5 | 5 | |
| a a a all | a a a all a a a a a | 0 | 3 | |
| a I | a a all | 1 8 | 0 | |
| a II at a | aa aa at a | | 1 1 | 1 0 |
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| ACT | ON PLAN FOR ACHIEVING DOUBLE DIGI | T GROWT | H IN FLOV | VERS |
|---|-----------------------------------|-------------------------------------|-----------------------------------|--|
| Potentional Center/ Horticulture Officer | Mandals | Flowers Additional Area (Ha.) | Additional Production (Mts) | Interventions |
| | LOOSE FLOWERS | | | |
| a a al | a a al T alla Iala | 0. 0 | | |
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| al a | al a a o aa al | .00 | 35 | |
| | TOTAL | 436.00 | 4513 | |
| | CUT FLOWERS | | | |
| a I | a a all | .00 | 13 000000 | o t to o ol o t 50 o tat a t a ot ato t ato |
| a llata ta | aa aa at a | 18.00 | 108000000 | |
| | TOTAL | 40.00 | 240000000 | |

| | Requirement of financial assistance from the Govt. | | | | | | | | | |
|-----------------|--|---------|------------|---|--|--|--|--|--|--|
| S.No | Name of | the Gro | wth Engine | Addl. Area proposed for improvement of productivity | Requirement of Financial assistance from the Govt.(Cr) | | | | | |
| 1 | а о | 1 | 1 | 01 5 | .5 | | | | | |
| | To ato | 1 | 1 | 15500 | .1 | | | | | |
| 3 | a a a | -1 | 1 | 100 | 0. 3 | | | | | |
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| | lo | | | 300 | 3. 0 | | | | | |
| 8 | t lo | | | 5 | 11.5 | | | | | |
| Total 36740 89. | | | | | | | | | | |

MARKETING VISION

- Produce what consumer wants
- •Participation of national institutes like IIHR, National Horticulture Board, APEDA, NABARD and NIPHM for quality production and financial support to the Horticulture sector.
- •Strengthening of back ward linkages with a market oriented approach
- •Creation of post harvest technology facilities in a large scale at production points
- •Promotion of crops specific growers associations for direct online marketing
 •By developing the consortium a grower, processor, exporters and proper
 planning in advance on the basis of demand of markets

GROWTH BREAKERS

- Depletion of ground water table
- Lack of sufficient post harvest technology infrastructure and marketing intelligence.
- Severe fluctuations in prices of vegetables during the glut period
- Insufficient extension officers to cater the technological needs of the farmers

CHITTOOR DISTRICT PRIMARY SECTOR CONTRIBUTION FOR THE DOUBLE DIGIT GROWTH

| S.no | Name of the Department | Projected Growth(%) | Income Generated (in Crs) |
|------|---------------------------|--------------------------|---------------------------------|
| 1 | Agriculture | 16 | 228 |
| 2 | Horticulture | 27 | 781 |
| 3 | AP MIP | 28 | 274 |
| 4 | Livestock & Dairy | 16.5 | 624 |
| 5 | Fisheries | 30 | 6.1 |
| | TOTAL | 23.5 | 1913.1 |



Subsidy Pattern for 2014-15:

- ✓ All SC / ST Farmers under SF and MF category are eligible for 100% subsidy on the MI system unit cost, upto a maximum of Rs.1.00 Lakh per family, subject to a maximum of 5 acres, whichever is less.
- All Other Small and Marginal Farmers are eligible for 90% subsidy on the MI system unit cost, up to a maximum of Rs.1.00 Lakh, per family, subject to a maximum of 5 acres, whichever is less.
- Farmer with holdings up to 10 acres are eligible for 90% subsidy, up to a maximum of 1.00 Lakhs per family, subject to a maximum of 10 acres, whichever is less.
- Farmers with holdings above 10 acres are eligible for 50% subsidy, up to a maximum subsidy of Rs.1.00 lakh on the MI system unit cost, per family, subject to a maximum of 12.5 acres, whichever is less.

APMIP in Ananthapuramu District.

Year wise Achievement from 2003-04 to 2014-15

| | | | rip | | | Sprinkler | | | Total | |
|--------|---------|--------|--------|---------------|-------|-----------|-------------------|--------|--------|------------------|
| | | Phys | ical | Financial | Phys | ical | Financ | Phys | ical | Financi |
| SI.No. | Year | No | Area | (In Lakhs) | No | Area | ial (In Lakhs) | No | Area | al (In Lakhs) |
| | | Units | Ha | Subsidy | Units | На | Subsi dy | Units | Ha | Subsid |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 1 | 2003-04 | 733 | 1123 | 145 | 7280 | 11431 | 328 | 8013 | 12554 | 473 |
| 2 | 2004-05 | 3939 | 6663 | 855 | 4897 | 5792 | 465 | 8836 | 12455 | 1320 |
| 3 | 2005-06 | 8542 | 11120 | 3736 | 3711 | 5500 | 307 | 12253 | 16620 | 4043 |
| 4 | 2006-07 | 8972 | 12500 | 3685 | 4197 | 6000 | 392 | 13169 | 18500 | 4077 |
| 5 | 2007-08 | 12509 | 16079 | 4597 | 5223 | 7100 | 599 | 17732 | 23179 | 5196 |
| 6 | 2008-09 | 13292 | 14556 | 4084 | 6742 | 6992 | 705 | 20034 | 21548 | 4789 |
| 7 | 2009-10 | 16705 | 14400 | 7346 | 7179 | 7250 | 988 | 23884 | 21650 | 8334 |
| 8 | 2010-11 | 10311 | 10902 | 4286 | 9398 | 9400 | 1278 | 19709 | 20302 | 5565 |
| 9 | 2011-12 | 6128 | 7020 | 3674 | 3807 | 3807 | 506 | 9935 | 10827 | 4180 |
| 10 | 2012-13 | 5302 | 5802 | 4083 | 113 | 146 | 38 | 5433 | 5948 | 4121 |
| 11 | 2013-14 | 7360 | 7810 | 5757 | - | - | - | 7360 | 7810 | 5757 |
| 12 | 2014-15 | 7912 | 8548 | 6685 | - | - | - | 7912 | 8548 | 8218 |
| | Total | 101705 | 116523 | 48933 | 52547 | 63418 | 5606 | 154270 | 179941 | 54540 |

CROP WISE WATER REQUIREMENT FOR HORTICULTURE CROPS IN THE DISTRICT

| | | | Peak Water | water use | (M ⁻ /Acre) | TOTAL WATER | TOTAL WATER | |
|-------|---|--|--|--|------------------------|--|--|------------------|
| S.No. | Name of the Crop | Area in Ha. | Requirement (mm/day) | Surface | Drip | | | % Of Saving |
| 1 | Citrus | 37759.14 | 3.00 | 6640.00 | 2560.00 | 22.39 | 8.63 | 61.45 |
| 2 | Mango | 8012.52 | 2.30 | 5100.00 | 3324.00 | 3.65 | 2.38 | 34.82 |
| 3 | Sapota | 6302.48 | 2.30 | 5100.00 | 3324.00 | 2.87 | 1.87 | 34.82 |
| 4 | Pomegranate | 3768.04 | 4.90 | 3920.00 | 2196.00 | 1.32 | 0.74 | 43.98 |
| 5 | Guava | 2111.06 | 3.50 | 6400.00 | 5200.00 | 1.21 | 0.98 | 18.75 |
| 6 | Arecanut | 622.96 | 4.00 | 5400.00 | 3250.00 | 0.30 | 0.18 | 39.81 |
| 7 | Ber | 572.90 | 3.30 | 2800.00 | 1800.00 | 0.14 | 0.09 | 35.71 |
| 8 | Grapes | 284.72 | 5.50 | 3520.00 | 2320.00 | 0.09 | 0.06 | 34.09 |
| 9 | Other fruits | 349.00 | 3.00 | 5100.00 | 3324.00 | 0.16 | 0.10 | 34.82 |
| 10 | Banana | 13814.66 | 6.60 | 7040.00 | 3880.00 | 8.68 | 4.79 | 44.89 |
| 11 | Papaya | 10175.87 | 6.00 | 9120.00 | 2920.00 | 8.29 | 2.65 | 67.98 |
| 12 | Vegetables | 14152.00 | 8.00 | 1901.00 | 1007.00 | 2.40 | 1.27 | 47.03 |
| 13 | Muskmelon | 6340.89 | 6.00 | 1680.00 | 1000.00 | 0.95 | 0.57 | 40.48 |
| 14 | Watermelon | 1331.92 | 6.00 | 1680.00 | 1000.00 | 0.20 | 0.12 | 40.48 |
| 15 | Cucumber | 547.18 | 6.00 | 1680.00 | 1000.00 | 0.08 | 0.05 | 40.48 |
| 16 | Ground Nut (M.Sprinkler) | 1185.72 | 6.00 | 2620.00 | 1680.00 | 0.28 | 0.18 | 35.88 |
| 17 | Mulbery | 313.61 | 5.00 | 6400.00 | 5200.00 | 0.18 | 0.15 | 18.75 |
| 18 | Flowers | 156.00 | 8.00 | 1562.00 | 1040.00 | 0.02 | 0.01 | 33.42 |
| 19 | Other Crops | 167.00 | 6.00 | 1708.00 | 980.00 | 0.03 | 0.01 | 42.62 |
| | Drip Total | 107967.66 | 95.40 | | | 53.23 | 24.83 | 53.35 |
| 20 | Groundnut (Sprinklers) | 63424.78 | 6.00 | 2620.00 | 1680.00 | 14.84 | 9.51 | 35.88 |
| Gr | and Total | 171392.4 | 101.40 | | | 68.07 | 34.34 | 49.54 |
| | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 | 1 Citrus 2 Mango 3 Sapota 4 Pomegranate 5 Guava 6 Arecanut 7 Ber 8 Grapes 9 Other fruits 10 Banana 11 Papaya 12 Vegetables 13 Muskmelon 14 Watermelon 15 Cucumber 16 M.Sprinkler) 17 Mulbery 18 Flowers 19 Other Crops 19 Other Crops 10 Groundnut | 1 Citrus 37759,14 2 Mango 8012,52 3 Sapota 6302,46 4 Pomegranate 3788,04 5 Guava 2111,06 6 Avecanut 622,98 7 Ser 572,90 8 Grapes 224,72 9 Other fruits 349,00 10 Banana 13814,66 11 Papaya 110175,87 12 Vegetables 14152,00 13 Muskmelon 1331,92 14 Watermelon 1331,92 15 Cucumber 547,18 16 Ground Nut 1185,77 17 Mulbery 313,61 18 Flowers 156,00 Drip Total 107967,68 20 Groundnut Gorundnut Gorundnut Gorundnut Gorundard Gorundnut Gorundard Gorundnut Gorundard Goru | S.No. Name of the Crop Area in Ha. Requirement (mmdsy) 1 Citrus 37759.14 3.00 2 Mango 8012.52 2.30 3 Sapota 6302.48 2.30 4 Pomegranate 3768.04 4.90 5 Suava 2111.06 3.50 6 Arecanut 622.96 4.00 7 Ber 572.90 3.30 8 Grapes 224.72 5.50 9 Other fruits 349.00 3.00 10 Banana 13314.66 6.66 11 Papaya 10175.87 6.00 12 Vegetables 14152.00 8.00 13 Muskmeton 6340.98 6.00 15 Cucumber 547.18 6.00 16 Msprinkler 1185.72 6.00 17 Mulbery 313.61 5.00 19 Other Crops 167.00 6.00 | Name of the Crop | S.No. Name of the Crop Area in Ha. Requirement (mmidsy) Surface Drip 1 Citrus 37759.14 3.00 6640.00 2560.00 2 Mango 8012.52 2.30 5100.00 3324.00 3 Sapota 6302.48 2.30 5100.00 3324.00 4 Pomegranate 3768.04 4.90 3920.00 2195.00 5 Guava 2111.06 3.50 6400.00 5200.00 6 Arecanut 622.96 4.00 3400.00 3250.00 1800.00 7 Ber 572.90 3.30 2800.00 1800.00 2200.00 2320.00 2220.00 9 9 Other fruits 349.00 3.00 5100.00 3324.00 2320.00 3220.00 2320.00 3324.00 330.00 3324.00 330.00 3324.00 330.00 330.00 3320.00 3220.00 3220.00 3220.00 3220.00 3220.00 3220.00 3220.00 3220.00 332 | Name of the Crop Area in Ha. Peak water Requirement by surface Drip Surface D | Name of the Crop |

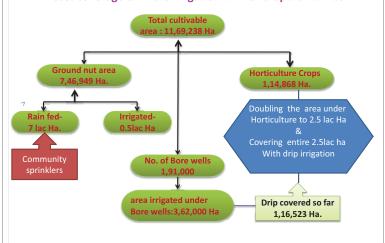
- Total water being utilized for per year for the crops covered under Drip 34.34 TMC
 Total water required if it is with surface irrigation 68.07 TMC
 Because of judicial usage of water from bore wells by drip the seasonal bore wells in Ananthapuramu district are sustaining. And also extent grown in each bore well is increasing by two to three times based on the crop.

Impact of Drip on Income Horticulture Farmers

| | Name of | Extent covered | Yeild | Yeild Kgs / Acre | | | duction dif | ference | Total income difference in lakhs. | | | % increa |
|--------|----------------------------|-----------------------------------|-------------|------------------|-----------|------------|-------------|----------------------|-----------------------------------|-----------|--------------------------|---------------------|
| SI. No | Name of the crop | with drip/ sprinklers in ha | Surfac e | Drip | % more | Surface | Drip | Additiona I yeild | Surface | Drip | Addition al Income | se in incom e |
| - 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| - 1 | Banana | 13814.00 | 23000 | 35000 | 52.00 | 317722.00 | 483490.00 | 165768.00 | 25417.76 | 43514.10 | 18096.34 | 71.20 |
| 2 | Citrus / Sweet Orange | 37467.00 | 4000 | 12000 | 200.00 | 149868.00 | 449604.00 | 299736.00 | 14986.80 | 44960.40 | 29973.60 | 200.00 |
| 3 | Grapes | 285.00 | 8000 | 14000 | 75.00 | 2280.00 | 3990.00 | 1710.00 | 456.00 | 798.00 | 342.00 | 75.00 |
| 4 | Mango | 8013.00 | 3000 | 6000 | 100.00 | 24039.00 | 48078.00 | 24039.00 | 2403.90 | 4807.80 | 2403.90 | 100.00 |
| 5 | Melons | 7673.00 | 9000 | 18000 | 100.00 | 69057.00 | 138114.00 | 69057.00 | 5524.56 | 11049.12 | 5524.56 | 100.00 |
| 6 | Papaya | 10176.00 | 30000 | 80000 | 166.60 | 305280.00 | 814080.00 | 508800.00 | 21369.60 | 56985.60 | 35616.00 | 166.67 |
| 7 | Pomegranate | 3768.00 | 6000 | 12000 | 100.00 | 22608.00 | 45216.00 | 22608.00 | 13564.80 | 27129.60 | 13564.80 | 100.00 |
| 8 | Sapota | 6302.00 | 5000 | 10000 | 100.00 | 31510.00 | 63020.00 | 31510.00 | 1890.60 | 3781.20 | 1890.60 | 100.00 |
| 9 | Vegetables | 14152.00 | 9800 | 30000 | 206.00 | 138689.60 | 424560.00 | 285870.40 | 13868.96 | 42456.00 | 28587.04 | 206.12 |
| 10 | Sprinkler for Groundnut | 63425.00 | 1200 | 3000 | 150.00 | 76110.00 | 190275.00 | 114165.00 | 22833.00 | 57082.50 | 34249.50 | 150.00 |
| 11 | Flowers | 156.00 | 2500 | 4000 | 160.00 | 390.00 | 624.00 | 234.00 | 78.00 | 124.80 | 46.80 | 60.00 |
| 12 | Sericulture (Caccoons) | 314.00 | 600 | 800 | 133.33 | 188.40 | 251.20 | 62.80 | 565.20 | 753.60 | 188.40 | 33.33 |
| Total | | 165075.00 | 102100 | 224800 | | 1137163.60 | 2660427.00 | 1523263.40 | 122315.98 | 292564.32 | 170248.34 | 139.19 |

- Since inception of APMIP ie., 2003-04 **Rs. 478.00 crores** was utilized as subsidy for implementing Micro Irrigation Project in the district.
- ✓ By utilizing Rs.478.00 Crores on implementation of APMIP in the district an additional income of Rs.1702.48 crores is generating every year in Ananthapuramu district.

100% coverage of Micro irrigation in Ananthapuramu Dist



COMMUNITY SPRINKLERS / DRIP IRRIGATION SYSTEMS PROPOSED Model at Shiggoan, near Hubli, Karnataka State.



- ☐ Total Area covered 10,000 Ha.
- ☐ Cost of the Project Rs. 235 Crores.
- Water source Lifting from Warada River.
- ☐ Two Irrigations proposed for the crops like Ground nut, Maize and Cotton at critical stages of crop growth.
 Projects proposed under Community

Sprinklers

- >Area proposed to Cover 7.00 Lakh Ha.
- ≻Crop Ground nut
- >DPR is being prepared by NABCONS. Blocks / Clusters identified.
 - > Kanekal Tank
 - ≻Jeedipalli Reservoir
 - **≻PABR**

Projects proposed under Community Drip Irrigation Systems (Fully automized)

≻Haresamudram, Bommanahal Mandal – 300

>PC Revu. Mudigubba Mandal − 160 Acres.

COMMUNITY SPRINKLERS / DRIP IRRIGATION SYSTEMS PROPOSED

Projects proposed under Community Sprinklers:

- ➤ Area proposed to Cover 7.00 Lac Ha in phased manner based water releases to tanks, to save the Ground Nut crop from drought by providing at 2 irrigations in critical crop growth.
- ➤ Pilot project was implemented in Donnikota Village of Nallamada mandal covering 76 Acres (30.76 hectares) beniftting 16 farmers.
- >Blocks / Clusters identified in I phase:
 - ➤ Kanekal Tank Water being fed by Tungabhadra HCL
 - ≻Jeedipalli Reservoir HNSS
 - >PABR Tungabhadra HCL and HNSS

Projects proposed under Community Drip Irrigation Systems (Fully automized):

- Haresamudram, Bommanahal Mandal 300 Acres.
- ≻PC Revu, Mudigubba Mandal 160 Acres.
- >Model at Shiggoan, near Hubli, Karnataka State was studied by team
 - ☐ Total Area covered 10,000 Ha.
 - ☐ Cost of the Project Rs. 235 Crores
 - ☐ Water source Lifting from Warada River.
 - ☐ Two Irrigations proposed for the crops like Ground nut, Maize and Cotton at critical stages of crop growth.

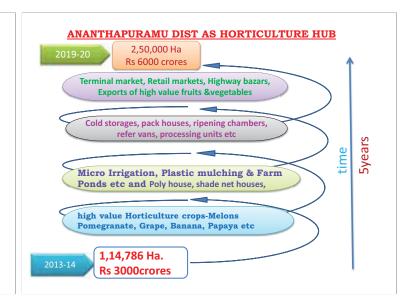
NABCOS was entrusted to prepare feasible blocks and to prepare DPR

Community Sprinkler Irrigation Systems Donnikota Village, Nallamada Mandal.





- √ Total Area of Groundnut crop
- √ Number of Sprinkler sets supplied −8 Nos.
- ✓ Cost of 8 sets
- ✓ Normal yield
- ✓ Yield recorded
- ✓ Yield increase
- ✓ Returns from 30.76 Ha.
- ✓ Returns from 30.76 Ha.
- ✓ Additional returns
- 76 Acres (30.76 hectares).
- Rs. 1,47,336/-
- 600kgs per Ha(18.46Mt)
- 800kgs per Ha. (24.61 MTs from 30.76 Ha.)
- 33%
- Rs.6,83,020/-(normal conditions)
- Rs.9,10,570/-(with sprinklers)
- Rs 2,27,550/-



FIELD CROPS:DRIP Vs CONVENTIONAL IRRIGATION

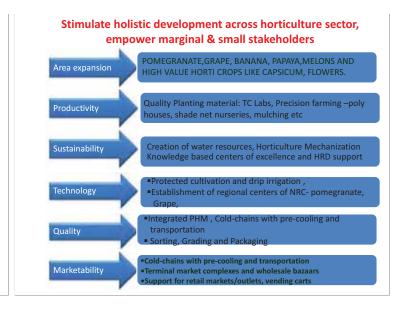
| | Y | IEL (g/ac | re) | WATER USE (m³/acre) | | | | |
|--------------|---------|------------|--------|---------------------|------|----------|--|--|
| CROP | surface | drip | % more | Surface | drip | % saving | | |
| Sugarcane | 30,000 | 75,000 | 150.0 | 9800 | 4960 | 49.3 | | |
| Cotton | 1,000 | 2,500 | 150.0 | 3600 | 1680 | 46.6 | | |
| Onion (big) | 10,000 | 18,000 | 80.0 | 2080 | 1120 | 46.1 | | |
| potato | 6,000 | 20,000 | 233.3 | 2400 | 1100 | 54.1 | | |
| Chilli (dry) | 1,200 | 3,500 | 191.6 | 1708 | 980 | 42.6 | | |
| Grain corn | 1,500 | 3,500 | 133.3 | 2304 | 1500 | 34.9 | | |
| Pop corn | 1,000 | 2,000 | 100.0 | 2200 | 1208 | 45.1 | | |
| Groundnut | 1,200 | 3,000 | 150.0 | 2620 | 1680 | 35.9 | | |
| chickpea | 1,200 | 2,000 | 66.6 | 1808 | 1048 | 42.0 | | |

FRUIT CROPS:DRIP Vs CONVENTIONAL IRRIGATION

| | YIE | EL (g/a | cre) | WATER USE (m ³ /acre) | | | | |
|-------------|--------|----------|--------|----------------------------------|------|------|--|--|
| CROP | surfac | drip | % more | Surface | drip | % | | |
| | е | | | | | savi | | |
| | | | | | | ng | | |
| Banana | 23,000 | 35,000 | 52.0 | 7040 | 3880 | 44.8 | | |
| Grapes | 8,000 | 14,000 | 75.0 | 3520 | 2320 | 34.0 | | |
| Pomegranate | 6,000 | 12,000 | 100.0 | 3920 | 2196 | 43.9 | | |
| Sweet lime | 4,000 | 12,000 | 200.0 | 6640 | 2560 | 61.4 | | |
| Mango | 3,000 | 6,000 | 100.0 | 5100 | 3324 | 34.8 | | |
| Papaya | 30,000 | 80,000 | 166.6 | 9120 | 2920 | 68.0 | | |
| Watermelon | 9,000 | 18,000 | 100.0 | 1680 | 1000 | 40.5 | | |
| innow | 8,000 | 22,000 | 175.0 | 884 | 692 | 21.7 | | |
| Guava/tree | 1,60 | 3,00 | 87.5 | 6.4 | 5.2 | 18.7 | | |

VEGETABLES CROPS:DRIP Vs CONVENTIONAL IRRIGATION

| | YII | EL (g/ac | re) | WATER USE (m³/acre) | | | |
|-------------|---------|-----------|--------|---------------------|------|------------|--|
| CROP | surface | drip | % more | Surface | drip | % | |
| | | | | | | savi ng | |
| Tomato | 9,800 | 30,000 | 206.0 | 1901 | 1007 | 47.0 | |
| Capsicum | 6,500 | 35,000 | 438.0 | 2041 | 1161 | 43.1 | |
| Bhendi | 3,100 | 12,000 | 287.0 | 1683 | 1043 | 38.0 | |
| Brinjal | 6,000 | 16,000 | 166.0 | 2483 | 1488 | 40.0 | |
| Beans | 2,300 | 5,000 | 117.0 | 1776 | 1120 | 36.9 | |
| Baby corn | 2,500 | 3,800 | 52.0 | 1462 | 820 | 43.9 | |
| Gherkins | 5,000 | 22,000 | 340.0 | 1343 | 856 | 36.2 | |
| Carrots | 6,000 | 15,000 | 150.0 | 1965 | 1301 | 33.8 | |
| Cauliflower | 7,000 | 12,000 | 71.4 | 1562 | 1040 | 33.4 | |
| cabbage | 8,550 | 22,000 | 157.3 | 1504 | 1016 | 32.4 | |



ANATHAPURAMU OF ANDHRA PRADESH VS ALMERIA OF SPAIN troomples de ANANTHAPURAMU.. LOCATION 14.68N77.6E RAINFALL 560mm, avg rainy days-23 200mm. Avg rainy days-26 AREA 19,130 sq km 296.21 sqKM Hot subtropical arid. sunniest, warmest and driest climate in europe Total cropped area 1187766 26200 Major crops Ground nut, sweet orange, tomatoes, peppers, cucumbers vegetables, tomato, melons 2.5 mill MT 3.6 mil MT Total production Rs7329.00 crores Rs 14092.00 crores Value of produce

| S.No. | Nature of | | Crops in lak | Water requirement in TMC | | |
|-------|--------------|-----------------|-----------------------------|--------------------------------|-------|--|
| 5.NO. | Crop | Total Extent | Extent under Rain fed | Extent under Irrigation | | |
| 1 | Agriculture | 8.63 | 8.00 | 0.63 | 14.84 | |
| 2 | Horticulture | 1.14 | 0.00 | 1.14 | 53.23 | |
| 3 | Sericulture | 0.10 | 0.00 | 0.10 | | |
| Total | | 9.87 | 8.00 | 1.87 | 68.07 | |

Crop wise area covered and Water requirement in the district

•Water requirement for Agriculture and other crops cultivation •Water requirement for live stock

10.00 TMC •Water requirement for human consumption 20.00 TMC Total 98.07 TMC

68 07 TMC

Water received in 2015

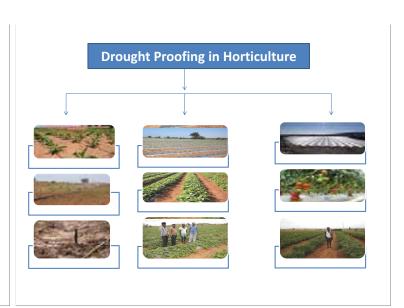
•HNSS Project 10.00 TMC •TBP HLC System 22.00 TMC Total 32.00 TMC

Water auditing

- •After deducting available surface water of 32.00 TMCs, the net water being used from ground resources – 66 TMCs
- •The total Groundwater resource available is 1,43,634 Ha.m (50 TMC).
- •Net deficit is 16 TMCs.

GROUND WATER RECHAREGE RAIN WATER....

350 TMV









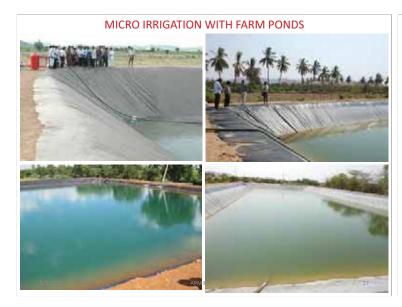














SPRINKLER IRRIGATION



MICRO SPRINKLERS



Similar to the sprinkler method of irrigation, through Micro Sprinklers water is sprayed into the air and allowed to fall on the ground surface more uniformly and with better efficiency by utilising more no. of small sprinklers.







Agriculture - Growth Engines 2015-16 over 2014-15 in Krishna district

| 5 | 61. (| Growth | Are (lakh | | Yield (kg/ha) | | _ | Producti ('000 M | | GVA value | | |
|---|-----------|---------------|--------------|---------|---------------|---------|---------|---------------------|------------|--------------|---------|--|
| N | No engine | | (Italia) | 110) | | | | (000 111 | -, | (Rs. in Cr.) | | |
| | | | 2014-15 | 2015-16 | 2014-15 | 2015-16 | 2014-15 | 2015-16 | % increase | 2014-15 | 2015-16 | |
| | 1 R | Rice | 3.18 | 3.36 | 4051 | 4313 | 1158.8 | 1353.6 | 16 | 2433.4 | 2841.7 | |
| : | 2 | Cotton | 0.55 | 0.55 | 701 | 762 | 39 | 46 | 18 | 345 | 442 | |
| ; | 7 | Sugar cane | 0.16 | 0.16 | 89400 | 100000 | 1430 | 1600 | 12 | 315 | 352 | |
| | . [| Black gram | 1.30 | 1.30 | 754 | 1000 | 98 | 130 | 32 | 421.4 | 559 | |
| ļ | 5 N | Maize | 0.21 | 0.31 | 6500 | 9000 | 136.5 | 279.0 | 104 | 178.8 | 365.5 | |
| | | | 5.40 | 5.68 | | | 2862.3 | 3408.6 | | 3693.6 | 4560.2 | |

Growth Engine- Paddy (16%)

Existing yield gap of 263 kg/ha in rice

- > Promoting green manure crops like Daincha, pillipesara and sunhemp > Promoting HYV like MTU-1061, MTU-1121 and MTU -1075 in place of existing old varieties like BPT-5204.
- > Promoting Mechanized transplanting, Direct seeded rice, drum seeder, seed cum fertiliser drills.
- > Encouraging the application of micro nutrients like Zinc based on soil test recommendations
- Adoption of rotational irrigation / warabandi system in tail end 11 mandals

Action Plan for addressing the yield gap

| Sl.No. | Technological interventions | Area proposed |
|--------|--|------------------|
| 1 | Varietal replacement in 11 sea coastal mandals | 25,000 ha |
| 2 | Direct sowing by Drum Seeding, Seed cum fertilizer drill , Mechanical transplantings in 50 mandals | 75,000 ha |
| 3 | Micronutrient application in 50 mandals | 30,000 ha |
| 4 | Green manuring in 22 mandals | 50,000 ha |
| 5 | Raising Red gram on Rice field bunds in 28 delta mandals | 2,500 ha |

Growth Engine- Cotton (18%)

- >Adoption of stem application method for effective control of sucking pest complex in 220 ha in 22 mandals.
- ➤Intercropping with red gram in 1000 ha in 22 mandals for generation of additional income.
- Encouraging Mechanical picking of cotton for reducing labour cost.

Action Plan for addressing the yield gap

| Sl.No. | Technological interventions | Area proposed |
|--------|--|------------------|
| 1 | High density planting in 10 mandals | 500 ha |
| 2 | Micronutrients like Zinc, Boron & Magnesium supply in 22 mandals | 10,000 ha |

Growth Engine- Blackgram (32%)

- Growing of YMV resistant/tolerant varieties like PU-31, TBG-104 and LBG-752.
- Need based plant protection sprayings in 10,000 ha. under NFSM cluster demonstrations for sustainable
- Encouraging farmers to go for mechanical harvesting in 300 ha, in 10 mandals for reduction in cost of cultivation

Action Plan for addressing the yield gap

| Sl.No. | Technological interventions | Area proposed |
|--------|---|------------------|
| 1 | Varietal replacement to YMV in 28 mandals | 50,000 ha |
| 2 | 1 or 2 need based light irrigations in 28 mandals | 10,000 ha |

Growth Engine- Maize (104%)

- Rabi maize would be popularised in 31,000 ha in rabi 2015-16
- > Encouraging the farmers to go for mechanical harvestings in 1000ha for reduction of cost of cultivation.
- ➤ Growing of Maize hybrids with emphasis to having more value addition and more returns in 100 ha in 4 mandals of vuyyur, Kankipadu, Penamalur & thotlavallur.

Action Plan for addressing the yield gap

| Sl.No. | Technological interventions | Area proposed |
|--------|---|------------------|
| 1 | Additional area under Maize in 12 mandals | 15,000ha |
| 2 | Zero tillage in rice fallows in 10 mandals | 10, 000ha |
| 3 | Micronutrient supply in 22 mandals | 5,000 ha |
| 4 | Need based plant protection sprayings for control of stem borer in 10 mandals | 1,000 ha |

Growth Engine- Sugarcane (12%)

- ➤ Growing of suitable sugarcane varieties like 2003-V-46, 87A-298.
- > Growing of Maize hybrids with emphasis to having more value addition and more returns in 100 ha in 4 mandals of vuyyur, Kankipadu, Penamalur & thotlavallur.
- ➤ Encouraging planting of 35 days old single node seedlings in 100 ha in 3 mandals to enhance the yield.

Action Plan for addressing the yield gap

| Sl.No. | Technological interventions | Area proposed |
|--------|---|------------------|
| 1 | Varietal replacement in 6 mandals | 2,000ha |
| 2 | Micronutrient supply in 5 mandals | 500 ha |
| | Sowing in paired rows and promoting drip irrigation system in 5 mandals | 500 ha |

Micronutrients to Boost Agricultural Production and Productivity

- > In paddy, crop exhibited Zn & Fe deficiencies but as per analysis, the deficiencies of Zn, Fe, Mn, Cu. were observed
- > In cotton, crop exhibited Zn & Fe deficiencies but as per analysis, the deficiencies of Zn, Fe, Mn, Cu. were observed
- Soil sample collection and analyses by DoA is in progress. A target of 15,000 micronutrient soil samples is allotted, out of which 4257 samples received by labs.
- For 2015-16, we are planning supply of 1000 MTs of ZnSO4 & 2000 MT Gypsum for paddy and 240 MTs of ZnSO4, 27 MTs of MgSO4 and 1.5 MTs of Borax in Cotton to enhance productivity.

Micro-nutrients Soil analysis data for 2014-15

| | | Total | inc inc | | copper | | Iro | on | Mang | ganese | Sulphur | | |
|-----|---------|-------|--------------------------------|-------|--------------------------------|------|--------------------------------|-------|--------------------------------|--------|--------------------------------------|--------------------------------|------|
| S N | istrict | No of | Below Critic al Level | % | Below Critic al Level | % | Below Critic al Level | % | Below Critic al Level | % | Total sampl es analys ed | Below Critic al Level | % |
| | a | 33 5 | 03 | 65.47 | 0 | 1.19 | 5 | 16.17 | 1 | 3.83 | 05 | 0 | 2.56 |





Government of Andhra Pradesh
Department of Fisheries
P.JAYARAO.

DY.DIRECTOR OF FISHERIES
KRISHNA



nland i erie e ource

Reservoirs- 01 3000 ha
Irrigation tanks (MI tanks) 228 5 560 ha

olleru lake (for rishna) 4488 ha(44.88 sq km)

100 crores

Rivers and canals 2 660 ms

Gram panchyath tanks(2825) 7821.38 ha

Area under freshwater aqua culture 38 108.3 ha

Govt. fish seed farms 04 Nos

Private hatcheries 12 Nos

Seed production (fry)

rac i ater e ource

Potential 30 000 ha
Total area developed 20 000 ha
isting area under culture 5 600 ha

Hatcheries 4

Species under culture L. vannamei, P. monodon, sea-

bass,crabs and silver pampano

Productivity varying depending on species and

culture methods (1-3 MT ac)

Marine i erie e ource

Coastline 111 ms Marine fishermen population 1 12 977 Active fishermen 38 914 Fishing harbours 01 Fish Landing Points 26 130 Traditional crafts 756 Motorised crafts Mechanised vessels 95

DISTRICT FISH&PRAWN PRODUCTION DETAILS IN MTs

| SI no | 2014-15 (Achiev | ement) | 2015-16(Ta | irget) | Difference of production in Tons | Growth rate % |
|-------|---------------------------------|----------|---------------------------------|-----------------|---|------------------|
| 1 | Marine fish- | 28,037 | Marine fish- | 27,740 | -297 | -1.05 |
| 2 | Marine shrimp- | 11,906 | Marine shrimp- | 13,200 | +1294 | 10.86 |
| 3 | BW Fish(sea bass, cra | b)- 575 | BW Fish(sea bass, c | rab)- 15,000 | +14,425 | 2508 |
| 4 | BW shrimp- | 13,801 | BW shrimp- | 33,200 | +19,399 | 140.56 |
| 5 | Inland fish- | 5,21,398 | Inland fish- | 5,77,310 | +55,912 | 10.72 |
| 6 | Freshwater prawn- (vannamei) | 24,585 | Freshwater prawn- (vannamei) | 25,340 | +755 | 3.07 |

PILOT SITES DETAILS





INTERVENTIONS FOR PILOT AREA

FOR BRACKISH WATER:

- Revive abundant brackish water aquaculture Ponds
- By increase productivity in the existing tanks
- > By Promotion of alternative species like Crab , Sea bass fish and Silver pompano
- > By adopting poly culture practices either with P.monodon or L.vannamei shrimp
- By converging Govt. subsidy schemes to this area
- By Supply quality seed with the help of RGCA
- > By transfer latest Technology and also by impart Training to the farmers
- By Close technical monitoring
- By Providing lab/mobile lab facilities
- By promoting organic farming

CONTINUED....

FOR FRESHWATER AQUACULTURE:

- > By converting unproductive low laying agriculture lands in to fish tanks
- > By increasing productivity in the existing tanks
- > By Promotion of alternative species like Red tilapia
- > By converging Govt. subsidy schemes to this area
- > By Supply quality seed with the help of RGCA
- > By transfer latest Technology and also by impart Training to the farmers
- > By close technical monitoring by the department
- > By Providing lab/mobile lab facilities
- > By promoting organic farming

8

GAPS TO ADDRESSED IMMEDIATELY TO ACHIVE ABOVE TARGETS

- ❖ APPOINT TECHNICAL STAFF THROUGH OUTSOURCESING TO THE PILOT SITE MANDALS
- ❖ CONSTITUITE TECHNICAL WING FOR CLOSE MONITORING
- ❖ TIEUP WITH RGCA FOR ASSURED SUPPLY OF SEABASS AND CRAB SEED & FEED
- DEPUTE TECHNICAL STAFF FOR TRAINING TO THE RGCA TO ACT AS MASTERTARINERS FOR CRAB AND SEABASS CULTURE
- ❖ PROVIDE CONVEYANCE AND BUDGET TO THE TECHNICAL TEAM FOR QUICK MONITORING
- ❖ PROVIDE LAPTOPS TO THE TECHNICAL STAFF

HRD PROBLEMS TO BE ADDRESSED TO ACHIVE TARGETS

- FILL UP ALL VACANCIES IN THE DEPARTMENT
- IMMEDIATELY APPOINT MULTIPURPOSE EXTENTION OFFICERS IN AQUACULTURE POTENTIAL MANDALS
- DEPUTE TECHNICAL FIELD STAFF FOR TRAINING IN THE ABROAD TO LEARN ADVANCED TECHNICS
- PROVIDE SUFFICIENT BUDGET FOR RECURRENGING EXPENDITURE FOR LAB
- PROVIDE LOPTOPS FOR TECHICAL STAFF

10

INFRASTRUCTURE FECILITIES TO BE PROVIDED

- ESTABLISH 4 NEW AQUA LABS IN THE DISTRICT
- STRENGTHEN AND UPGRADE KAIKALURU STATE REFERAL LAB
- INTRODUCE MOBILE AQUA LAB
- ESTABLISH CRAB,SEA BASS,SILVER PAMPANO HATCHERIES IN THE DISTRICT
- ESTABLISH FRESHWATER AQUA FARMERS ADVANCED TRAINING CENTRE
- PROVIDE CONVEYANCE TO THE TECHNICAL WING
- PROVIDE INTERNAL ROADS AND ELECTRIFICATION IN THE AQUACULTURE AREAS FOR QUICK TRANSPORT
- DESILTING THE SALT CREEKS IN THE BRACKISHWATER AREAS FOR AVAILABILITY
 OF WATER

NEED TO MODIFY SOME POLACIES AND GOS

- ASSIGNED AND D-FORM LANDS SHOULD BE ALLOWED TO CONVERT IN TO FISH/PRAWN TANKS WHERE IT IS SUITABLE FOR AQUACULTURE
- LIBARALIZE THE COASTAL AQUACULTURE GUIDELINES FOR SMALL AND MARGINAL FARMERS
- ISSUE INTEGRATED PERMISSION FOR CULTURING OF EXOTIC NEW SPECIES INSTEAD OF SEPARATE PERMISSIONS (GO NO 15 FOR VENNAMAL GO NO 20 FOR TILAPIA AND PANGASIUS)
- TREAT THE AQUACULTURE AS AGRICULTURE TO ATTRACT MORE FARMERS AND ALSO TO IMPLIMENT SOME SUBSIDIES
- DELIGATE POWERS TO FISHERIES DEPARTMENT TO CONTROL ADULTRATIONS IN AQUA CHEMICALS AND MEDICINES
- STRENGTHEN FISH SEED ACT AND BRING ALL SHRIMP, FISH AND CRAB
 HATCHERIES UNDER THE CONTROLL OF FISHERIES DEPARTMENT FOR SEED
 QUALITY CONTROL

11

12

Fish for nation Health Fish for nation Wealth Thank You



WELCOME

TO

DELEGATES OF PRIMARY SECTOR MISSION

HORTICULTURE DEPARTMENT -KRISHNA DISTRICT

HORTICULTURE PROFILE IN RISHNA ISTRICT 2014-2015

| Name of the Crop | Area (Ha) | Production (MTs) | Productivity (MT/Ha) | Average Market Price (Rs/Ton) | Total Value.(Rs. In Lakhs) |
|--------------------|--------------|---------------------|-------------------------|--|----------------------------------|
| I.Short term Crops | | | | | |
| 1. aaa oal | 1 3 | 30 0 | 30 | 000 | 38 1.80 |
| .T It aaa | 1 0 | 000 | 50 | 1 000 | 0.00 |
| 3. ааа | 1 1 | 0 5 | 5 | 000 | 35. 5 |
| . To ato | 1010 | 50500 | 50 | 5000 | 5 5.00 |
| 5. II | 5 | 80 | 5 | 0000 | 330 .00 |
| . II | 55 | 83 0 | 15 | 0000 | 1 8.00 |
| .Т | 188 | 113 | | 0000 | 5. 0 |
| 8. | 53 | 5 | 15 | 0000 | .00 |
| . ta I o | 8 8 | 8 80 | 10 | 10000 | 8 8.00 |
| 10. lo o | 3 8 | 3 80 | 10 | 5000 | 5.00 |
| Sub-Total-1 | 23503 | 264992 | | | 60381.45 |

HORTICULTURE PROFILE IN RISHNA ISTRICT 2014-2015

| Name of the Crop | Area(Ha) | Production (MTs) | Productiv ity (MT/Ha) | Average Market price Rs/Ton | Total Value.(Rs. In Lakhs) |
|--------------------|----------|---------------------|-----------------------------|-----------------------------------|-------------------------------|
| II.Long term Crops | | | | | |
| 1. a o | 31 | 50503 | 8 | 18000 | 0 05. |
| . a | 1 | 3. | 0. | 11 500 | 8 .35 |
| 3. t a | 13 | 18 | 1 | 1 000 | 1.8 |
| | 03 | 105 5 | 15 | 15000 | 1581. 5 |
| 5. o a at | 11 | 0 | 0 | 000 | 13. 0 |
| . a ota | 5 1 | 5 10 | 10 | 5000 | 0.50 |
| . аа | 1 | 1330 | 15 | 10000 | 133.00 |
| 8. o oa | 8 | 3 | 0.5 | 150000 | 5 3.50 |
| . o o t | 18 | . 0 a | 15000 t | 000 1000 t | 1 . 0 |
| 10. l al | 1 88 | 11 8 5 | 15 | 000 | 01. 5 |
| 11. t | 0 | 1 5 | 10 | 5000 | 53 . 5 |
| Sub-Total-2 | 81702 | 658161 | 108.1 | 360500 | 105648.8 |

HORTICULTURE PROFILE IN RISHNA ISTRICT 2014-2015

| Name of the Crop | Area (Ha.) | Productio n (MTs) | Productivity | Average Market Price | Total Value.(Rs. In Lakhs) |
|------------------------------|---------------|----------------------|--------------------|-------------------------|----------------------------------|
| III.Protected Cultivation | | | | | |
| 1. ol o lt at o | t | | | | |
| . tal a | 5 0 | | t 5 0 | 35000 | 3.15 |
| . lo a | 1 80 | 3.00 a lo | 1.00 a lo t 5 0 | . 3 a lo | .00 |
| . lo a at o | 11 0 | .00 a lo | 1.00 a lo t 5 0 | a lo | 1 .00 |
| 15. a to t at | 00 | 1.50 To | 50 t 300 | . 50 | 0. 5 |
| . a o a a | 10 | .00 a a t a | 0 000 at la a | . 0 a at la | 0.00 |
| . ta I . t . II al to ato | 0000 | 100 a | .5 a 1000 t | . 0.5 a | 50.00 |
| Total 3 | | | | | 11 . 0 |
| Grand -Total | 105205 | | | | 166546.90 |

Major Growth Engines contributing to the Growth of GS P in rishna istrict

| SI. | Crop | Existin g | Prodn | Value | Additional area proposed during 2015-16 | | | Total (Existing Proposed) | | | |
|--------|-----------------|--------------|--------|-----------------|---|----------------|----------------------|------------------------------|----------------|----------------------|---|
| N o | | Area (Ha) | (MTs) | Rs. In Lakhs | Area (Ha) | Prodn (MTs) | Value (Lakh s) | Area (Ha) | Prodn (MTs) | Value (Lakh s) | |
| 1 | Mango | 63129 | 505032 | 90906 | 1200 | 12 | 18000 | 63329 | 505032 | 90906 | |
| 2 | Vegetable s | 8468 | 84680 | 84608 | 791 | 28321 | 1871 | 9259 | 113001 | 86479 | |
| 3 | Red Chillies | 9456 | 47280 | 33096 | 225 | 1350 | 945 | 9681 | 48630 | 34041 | |
| 4 | Turmeric | 1887 | 11322 | 7925 | 100 | 650 | 46 | 1987 | 11972 | 7971 | |
| 5 | Oilpalm | 12988 | 112875 | 7901 | 1700 | 0 | 0 | 14688 | 112875 | 7901 | |
| 6 | Banana | 1554 | 49020 | 4592 | 100 | 6000 | 600 | 1654 | 55020 | 5192 | |
| | Total | 97482 | 810209 | 229028 | 3116 | 36321 | 3462 | 100598 | 846530 | 232490 | 5 |

| | | | PRIMAR | RY SECTOR N | AISSION (H | ORTICULTU | RE)- 2015 | 5-16 | |
|-----------|---------------------|----------|--|--|---|-------------|--|--|---|
| | Additiona | Area Pr | oposed du | uring 2015-16 | | | it Growth | (i.e.30%) | on the existing |
| Var | ne of the | istrict: | rishna | | ist.G I | , | | | |
| SI. No | Name of the Crop | No/ | Additional Area Proposed (Ha) (2015- 16) | Expected increase in Production by following Interventions (MTs/Ha) | Expected increase in Productivity by following Intervention s (MTs/Ha) | Mts) (based | Total value(Rs. in Lakhs) (6*8) | Financial Budget requireme nt (Rs. In Lakhs) | Interventions proposed to incre Production/ Productivity |
| 1 | a o | а | 00 | 0 | 0 | | 0 0 | 3 .00 | ato d I ato I I ato o o t a tlo |
| | ta I | а | 1 | 83 1 | 15 | 5 | 8 | 03.8 | tal I I lat I a al T II a otat aa t |
| 3 | II | a. | 5 | 1350 | | 0000 | 3 0 1 | 38. 0 | ol ato I la t I |
| | т | a. | 100 | 50 | .5 | 000 | 1 | 1. 0 | ol ato I |
| 5 | l al | а | 1 00 | 0 | 0 | | 01 | 30. | ol atoli olt at aa ta It at t aa t. |
| | Banana | На. | 100 | 000 | 0 | 10000 | 51 | 3 .50 | T aaa t |
| | | | 2446 | | | | 222400 | 040.047 | |

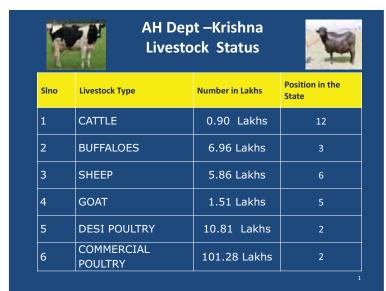
INTERVENTIONS TO INCREASE YIEL S OF MAJOR HORTICULTURE CROPS IN RISHNA ISTRICT

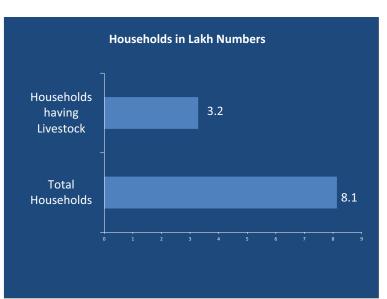
| SI. No | Crop | Present Yield (M.Tons) | Increased yield due to intervention s (M.Tons) | % of increase | Interventions |
|-----------|--------------------------|------------------------------|--|---------------|--|
| 1 | Mango | 8 | 12 | 50% | Rejuvenation, Micro Irrigation, Integrated Pest Management, Integrated Nutrient Management, Minimi ation of Post harvest losses. |
| 2 | Guava | 15 | 20 | 33% | uality Guava layers, Micro Irrigation, Plastic Mulching, Integrated Pest Management Integrated Nutrient Management, use of plastic crates for collection and transport |
| 3 | Tissue Culture Banana | 50 | 60 | 20% | uality Tissue Culture Banana plants, Micro Irrigation, Plastic Mulching, Integrated Pest Management Integrated Nutrient Management. |
| 4 | Oil Palm | 15 | 20 | 33% | Micro Irrigation, Inter crops, Integrated Pest Management and Integrated Nutrient Management. |
| 5 | Tomato | 50 | 75 | 70% | Use of Hybrid varieties, Trellies, Micro Irrigation |

PRIMARY SECTOR MISSION-HORTICULTURE INTERVENTIONS PROPOSED

| | | Mic | | |
|------|------------------------|------------|------------------|--|
| S.No | Name of the Crop | Phy., Ha., | Fin., Rs.in Lakh | |
| 1 | T.C.Banan | 50 | 23.88 | |
| 2 | Banana | 20 | 15.92 | |
| 3 | Papaya | 25 | 19.90 | |
| 4 | Tomato | 50 | 50.00 | |
| 5 | R.Chillies | 550 | 550.00 | |
| 6 | Turmeric | 120 | 120.00 | |
| 7 | Hy.Tomato | 100 | 100.00 | |
| 8 | Mango | 300 | 60.28 | |
| 9 | Acidlime | 50 | 14.50 | |
| 10 | Sapota | 40 | 10.00 | |
| 11 | Guava | 150 | 50.33 | |
| 12 | Cocos | 30 | 10.78 | |
| 13 | Coconut | 30 | 7.50 | |
| 14 | Oil Palm | 600 | 179.68 | |
| 15 | Major Veg.Crops 6 Nos. | 520 | 520.00 | |
| 16 | Major Flower Crops | 60 | 47.76 | |







AH Dept –Krishna Core Outputs 2013-14 & 14-15

| Sln o | Indicator | 2013-14 | 14-15 | 15-16 proposed |
|----------|----------------------------------|---------|-------|-------------------|
| 1 | Milk (in Lakh MTs) | 9.8 | 10.58 | 12 |
| 2 | Meat (in Thousand MTs) | 58.89 | 65.11 | 68.00 |
| 3 | Eggs (in Lakh numbers) | 15440 | 17434 | 21000 |

GVA – growth rates

| Growth engine | GVA in Cro | res Rs | % Growth over last Year | | |
|---------------|------------|---------|----------------------------|-------------------|---------------------|
| | 2013-14 | 2014-15 | 2015-16 | 12-13 to 13-14 | 2014-15 to 15-16 |
| Milk | 2349.6 | 2772.38 | 3184 | 17.994 | 14.847 |
| Meat | 973.2 | 1076.16 | 1223.1 | 10.580 | 13.654 |
| Eggs | 339.61 | 383.48 | 439.86 | 12.918 | 14.702 |
| Total | 3662.41 | 4232.02 | 4846.96 | 15.553 | 14.531 |

Entrepreneurship - productivity, reliability and sustainability of smallholder Dairy farming

- Unemployed youth & Small holders paradigm shift to entrepreneurship
- 5-10 Milch Animals
- Bank linkage No subsidies –DCC App
- Expected milk production -42 Lakhs Litres
- GVA 14.7 Crores rupees

Fodder Production –Convergence with NREGS & ATMA

- Fodder Production Groups 5
- Selected Pilot Villages
- chaffed fodder -door steps of required farmers
- 40 Acres for 240 M.A.s.
- 2 litres/ Milch Animal 75 L
 Litres/Year = 0.648 Crores Rs

Peer group -Capacity building

- Sensible progressive farmers -congregated Dist Peer group
- Trained in all aspects
- group members communicate Calf weaning feed , Chelated Mineral Supplementation .
- The goal will be achieved through Intensive one to one interaction at Village level –
- convergence with SERP & ATMA .
- enhancing milk productivity, Value of the Animal, Calf to heifer to Mich Animal transformation i.e. asset creation.

Peer group -Capacity building

- 500 Villages X 25 Farmers X 1 Milch Animal , 1 female calf
- 37.5 Lakh Milk per lactation and 12000 heifers at least @15000 Rs/H

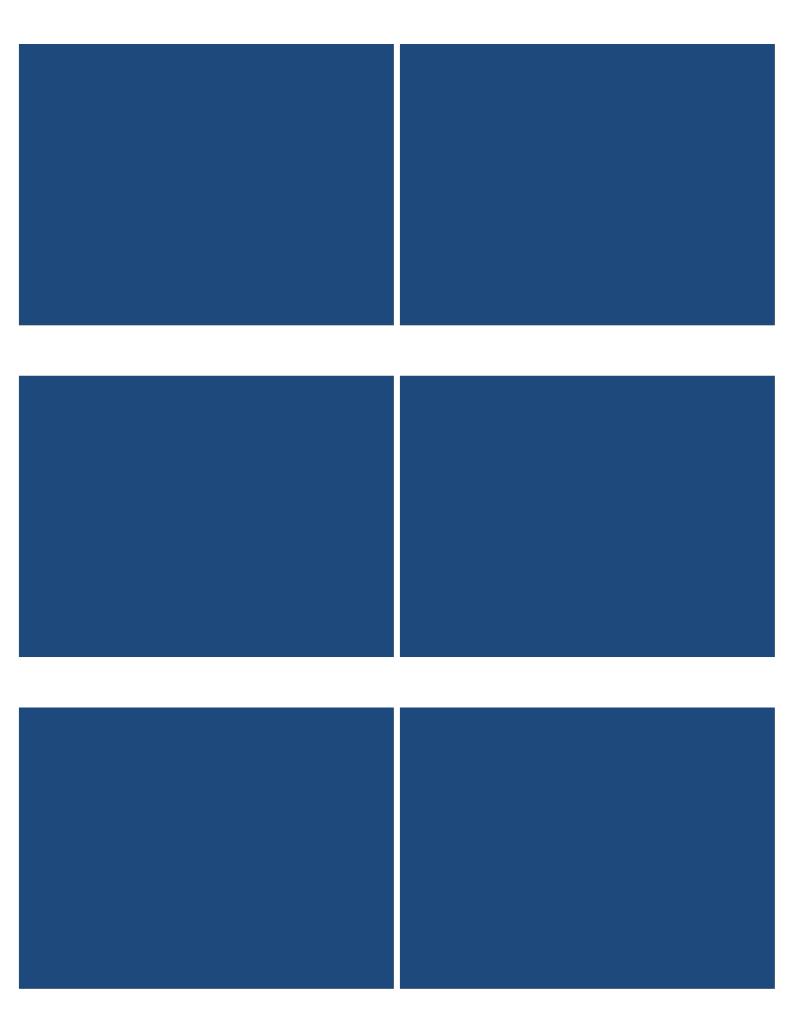
| Budget Items | | | | | | | | | |
|--------------|---------------|--|-------------------|---|--------------------------------------|--|--|--|--|
| S.No | Intervention | Activity | Proposed Units | Value Calculation | Incremental increase (in Crores Rs) | | | | |
| 1 | Ksheerasaagar | Scientific feeding and Management from last trimester of pregnancy to first 3 months of Lactation | 5000 | Enhancement of 1 Liters/ Milch Animal X 225 M.A.s X 30 Rs X 300 Days | 4.5 | | | | |
| 2 | Suphalam | Registration of Infertile -low productive or unproductive Animals :: make them conceive and productive | 20000 | Enhancement of 2 Liters/ Milch Animal X 200 M.A.s X 30 Rs X 300 Days | 24 | | | | |
| 3 | Sunandini | Calves of 4-6 Months will be selected and will be given calf feed till they attain the age of 24 Months or conception | 8000 | Value addition of Rs 12000 /Animal X 200 Calves | 9.6 | | | | |

| | Interventions Budgetary- Meat | | | | | | | | | |
|------|---|---|-------------------------------------|------------------------------------|--------------------------------------|--|--|--|--|--|
| S.No | Convergence Scheme Name (Govt) | Activity | Proposed units/no per village | Expected Meat production (In MTs) | Incremental increase (in Crores Rs) | | | | | |
| 1 | Mini Sheep / Goat | 5 Female Sheep or Goat + 1 | 110 | 4.4 | 0.0792 | | | | | |
| 2 | Ram lamb units | Ram lambs are supplied for meat purpose | 50 | 10 | 0.18 | | | | | |
| 3 | Backyard Poultry Scheme (Mana Kodi) | Improved Desi bird variety chicks Low Input like Rainbow rooster , Vanaraja etc., Each unit of 45 Chicks in two to three cycles | 1400 | 113.4 | 1.464 | | | | | |
| 4 | Prevention of inbreeding | Breeding Ram exchange | 2500 | 125 | 2.25 | | | | | |

| | Interv | entions Budg | etary | - Egg | s |
|----|--|---|-------------------|---|---------------------------|
| S. | 0.1 | Activity | Proposed units | Egg Production (in Lakhs numbers) | GVA (in Crores Rs) |
| 1 | Mana Kodi | Low input - Improved Desi birds like rainbow rooster @ 45 Chicks | 1400 | 94.5 | 2.268 |
| 2 | Backyard Poultry Egg Production enhancement involvement activities | Capacity building on - simple interventions like Deworming, feed supplementation etc., | 50000 | 2.5 | 0.075 |

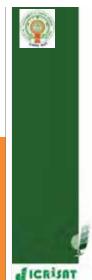
Thank You

Dr KVL Narasimharao Deputy Director(AH) Kishna









District Information/geographical profile

Latitude: 15°-43 N &17° 10 of North

Longitude: 80° E & 81° 33 of East

District Area: 8727 km² -50 Mandals

• Rainfall 1034 mm

 Four revenue divisions-Vijayawada, Machilipatnam, Gudivada, Nuziveedu.

· Naturally divided into -Upland & Delta

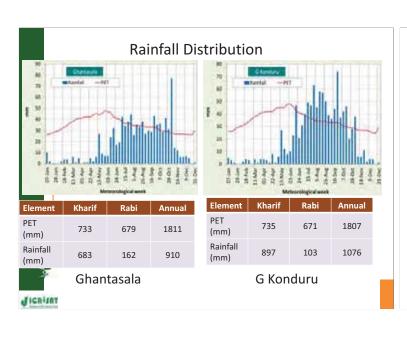
Soils:

1. Black cotton soils - 57.6%

2. Sandy clay loams - 22.3%

3. Red loamy soils - 19.4%

4. Sandy soils - 0.7%



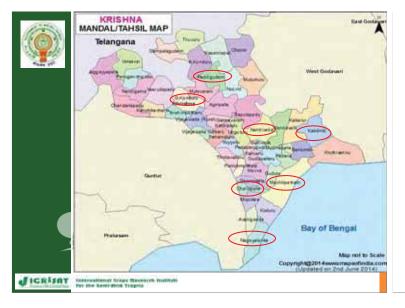
Process Adopted for Sites Selection and Benchmark Characterization in KRISHNA

Criteria adopted

- > Representative site for the district
- ➤ Good potential for impact to bridge the gaps
- ➤ Accessibility
- ➤ Willingness to adopt new
- > Presence of suitable institutions

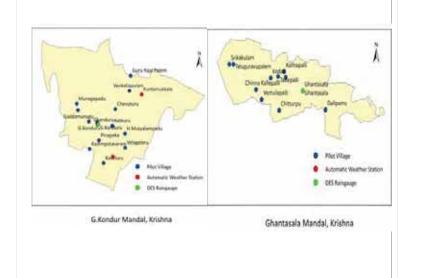
Process

- > Stakeholders' consultations
 - District collector
 - CPO
 - JD of all line departments
 - Farmers
- > Consultation with all line Departments
 - Mandal level staff of all line departments



Primary sectors identified in the pilot sites

| Mandal and Crops | Village |
|---|--|
| Ghantasala (10 villages) | Srikakulam, Teluguravupalem, Kodali, |
| (Paddy, Maize, Pulses, | Kothapalli, Ghantasala, Tadepalli, Chinnakallepalli, |
| Sugarcane) | Vemulapalli, Chitturpu, Daliparru |
| G. Konduru (12 villages) Cotton, Paddy, Chillies, Vegetables, Mango) | Kavuluru (Kadimpotavaram) Velagaluru, H.Mutyalampadu, Aatkuru, Pinapaka, G.konduru, Gaddamanugu, Cheruvu Madhavaram, Munagapadu, Chevuturu, Venkatapuram, Gururajupalem |
| Reddygudem (Mango) | Nagaluru |
| Nagayalanka (Fisheries) | Sorlagondhi, Sangameswaram,Gullalamoda, Yetimoga, Nali, Deendayal puram |
| Machilipatnam (Fisheries) | Bandarwest, Garaladibba, Polatitippa, Kona, Pedayadara, PT palem, Kpt Palem, Chinnapuram |
| Kalidindi (Fisheries) | Poyjumarru, Tadinada |
| Nandiwada (Fisheries) | Pedalingala, Polukonda |



Pilot site crop area

| G onduru | Area in Ha | Ghantasala | Area in Ha |
|------------------------|------------|------------------------|---------------|
| No of villages covered | 13 | No of villages covered | 10 |
| Total Geo Area | 9900 | Total Geo Area | 8203 |
| Total Cult Area | 9272 | Total Cult Area | 5910 |
| Cotton | 2980 | Paddy | 5419 |
| Paddy | 705 | Sugar cane | 523 |
| Chillies | 327 | Pulses | 4719 |
| Vegetables | 162 | Mai e | 717 |
| Mango | 502 | | |

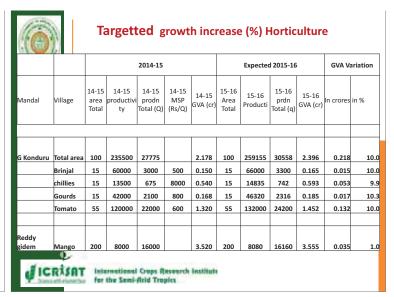
Selected pilot sites (Horticulture)

| SI. No | Name of the Mandal | Village | Selected Crop | Area in Ha. |
|-----------|-----------------------|--|----------------------------|-------------------------|
| 1 | G.Konduru | 1.Gaddamanugu 2.Cheruvumadhavaram 3.Munagapadu | Chilli Tomato Gourds | 50.00 30.00 20.00 |
| 2. | Reddy Gudem | Naguluru | Mango | 200.00 |

Agriculture - Growth Engines 2015-16 over 2014-15 in Krishna district

| - L | | | | | | | | | | | |
|-----|------------|---------------|--------------|---------|---------------|---------|-------------------------|---------|------------|-----------|---------|
| | Sl. Growth | | Are (lakh | | Yield (kg/ha) | | Production ('000 MT) | | | GVA value | |
| - | No | engine | | | | | | | | (KS. 1 | n Cr.) |
| | | | 2014-15 | 2015-16 | 2014-15 | 2015-16 | 2014-15 | 2015-16 | % increase | 2014-15 | 2015-16 |
| | 1 | Rice | 3.18 | 3.36 | 4051 | 4313 | 1158.8 | 1353.6 | 16 | 2433.4 | 2841.7 |
| | 2 | Cotton | 0.55 | 0.55 | 701 | 762 | 39 | 46 | 18 | 345 | 442 |
| | 3 | Black gram | 1.30 | 1.30 | 754 | 1000 | 98 | 130 | 32 | 421.4 | 559 |
| | 4 | Maize | 0.21 | 0.31 | 6500 | 9000 | 136.5 | 279.0 | 104 | 178.8 | 365.5 |
| | | | 5.40 | 5.68 | | | 2862.3 | 3408.6 | | 3693.6 | 4560.2 |

| Ŧ | 69 | | Target | ted gr | owth i | incre | ase (% | 6) Agri | cultu | ire | | |
|------------|--------|------------|---------|-------------------------|---------|-------|--------|--------------------------|---------|-------|-----------|---------|
| | | | | | 2014-15 | | | : | 2015-16 | | GVA dif | ference |
| | | | | Productivit y(kg Ha) | | | | Productivi ty (kg Ha) | | | In Crores | In % |
| | | Paddy | 704.17 | 4158 | 29279 | 1400 | 4.099 | 4580 | 32251 | 4.52 | 0.416 | 10 |
| | | Red Gram | 2.80 | 1167 | 33 | 4350 | 0.014 | 1270 | 36 | 0.02 | 0.001 | 8 |
| | Charif | Cotton | 3017.50 | 2828 | 85335 | 4050 | 34.561 | 3110 | 93844 | 38.01 | 3.446 | 10 |
| 2 | _ | Maize | 11.20 | 7167 | 803 | 1310 | 0.105 | 7710 | 864 | 0.11 | 0.008 | 7 |
| G Konduru | | Black gram | 16.00 | 730 | 117 | 4300 | 0.050 | 800 | 128 | 0.06 | 0.005 | 9 |
| 9 | | Black gram | 72.00 | 975 | 702 | 4300 | 0.302 | 1065 | 767 | 0.33 | 0.028 | 9 |
| | Rabi | Green Gram | 57.00 | 860 | 490 | 4500 | 0.221 | 940 | 536 | 0.24 | 0.021 | 9 |
| | Ra | Maize | 249.00 | 7900 | 19671 | 1310 | 2.577 | 8450 | 21041 | 2.76 | 0.179 | 7 |
| | | Paddy | 406.50 | 5610 | 22805 | 1400 | 3.193 | 6160 | 25040 | 3.51 | 0.313 | 9 |
| | Kharif | Paddy | 5412.82 | 5846 | 316434 | 1400 | 44.301 | 6430 | 348044 | 48.73 | 4.426 | 10 |
| Ghantasala | | Black gram | 4126.60 | 1125 | 46424 | 4300 | 19.962 | 1230 | 50757 | 21.83 | 1.863 | 9 |
| Shant | Rabi | Green Gram | 437.80 | 750 | 3284 | 4500 | 1.478 | 825 | 3612 | 1.63 | 0.148 | 10 |
| 9 | | Maize | 716.73 | 7500 | 53754 | 1310 | 7.042 | 8080 | 57911 | 7.59 | 0.545 | 7 |



Targeted growth increase (%) Fisheries

| Mandal | Туре | Sector | Туре | Area (ha) | Farmgate Value (Avg)/ton n | | GVA | 2015-16 prdn (tons) | 2014-15 GVA (cr) |
|---------------|-----------------|---------|--------|--------------|-------------------------------------|------|------|---------------------------|---------------------|
| Nandiwada | L- Vennamei | Fishery | Inland | 200 | 300000 | 400 | 12.0 | 500 | 15.0 |
| Nandiwada | fish culture | Fishery | Inland | 200 | 70000 | 1600 | 11.2 | 1600 | 11.2 |
| Kalidindi | L- Vnnamai | Fishery | Inland | 200 | 300000 | 400 | 12.0 | 500 | 15.0 |
| Kalidindi | fish culture | Fishery | Inland | 200 | 70000 | 1600 | 11.2 | 1600 | 11.2 |
| Nagayalanka | | Fishery | Marine | 600 | 300000 | 300 | 9.0 | 600 | 18.0 |
| Machilipatnam | | Fishery | Marine | 600 | 300000 | 300 | 9.0 | 600 | 18.0 |

| | Anir | nal Husbandı | y Sector | in Pilot s | ites Krishna D | District - Mi | lk |
|---------------|------------|--|------------|------------|--|--|---|
| .No 1 2 | Mandal | Pilot sites - Villages Chinakallepalli, Vemulapalli, | | | Targeted Increase for GDP value for 2015-2016 (in Lakh Rs) | Incremental increase through the interventions (in Lakh Rs) 20.25 | % Enhancement from the Intervention 1.24 1.47 |
| 3 4 | Ghantasala | Chitturpu, Kodali, Tadepalli, Kothapalli, Ghantasala, | 40 200 | 1321 | 1634 | 64.8 40 | 3.97 2.45 |
| 5 | 5 | Daliparru and Srikakulam & Teluguraopalem - 10 Villages | 700 | | | 63 | 3.86 |
| 1 | | KAVULURU , | 200 | | | 18 | 0.87 |
| 2 | | VELAGALERU , HAVELI | 480 45 | | | 57.6 64.8 | 2.78 3.13 |
| 4 5 | | MUTHYALAMPADU , ATKURU , PINAPAKA , | 120 500 | | | 24 45 | 1.16 2.17 |
| | G.Kondur | G.KONDURU , GADDAMANUGU , CH.MADHAVARAM | | 1787 | 2070 | 22.6 | |
| 6 | | , MUNAGAPADU , CHEVUTURU , GURRURAJAPALEM | | | | 33.6 | 1.62 |

Animal Husbandry Sector --in Pilot sites Krishna District - Eggs

| Formula | Proposed units/no per village | Formula per village |

1265, 1304

| | Ani | mal Husband | dry Sectorin P | ilot sites Kri | shna Disti | rict Meat | |
|------|----------|-------------------------------------|---|---------------------------------|------------|---|--------|
| S.No | Mandal | Proposed units/no per village | Expected Meat production through the intervention | Proposed value in Rs 2014-15 | | Incremental increase through the interventions (in Lakh Rs) | |
| 1 | | 10 | 0.4 | | 597 | 0.72 | 0.1206 |
| 2 | C Kandur | 10 | 2 | 557 | | 3.6 | 0.6030 |
| 3 | G.Kondur | 50 | 4.05 | | | 7.29 | 1.2211 |
| 4 | | 120 | 6 | | | 10.8 | 1.8090 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| 1 | 10 | 0.4 | | | 0.72 | 0.0697 |
|-----------------|-----|------|-----|------|-------|--------|
| 2 Ghantasala | 10 | 2 | 922 | 1033 | 3.6 | 0.3485 |
| 3 | 40 | 3.24 | 922 | 1033 | 5.832 | 0.5646 |
| 4 | 125 | 6.25 | | | 11.25 | 1.0891 |

Proposed interventions in Ag sector

| | | | 1.Collection of soil samples in the selected pilot site of 10,000 hac @ 20 samples for 500 ha. |
|-------|-----------------|--|--|
| | 1 | Soil sampling for nutrient based recommendations | Conducting Gramasabha's and capacitaate through training to DoA (AEO's) and farmers on soil sample collection. (completed 12 villages) |
| | recommendations | 3. Conducting Gramsabhas on soil sample collection | |
| | | | Collection of soil samples, analysis and issue of soil health cards. covering all major crop areas in the village. |
| e I | Agriculture | | Identification of micronutrient deficient areas based on soil analysis data. |
| icult | | Micro nutrient | 2. Finalisation of micronutrient requirements mandal wise and village wise. |
| Agr | 2 | application | 3. Micro-nutrients Indent placement to Nodal agencies thru DoA |
| | | | 4. Distribution and application of of micronutrients (Zinc, Boron, Sulphur) |
| | | | Training/ awareness on reclamation of problematic soils |
| | | Identification of | 2. Placing of indents to the nodal agencies and supply of inputs |
| | 3 | problematic soils | 3. Supply of Green manure seed (Dhiancha, sunhemp, Pillipesara) |
| | | | 4. Supply ex situ Green manure seed on field bunds (Gliricidia) |

Proposed interventions in Ag sector

| | | Soil management | Assesment of green manure seed requirement |
|-------------|---|-------------------------|--|
| | 4 | for improvement of | 2.Placing of Indents to APSSDC and supply of seed |
| | , | organic content in soil | 3. Capcity building/training on importance of Green manure seed |
| | | | 4.Promotion of vermi compost units and Aerobic composting |
| | | | 1.Identification and selection of farmers for seed multiplication . |
| | | | 2. Ensuring position of quality seed in private outletsand placing indents. |
| | 5 | Quality seed | 3. Supply of Foundation / Certified seed through APSSDC. |
| Agriculture | | | 5. Promoting improved Paddy varieties for Direct seeded rice under dry conditions. |
| Agri | | | 6. Supply of Minikits of New varieties to the progressive farmers. |
| | | | Create awreness on selection of HYV / pest and disease resistant varities suitable to their agro climatic conditions. |
| | 6 | | 2.Organising Demo plots on improved crop production technologies through Chandranna Rythu Kshetrams (CRK) ,Polambadi & ATMA Demonstrations |
| | | | 3. Popularising Best Management practices in Rice, Vegetables |
| | | | 4. Organising training programs on crop specific Integrated nutrient/Pest/ Disease /weed / Water management & post harvest Techn thru ATMA, FTC's. |

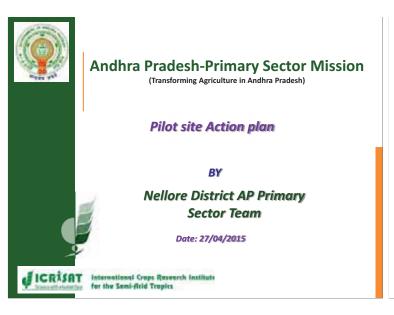
Proposed interventions in Ag sector

| | 7 | Soil and water conservation | Enhancing green water storage and use efficency | | | | |
|-------------|----|--|--|--|--|--|--|
| | 7 | practices | 3. WIC based irrigation scheduling and fertigation scheduling | | | | |
| e l | | | 1.Introducing pre or post harvest crop in the existing cropping system | | | | |
| Agriculture | 8 | Crop intensfication/diversifcation (Green gram, Pigeonpea, sunflower etc) | Introducing altrnative potential crop in the existing cropping system viz, Maize, Pigeonpea, sunflower | | | | |
| | 9 | Innovative extension system | Tablet based extension system, Video production (15 videos) and Farmer to farmer dissemination | | | | |
| | 10 | Reuse and recycling of waste water | Decentralise waster water treatment plant and reuse for agriculture | | | | |

Interventions

| SI. No | Crop | Interventions proposed | Expected increase in Yield (M.Ts) |
|--------|--------|---|-----------------------------------|
| 1. | Chilli | Micro Irrigation , Fertigation, Plastic Mulching, I.P.M & I.N.M., Post Harvest Management. | |
| 2. | Tomato | Trellis, Micro Irrigation, Fertigation, Plastic Mulching, I.P.M & I.N.M., Post Harvest Management. | |
| 3. | Gourds | Pendals, Micro Irrigation, Fertigation, Plastic Mulching, I.P.M & I.N.M., Post Harvest Management. | 30% |
| 4. | Mango | Rejuvenation, Canopy Mangement, Water harvesting structures, Micro Irrigation, Plastic Mulching, I.P.M & I.N.M., Post Harvest Management. | |







Nellore District

❖ Geographical area: 13.16 lakh ha

A Rainfall 1095 mm

| SI No | Total cropped area (kharif) | % in Cultivable Area – Kharif (1,05,850 ha) | Total cropped area-Rabi (2,53,698 ha) | % in Cultivable Area - Rabi |
|----------|--|---|---|-----------------------------------|
| 1 | Paddy | 30-40 | Paddy | 70-80 |
| 2 | Acid Lime | 10-15 | Acid Lime | 10-15 |
| 3 | Groundnut Mangoes Sugarcane Cane | 5-10 | Tobacco Total, Tobacco Verginia, Blackgram Bengalgram | 3-4 |
| 4 | Cotton | 4-5 | Greengram, Groundnut | 2-3 |
| 5 | Blackgram | 2-3 | Sunflower, Maize Seasmum(Gingelly) | 1-2 |
| 6 | Fishery | | Ranks I in India | |

Process Adopted for Sites Selection and Benchmark Characterization

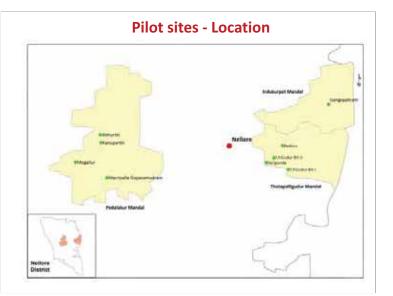
Criteria adopted

- > Representative site for the district
- Good potential for impact to bridge the gaps
- > Accessibility
- Willingness to adopt new
- > Presence of suitable institutions
- > Predisposition for change

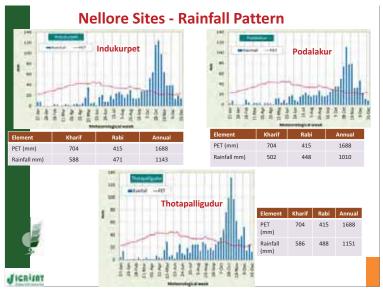
Process

- > Stakeholders' consultations
 - District collector
 - CPO
 - JD of all line departments
 - Farmers
- Consultation with all line Departments
 - Mandal level staff of all line departments





| | | | | Pilo | t Site | es D | etail | S | | |
|----------|-------------------------|--------------------|--------------------------------------|-------------|--------|------------------------------------|-------------|-------|------------|-----------|
| | | | | Geograhpi | | Village Identified with Area (Ha.) | | | | |
| SI No | Major type | Mandals covered | Village | cal Area in | | N | et Area Sov | vn | Horticultu | |
| NO | | covered | _ | Ha | Land | Kharif | Rabi | Total | re | Fisheries |
| 1 | Coastal (3000 Hec.) | Indukurpet | Lebur Bit-II (Jagadevipet a) | 1333 | 1052 | 856 | 196 | 1052 | 519 | 48 |
| | | | Gangapatna m | 2347 | 961 | 455 | 170 | 625 | 118 | 231 |
| | | T.P.Gudur | Peduru | 992 | 816 | 631 | 55 | 686 | 16 | 17 |
| | | | Varigonda | 1332 | 880 | 25 | 654 | 679 | 2 | 45 |
| 2 | Irrigated belt | | T.P.Gudur I | 879 | 510 | 11 | 437 | 448 | 0 | 2 |
| 1 | (4000 Hec.) | | T.P.Gudur II (Papireddy Palem) | 956 | 613 | 53 | 418 | 471 | 2 | 24 |
| | | | Aldurthi | 1461 | 1129 | 384 | 117 | 501 | 366 | 0 |
| | | | Kanuparthi | 1297 | 992 | 382 | 206 | 588 | 220 | 0 |
| 3 | Dry Land (3000 Hec.) | Podalakur | Mogaluru | 1145 | 593 | 258 | 219 | 477 | 244 | 0 |
| | (SSSS TICE.) | ec., | Marripalli (Gopasamud ram) | 405 | 308 | 82 | 44 | 126 | 87 | 0 |
| | ACT 407 505 10 | Total | | 12147 | 7854 | 3137 | 2516 | 5653 | 1574 | 367 |



Field visit and group discussion for constraints identification and Benchmark Characterization









Constraints

Agriculture

- •Soil deficient in primary and secondary & micro nutrients
- ·Soils are saline
- Mono-cropping of paddy
- •Labour shortage
- Lack of mechanisation
- •High fertilizer usage particularly urea and phosphate
- •Fluctuations in market prices
- Predominance of Kharif fallow

Horticulture

- Soil deficient in nutrients
- •In coconut, irregular bearing, low yield
- •Banana prone to diseases particularly panama disease
- •Banana susceptible to lodging due to more plant height
- Required tissue culture seedlings in Banana
- Very low area under vegetable cultivation
- •Lack of knowledge of improved management practices
- •Needs regular capacity building program



Fisheries:

- Lack of quality seeds
- Prevalence of diseases and pest in early stage of growth- Low survival rate
- •Unregulated sale of probiotics without assessing the actual need
- Huge knowledge gaps
- •Lack of mechanism for modernising the farming techniques
- •Lack of Capacity building to bridge yield gaps
- •Ignorance towards Rejunivation of fresh water fish culture and prong culture etc
- Lack of processing facility and value addition
 - ➤ Lack of godowns
- ➤ Lack of cold storage facilities
- Great fluctuations in market price (Rate should be in line with international/national rates)
- Predominance of middlemen

Livestock

- •Low milk yield
- Price fluctuations depending on supply
- Unavailability of quality fodder supply
- •Lack of concentrate mixture in cattle diet
- •Existing breed in buffalo is graded Murrahwhich is adaptive to local situation
- •Need to shared market margins with famers
- •Capacity building program needs to be strengthened
- Need to introduce high yielding breed in Sheep and goat
- •Need to focus on fodder improvement program particularly on waste land and fallow land
- Y himselfahmel

Strategy to increase the productivity

| Dept | SI No | Particulars | Components with details |
|----------------|-------|----------------------------------|---|
| | 1 | Soil Test based Fertiliser | 1. Allocation of Soil sample targets @ 20 No.s per 500 ha or per village 2. Training to MAO's & AEO's on the use of GPS during soil sample collection. 3. Conducting Gramsabhas on soil sample collection 4. Collection of soil samples covering all the farming situations in the village. 5. Analysis of soil samples & distribution of Soil health cards 6. creating awareness to the farmers on the use of Fertilisers based on |
| Agric ultur | | application (80 % area) | Soil health status. 7. Finalising the required Quantities of Micro nutrients |
| е | | | 8. Micro-nutrients Indent placement to Nodal agencies thru DoA |
| | | | 9. Distribution of defi. micronutrients (Zinc, Boron, Sulphur) |
| | | | 10. Monitoring for best management prectices |
| | | | 1. Identification of problematic soils |
| | | Problemati | Create awareness on reclamation of problematic soils |
| | | c soils (100 | 3. Placing of indents to the nodal agencies |
| | - | ha) | 4.supply of Gypsum / Lime |
| | | l lia) | 5. Supply Green manure seed (Dhiancha, sunhemp, Pillipesara) |
| | | | 6. Supply ex situ Green manure seed on field bunds (Gliricidia) |

Strategy to increase the productivity

| Dept | SI No | Particulars | Components with details |
|-------|-------|--------------|--|
| | | | 1. Assessment of green manure seed requirement |
| | | | 2.Placing of Indents to APSSDC |
| | | Improvement | 3. supply of Green manure seeds (200 ha) |
| | 3 | of organic | 4. Training on importance of Green manure seed |
| | | content in | 5.Promotion of vermi compost/beds units (200 nos) and Aerobic composting |
| | | soil by Soil | (1000 nos) |
| | | Health mgmt | 6.Propagation of N-rich Gliricidia and drumstick on field bunds (10000 |
| | | | seedlings) |
| | | | Identification Farmers for seed multiplication through SVP |
| | | | 2. Ensuring position of quality seed in private outlets. |
| Agric | | Promotion of | 3. Placing of indents to Nodal agencies. |
| ultur | 4 | Ouglity cood | 4. Supply of Foundation / Certified seed through APSSDC. |
| е | - | (1000 ha) | 5. Promoting improved Paddy varieties under submergence condition (MTU |
| | | ` ′ | 1061 (Indra) for coastal Indukurpet mandal; NLR 3041 and MTU1075 |
| | | | (Pushyami) for TP Gudur mandal |
| | | | 6. Supply of Mini-kits of New varieties to the progressive farmers. |
| | | | 1.Create awareness on selection of HYV / pest and disease resistant |
| | | | varieties suitable to their agro climatic conditions. |
| | | | 2.Organising Demo plots on improved crop production technologies through |
| | 5 | | Chandranna Rythu Kshetrams (CRK), Polambadi & ATMA Demonstrations |
| | | | 3. Popularising Best Management practices in Rice |
| | | Production | 4. Organising training programs on Integrated nutrient/Pest/ Disease /weed |

Strategy to increase the productivity

| Dept | SI No | Particulars | Components with details |
|-------|-------|---|---|
| | | | Enhancing green water storage and use efficency |
| | 7 | conservation | Identifying suitable places for ex-situ interventions to recharge groundwater aquifer as per water balance approach (based on upstream-downstream analysis) |
| | | | 3. WIC based irrigation scheduling and fertigation scheduling |
| Agric | | intensification/dive | 1.Introducing pre or post harvest crop in the existing cropping system |
| ultur | 8 | rsifcation (Green gram, Pigeonpea, sunflower etc) (500 ha) | Introducing alternative potential crop in the existing cropping system viz, Maize, Pigeonpea, sunflower |
| | 9 | (All villages) | Tablet based extension system, Video production (15 videos) and Farmer to farmer dissemination |
| | | Reuse and recycling of waste water (one unit) | Decentralise waster water treatment plant and reuse for agriculture |



Expected (%) increase in Agriculture growth

| | | 2014-15 | | | | 2015-16 | | |
|-------------|-----------|---------|----------------|-------|------|----------------|-------|--------------------------------|
| Sector | Crop | Area | Producti on | GVA | Area | Producti on | GVA | % increase over 2014- 15 |
| | Paddy | 6228 | 46731 | 65.42 | 6060 | 48455 | 67.84 | 3.69 |
| | Sugarcane | 42 | 3909 | 0.90 | 90 | 10800 | 2.48 | 176.27 |
| Agricultura | Greengram | 225 | 118 | 0.54 | 500 | 500 | 2.30 | 323.76 |
| Agriculture | Blackgram | 295 | 198 | 0.86 | 700 | 700 | 3.05 | 253.85 |
| | Maize | 10 | 35 | 0.05 | 300 | 2250 | 6.30 | 12757 |
| | Total | 6800 | 51035 | 67.84 | 7705 | 62670 | 81.92 | 20.94 |



Strategy to increase the productivity

| Freeze | 3 | | |
|------------------|---|-----------|---|
| | | | 1. New area to brought under cultivation with improved varieties (200 ha) |
| | | | 2. Rejuvenating the old and senile orchards (100 ha) |
| | 1 | | Application of balanced nutrition including deficient micro nutrients (500 ha) |
| | | Acid lime | 4. Water conservation measures i.e drip along with mulching (50 $\%$ of irrigated fields) |
| | | | 5. Plastic crates for transportation (1000 nos) |
| | | | 6. Pack houses (no.) |
| Horticu Iture | | Mango | New area to brought under cultivation with improved varieties |
| | 2 | | 2. Rejuvenating the old and senile orchards (50 ha) |
| | - | | 3. Application of balanced nutrition including deficient micro nutrients(100 ha) |
| | | | 4. Water conservation measures i.e drip along with mulching (50 $\%$ of irrigated fields) |
| | | | Capacity building for minimising post harvest losses during harvesting, transportation and storage |
| | | | 6. Plastic crates for transportation (200 nos.) |
| | | | 7. Pack houses (no.) |

Strategy to increase the productivity

| | 3 | | 1. Introduction of new tissue culture varieties (50 ha) |
|------------------|---|------------------------------------|---|
| | | Banana | 2. Balanced nutrient management (80 ha) |
| | | | 3. INM and IPM in banana for local and improved varieties (80 ha) |
| | | Chilli, Gourds, | 1. Introduction of new improved cultivars |
| Horticultu re | 4 | Tomato, Leafy vegetabl es | 2. Balanced nutrient management (200 ha) |
| | 5 | Nutritio n | Promoting nutri-kitchen Garden kit (200 nos) |
| | 6 | Capacity Building | Training on Grading and Packaging of Vegetables |
| | 7 | Capacity Building | Exposure visit within state |



Expected (%) increase in Horticulture growth

| | | 2014-15 | | | | 2015-16 | | |
|--------------|---------------------|--------------|---------------------|-----------------|--------------|---------------------|-------|--------------------------------|
| Sector | Crop | Area (ha) | Productio n (mt) | GVA (crores) | Area (ha) | Producti on (mt) | | % increase over 2014- 15 |
| | Acidlime | 871 | 13936 | 27.87 | 900 | 16280 | 32.56 | 16.82 |
| | Banana | 159 | 5088 | 15.00 | 200 | 8000 | 24.00 | 57.23 |
| | Mango | 86 | 774 | 1.16 | 100 | 1350 | 2.03 | 74.42 |
| | Chillies | 30 | 150 | 1.2 | 65 | 488 | 3.90 | 225.00 |
| Horticulture | Coconut | 127 | 1524000 | 1.52 | 155 | 2015000 | 2.02 | 32.22 |
| | Leafy Vegetables | 299 | 5980 | 5.98 | 410 | 10250 | 10.25 | 71.40 |
| | Sapota | 316 | 6150 | 0.17 | 427 | 10505 | 0.26 | 70.81 |
| | Total | 1888 | | 53.17 | 2257 | | 75.01 | 41.06 |
| Sericulture | | 40 | 6.9 | 0.15 | 60 | 32.04 | 0.70 | 364 |

Strategy to increase the productivity

| | 1 | Expansion of area | 1. Revival of Brackish water Aquaculture | | | | |
|-------------|---|---|--|--|--|--|--|
| | | | 2. Revival of Scampi culture | | | | |
| | | | 3. Production of Tilapia culture | | | | |
| | | | 4. Production of sea Bass culture | | | | |
| | | | 5. Production of mangrove crab farming | | | | |
| Fisheries | 2 | Mechanisation of Aquaculture | Providing solar pump sets, solar lights and aerators | | | | |
| | 3 | Promotion of deep sea fishing | 1. Supply of Boats and nets to marine fisherman | | | | |
| | | Halling | 2. Motorisation of traditional crafts | | | | |
| | 4 | Stocking of fish seed in tanks and reservoirs | fish seed in tanks under RKVY | | | | |
| | | | Sea weed culture promotion on expt.al basis | | | | |
| 116 1000 30 | 1 | | | | | | |



Strategy to increase the productivity

| | 10 | | Feed quality assessment and proper recommendation / Balance Nutrient cards for animal feed Participatory evaluation of Dual purpose cereal, grasses and legume |
|-------------|----------|---------------------------------------|--|
| | 11 | Feed and fodder | crops (100 ha) Promoting improved technology on storability of maize as fodder |
| Livestock | 12 | assessme nt and improve ment | after harvesting cobs (2 units) Food and economic security through financial assistance for integrated Giri Raja birds rearing |
| | 13 | | Capacity building on balanced feeding |
| | 14 15 | | Introduction of multipurpose thorn less cactus (Varieties Cactus 1270, Cactus 1271 and Cactus 1280) (500 pads) |
| Sericulture | 16 | | Expansion of Mulberry Gardens (20 units) |
| | | | Soil test based nutrient recommendations |
| | | | Sericulture intercropping with Flower/ medicinal |
| | | | Encouraging low cost Rearing sheds |
| | | | Providing Drip 100% to Mulberry gardens on saturation mode |
| | | | Establishment of Private Chawkie Rearing centers |
| | | | Evaluation of new races of Bivolitine Hybrid |
| | | | Capacity building on rearing and pest management |



Expected (%) increase in Fisheries and AHDS growth

| | | | 2014-15 | | | 2015-1 | .6 | % increase |
|--------------|--------------------------------|-------|----------------|-------|-------|----------------|--------|------------------|
| Sector | Crop | Area | Product ion | GVA | Area | Product ion | GVA | over 2014- 15 |
| | Jadevipeta (Fresh Water) | 20 | 1200 | 9.6 | 22 | 1540 | 12.32 | 28.33 |
| Fishery | Gangapatn am (Venami) | 165 | 990 | 29.7 | 181 | 2172 | 65.16 | 119.39 |
| | Mypadu (Venami) | 98 | 588 | 17.64 | 108 | 1296 | 38.88 | 120.41 |
| | Total | 283 | | 56.94 | 311 | | 116.36 | 104.4 |
| | Milk | 9577 | 7896 | 19.74 | 10056 | 8790 | 21.98 | 11.32 |
| AHDS | Meat | 47315 | 258.55 | 9.049 | 49818 | 290 | 10.15 | 12.15 |
| | Egg | 17272 | 6.715 | 0.002 | 18875 | 7.25 | 0.002 | 7.97 |
| (N. 6770-10) | Total | 74164 | 8161 | 28.79 | 78749 | 9087 | 32.13 | 11.60 |

Summary of expected contribution by pilot site to GVA thru different sub-sectors

| GVA (c | % increase over | |
|---------|---|--|
| 2014-15 | 2015-16 | 2014-15 |
| 67.77 | 81.97 | 20.94 |
| 28.79 | 32.13 | 11.60 |
| 56.94 | 116.36 | 104.36 |
| 53.17 | 75.01 | 41.06 |
| 0.15 | 0.70 | 364 |
| 206.83 | 306.17 | 48.03 |
| | 2014-15 67.77 28.79 56.94 53.17 0.15 | 2014-15 2015-16 67.77 81.97 28.79 32.13 56.94 116.36 53.17 75.01 0.15 0.70 |





FISHERIES

AT A GLANCE SPSR NELLORE DISTRICT

Length of Coastal line: 169 km

• No. of Coastal mandals: 9

• No. of Coastal fisherman Habitations: 118

Fishermen Population: 2,45,792

Active Fisherman: 67250

• Fishing Crafts: 7181

BUDGET ALLOTTED TO NELLORE DISTRICT FOR THE YEAR 2015-16

Schemes under NSP: 1111.02 Lakhs

•Schemes under RKVY: 79 Lakhs

●Schemes under NFDB: 1270.52 Lakhs

Short Seasonal: 386
Extent: 2204 Ha
Long Seasonal: 30
Extent: 757 Ha
Perennial: 2
Extent: 86 Ha

Tanks & Reservoirs:

Reservoirs: 7Extent: 14462 Ha

Brackish water: 1776 farmers

Extent: 2554 Ha

| | | | FRESH WATER | FISH PRODUCTION | | | |
|--------|------------------------|----------|--|--|----------|--|---|
| SI. No | Mandals (jurisdiction) | WSA (Ha) | Production (in tons) during the year 2014-15 | GVA (in Crores) during the year 2014- 15 | WSA (Ha) | Production (in tons) during the year 2015-16 | GVA (in Crore during the ye 2015-16 |
| 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 |
| 1 | Kavali | 3909 | 145 | 1.16 | 3909 | 174 | 1.392 |
| 2 | Bogolu | 2174 | 152 | 1.216 | 2174 | 182.4 | 1.4592 |
| 3 | Jaladanki | 3100 | 115 | 0.92 | 3100 | 138 | 1.104 |
| 4 | Kondapuram | 1240 | 31 | 0.248 | 1240 | 37.2 | 0.2976 |
| 5 | Kaligiri | 550 | 30 | 0.24 | 550 | 36 | 0.288 |
| 6 | Buchireddypalem | 1380 | 777 | 6.216 | 1380 | 932.4 | 7.4592 |
| 7 | Sangam | 7680 | 4745 | 37.96 | 7680 | 3200 | 25.6 |
| 8 | Anumasamudram | 35 | 29 | 0.232 | 35 | 34.8 | 0.2784 |
| | | | | | | | |

| 9 | Nellore | 2801 | 1550 | 12.4 | 2801 | 1860 | 1 | |
|----|---------------|------|------|--------|------|--------|----|-------|
| 10 | Muthukur | 1750 | 1602 | 12.816 | 1750 | 1922.4 | 15 | |
| 11 | Venkatachalam | 2539 | 2065 | 16.52 | 2539 | 2478 | 15 | |
| 12 | Kovur | 1060 | 1014 | 8.112 | 1060 | 1216.8 | 9. | |
| 13 | Kodavaluru | 768 | 600 | 4.8 | 768 | 720 | 5 | |
| 14 | Vidavaluru | 700 | 1200 | 9.6 | 700 | 1440 | 1 | |
| 15 | Allur | 1912 | 826 | 6.608 | 1912 | 991.2 | 7. | 9296 |
| 16 | Dagadarthi | 900 | 500 | 4 | 900 | 600 | | 4.8 |
| 17 | T.P. Gudur | 2300 | 2410 | 19.28 | 2300 | 2892 | 23 | 3.136 |
| 18 | Indukurpet | 2905 | 2889 | 23.112 | 2905 | 2400 | 1 | 19.2 |
| 19 | Udayagiri | 1245 | 1386 | 11.088 | 1245 | 1663.2 | 13 | .3056 |
| 20 | Varikuntapadu | 900 | 180 | 1.44 | 900 | 216 | 1 | .728 |
| | | | | | | | | |

| 21 | Duttaluru | 400 | 120 | 0.96 | 400 | 144 | | |
|----|----------------|-------|------|--------|-------|--------|---|---------|
| 22 | Sitarampuram | 804 | 210 | 1.68 | 804 | 252 | | |
| 23 | Vinjamuru | 300 | 90 | 0.72 | 300 | 108 | | |
| 24 | Gudur | 4500 | 800 | 6.4 | 4500 | 960 | | |
| 25 | Syadapuram | 800 | 695 | 5.56 | 800 | 834 | | 6.672 |
| 26 | Dakkili | 995 | 850 | 6.8 | 995 | 1020 | | 8.16 |
| 27 | Balayapalli | 1400 | 1100 | 8.8 | 1400 | 1320 | | 10.56 |
| 28 | Venkatagiri | 2000 | 1306 | 10.448 | 2000 | 1567.2 | 1 | 12.5376 |
| 29 | Ananthasagaram | 21415 | 5005 | 40.04 | 21415 | 5006 | | 40.048 |
| 30 | Kaluvoy | 1200 | 300 | 2.4 | 1200 | 360 | | 2.88 |
| 31 | Chejerla | 900 | 250 | 2 | 900 | 300 | | 2.4 |
| 32 | Marripadu | 760 | 350 | 2.8 | 760 | 420 | | 3.36 |
| | | | | | | | | |

| 33 | Atmakuru | 683 | 256 | 2.048 | 683 | 307.2 | 2.4576 | |
|----|------------|--------|-------|--------|--------|--------|----------------|--|
| 34 | Kota | 2300 | 999 | 7.992 | 2300 | 1198.8 | 9.5966 | |
| 35 | Vakadu | 2548 | 1100 | 8.8 | 2548 | 1320 | 10.56 | |
| 36 | Chillakur | 2149 | 1304 | 10.432 | 2149 | 1564.8 | 12.5184 | |
| 37 | Ozili | 1400 | 697 | 5.576 | 1400 | 836.4 | 6.6912 | |
| 38 | Chittamuru | 2500 | 920 | 7.36 | 2500 | 800 | 6.4 | |
| 39 | Naidupeta | 1334 | 760 | 6.08 | 1334 | 912 | 7.296 | |
| 40 | Sullurpet | 1113 | 420 | 3.36 | 1113 | 594 | 4.752 | |
| 41 | Tada | 680 | 228 | 1.824 | 680 | 273.6 | 2.1888 | |
| 42 | Pellakuru | 1237 | 447 | 3.576 | 1237 | 536.4 | 4.2912 | |
| 43 | D.V.satram | 1534 | 581 | 4.648 | 1534 | 697.2 | 5.57 76 | |
| 44 | Manubolu | 3222 | 326 | 2.608 | 3222 | 391.2 | 3.1296 | |
| 45 | Podalakuru | 687 | 369 | 2.952 | 687 | 442.8 | 3.5424 | |
| 46 | Rapur | 39603 | 4530 | 36.24 | 39603 | 6000 | 48 | |
| | | 136312 | 46259 | 370 | 136312 | 51300 | 410 | |

| | | | MARINE FISH | PRODUCTION | | | |
|-----------|---------------------------|------------------------|---|--------------------|------------------------|---|--------------------|
| SI. No | Mandals (jurisdiction) | Total No. of Crafts | Production (in tons) during the year 2014- 15 | GVA (in Crores) | Total No. of Crafts | Production (in tons) during the year 2015- 16 | GVA (in Crores) |
| 1 | 2 | 3 | 4 | | 3 | 4 | |
| 1 | Kavali | 1114 | 8500 | 68 | 1114 | 10200 | 81.6 |
| 2 | Bogole | 571 | 6000 | 48 | 571 | 7200 | 57.6 |
| 3 | Indukurpet | 487 | 7000 | 56 | 487 | 8400 | 67.2 |
| 4 | T.P.Gudur | 158 | 8000 | 64 | 158 | 9645 | 77.16 |
| 5 | Vidavalur | 702 | 5619 | 44.952 | 702 | 6714 | 53.712 |
| 6 | Allur | 276 | 4000 | 32 | 276 | 5211 | 41.688 |
| 7 | Muthukur | 572 | 9239 | 73.912 | 572 | 1100 | 8.8 |
| 8 | Kota | 255 | 9000 | 72 | 255 | 8000 | 64 |
| 9 | Vakadu | 358 | 6200 | 49.6 | 358 | 7440 | 59.52 |
| 10 | Chillakur | 1329 | 8000 | 64 | 1329 | 9600 | 76.8 |
| | | | 71558 | 572 | | 73510 | 588 |

| | | | Total Prawn Produ | uction | | | | |
|--------|------------------------|----------|--|---|------|--|-------|---|
| SI. No | Mandals (jurisdiction) | WSA (Ha) | Production (in tons) during the year 2014- 15 | GVA (in Crores) during the year 2014-15 | | Production (in tons) during the year 2015- 16 | durin | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| 1 | Kavali | 5509 | 1002 | 4.509 | 5509 | 1400 | 6.3 | |
| 2 | Bogolu | 4792 | 2300 | 10.35 | 4792 | 2760 | 12.42 | |
| 3 | Jaladanki | 3100 | 3200 | 14.4 | 3100 | 3840 | 17.28 | |
| 4 | Kondapuram | 1240 | 3400 | 15.3 | 1240 | 4080 | 18.36 | |
| 5 | Kaligiri | 550 | 69 | 0.3105 | 550 | 82.8 | 0.372 | 6 |
| 6 | Buchireddypalem | 1380 | 10 | 0.045 | 1380 | 12 | 0.054 | ī |
| 7 | Sangam | 7680 | 2300 | 10.35 | 7680 | 2760 | 12.42 | |
| 3 | Anumasamudram | 35 | 12500 | 56.25 | 35 | 15000 | 67.5 | |

| 9 | Nellore | 2801 | 0 | 2801 | | |
|----|---------------|------|------|---------|------|--------|
| | | | | 0 | 0 | |
| 10 | Muthukur | 1750 | 3299 | 1750 | | |
| | | | | 14.8455 | 4500 | 20.25 |
| 11 | Venkatachalam | 3023 | 2800 | 3023 | | |
| | | | | 12.6 | 3360 | 15.12 |
| 12 | Kovur | 1060 | 3100 | 1060 | | |
| | | | | 13.95 | 3720 | 16.74 |
| 13 | Kodavaluru | 768 | 3290 | 768 | | |
| | | | | 14.805 | 3948 | 17.766 |
| 14 | Vidavaluru | 1200 | 3400 | 1200 | | |
| | | | | 15.3 | 4080 | 18.36 |
| 15 | Allur | 2659 | 2200 | 2659 | | |
| | | | | 9.9 | 2640 | 11.88 |
| 16 | Dagadarthi | 900 | 2100 | 900 | | |
| | | | | 9.45 | 4500 | 20.25 |
| 17 | T.P. Gudur | 3200 | 1910 | 3200 | | |
| | | | | 8.595 | 4800 | 21.6 |
| 18 | Indukurpet | 3855 | 1600 | 3855 | | |
| 19 | Udayagiri | 1245 | 2200 | 7.2 | 2970 | 13.365 |
| 19 | Udayagiri | 1245 | 2200 | | | |
| 20 | Varikuntapadu | 900 | 1233 | 9.9 | 2640 | 11.88 |
| 20 | varikuntapadu | 900 | 1233 | 1 [*** | | |
| 21 | Duttaluru | 400 | 60 | 5.5485 | 2800 | 12.6 |
| 21 | Duttalufü | 100 | 60 | | | |
| 22 | Sitarampuram | 804 | 40 | 0.27 | 72 | 0.324 |
| ~~ | Sicarampuram | 004 | 100 | 0.18 | 48 | |
| | | | | 0.18 | 48 | 0.216 |

| 23 | Vinjamuru | 300 | 38 | | 300 | | |
|----|----------------|-------|------|---------|-------|--------|---------|
| | | | | 0.171 | | 45.6 | 0.2052 |
| 24 | Gudur | 4500 | 70 | | 4500 | | |
| | | | | 0.315 | | 84 | 0.378 |
| 25 | Syadapuram | 800 | 600 | | 800 | | |
| | | | | 2.7 | | 720 | 3.24 |
| 26 | Dakkili | 995 | 405 | | 995 | | |
| | | | | 1.8225 | | 486 | 2.187 |
| 27 | Balayapalli | 1400 | 405 | | 1400 | | |
| | | | | 1.8225 | | 486 | 2.187 |
| 28 | Venkatagiri | 2000 | 638 | | 2000 | | |
| | | | | 2.871 | | 1300 | 5.85 |
| 29 | Ananthasagaram | 21415 | 1227 | | 21415 | | |
| | | | | 5.5215 | | 2500 | 11.25 |
| 30 | Kaluvoy | 1200 | 3200 | | 1200 | | |
| | | | | 14.4 | | 3840 | 17.28 |
| 31 | Chejerla | 900 | 270 | | 900 | | |
| | | | | 1.215 | | 324 | 1.458 |
| 32 | Marripadu | 760 | 194 | | 760 | | |
| | | | | 0.873 | | 232.8 | 1.0476 |
| 33 | Atmakuru | 683 | 358 | | 683 | | |
| | | | | 1.611 | | 429.6 | 1.9332 |
| 34 | Kota | 4110 | 1103 | | 4110 | | |
| | | | | 4.9635 | | 2300 | 10.35 |
| 35 | Vakadu | 3978 | 3000 | | 3978 | | |
| | | | | 13.5 | | 3600 | 16.2 |
| 36 | Chillakur | 2149 | 3111 | | 2149 | | |
| | | | | 13,9995 | | 3733.2 | 16.7994 |

| 37 | Ozili | 1400 | 1200 | | 1400 | | |
|----|------------|--------|---------|----------|--------|--------|---------|
| | | | | 5.4 | | 1440 | 6.48 |
| 38 | Chittamuru | 2956 | 1933 | | 2956 | | |
| | | | | 8.6985 | | 2319.6 | 10.4382 |
| 39 | Naidupeta | 1334 | 1400 | | 1334 | | |
| | | | | 6.3 | | 1680 | 7.56 |
| 40 | Sullurpet | 1113 | 242 | | 1113 | | |
| | | | | 1.089 | | 580 | 2.61 |
| 41 | Tada | 680 | 274 | | 680 | | |
| | | | | 1.233 | | 329 | 1.4805 |
| 42 | Pellakuru | 1237 | 167 | | 1237 | | |
| | | | | 0.7515 | | 200.4 | 0.9018 |
| 43 | D.V.satram | 1534 | 305 | | 1534 | | |
| | | | | 1.3725 | | 366 | 1.647 |
| 44 | Manubolu | 3222 | 1780 | | 3222 | | |
| | | | | 8.01 | | 2136 | 9.612 |
| 45 | Podalakuru | 687 | 3400 | | 687 | | m l |
| | | | | 15.3 | | 4080 | 18.36 |
| 46 | Rapur | 39603 | 110 | | 39603 | | |
| | | | | 0.495 | | 132 | 0.594 |
| | | | | | | | |
| | | 147807 | 7 77443 | 348.4935 | 147807 | 103357 | 465 |
| | | | | | | | |

TO

DELEGATES OF PRIMARY SECTOR MISSION

HORTICULTURE DEPARTMENT – SPS NELLORE DISTRICT

| PR | RIMARY SE | CTOR MI | SSION-201 | 5-16 | |
|--|-----------------------------------|---------------------|-------------------------|--|---------------|
| | SPS Ne | llore ist | rict Profile | | |
| Major Horticulture crops Grown in the istrict | Area (Ha) up to (31.3.2015) | Production (MTs) | Productivity (MT/Ha) | Average Market (Price based on 2014-15) Rs/Ton | Value.(Rs. Ir |
| 1 | | 3 | | 5 | |
| I.LONG TERM CROPS | | | | | |
| 1. | 188 | 531 0 | 15 | 0000 | 50 3 .0 |
| . а о | 10330 | 0 | | 15000 | 13 5.5 |
| 3. a | | | 1 | 300000 | .0 |
| . t a | 3 3 | 3 8 | 13.5 | 15000 | 55 . |
| 5. a ota | 380 | 3800 | 10 | 10000 | 380.0 |
| . аа | 1 | 10 | 15 | 10000 | 1.0 |
| . o o t | 501 | 01 000 | 1 000 t | 1 0000 | 01. |
| 8. I al | 10 5 | 10 50 | 10 | 5 5 | 8 .1 |
| Sub-Total | 32768 | 6418910 | | | 73735.7 |

. .

| Major Horticulture crops Grown in the istrict | Area(Ha) up to (31.3.2015) | Production (MTs) | Productivity (MT/Ha) | Average Market (Price based on 2014-15) Rs/Ton | Value.(Rs. In |
|--|----------------------------------|---------------------|-------------------------|--|---------------|
| 1 | | 3 | | 5 | |
| II.SHORT TERM CROPS | | | | | |
| 1. aaa oal | 13 | 0 | 35 | 10000 | .00 |
| .Т ааа | 100 | 5000 | 50 | 0000 | 1000.00 |
| 3. ааа | 100 | 8000 | 80 | 5000 | 00.00 |
| . To ato | | 1 0 | 0 | 10000 | 1 .00 |
| 5. II | 1 8 | 30 | 5 | 0000 | 3858.00 |
| . II | | 555 | 8 | 10000 | 555. 0 |
| .T | 100 | 00 | | 80000 | 80.00 |
| 8. at lo | 50 | 000 | 0 | 5000 | 50.00 |
| . lo | 50 | 500 | 10 | 5000 | 5.00 |
| 10 o t t t | 3 | 5 0 | 0 | 10000 | 5 .00 |
| 11. lo o t t t | 350 | 1 00 | | 0000 | 5 0.00 |
| 1 . ola a a | 850 | 800 | 8 | 10000 | 80.00 |
| Sub-Total | 8101 | 145532 | | | 18233.20 |
| Grand Total | <u>40869</u> | <u>6564442</u> | | _ | 91968.9775 |

| ٩dc | ditional Area P | ropose | d during 2 | 015-16 to A | chieve oul | ole igit Gro | owth (i.e.3 | 0%)on the | existing ist.G |
|-----------|---------------------|-----------------------------|--------------------------------|--------------|--|--------------|--|--|--|
| | | • | S Nellore | | | | • | | |
| SI. No | Name of the Crop | Units No/ sqmt/ Ha | Additional Area Proposed | | Expected increase in Productivity by following Interventions (MTs/Ha) | | Total value(Rs. in Lakhs) (6*8) | Financial Budget requireme nt (Rs. in Lakhs) | Interventions proposed to increa Production/ Productivity |
| 1 | | 3 | | 5 | | | 8 | | 10 |
| LOI | NG TERM CROP | <u>S</u> | | | | | | | |
| 1 | а о | а | 00 | 1 55 | 3 | 15000 | 3 | 1555.1 | oa Iato aotoo IIt oatlo |
| | | а | 1 50 | 55000 | 5 | 0000 | 11000 | 5 5 | oa I ato t ta lato a o to o I I t o a tlo |
| | Sub-Total | | <u>1450</u> | <u>96955</u> | | 35000 | 17293 | 4130.1 | |

| SI. No | Name of the Crop | Uni ts No/ sq mt/ Ha | Additiona I Area Proposed (Ha) (2015-16) | increase in | | Mts) (based | Total value(Rs. in Lakhs) (6*8) | Financial Budget requirem ent (Rs. in Lakhs) | Production/Produ |
|-----------|------------------|-------------------------------------|--|-------------|-----|-------------|--|--|-------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| II.SI | HORT TERM CROPS | 5 | | | | | | | |
| 3 | т. ааа | а | 100 | 31 0 | 50 | 0000 | 88 | 1 .0 | o to o 100 I ato I I |
| | ааа | а | 300 | 30000 | 100 | 10000 | 3000 | 8 .8 | o to o 100 I ato I I |
| 5 | Ш | а | 000 | 30000 | .5 | 0000 | 1000 | 31 | oa aotoo II t |
| | 0 | а | 300 | 18000 | 0 | 15000 | 00 | 50 | oa at aalo a o |
| | Sub-Total | | <u>4700</u> | 109440 | | 115000 | 32988 | 1470.84 | |
| | Grand Total | | 6150 | 206395 | | 150000 | 50281 | 5600.94 | |

INTERVENTIONS TO INCREASE YIEL S OF MAJOR HORTICULTURE CROPS IN SPS NELLORE ISTRICT

| SI. No | Crop | Present Yield | Increased yield due to interventions | % of increase | Interventions |
|-----------|--------------|------------------|--------------------------------------|---------------|--|
| 1 | Acid Lime | 15 Ton/ Ha | 20 Ton | 33% | uality plant material rip Rejuvenation Mulching Micro Nutrient application IPM/INM techniques Minimi ation of Post harvest losses Conduct of awareness programmes Exposure visits to farmers |
| 2 | Mango | 9 Ton / Ha | 12 Ton | 30% | Rejuvenation rip Mulching IPM/INM techniques Mulching Minimi ation of Post harvest losses Conduct of awareness programmes Exposure visits to farmers |
| 3 | Banana (T.C) | 35 Ton / Ha | 50 Ton | 42% | T.C. Banana High ensity rip Mulching IPM/INM techniques Conduct of awareness programmes Exposure visits to farmers |
| 4 | Papaya | 80 Ton / Ha | 100 Ton | 25% | Viral resistant varieties IPM rip Fertigation Mulching Conduct of awareness programmes Exposure visits to farmers |
| 5 | Gourds | 35 Ton | 60 Ton / Ha | 70% | rip Irrigation Permanent pandals Conduct of awareness programmes Exposure visits to farmers |



Major Constraints and proposed interventions in Acid Lime in SPS Nellore district

| Area (Ha) | Constraints/Issues | Interventions |
|--------------|-----------------------------|--|
| 1 000 | o at o o lat at al o o o at | I a t o to o o I to a t at tI IIo . To o tt a a a a a to to t o a a to a II o . |
| | a at al a ota otato o t | o to o la t at at o la o a. o oto o a tto o at tot a . |



FISHERIES- VIZIANAGARAM DISTRICT ACTION PLAN 2015-16

| | FISHERIES- VIZIANAGAI | RAM: DIS | TRICT RESOUR | CES |
|-----------|---|----------|--------------|-------------------------|
| SI. No | Water Bodies | No. | Extent (H) | Expected Production (T) |
| | Freshwater: | | | |
| 1 | MI & GP Tanks | 6159 | 31969 | 12510 |
| 2 | Reservoirs | 8 | 3814 | 1644 |
| 3 | FW Aquaculture Ponds | 28 | 73 | 146 |
| | Brackish water : | | | |
| 4 | BW Aquaculture Ponds & Revival of Abandoned Ponds | 51 | 50 | 250 |
| | Marine Sector: 28 Km Coast Line | | | |
| 5 | Marine Fish | | | 16320 |
| 6 | Marine Shrimp | | | 1010 |
| | TOTAL | 6246 | 35906 | 31880 |

| | FISHERIES- VIZIANAGARAM: [| DISTRICT PE | RODUCTION | : 2014-15 8 | 2015-16 |
|----------|---|-------------|--------------------|-------------|-----------------|
| S. No | Water Resources | 201 | 4-15 | 2015 | i-16 |
| | Freshwater: | Prod. (T) | Value (Rs) Cr.) | Prod. (T) | Value (Rs) Cr.) |
| 1 | MI & GP Tanks | 9600 | 69.40 | 12510 | 128.02 |
| 2 | Reservoirs | 600 | 12.00 | 1644 | 41.10 |
| 3 | FW Aquaculture Ponds | 100 | 1.00 | 146 | 14.60 |
| | Brackish water : | | | | |
| 4 | BW Aquaculture Ponds & Revival of Abandoned Ponds | 138 | 3.036 | 250 | 6.12 |
| | Marine Sector: 28 Km Coast Line | | | | |
| 5 | Marine Fish | 15607 | 171.67 | 16320 | 179.52 |
| 6 | Marine Shrimp | 900 | 10.74 | 1010 | 12.12 |
| | TOTAL | 28155 | 291.50 | 31880 | 381.48 |

| | | | | | | | | | | | | | TOT | | | | | | |
|----|---------------|--------|------|-------|-------|-------|-------|-------|--------|---------|--------|-------|------|-------|---------|----------|-------|-------|-------|
| | | | | | | | TOTAL | | | | | | AL | | | | | | |
| | | | | | | | 2014- | | | | | | 2015 | | | | | | |
| | | 2014-1 | 5 | | | | 15 | 2015 | 16 PRC | DUCTION | (T) NC | | -16 | 2015- | 16 Valu | ie (Rs l | akhs) | | |
| | | | | | Mari | | | | | | Mari | | | | | | Mari | | |
| | | | Mari | | ne | BW | | Inlan | Mari | FW | ne | BW | | Inlan | Mari | FW | ne | BW | TOT |
| | | Inland | ne | Scamp | Shrim | Shrim | | d | ne | Scam | Shrim | Shrim | | d | ne | Scam | Shrim | Shrim | AL |
| | | Fish | Fish | i | р | р | | Fish | Fish | pi | р | р | | Fish | Fish | pi | р | р | value |
| 1 | 3 | | | | | | | | | | | | | | | | | | |
| 1 | Vizianagaram | 126 | 0 | 11 | 0 | 0 | 137 | 149 | 0 | 18 | 0 | 0 | 168 | 164 | 0 | 44 | 0 | 0 | 208 |
| | Gajapathinaga | | | | | | | | | | | | | | | | | | |
| 2 | ram | 181 | 0 | 17 | 0 | 0 | 198 | 215 | 0 | 28 | 0 | 0 | 243 | 236 | 0 | 68 | 0 | 0 | 304 |
| 3 | Gurla | 142.2 | 0 | 17 | 0 | 0 | 159.2 | 169 | 0 | 28 | 0 | 0 | 197 | 186 | 0 | 68 | 0 | 0 | 254 |
| 4 | Mentada | 206 | 0 | 24 | 0 | 0 | 230 | 244 | 0 | 40 | 0 | 0 | 284 | 269 | 0 | 96 | 0 | 0 | 365 |
| 5 | Dattirajeru | 201 | 0 | 18 | 0 | 0 | 219 | 238 | 0 | 30 | 0 | 0 | 268 | 262 | 0 | 72 | 0 | 0 | 334 |
| 6 | Cheepurupalli | 56 | 0 | 5 | 0 | 0 | 61 | 66 | 0 | 8 | 0 | 0 | 75 | 73 | 0 | 20 | 0 | 0 | 93 |
| 7 | Bondapalli | 282.8 | 0 | 25 | 0 | 0 | 307.8 | 335 | 0 | 41 | 0 | 0 | 377 | 369 | 0 | 100 | 0 | 0 | 469 |
| 8 | GARIVIDI | 160.4 | 0 | 14 | 0 | 0 | 174.4 | 190 | 0 | 23 | 0 | 0 | 213 | 209 | 0 | 56 | 0 | 0 | 265 |
| 9 | NELLIMARLA | 126 | 0 | 12 | 0 | 0 | 138 | 149 | 0 | 20 | 0 | 0 | 169 | 164 | 0 | 48 | 0 | 0 | 212 |
| | MERAKA | | | | | | | | | | | | | | | | | | |
| 10 | MUDIDAM | 41 | 0 | 4 | 0 | 0 | 45 | 49 | 0 | 7 | 0 | 0 | 55 | 54 | 0 | 16 | 0 | 0 | 70 |
| 11 | JAMI | 211 | 0 | 17 | 0 | 0 | 228 | 250 | 0 | 28 | 0 | 0 | 278 | 275 | 0 | 68 | 0 | 0 | 343 |
| 12 | L.KOTA | 728 | 0 | 59 | 0 | 0 | 787 | 864 | 0 | 98 | 0 | 0 | 961 | 950 | 0 | 236 | 0 | 0 | 1186 |
| 13 | GANTYADA | 563.4 | 0 | 47 | 0 | 0 | 610.4 | 668 | 0 | 78 | 0 | 0 | 746 | 735 | 0 | 188 | 0 | 0 | 923 |
| 14 | VEPADA | 467 | 0 | 39 | 0 | 0 | 506 | 554 | 0 | 64 | 0 | 0 | 618 | 609 | 0 | 156 | 0 | 0 | 765 |
| 15 | S.KOTA | 233 | 0 | 19 | 0 | 0 | 252 | 276 | 0 | 31 | 0 | 0 | 308 | 304 | 0 | 76 | 0 | 0 | 380 |
| 16 | KOTHAVALASA | 250 | 0 | 21 | 0 | 0 | 271 | 297 | 0 | 35 | 0 | 0 | 331 | 326 | 0 | 84 | 0 | 0 | 410 |
| 17 | DENKADA | 457 | 0 | 35 | 0 | 0 | 492 | 542 | 0 | 58 | 0 | 0 | 600 | 596 | 0 | 140 | 0 | 0 | 736 |

| | | | | | | | | | | | | | TOTA | | | | | | |
|----|----------------|---------|-------|--------|-------|-------|-------|--------|--------|--------|-------|-------|-------|--------|----------|---------|-------|-------|-------|
| | | | | | | | TOTAL | | | | | | L | | | | | | |
| | | | | | | | 2014- | | | | | | 2015- | | | | | | |
| | | 2014-15 | 5 | | | | 15 | 2015-1 | 6 PROD | UCTION | (T) | | 16 | 2015-1 | L6 Value | (Rs lal | chs) | | |
| | | | | | Marin | | | | | | Marin | | | | | | Marin | | |
| | | | Marin | | e | BW | | | Marin | FW | e | BW | | Inlan | Marin | FW | e | BW | TOTA |
| | | Inland | e | | Shrim | Shrim | | Inland | e | Scam | Shrim | Shrim | | d | e | Scam | Shrim | Shrim | L |
| | | Fish | Fish | Scampi | p | p | | Fish | Fish | pi | р | р | | Fish | Fish | pi | р | р | value |
| 18 | Bhogapuram | 234 | 5440 | 18 | 320 | 58 | 6070 | 278 | 5600 | 30 | 350 | 105 | 6362 | 305 | 6160 | 72 | 420 | 263 | 7220 |
| | | | | | | | | | | | | | 1200 | | | | | | 135 |
| 19 | Pusapatirega | 367 | 10167 | 28 | 580 | 80 | 11222 | 435 | 10720 | 46 | 660 | 145 | 7 | 479 | 11792 | 112 | 792 | 363 | |
| 20 | Salur | 775 | 0 | 213 | 0 | 0 | 988 | 919 | 0 | 352 | 0 | 0 | 1272 | 1011 | 0 | 852 | 0 | 0 | 186 |
| 21 | Pachipenta | 454 | 0 | 77 | 0 | 0 | 531 | 539 | 0 | 127 | 0 | 0 | 666 | 592 | 0 | 308 | 0 | 0 | 90 |
| 22 | Makkuva | 351 | 0 | 152 | 0 | 0 | 503 | 416 | 0 | 251 | 0 | 0 | 668 | 458 | 0 | 608 | 0 | 0 | 106 |
| | Ramabhadrapur | | | | | | | | | | | | | | | | | | |
| 23 | am | 317 | 0 | 60 | 0 | 0 | 377 | 376 | 0 | 99 | 0 | 0 | 475 | 414 | 0 | 240 | 0 | 0 | 654 |
| 24 | Pavarthipuram | 589 | 0 | 40 | 0 | 0 | 629 | 699 | 0 | 66 | 0 | 0 | 765 | 769 | 0 | 160 | 0 | 0 | 929 |
| 25 | Seetanagaram | 379 | 0 | 26 | 0 | 0 | 405 | 450 | 0 | 43 | 0 | 0 | 493 | 495 | 0 | 104 | 0 | 0 | 599 |
| 26 | Garugubilli | 371 | 0 | 25 | 0 | 0 | 396 | 440 | 0 | 41 | 0 | 0 | 481 | 484 | 0 | 100 | 0 | 0 | 58 |
| 27 | Komarada | 201 | 0 | 14 | 0 | 0 | 215 | 238 | 0 | 23 | 0 | 0 | 262 | 262 | 0 | 56 | 0 | 0 | 31 |
| 28 | Bobbili | 301 | 0 | 24 | 0 | 0 | 325 | 357 | 0 | 40 | 0 | 0 | 397 | 393 | 0 | 96 | 0 | 0 | 48 |
| 29 | Balijipeta | 386 | 0 | 30 | 0 | 0 | 416 | 458 | 0 | 50 | 0 | 0 | 508 | 504 | 0 | 120 | 0 | 0 | 62 |
| 30 | Badangi | 252 | 0 | 20 | 0 | 0 | 272 | 299 | 0 | 33 | 0 | 0 | 332 | 329 | 0 | 80 | 0 | 0 | 40 |
| 31 | Therlam | 331 | 0 | 27 | 0 | 0 | 358 | 393 | 0 | 45 | 0 | 0 | 437 | 432 | 0 | 108 | 0 | 0 | 540 |
| 32 | Kurapam | 142 | 0 | 18 | 0 | 0 | 160 | 168 | 0 | 30 | 0 | 0 | 198 | 185 | 0 | 72 | 0 | 0 | 25 |
| 33 | Jiyyammavalasa | 361 | 0 | 42 | 0 | 0 | 403 | 428 | 0 | 69 | 0 | 0 | 498 | 471 | 0 | 168 | 0 | 0 | 63 |
| | G.L.Puram | 126 | 0 | 12 | 0 | 0 | 138 | 149 | 0 | 20 | 0 | 0 | 169 | 164 | 0 | 48 | 0 | 0 | 21 |

FISHERIES- VIZIANAGARAM DISTRICT : MANDAL WISE PRODUCTION ACTION PLAN 2015-16

| | FISHERIES- VIZIANAGARAN | // DISTRICT :CONSTRAINTS/GAPS |
|-----------|---|---|
| SI. No | Water Bodies | CONSTRAINTS |
| Α | Freshwater: | |
| | MI & GP Tanks | Mostly Rain Fed tanks, Silted, Seasonal, Under stocking of Fish Seed, No supplement feed, Mostly under Fisheries Co-op fold. |
| | Reservoirs | -Do- |
| | FW Aquaculture Ponds | Private Entrepreneurs are now venturing the District. There is a scope for development . |
| В | Brackish water : | |
| | BW Aquaculture Ponds & Revival of Abandoned Ponds | Very Small stretch of BW Aqua Zone, Many ponds abandoned , |
| С | Marine Sector : 28 Km Coast Line | No Berthing Facilitates (Jetties), depended on Coastal Fishery only, No off shore fishing , No Cold Storage facility, Many Traditional Crafts (476) & Motorised Crafts (352) |

| | FISHERIES- VIZIAI | NAGARAM DISTRICT :INTERVENTIONS PROPOSED |
|----|-------------------------------|--|
| No | Water Bodies | INTERVENTIONS |
| Α | FW Fisheries 1.MI & GP Tanks | De-silting & Strengthening of all water bodies through MGNRGS/Irrigation Dept.; Rearing of Adv. Fingerlings; Establishment of Captive Nurseries; Stocking of all water bodies with 2000 Fls of IMCs & 1000-5000 Scampi; Supplementary feed; Bank Loans/Budget for Working Capital to FCSs; |
| | 2.Reservoirs | -Do-; Introduction of Cage Culture technology (GIFT/ Pangasius);Landing & marketing facilities |
| | 3.FW Aquaculture | Private Entrepreneurs are now venturing the District. There is a scope for development . Subsidy Schemes/bank Loans/Insurance |
| В | Brackish water: | Revival of abandoned ponds; Alternate species, Sea Bass, Mud Crab etc., |
| С | Marine Sector: | Berthing Facilitates (Jetties), off shore fishing through introduction of vessels;Tuna Long Lining; , Cold Storage facility, Motorisation of Traditional Crafts with subsidy on OBMs & ST Exemption for all Motorised Crafts; Establishment of FADs/Artificial Reefs; Value Addition(Dry Fish Platforms/);Sea Weed Culture; Cage Culture; Sea ranching. |
| | | |



Reared Fingerling size fish



Stocking of Fry Size Fish

Fish Harvest

















Marine Fishing Boat under RKVY



Fish Marketing





View of Peddagadda Reservoir



Inspection of Freshwater Aquaculture Pond

11

Cage Culture Technology- Interstate Exposure Visit to Chattisgarh –ATMA,VZM



















Fish/Prawn Value Addition



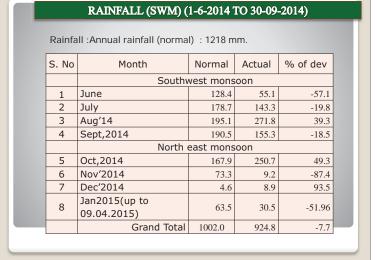


Thank you, all





| S No | Category | Area in Ha |
|------|-------------------------|------------|
| 1 | Total Geographical Area | 653900 |
| 2 | Gross Cropped Area | 373235 |
| 3 | Net Cropped Area | 273928 |
| 4 | Gross Irrigated Area | 153998 |
| 5 | Net irrigated Area | 121030 |
| 6 | Number of Farm Holdings | |
| | i) Marginal | 324099 |
| | ii) Small | 68272 |
| | iii) Others | 36868 |
| 7 | Total area operated by | |
| | i) Marginal | 151091 |
| | ii) Small | 117627 |
| | iii) Others | 160678 |
| 8 | Average Annual Rainfall | 1130.7 |
| 9 | Cropping Intensity | 73.39 |
| 10 | Irrigation Intensity | 78.59 |



Double Digit Growth

Action Plan for the year 2015-16

| | CROP- | WISE IDENTIFI | ED GROWTH ENG | SINES IN VI | ZIANAGAR | AM DISTRICT | | | |
|----------|-----------|---------------|---------------|-------------|----------|---------------------|--------|--------|---------------|
| | | | 2014-15 | | | 2015-16 | | | |
| SI No | Crop | Area (ha) | | | | Production (MTS) | | | % increase |
| 1 | PADDY | 124568 | 473358 | 739 | 133019 | 518774 | 863.92 | 124.92 | 16. |
| 2 | Sugarcane | 17820 | 1176120 | 298 | 19820 | 1327940 | 361.65 | 63.65 | 21. |
| 3 | Maize | 30302 | 141813 | 214 | 31315 | 147963 | 233.47 | 19.47 | 9. |
| 4 | Cotton | 15256 | 5614 | 21 | 16323 | 6741 | 25.28 | 4.28 | 20. |
| 5 | Blackgram | 18201 | 10684 | 57 | 18500 | 15004 | 82.28 | 25.28 | 44. |
| 6 | Greengram | 14750 | 7183 | 36 | 15600 | 10218 | 52.88 | 16.88 | 46. |
| 7 | Groundnut | 8206 | 17413 | 80 | 8600 | 18705 | 88.43 | 8.43 | 10. |
| 8 | Redgram | 1040 | 807 | 4 | 1240 | 992 | 5.16 | 1.16 | 29.0 |
| 9 | Sesamum | 22516 | 6034 | 33 | 23500 | 8061 | 43.92 | 10.92 | 33. |
| 10 | Mesta | 4078 | 6929 | 19 | 4200 | 7350 | 20.91 | 1 | 5.3 |
| 11 | Tobacco | 535 | 321 | 3 | 546 | 341 | 2.80 | 0.71 | 23. |
| | TOTAL | 257272 | 1846277 | 1502 | 272663 | 2062089 | 1781 | 279 | 18.0 |

Statement showing the crop wise projection of area and productivity during 2015-16 Paddy Sugarcane Maize Cotton Blackgram Greengram Groundnut Redgram Sesamam Mesta Tobacco

| | | | pro | ojectio | on au | ring 2 | 1019- | 10 | | | |
|----------|----------------------------|---------------|-------------------|------------|-------------------|------------|----------------------|------------|-----------------------|------------|-------------------|
| | Name of the | Pa | addy | Ma | ize | Green | gram | Black | gram | Red | gram |
| SI. No. | Mandal | Area in Ha | Production in MTS | Area in Ha | Production in MTS | Area in Ha | Production in MTS | Area in Ha | Productio n in MTS | Area in Ha | Production in MTS |
| 1 | Komarada | 3830 | 14939 | 561 | 2651 | 421 | 276 | 377 | 306 | 30 | 2 |
| 2 | G.L.Puram | 2344 | 9144 | 51 | 240 | 44 | 29 | 60 | 49 | 380 | 30 |
| 3 | Kurupam | 3969 | 15478 | 94 | 442 | 57 | 37 | 122 | 99 | 215 | 17 |
| 4 | Jiyyammavalasa | 6987 | 27251 | 32 | 149 | 124 | 81 | 139 | 113 | 105 | 8 |
| 5 | Garugubilli | 6333 | 24698 | 4 | 19 | 294 | 193 | 1283 | 1040 | 7 | |
| 6 | Parvathipuram | 6363 | 24816 | 1039 | 4908 | 402 | 263 | 1443 | 1171 | 19 | 1 |
| 7 | Makkuva | 4491 | 17515 | 1281 | 6051 | 408 | 267 | 421 | 341 | 14 | 1 |
| 8 | Seethanagaram | 6194 | 24159 | 54 | 255 | 627 | 411 | 558 | 453 | 18 | 1 |
| 9 | Balifipeta | 6626 | 25840 | 131 | 619 | 1638 | 1073 | 908 | 736 | 0 | |
| 10 | Bobbili | 6943 | 27079 | 67 | 317 | 421 | 276 | 489 | 396 | 14 | 1 |
| 11 | Saluru | 2654 | 10351 | 2963 | 13998 | 163 | 107 | 202 | 164 | 130 | 10 |
| 12 | Pachipenta | 2207 | 8608 | 2818 | 13316 | 74 | 48 | 133 | 108 | 74 | 5 |
| 13 | Ramabhadrapuram | 2228 | 8689 | 933 | 4408 | 115 | 76 | 257 | 209 | 78 | 6 |
| 14 | Badangi | 2277 | 8880 | 24 | 115 | 203 | 133 | 236 | 191 | 0 | |
| 15 | Therlam | 3973 | 15497 | 434 | 2051 | 406 | 266 | 285 | 231 | 0 | |
| 16 | Merakamudidam | 2778 | 10833 | 1234 | 5830 | 555 | 364 | 747 | 606 | 41 | 3 |
| 17 | Dattirajeru | 3925 | 15309 | 794 | 3750 | 575 | 377 | 749 | 608 | 45 | 3 |
| 18 | Mentada | 4122 | 16078 | 448 | 2118 | 517 | 339 | 439 | 356 | 0 | |
| 19 | Gajapathinagaram | 3787 | 14770 | | 2175 | 412 | 270 | 429 | | 38 | 3 |
| 20 | Garividi | 1676 | 6537 | 4223 | 19953 | 477 | 312 | 538 | 436 | 0 | |
| 21 | Cheepurupalli | 3648 | 14226 | 3222 | 15223 | 383 | 251 | 239 | 194 | 4 | |
| 22 | Gurla | 5870 | 22893 | 2661 | 12572 | 281 | 184 | 317 | 257 | 0 | |
| 23 | Bondapalli | 3096 | 12075 | | 303 | 575 | 377 | 648 | | | |
| 24 | Gantyada | 5578 | 21754 | | 134 | 1105 | 724 | 2246 | | | |
| 25 | S.Kota | 4117 | 16055 | | 187 | 1285 | 842 | 1221 | | 7 | |
| 26 | Vepada | 3470 | 13532 | | 0 | 772 618 | 506 405 | 793 673 | | 0 | |
| 27 | L.Kota | 4370 | 17045 | | 0 | | | | | | |
| 28 29 | Kothavalasa Jami | 1268 4532 | 4946 17675 | | 29 1133 | 99 715 | 65 468 | 211 854 | | 0 | |
| | | | | | | | | | | | |
| 30 | Vizianagaram | 1677 | 6540 | | 187 | 309 | 202 | 337 | | | |
| 31 | Nellimarla Pusapatirega | 3662 4136 | 14281 16131 | | 9436 16548 | 217 190 | 142 | 294 177 | | 0 | |
| 32 | Pusapatirega Denkada | 4136 2636 | 10279 | | 16548 5801 | 751 | 125 492 | 295 | 239 | 0 | |
| 33 | Bhogapuram | 2636 1249 | 10279 | | 3045 | 751 364 | 492 238 | 380 | | 14 | 1 |
| 34 | DIST. TOTAL | 133019 | 518774 | | 147963 | 15600 | 10218 | 18500 | | 1240 | 99 |
| | DIST. TOTAL | 133019 | 518774 | 31315 | 14/963 | 15600 | 10218 | 18500 | 15004 | 1240 | 99 |

| | | | - | | A CONTRACTOR OF THE PARTY OF TH | | ng 2 | | | | | | |
|------------|--------------------------|---------------|-----------------------|---------------|--|---------------|--------------------------|---------------|-----------------------|---------------|--------------------------|-----|-------------------|
| | | Suga | r cane | Co | tton | Me | sta | Groui | nd nut | Sesa | mum | To | bacco |
| SI. No. | Name of the Mandal | Area in Ha | Productio n in MTS | Area in Ha | Productio n in MTS | Area in Ha | Producti on in MTS | Area in Ha | Productio n in MTS | Area in Ha | Producti on in MTS | | Production in MTS |
| 1 | Komarada | 157 | 10503 | 1344 | 555 | 8 | | 27 | 59 | 498 | 171 | 0 | |
| 2 | G.L.Puram | 7 | 445 | 513 | 212 | 0 | 0 | 32 | 71 | 45 | 15 | 0 | |
| 3 | Kurupam | 57 | 3827 | 465 | 192 | 1 | 2 | 9 | 21 | 87 | 30 | 0 | |
| 4 | Jiyyammavalasa | 308 | 20650 | 402 | 166 | 10 | | 45 | 98 | 3112 | 1068 | 0 | |
| 5 | Garugubilli | 100 271 | 6676 18158 | 21 | 1 9 | 286 84 | 501 148 | 15 | 32 87 | 2329 1054 | 799 362 | 0 | |
| 7 | Parvathipuram Makkuya | 983 | 18158 65867 | 225 | 93 | 125 | | 63 | 137 | 1054 475 | 362 163 | 0 | |
| - | Seethanagaram | 2185 | 146421 | 177 | 73 | 525 | | 77 | 166 | 290 | 99 | 0 | |
| 8 | Balifipeta | 318 | 21273 | 562 | 73 | 1059 | | 449 | 976 | 722 | 247 | 0 | |
| | Robbili | 2205 | 147757 | 374 | 155 | 639 | | 43 | 93 | 387 | 133 | 0 | |
| | Saluru | 712 | 47709 | 3636 | 1502 | 4 | 7 | 8 | 18 | 74 | 25 | 67 | 4 |
| | Pachipenta | 465 | 31153 | 2209 | 912 | 0 | | 151 | 328 | 20 | 7 | 424 | 26 |
| 13 | Ramabhadrapuram | 1222 | 81889 | 2437 | 1007 | 252 | 442 | 231 | 501 | 100 | 34 | 5 | |
| 14 | Badangi | 4152 | 278156 | 348 | 144 | 335 | 586 | 306 | 666 | 440 | 151 | 0 | |
| | Therlam | 717 | 48065 | 1907 | 787 | 335 | 586 | 1798 | 3912 | 221 | 76 | 0 | |
| 16 | Merakamudidam | 282 | 18870 | 186 | 77 | 2 | 4 | 1471 | 3200 | 1120 | 384 | 20 | 1 |
| | Dattirajeru | 258 | 17268 | 614 | 254 | 150 | | 425 | 925 | 1314 | 451 | 17 | 1 |
| | Mentada | 243 | 16289 | 106 | 44 | 0 | | 0 | 0 | 113 | 39 | 0 | |
| | Gajapathinagaram | 232 | 15577 | 67 | 28 | 277 | 485 | 54 | 119 | 372 | 127 | 0 | |
| | Garividi | 206 | 13797 | 16 | 7 | 0 | 0 | 225 | 490 | 567 | 194 | 3 | |
| | Cheepurupalli | 522 | 34981 | 523 | 216 | 5 | | 607 | 1320 | 543 | 186 | 0 | |
| | Gurla | 16 | 1068 | 6 | 3 | 0 | | 475 | 1033 | 1824 | 626 | 0 | |
| 23 | Bondapalli Gantvada | 142 128 | 9524 8545 | 4 | 2 | 92 | | 13 | 27 0 | 140 120 | 48 41 | 0 | |
| | S.Kota | 1253 | 83936 | 0 | 0 | 0 | 0 | 3 | 7 | 508 | 174 | 0 | |
| | Vepada | 304 | 20383 | 0 | 0 | 0 | | 56 | 121 | 483 | 166 | 0 | |
| | L.Kota | 147 | 9880 | 0 | 0 | 0 | | 89 | 194 | 529 | 181 | 0 | |
| 28 | Kothavalasa | 0 | 0 | 0 | 0 | 0 | | 7 | 16 | 778 | 267 | 0 | |
| 29 | Jami | 2059 | 137965 | 0 | 0 | 0 | 0 | 0 | 0 | 1046 | 359 | 0 | |
| 30 | Vizianagaram | 65 | 4361 | 0 | 0 | 10 | 18 | 14 | 30 | 250 | 86 | 0 | |
| 31 | Nellimarla | 45 | 3026 | 89 | 37 | 0 | 0 | 85 | 185 | 655 | 225 | 0 | |
| 32 | Pusapatirega | 52 | 3471 | 0 | 0 | 0 | 0 | 497 | 1080 | 2152 | 738 | 9 | |
| | Denkada | 7 | 445 | 41 | 17 | 0 | 0 | 200 | 435 | 746 | 256 | 0 | |
| 34 | Bhogapuram | 0 | 0 | 48 | 20 | 0 | 0 | 1085 | 2359 | 386 | 132 | 0 | - |
| | DIST. TOTAL | 19820 | 1327940 | 16323 | 6741 | 4200 | 7350 | 8600 | 18705 | *** | 8061 | 546 | 34 |

| S. No. | Name of the Crop/Seas | Interventions Proposed | Prop | ea osed Ha | Departmen tal schemes | | |
|-----------|-----------------------------|---|--------------|---|--|--|--|
| | on 2015-16 | | Area sown | Area propose d | to be converged | | |
| 1 | PADDY | Supply of high yield variety seeds Seed treatment Direct sowing Direct sowing with Drum Seeder Machine transplanting Weedcide application Micro nutrient application Application of Urea mixed with Neem Oil Red gram on Rice bunds Application of Liquid Biofertilizers Training programmes to be conducted in all | 133019 | 30000 10000 8800 5000 500 1000 10000 2000 600 1000 | NFSM, SVP,CRK'S , MINIKITS POLAMBADI, ATMA,FTC, | | |

| S.N o. | Name of the Crop/Seaso n | Interventions Proposed | Area Propo in Ha | | Departmen al schemes to be | |
|-----------|--------------------------|---|------------------------|----------------------|----------------------------------|--|
| | 2015-16 | | Area sown | Area propos ed | converged | |
| 2 | MAIZE | 1.Direct sowing with Seed cum Ferti. Drill 2. Weedcide application 3. Micro nutrient application 4. Training programmes on INM / IPM measures | 31315 | 2000 2000 1000 | CRK'S,ATMA, RADP | |

| S.N o. | Name of the Crop/Season KHARIF 2015-16 | | | | Departmental schemes to be | |
|-----------|---|--|--------------|--------------------------------|----------------------------|--|
| | | | Area sown | Area propos ed | converged | |
| 3 | GROUND NUT | Supply of high yield variety seeds Use of SSP Micro nutrient application Sowing with Seed Drill Seed treatment with Dithane M – 45, T.Viridi & Thiram Training programmes on INM / IPM measures | 8600 | 2000 200 500 50 50 | NMOOP OIL SEEDS,SVP | |

| S.N o. | Name of the Crop/Season 2015-16 | Interventions Proposed | Area Proposed in Ha | | Department al schemes to be converged | |
|-----------|---------------------------------------|---|---------------------------|-------------------------------|--|--|
| | | | Area sown | Area propos ed | | |
| 4 | GREEN GRAM | Supply of high yield variety seeds Seed treatment Weedcide application Micro nutrient application ICM practices Training programmes on INM / IPM measures | 15600 | 1000 50 50 100 50 | SVP ,NFSM, FTC | |

| S.N o. | Name of the Crop/Season 2015-16 | Interventions Proposed | Area Prope in Ha | osed | Department al schemes to be converged |
|-----------|---------------------------------------|--|------------------------|-------------------------------|--|
| | | | Area sown | Area propos ed | |
| 5 | BLACK GRAM | Supply of high yield variety seeds Seed treatment Weedcide application Micro nutrient application ICM practices Training programmes on INM / IPM measures | 18500 | 1000 50 50 100 50 | SVP ,NFSM, FTC |

| S.N o. | Name of the Crop/Season KHARIF 2015-16 | Interventions Proposed | Area Prope in Ha | | Departmen al schemes to be converged |
|-----------|---|--|------------------------|----------------------|---|
| | | | Area sown | Area propos ed | |
| 6 | COTTON | Micro nutrient application or Magnesium spray Sowing of Green manure (Pilli pesara) prior to line sowing of cotton Training programmes on INM / IPM for capacity enhancement | 16323 | 50 | ATMA DEMO'S NFSM ATMA |

| S.N o. | Name of the Crop/Season KHARIF | Interventions Proposed | Area Prop in Ha | osed | Department al schemes to be |
|-----------|--------------------------------------|---|-----------------------|----------------------|-----------------------------------|
| | 2015-16 | | Area sown | Area propos ed | converged |
| 7 | REDGRAM | Use of High yielding varieties Maintainance of optimum plant population Adoption of IPM practices Training Programmes on IPM practices | 1 0 | 00 50 00 | NFSM-Pulses ATMA AND FTC |

| S.N o. | Name of the Crop/Season KHARIF | Interventions Proposed | | osed | Department al schemes to be |
|-----------|--------------------------------------|---|--------------|--|-----------------------------|
| | 2015-16 | | Area sown | Area propos ed | converged |
| 8 | SUGARCANE | Usage of high yielding varieties Paired row method of planting with pulses inter-cropping Weedicide application Trash Mulching Set treatment with Malathian, Hexa conazole or propioconazole Micro nutrient application Release of Trico-cards to control shoot borer Training programmes on INM / IPM measures | 19820 | 400 400 1000 200 100 200 200 | SUGAR FACTORY |







INTERVENTIONS PROPOSE IN ANIMAL HUSBAN RY SECTOR FOR INCREASE OF GS P URING 2015-16 IN VI IANAGARAM ISTRICT

(Estimated yearly growth @ 12.53% of Milk, 12.81% of Meat & 10.89 % of Egg production.)

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> Existing genetic potential of milch animals can be tapped by reducing inter calving with Suphalam , Ksheerasagara, Sunandini Progremmes, promoting fodder development on large scale and supply of concentrate feed to elite animals apart from animal health care activities and capacity building of farmers by investing Rs 50.15 Cr .

The value of Milk out put can be increased by Rs 219.8 cr during 2015-16 in addition to the present status.

MEAT PRODUCTION: T t t a o t la oat o lato a t a o o t a o a ala It o a a a a a a o la o ta a.

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by investing Defi la 8 by investing Rs 19.24 Cr. а

- Establishing 680 Mini Sheep and Goat Units in the district.
- By distribution of 340 Breeding Ram to avoid inbreeding and to promote
- Periodical deworming and vaccination to poultry, Sheep and Goat in a campaign mode to attain early body weights and also decrease the mortality apart from Health camps
- Establishment of New Commercial poultry units [143 broiler (1000cap) and 12 (10000 cap) Layer Units] and 3400 Rural Backyard poultry units to Rural Self help group women to increase the meat production.
- Capacity building to shepherds on better management to increase the meat production effectively.

The value of Meat production will be increased by Rs 38.63Cr during 2015-16 in addition to present status.

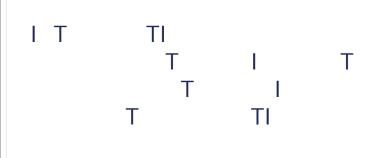
The value of Egg production will be increased by

VIZIANAGARAM DISTRICT - LIVE STOCK SECTOR (MILK, MEAT & EGG)

Planned to generate an income of Rs. 1626.57 Crores from Milk, Meat and Egg production during 2015-16 with an average annual production growth rate of 12.53% in Milk and of 12.8%in Meat and 10.91% in Eggs

| Proposed Activity | Status as on 13-14 | GVA for 13-14 Rs in cr | Present status as on 14-15 | GVA for 14-15 Rs in Cr | Interventions | Amount required in Cr for 2015-16 | Output by 2015-16 | GVA for 15-16 Rs in Cr |
|--------------------------------------|----------------------------|------------------------------|-------------------------------------|------------------------------|--|--|--|------------------------------|
| Enhancement of Milk Production | 4.14 LMT of Milk | 856 | 4.39 LMT of milk | 965.80 | Suphalam , Ksheerasagara Sunandini Progremmes Fodder development on Large scale and supply of concentrated feed apart from animal health activities and capacity building of farmers | 50.15 | Production of 4.94 LMT of milk | 1185.60 |
| Enhancement of Meat Production | 18277. 58 MT of Meat | 230 | 20103 MT of meat | 301.55 | Establishment of New Sheep and Goat units, new poultry units, Rural Backyard poultry units under NLM, Periodical deworming and vaccination to poultry, Sheep and Goat, | 19.24 | Production of 22678 Mt of Meat | 340.17 |
| Enhancement of EGG Production | 2865 lakhs Eggs | 66 | 3030 lakh eggs | 83.32 | Establishment of new commercial layer and grower farms & Rural Backyard poultry units under NLM | 8.91 | Production of 3360.9 lakhs No of eggs | 100.80 |
| TOTAL | | 1250 | | 1350.67 | | 69.39 | | 1626.57 |

Total GVA 2014-15 : 1350.67 Cr. Total GVA 2015-16 : Increase GVA 275.90 Cr.



EGG PRODUCTION:

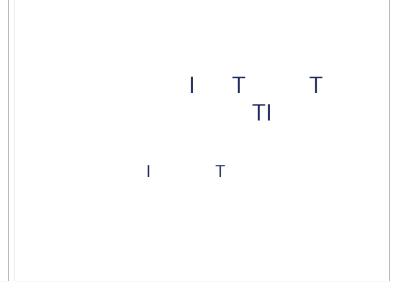
- > Proposed to increase egg production to 3360.9 lakh No by 2015-16 from the present production by Encouraging establishment of 12 new commercial layer(10000cap) under EDEG component of National Livestock Mission.
- > Supply of 3400 backyard poultry units to SHG women and Rural poor under various Schemes & regular periodical vaccination and Deworming.

Rs 17.48 Cr additionally with an investment of Rs 8.91 Cr which is already included in funds requirement for meat production

| | | | M | ilk Prod | duction | 1 | | | |
|-------|--|-------------------------------------|--------------|----------|--------------|----------------------|---|---------|----------------------------|
| SI.No | Name of the Proposed Activity | No.of Units Proposed per year | Unit Cost | Subsidy | Bank Ioan | Beneficiary share | Total Amount required Rs in Crores per year | | Funds proposed under |
| 1 | Suphalam | 46000 | 1000 | 1000 | 0 | 0 | 4.6000 | 4.6000 | Dist funds |
| 2 | Ksheerasagar | 11500 | 9000 | 5260 | 0 | 3740 | 10.3500 | 6.0490 | Dept funds |
| 3 | Sunandini | 8900 | 15000 | 11500 | 0 | 3500 | 13.3500 | 10.2350 | Dept funds |
| | Feed supply to 50% of the suphalam animals | 23000 | 5220 | 3915 | 0 | 1305 | 12.0060 | 9.0045 | Dist funds |
| 5 | Feed supply to 5% of the breedable population (Elite Pop) | 11500 | 5220 | 3915 | 0 | 1305 | 6.0030 | 4.5023 | Dist funds |
| 6 | Perennial Fodder Production | 340 ac | 28420 | 28420 | 0 | 0 | 09663 | 0.9663 | MGNREGS |
| 7 | Seasonal Fodder dev | 3400 ac | 1074 | 1074 | 0 | 0 | 0.3652 | 0.3652 | Dept funds |
| | Health care activities i.e FMD, Calf deworming | | | | 0 | 0 | 1.8400 | 1.8400 | Dept funds |
| 9 | Capacity building of farmers | 27000 | 250 | 250 | 0 | 0 | 0.6750 | 0.6750 | Dist funds |
| | Grand Total | | | | | | 50.1554 | 38.2372 | |

| | Meat Production: | | | | | | | | | | | | | |
|-------|---|--|--------------|---------|-----------|-----------------------|--|--|---------------------------|--|--|--|--|--|
| Sl.No | Name of the Proposed Activity | No.of Units Proposed per year | Unit Cost | Subsidy | Bank loan | Beneficiar y share | Total Amount required Rs in lakhs per year | Amount required Rs in Crs for subsidy | Funds proposed from | | | | | |
| | Establishment of Sheep and goat units (10+1) | 680 | 60000 | 15000 | 39000 | 6000 | 4.0800 | | Dept funds (NLM) | | | | | |
| 2 | Supply of breeding rams | 340 | 10000 | 5000 | | 5000 | 0.3400 | 0.1700 | Dist funds | | | | | |
| 3 | Health care activities i.e Sheep and Goat deworming, Health camps | | | | 0 | 0 | 1.0000 | 1.0000 | Dept funds | | | | | |
| 4 | Sheep insurance | 59000 | 288 | 192 | | 96 | 1.6992 | 1.1328 | Dept funds | | | | | |
| | Establishment of Rural Backyard poultry units (@45chicks) | 3400 | 2700 | 1800 | | 900 | 0.9180 | 0.6120 | Dept funds | | | | | |
| | Establishment of Commercial Broiler units (1000 birds) | 143 | 224000 | 56000 | 151200 | 16800 | 3.2032 | 0.8008 | Dist funds | | | | | |
| | Establishment of Commercial Layer units (10000 birds) | 20 | 400000 0 | 100000 | 2600000 | 400000 | 8.0000 | 2.0000 | NLM | | | | | |
| | Grand Total | | | | | | 19.2404 | 6.7356 | | | | | | |

| | | | | | | Quarter wis | e requireme | nt |
|-------|-----------------|--|-----------------------------------|--|---------|-------------|-------------|---------|
| SI No | Growth engine | Total Amount required Rs in lakhs per year | Funding Agency | Amount required Rs in Crs for subsidy | 1st qtr | 2nd qtr | 3rd qtr | 4th qtr |
| | | | | | 10% | 40% | 40% | 10% |
| | | | AH Department | 18.4892 | 1.8489 | 7.3957 | 7.3957 | 1.848 |
| | MILK PRODUCTION | | MGNREGS | 0.9663 | 0.0966 | 0.3865 | 0.3865 | 0.096 |
| 1 | MILK PRODUCTION | | Additional funds (Dist Funds) | 18.7818 | 1.8782 | 7.5127 | 7.5127 | 1.878 |
| | | | NLM | 0 | 0.0000 | 0.0000 | 0.0000 | 0.000 |
| | TOTAL | 50.1554 | | 38.2372 | 3.8237 | 15.2949 | 15.2949 | 3.823 |
| | | | | | 10% | 50% | 40% | 0% |
| | | | AH Department | 3.7648 | 0.3765 | 1.8824 | 1.5059 | 0.000 |
| | MEAT PRODUCTION | | MGNREGS | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.000 |
| 2 | | | Additional funds (Dist Funds) | 0.9708 | 0.0971 | 0.4854 | 0.3883 | 0.000 |
| | | | NLM | 2.0000 | 0.2000 | 1.0000 | 0.8000 | 0.000 |
| | TOTAL | 19.2404 | | 6.7356 | 0.6736 | 3.3678 | 2.6942 | 0.00 |



| | | Milk production | | | | | | | | | | |
|-------|------------------------|-----------------|--------|---------|--------|----------|---------|-----|--|--|--|--|
| SI No | Mandal Name | 013 | 1 | 01 | 15 | (| 015 1 t | at | | | | |
| | | T | | T | | T | | 1 | | | | |
| 1 | | 1 8 .0 | .5 | 130 . | 8. | 1 1.5 | 35.1 | | | | | |
| | a | 8 18.01 | 1 .8 | 8 . | 1. | 100 . | .11 | | | | | |
| 3 | a | 8 88. 0 | 1.8 | 531.0 | 0. | 10 5.3 | 5. | | | | | |
| | a ala a | 081 . | 1. 3 | 0 | 8.5 | 83 . | 5 . 1 | 11. | | | | |
| 5 | a II | 10 3. | 1. 5 | 11 . | . 8 | 1 .3 | 30. | 5. | | | | |
| | a at a | 15 .58 | 31.5 | 1.1. | 3.8 | 1881 . 5 | 5.1 | 8. | | | | |
| | a a | 5 .1 | 13.51 | 1 .15 | 15. | 805 .5 | 1 .3 | 3. | | | | |
| 8 | taaaa | 3.30 | 1 .3 | 10 8.8 | . 1 | 115 . 1 | | 5. | | | | |
| | al ta | 155 5.1 | 31.15 | 1 515. | 3 .33 | 18585. | . 0 | 8. | | | | |
| 10 | o I total | 11531.5 | 3.0 | 1 8.1 | . 0 | | 33.0 | | | | | |
| 11 | al total | 113 . | . 5 | 1 008.8 | | 13513. 5 | 3.3 | | | | | |
| 1 | a ta | 1 . | 5. | 13 1. | 30. 8 | | 3 .1 | | | | | |
| 13 | a | 13 .58 | .5 | 1 5. | 3 .18 | 1 58.5 | 3 .50 | | | | | |
| 1 | a a | 10355. 3 | 0. 1 | | .1 | 1 35 .5 | | 5. | | | | |
| 15 | T la | 1080 . 1 | 1. 1 | 11 5 . | 5. 1 | 1 8 5.3 | 30. 5 | 5. | | | | |
| 1 | a | 8 8. 1 | 1. | 10 1.8 | . 3 | | 8.15 | 5 | | | | |
| 1 | att a | 3 .15 | 18. | 10. | 1.80 | | | | | | | |
| 18 | ta a | 105 . 8 | 1.13 | | . 5 | 1 0 .8 | 30. | 5 | | | | |
| 1 | aa ataaa. | 8815.53 | 1.3 | 3 . 8 | 0.5 | 1051 . | 5. 5 | | | | | |
| 0 | a | 358. | 18. | .01 | 1.83 | 111 . | .80 | | | | | |
| 1 | all | 0 .33 | 18.1 | 3. 3 | 1. | 10851. | .0 | | | | | |
| | la | 1 5 .8 | 8.51 | | 33. 5 | 1 00 .8 | 0.8 | | | | | |
| 3 | o a all | 10 0 .0 | 1.80 | 115 0.5 | 5. 3 | 1300 .0 | 31. | 5 | | | | |
| | ataa | 1 .1 | 33.88 | 1 5. | 3 .5 | 0 1 .5 | 8.5 | | | | | |
| 5 | . ota | 1 3 1. | 8. | 15 3 .8 | 33.53 | | 1.1 | | | | | |
| | a a | 1 8 . | 5.3 | 13 8.8 | .5 | 15133. 5 | 3 .3 | | | | | |
| | . ota | 1 3.8 | | 1 3. | 8.5 | 1 5 .51 | 35.0 | | | | | |
| 38 | ot a ala a | 1135 .1 | . 1 | 1 0 3.1 | | 1355 .0 | 3 .53 | | | | | |
| | a | 13 .5 | .00 | | 31. | 1 10 . 5 | 38. 5 | | | | | |
| 30 | aaaa | 11 3.8 | | 1 188 | .81 | | 3 . | | | | | |
| 31 | II ala | 1 55 .8 | 5.11 | | | 1 83. 1 | 35. | | | | | |
| 3 | a at a | 11 5 .0 | 3. 1 | 1 8. | .8 | 1 .8 | 3 . | | | | | |
| 33 | a a | 1318 . | .3 | 13 8 . | 30. | 15 3 . 3 | 3 . | | | | | |
| 3 | o a a | 833. 3 | 15. | 830 .5 | 18. | 3 .3 | . 3 | | | | | |
| | a at a | 1800.5 | 3. 0 | | . 0 | 1 8.50 | 5.1 | 0. | | | | |
| | o I | 8.5 | 8.58 | 5 .0 | 10.01 | 511 .05 | 1. | | | | | |
| | al | 3 . | .3 | 3 15.8 | 8. 1 | 0 . | 10.58 | | | | | |
| | aaaa | 3 0.31 | 8. 8 | | 10.13 | 51 .155 | 1.3 | | | | | |
| | Vi ianagaram IST TOTAL | 414113.91 | 828 23 | 439126 | 966.08 | 494148.9 | 1185.96 | | | | | |

| | | | | | at production | on | | |
|-------|------------------------|----------|--------|----------|---------------|----------|-----------|-------|
| SI No | Mandal Name | 013 1 | | 01 | 15 | | 015 1 t a | t |
| | | T | | T | | T | | |
| 1 | | 15.5 | | 3 .0 | 3.5 | - | .01 | 0 |
| | a | 30.33 | .88 | 53.3 | 3.80 | 85. | | 0 |
| 3 | a | .1 | 3. 3 | 301.51 | .5 | 3 0.13 | 5.10 | 0 |
| | a ala a | .18 | .8 | .8 | 3. 5 | 81.88 | . 3 | 0 |
| 5 | a II | 5 .1 | 3.18 | .58 | .1 | 315.3 | . 3 | 0 |
| | a at a | 1 5. | . 5 | 15.1 | 3. 3 | . 3 | 3. | 0 |
| | a a | 5.1 | .81 | - | 3. | .3 | .1 | 0 |
| 8 | taaaa | 55. 5 | 3. 0 | 81.1 | | 31 . 1 | | 0 |
| | al ta | 3 5. | .3 | 380.1 | 5. 0 | 8.8 | . 3 | 0 |
| 10 | o I total | 3 3. | .05 | 35 .3 | 5.35 | 01. 8 | .03 | 0 |
| 11 | al total | 3 5. | .3 | 3 . | 5. 0 | 8. | . 3 | 0 |
| 1 | a ta | 35.5 | | 5 .0 | 3.8 | . 3 | .38 | 0 |
| 13 | a | 3 .58 | .0 | 35 .01 | 5.3 | 0. | .0 | 0 |
| 1 | a a | .8 | 3.0 | 1. | .0 | 30 . 5 | .5 | 0 |
| 15 | T la | 5 0. | .51 | 5 . 1 | 8.5 | 5. | | 1 |
| 1 | a | .10 | 3.05 | 8. 8 | .03 | 30 .88 | .5 | 0 |
| 1 | att a | 55. 3 | 3.1 | 80. 5 | . 1 | 31 . | . 5 | 0 |
| 18 | ta a | 31. | .8 | 5.0 | 3.8 | 8 . | .30 | 0 |
| 1 | aa at a a a . | 88. | .11 | 53 .8 | 8.0 | 0. | .10 | 1 |
| 0 | a | 11 1. 8 | 1 .0 | 1 33.85 | 18.51 | 13 1. 1 | 0.88 | |
| 1 | all | 1 . | 1.5 | 1 . | 1. | 11.5 | .1 | |
| | la | 0 . | 5.0 | . 5 | | 505.33 | .58 | 0 |
| 3 | o a all | 5 . | 5. 1 | 50 . 0 | .5 | 5.5 | 8.50 | 0 |
| | ataa | 330.83 | .1 | 3 3.88 | 5. | 10. | .1 | 0 |
| 5 | . ota | 8. | 3. 3 | 3 8. | | 3 0.3 | 5.55 | 0 |
| | a a | 0.8 | 5.5 | 8. | 33. 3 | 53 .03 | 38.0 | |
| | . ota | 1. | 11. | 1035.30 | 15.53 | 11 . 3 | 1 .5 | - 1 |
| 38 | ot a ala a | 1 35. | 1. | 15 8. | 3. 8 | 1 80. 0 | . 1 | 3 |
| | a | 510.5 | .38 | 5 1.55 | 8. | 33. 8 | .50 | 1 |
| 30 | aaaa | 3.3 | . 3 | 33. 1 | .50 | 8 .1 | .3 | 0 |
| 31 | II ala | . 1 | | 8 .3 | 13.11 | 8 .3 | 1. | 1 |
| 3 | a at a | 15 1.88 | 1.5 | 1 8.1 | 5. 3 | 1 50.38 | | 3 |
| 33 | a a | 3 .33 | | 810. | 1.1 | 1 .8 | 13. | 1 |
| 3 | o a a | 1 8.51 | .11 | 185.3 | . 8 | 0 .08 | 3.1 | 0 |
| | a at a | 5 .01 | 0. 5 | 5 . 1 | 0.8 | .5 | 0. | 0 |
| | 0 I | 8 . | 1.05 | . 1 | 1.3 | 10 .5 | 1.5 | C |
| | al | 111.0 | 1.3 | 1 . 3 | 1.8 | 1 .5 | .5 | C |
| | aaaa | .3 | 0. 5 | 83. | 1. | . 0 | 1. | C |
| | Vi ianagaram IST TOTAL | 18277.00 | 228.46 | 20103.20 | 301.55 | 22712.79 | 340.69 | 39.14 |

| 1 | | | Egg production | | | | | | | | | | |
|--|-------|------------------------|----------------|-------|---------|-------|---------|--------|-------|--|--|--|--|
| 1 | SI No | Mandal Name | 013 1 | | 01 | 15 | 015 | 1 t at | | | | | |
| 1 | | | | | | | o. a | | | | | | |
| 3 a 8 0.6 1 0.8 10.1 0.31 0.1 5 a l .5 0.1 .5 0.18 .38 0. 0.0 a a a .5 0.1 .0 0.1 850 0.8 0.0 8 1 a a .5 0.10 0 0.13 3.3 0 0 8 1 a a a .6 0.10 0 0.13 3.3 0 0 10 o 100a 0 103 3.3 0 0 0 11 a 10 0 10.5 0 10.61 0.3 0.1 0 | 1 | | . 8 | 0.11 | | 0.1 | | 0.18 | 0.0 | | | | |
| Bala S | | a | | | | | | | 0.0 | | | | |
| S a I S O.1 . O.1 8.50 O.5 O.1 a a a . O.10 .51 O.1 5.0 O.15 O.1 5.0 O.1 O.0 O.1 O.0 O.1 O.0 O.1 O.0 O.1 O.0 O.1 O.0 | 3 | a | 8. | 0. 0 | | | | 0.31 | 0.0 | | | | |
| a at a | | a ala a | | | . 5 | | | | 0.0 | | | | |
| a a 5 0.10 0 0.13 5. 1 0.1 0.0 al 1 a a a a 8 0.11 0.18 3.3 0.0 0.0 al 1 a 0.1 0.1 0.18 3.8 0.0 0.0 10 o I total .1 0.1 0.0 1.0 0.3 0.0 11 al total 0.0 0.6 5 0.0 1.0 0.3 0.0 13 a 8.5 5 0.15 5 0.0 8.0 0.0 0.0 13 a 8.5 5 0.15 5 0.0 8.0 0.0 0.0 1 a a 0.15 1.1 0.0 8.8 0.0 0.0 1 a a 0.1 0.1 0.1 0.1 0.1 0.1 0.1 | 5 | a II | . 5 | | | | | | 0.0 | | | | |
| 8 1 a a a a .8 0.1 . 0.18 .3 0 .0 10 al taa . 0.1 . 0.18 .38 0 .0 10 0 totolal . 1 0.1 . 0 10.81 .03 .0 11 al total . 0 0 0 5 0 10.81 .0 3 .0 .0 13 . a a .65 .018 .5 .0 <td></td> <td>a at a</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.15</td> <td>0.0</td> | | a at a | | | | | | 0.15 | 0.0 | | | | |
| a a a a 0.1 0.18 .38 0.0 0.0 10 0 10 0 10 0 10 0 | | a a | . 5 | 0.10 | . 0 | 0.13 | | 0.1 | 0.0 | | | | |
| 10 | 8 | taaaa | . 8 | | | | | 0. | 0.0 | | | | |
| 11 al total 0 0 0 5 0 10 0 3 0 13 a a 85 0.15 5 0.15 0.0 8.0 0 0 0 13 a a 85 0.15 5 0.0 8.0 0 <t< td=""><td></td><td>al ta</td><td></td><td></td><td></td><td>0.18</td><td></td><td></td><td>0.0</td></t<> | | al ta | | | | 0.18 | | | 0.0 | | | | |
| 1 a ta 5:1 0.1 5: 0.18 0.3 0.18 0.0 | | o I total | . 1 | 0. 1 | | 0. | | 0.3 | 0.0 | | | | |
| 13 a a 0.15 0.0 | 11 | al total | | 0. 0 | | 0. | | 0.3 | 0.0 | | | | |
| 1 | 1 | a ta | | 0.1 | | 0.15 | | 0.18 | 0.0 | | | | |
| 15 Ta | 13 | a | .85 | 0.15 | | 0. 0 | | 0. | 0.0 | | | | |
| 1 | 1 | a a | | 0.15 | | 0. 0 | | 0. | 0.0 | | | | |
| 1 atl a S. 0.1 5.5 0.18 1 0.1 | 15 | T la | 8. 5 | 0.1 | .15 | 0. 5 | | 0.30 | 0.0 | | | | |
| 18 ta a . 0.1 . 0.1 8. 0.5 0.0 | 1 | | | 0.1 | | 0.18 | | 0. | 0.0 | | | | |
| 1 aa at a a a . 0.1 3 0.0 8.1 0 | 1 | att a | 5. | 0.1 | 5.5 | 0.15 | | 0.1 | 0.0 | | | | |
| 0 a 51 0.15 8 0.1 0.3 0.1 1 1 1 1 1 1 0. | 18 | ta a | | 0.1 | | 0. 1 | 8. | 0. 5 | 0.0 | | | | |
| 1 | 1 | aa at a a a . | | | | | 8.1 | | 0.0 | | | | |
| 1 | 0 | | | 0.15 | | | | | 0.0 | | | | |
| 3 | - 1 | all | | | 0.1 | | | | 1. | | | | |
| a 1 a a 1 | | | .11 | | | | | 0. 1 | 0.0 | | | | |
| 5 . ota 13. 0.31 1.51 0.0 1.0 0.8 0.1 0.0 1.0 0.8 0.1 0.0 1.0 0.8 0.1 0.1 0.3 13.83 0.1 0.1 0.1 0.3 10.11 0.33 0.1 0.0 0.1 1.1 0.3 10.11 0.3 0.0 0.3 0.0 <t< td=""><td>3</td><td>o a all</td><td></td><td></td><td></td><td>0. 1</td><td></td><td>0.</td><td>0.0</td></t<> | 3 | o a all | | | | 0. 1 | | 0. | 0.0 | | | | |
| a a 11. 0. 1. 0.3 13.83 0.1 0.1 38 ota als a 11.0 0.5 11. 0.3 1. 0.3 0.0 30 a a a a 1. 5.88 0. 0. 5.5 0. 0.0 30 a a a a 1. 5.88 . 0. 30.3 . 1. 1.1 31 II a lab . 5. 0.1 8.0 0. 8. 0. 0.0 3 a at a 30.0 0. 0. 3. 1.0 0. 0. 1. 0.0 0. 3 a at a 30.0 0. 0. 1. 5.5 0.0 0. 3. 1.0 0. 0. 1. 0.0 0. 0. 1. 0.0 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. <td></td> <td>ataa</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.0</td> | | ataa | | | | | | | 0.0 | | | | |
| State | 5 | . ota | | | | | | | 0.0 | | | | |
| 38 | | | | | | | | | 0.0 | | | | |
| a 8.3 0.1 8. 0, .5 0, .5 0. 0.0 0.3 0 a a a a a 1. 5 0.1 8. 0 0. 8. 0 0. 0.1 1 1 1.3 1 II a la .5 0. 0.0 0.3 3 1 1 1.1 1.3 1 III a la .5 0.0 0.0 0.3 3 1 0.0 0.0 0.3 3 1 0.0 0.0 0.3 3 1 0.0 0.0 0.3 3 1 0.0 0.0 0.3 3 1 0.0 0.0 0.3 3 1 0.0 0.0 0.3 3 1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0 | | | | | | | | | 0.0 | | | | |
| 30 a a a a 1. 588 . 0 30.3 1. 1.1. 31 II a la 5 5 0.1 8.0 0 8. 0 0.0 3 a at a 30. 0.0 3. 0.0 3.3 1.0 0.0 3 a at a 5.31 5. 1.3 8 301. 0.6 11. 3 o a a 5.5 0.11 5.0 0.1 5.5 0.1 0.0 a at a 1.8 0.0 1.5 0.0 1. 5.5 0.1 0.0 o i 1.8 0.0 1.5 0.0 1. 0.0 0.0 al 3.5 0.10 0.0 0.1 5.5 0.0 0.1 0.0 al 3.5 0.10 0.0 0.1 5.5 0.0 0.1 0.0 al 3.5 0.10 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.0 | 38 | ot a ala a | | | | | | | 0.0 | | | | |
| 31 II ala .5 0.1 8.0 0 8. 0 0.0 3 a at a 30. 0.0 3. 0.0 3.3 1.0 0.0 33 a a 5.31 5. 1.3 8. 301. 0.9 1.1 3 o a a 5. 0.11 5.0 0.1 5.5 0.1 1.0 a at a 1.8 0.0 1.5 0.05 1. 0.0 0.0 o I 1.8 0.03 1.5 0.0 1. 0.0 0.0 al .35 0.10 0. 0.13 5.10 0.15 0.0 a a a a .3 0.05 3 0.0 . 0.08 0.0 | | a | | | | 0. | | 0. | 0.0 | | | | |
| 3 a at a 30 0.0 3. 0.0 3.3 1.0 0.0 33 a a 5.31 5. 1.13 8. 301. 0.0 1.1 3 o a a .5 0.11 5.0 0.1 5.5 0.1 0.1 a at a 1.8 0.0 1.5 0.05 .1 0.0 0.0 o i 1.8 0.03 1.5 0.0 1. 0.08 0.0 al .35 0.10 .0 0.13 5.10 0.15 0.0 a a a a a .3 0.05 .3 0.0 0.08 0.0 | | | | | | . 0 | | .1 | 1.5 | | | | |
| 33 aa 5.31 5. 13 .8 301. 08 1.3 a a 5.3 5. 0.11 5.0 0.1 5.5 0.1 0.0 0.1 1.0 0. | | | | | | | | 0. | 0.0 | | | | |
| 3 o a a | | a at a | | | | 0. 0 | | 1.0 | 0.1 | | | | |
| a at a 1.8 0.0 1.5 0.05 .1 0.0 0.0 .1 o I 1.8 0.03 1.5 0.0 1. 0.05 .0 <td></td> <td></td> <td>5 .31</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.5</td> | | | 5 .31 | | | | | | 1.5 | | | | |
| o I 1.8 0.03 1.5 0.0 1. 0.05 0.0 al .35 0.10 .0 0.13 5.10 0.15 0.0 a a a a a .3 0.05 .3 0.0 . 0.08 0.0 | 3 | o a a | | | | | | | 0.0 | | | | |
| al .35 0.10 .0 0.13 5.10 0.15 0.0 a a a a a .3 0.05 .3 0.0 . 0.08 0.0 | | | | | | | | | 0.0 | | | | |
| aaaa .3 0.05 .3 0.0 . 0.08 0.1 | | 0 I | | | | | | | 0.0 | | | | |
| | | al | | | | | 5.10 | | 0.0 | | | | |
| Vi janagaram IST TOTAL 2865.00 64.46 3030.12 83.33 3357.10 100.71 17.38 | | aaaa | . 3 | 0.05 | .3 | 0.0 | | 0.08 | 0.0 | | | | |
| | | Vi ianagaram IST TOTAL | 2865.00 | 64.46 | 3030.12 | 83.33 | 3357.10 | 100.71 | 17.38 | | | | |

Constraints

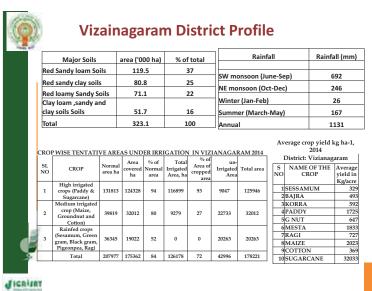
- Acute shortage of staff 30% shortage
 Inadequate Mobility facility and other logistics
 Natural calamities
 Shortage of Labourers due to NREGS
 Commercialisation and Mechanisation of agriculture

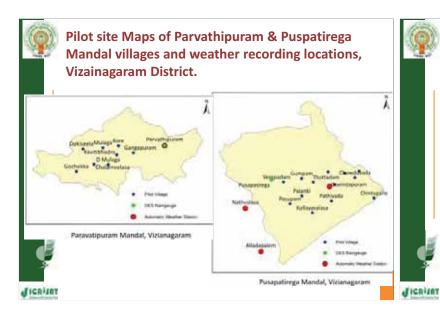
THANK YOU

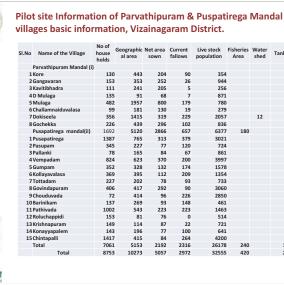
Dr Y SIMHACHALAM

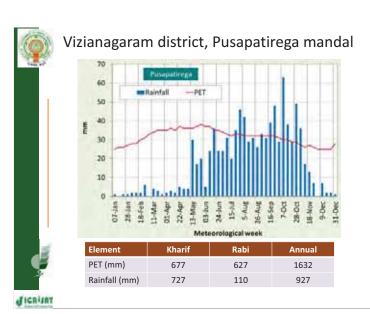
JOINT DIRECTOR ANIMAL HUSBANDRY VIZIANAGARAM

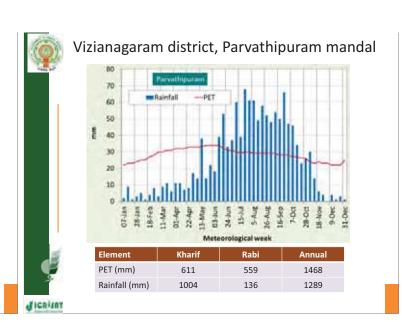








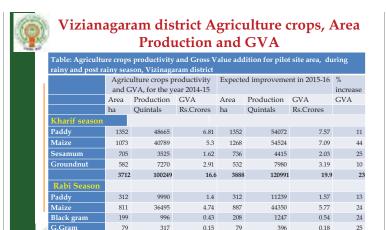






Vizianagaram district Soil sampling activity in pilot site.

| erecte | ed villages of Parvath | | No. of House | Cultivable | No of | Mariginal < | Small 1-2 | Medium& |
|--------|------------------------|--------------|--------------|------------|---------|-------------|-----------|-----------|
| | | | | | | | | |
| .No. | Village Name | Area, Ha | holds | land, Ha | samples | 1 ha | ha | Big >2 ha |
| _ | | 443 | 130 | 294 | 25 | 15 | 6 | |
| 2 | | 353 | 153 | 277 | 30 | 20 | 7 | : |
| 3 | Kavitibhadra | 241 | 111 | 210 | 25 | 19 | 5 | : |
| | | 1957 | 482 | 979 | 60 | 30 | 17 | 13 |
| 5 | Dokiseela | 1415 | 356 | 548 | 50 | 25 | 17 | 1 |
| 6 | | 439 | 226 | 398 | 25 | 16 | 4 | 5 |
| 7 | Chalam valasa | 181 | 99 | 149 | 20 | 13 | 4 | 3 |
| 8 | Doggavani mulaga | 91 | 135 | 76 | 15 | 10 | 4 | : |
| | Total | 5120 | 1692 | 3665 | 250 | 147 | 64 | 39 |
| electe | ed villages of Pusapat | irega Mandal | | | | | | |
| 1 | Pusapatirega | 765 | 1387 | 691 | 36.0 | 24 | 8 | |
| | Pasupam | 227 | 345 | 197 | 10.0 | 8 | 1 | |
| 3 | Palanki | 165 | 78 | 151 | 10.0 | 6 | 1 | 3 |
| | Vempadam | 623 | 824 | 570 | 30.0 | 20 | 6 | 3 |
| 5 | Gumpam | 328 | 352 | 305 | 16.0 | 13 | 2 | : |
| 6 | Kollayavalasa | 395 | 369 | 321 | 20.0 | 14 | 4 | : |
| 7 | Thottadam | 202 | 227 | 170 | 12.0 | 10 | 1 | |
| 8 | Govindapuram | 417 | 406 | 382 | 20.0 | 17 | 2 | |
| 9 | Chouduvada | 414 | 72 | 322 | 20.0 | 16 | 3 | - : |
| 10 | Bharinikam | 269 | 137 | 241 | 12.0 | 9 | 1 | |
| 11 | Pathivada | 543 | 1002 | 447 | 22.0 | 16 | 4 | - : |
| 12 | Roluchappidi | 81 | 153 | 76 | 6.0 | 6 | 0 | - |
| 13 | Krishnapuram | 114 | 149 | 109 | 8.0 | 7 | 1 | |
| | Konayyapalem | 196 | 143 | 177 | 10.0 | 8 | 1 | |
| | Chintapalli | 415 | 1417 | 348 | 18.0 | 13 | 3 | |
| | Total (Acres) | 5153 | 7061 | 4508 | 250 | 189 | 39 | 2 |
| | Samples from, low la | | | | 250 | 103 | | _ |









Vizianagaram district, Puspatirega & Parvathipuram Mandal Milk, Meat and Egg production and GVA in Crores.

| Table: Total milk,meat and egg production and GVA over 2014-15 | | | | | | | | | | | | |
|--|------------|---------|--------|---------|--------|---------|--------|---------|----------|--|--|--|
| | Population | | | | | | | GVA in | | | | |
| Animal | s of | MILK & | | MILK/ | GVA | | | Crores | % | | | |
| Husbandry | Animals & | Meat | GV in | Meat | in | MILK/M | GV in | over | Increase | | | |
| Dept | birds | MTs | crores | MTs | crores | eat MTs | crores | 2014-15 | GVA | | | |
| | | 2013 | -14 | 2014 | -15 | 2015 | -16 | | | | | |
| Milk | 9006.00 | 6999 | 13.90 | 7531.28 | 16.54 | 9294.88 | 22.31 | 5.77 | 35 | | | |
| | | | | | | | | | | | | |
| Meat | 148235.00 | 1117.80 | 11.24 | 1229.82 | 14.76 | 1389.87 | 20.85 | 6.09 | 41 | | | |
| Eggs | 23894.00 | 5.33 | 0.11 | 5.71 | 0.14 | 6.37 | 0.19 | 0.05 | 36 | | | |
| | | | | | | | | | | | | |
| Total | 181135 | 8122 | 25.3 | 8767 | 31.4 | 10691 | 43.4 | 11.91 | 38 | | | |



Vizianagaram district Horticulture crops, Area Production and GVA

0.13

23 5448

1458

5170

48082

148331

0.2

27

25

57676

178667

| | AREA, | | | | | | | | | | | |
|----------|---|----------|---------------------------|---------------------------|----------|---------------------------|---------------------------|----------|---------------------------|---------------------------|------------------|---------------|
| | | 2013-1 | 4, 2014-15 | & 20015- | 16, VIZI | ANAGAI | RAM DIS | STRICT | | | | |
| S. No | | Year 201 | 3-14 | | Year 201 | 4-15 | | Year 201 | 5-16 | | | % increase |
| | Horticulture crops | Ha | Producti on in MT's | Gross Value (Crore) | | Product ion in MT's | Gross Value (Crore) | Ha | Product ion in MT's | Gross Value (Crore) | 2014-15 Crore | over GVA |
| 1 | Mango 331 2317 1.74 400.4 3603.6 2.88 450.4 3603.6 3.06 | | | | | | | | | | | 5.9 |
| 2 | Banana | 124 | 1984 | 0.89 | 154.8 | 3096 | 1.55 | 154.8 | 3096 | 1.70 | 0.15 | 8.8 |
| 3 | Cashew | 435 | 217.5 | 0.85 | 510 | 306 | 1.22 | 550 | 330 | 1.49 | 0.26 | 17.4 |
| 4 | Oil Palm | 44 | 792 | 0.51 | 52.4 | 943.2 | 0.66 | 52.4 | 943.2 | 0.71 | 0.05 | 7.0 |
| 5 | Coconut | 412 | 49.44la kh Nuts | 1.98 | 460 | 61.2la kh Nuts | 3.45 | 510 | 92.7la kh nuts | 5.74 | 2.29 | 39.9 |
| 6 | Vegetables | 6.5 | 85.5 | 0.10 | 6 | 99 | 0.12 | 10 | 170 | 0.22 | 0.11 | 50.0 |
| | Total | 1352.5 | | 6.07 | 1583.6 | | 9.88 | 1727.6 | | 12.92 | 3.04 | 23.5 |

dichisar.





Vizianagaram district, Puspatirega & Parvathipuram Mandal pilot site, Fisheries, Activities

| FISHING GRO | WTH | ENGINES - | TARG | ETED : | PRODUC | TION A | ND GVA FOR | 2015-16 |
|-------------------------|----------------|-----------------------|------------------|--------|-------------------------------|-------------------|--|---------------|
| Fisheries Activity | | 2014-15 | | | 2015-16 | | Increased Value GVA in Crore | % Increase |
| | Extent (Ha) | Produ ction (Tone) | Value (Crore) | (Ha) | Qty. Expected (Tone/No) | Value (Crore) | Expected production over 2014-15 | in GVA |
| Inland Fish | 421 | 47.95 | 0.362 | 421 | 241 | 2.56 | 2.20 | 6.18 |
| Brakish water Shrimp | 0 | 0 | 0 | 24 | 165 | 4.95 | 4.95 | 100 |
| Marine Fish | Sea | 5900 | 59.00 | Sea | 19000 | 119.0 | 60 | 60 |
| Total Fisheries | 421 | 5950 | 59.37 | 445 | 19406 | 126.5 | 67.2 | 67.2 |



| Tree or | SI N- | Engines | 2014-15 | | | 1 | arget 2015-: | 16 | GVA over | |
|---------|----------|-------------------------|---------|------------|-------------------|--------|---------------------|-------|--------------------|------------|
| | No | | Area | Production | GVA (Rs.Crore) | Area | Production (Tonnes) | | 2014-15 (Crore) | % increase |
| | | Paddy | 1384 | 58655 | 8.21 | 1664 | | 9.14 | 0.93 | |
| | 1 | | | | | | | 12.86 | | |
| | 2 | Maize | 1884 | 77284 | 10.04 | 2155 | | | 2.82 | |
| | 3 | Sesamum | 762 | 3809 | | 810 | | 2.23 | 0.48 | |
| | 4 | Groundnut | 582 | 7220 | | 532 | | 3.39 | 0.48 | |
| | 5 | Blackgram | 199 | 996 | | 208 | | 0.54 | 0.11 | |
| | 6 | Greengram | 79 | 317 | 0.15 | 79 | | 0.18 | 0.03 | |
| | | Agriculture | 4890 | 148281 | 23.5 | 5448 | | 28.3 | 4.85 | |
| | 6 | Mango | 400.4 | 3603.6 | 2.88 | 450.4 | | 3.06 | 0.18 | |
| | 7 | Banana | 154.8 | 3096 | | 154.8 | | 1.7 | 0.15 | |
| | 8 | Cashew | 510 | 306 | 1.22 | 550 | | 1.49 | 0.27 | |
| | 9 | Oil Palm | 52.4 | 943.2 | 0.66 | 52.4 | 943.2 | 0.71 | 0.05 | |
| | 10 | Coconut | 460 | 61.2 lakh | 3.45 | 510 | 92.7lakh | 5.74 | 2.29 | |
| | 11 | Vegetables | 6 | 99 | 0.12 | 10 | 170 | 0.22 | 0.1 | |
| | | Horticulture | 1583.6 | | 9.88 | 1727.6 | | 12.92 | 3.04 | |
| | | Milk | 9006 | 7531 | 16.5 | 9006 | 9295 | 22.3 | 5.8 | 3 |
| | | Meat | 148235 | 1230 | 14.8 | 148235 | 1390 | 20.9 | 6.09 | 4 |
| | 12 | Egg (Lakh No) | 23894 | 5.7 | 0.14 | 23894 | 6.4 | 0.19 | 0.05 | 3 |
| | 14 | Livestock | 181135 | 8767 | 31.4 | 181135 | 10691 | 43.4 | 11.91 | 3 |
| - | | Inland Fish | 421 | 47.95 | 0.362 | 421 | | 2.56 | 2.198 | 6.1 |
| -8 | | Brakish water Shrimp | 0 | 0 | 0 | 24 | 43.4 | 4.95 | 4.95 | 10 |
| - 5 | 15 | Marine Fish | Sea | 5900 | 59.05 | Sea | 19000 | 119 | 60 | 10 |
| 0 | 16 | Fisheries | 421 | 5950 | 59.4 | 445 | 19043.4 | 127.5 | 67.2 | 67. |
| | | All sector | | | 122.8 | | | 213.2 | 86.2 | |







Vizianagaram district, Puspatirega & Parvathipuram Mandal DWMA Activities for watershed devlopment

| s. | DWMA Proposed activities for pilot site 15 villages | Pusapatire | ates for ega Mandal villages | Estimates for Parvathipur selected vill | am Mandal |
|-----|--|-----------------|------------------------------------|---|-----------------------|
| No. | | No. of Works | Total(Rs.in | No. of | Total(Rs.in Lakhs) |
| 1 | LAND DEVELOPMENT PROJECTS WITH MGREGS, LDFSAP-SC &ST, | 969 | 331.05 | 2752 | 1504.4 |
| 2 | Land development projects LDFSAP-SM. LDCSAP-SM | 1059 | 314.45 | 3099 | 852.1 |
| 3 | Drainage Line Treatment Project | 73 | 299.52 | 15 | 71.4 |
| 4 | Afforestation Project | 2356 | 806.37 | 3715 | 1269.3 |
| 5 | Fodder Development and Fodder Conservation Project | 3 | 0.59 | 3 | 0.9 |
| 6 | CPR-Land Development Project | 94 | 404.21 | . 9 | 18.4 |
| 7 | Irrigation Drains and Irrigation Channels Project | 2321 | 1290.90 | 937 | 716.3 |
| 8 | LD-FAP | 6 | 7.20 | 936 | 6229.4 |
| 9 | Minor Irrigation Restoration Project | 331 | 4897.74 | 74 | 15.1 |
| 10 | Compost Manure Project | 127 | 26.82 | 1832 | 2974.5 |
| 11 | Horticulture and Plantation Project | 357 | 340.58 | 3 | 20.4 |
| 12 | Open Well Project In Ground Water Potential Areas For SC ST & SF MF | 2 | 3.81 | . 0 | 0.0 |
| 13 | SMC TRENCHES PROJECT IN EXISTING HORTICULTURE GARDEN OF SC_ST,SF_MF IN RAINFED AREAS | 7 | 27.66 | 0 | 0.0 |
| 14 | Public Institutions Development Project | 55 | 167.10 | 115 | 129.3 |
| 15 | Drinking Water Tanks Project | 295 | 1542.40 | 159 | 584.1 |
| 16 | Flood Control Project | 10 | 43.70 | 40 | 8.2 |
| 17 | Rural Connectivity Project | 427 | 1872.68 | 703 | 2924.4 |
| 18 | Land Development Project In Community Lands | 103 | | | |
| 19 | Land Development in Flood Affected Villages | 477 | | | |
| 20 | Fisheries Development Project | 1 | | | |
| 21 | Rural Sanitaion Project | 144 | | | |
| | Total | 9217 | 12747 | 14682 | 17601 |



Vizianagaram district, Puspatirega & Parvathipuram Mandal Major crops in the pilot villages

- Major cropped area: Paddy and Maize cultivation during kharif and during Rabi Maize, Black gram and Green gram, Sesamum
- Horticulture area: 36% area is under Horticulture-cashew, mango. oil palm, coconut and banana
- Major crops Kharif : Paddy, Maize, Sesamum Groundnut Rabi: Maize, Sesamum, Green gram and Black gram
- Horticultural crops: Cashew, Mango, Coconut, Banana, Oil Palm
- Animal husbandry: Buffaloes, Cows, Bullocks, Sheep, Goat, Backyard Poultry
- · Fisheries: Inland Fish, Prawn cultivation and marine fish







Vizianagaram district, Puspatirega & Parvathipuram Mandal Major systems in the pilot villages

- Poor Nutrient Status of soil low use micro nutrients, excess use of Urea.
- Non timely control weeds and pest
- > Frequent flooding and severe damages to crops
- > Low productivity of Paddy grown with coarse grain old variety (MTU 1001) and severe infestation of BPH, Stem Borer (pests) and Blast (disease).
- Yellow mosaic disease infestation in Green gram and Black gram crops
- Low productivity of horticulture plantations
- Lack of access to the markets
- Poor mechanization
- Local buffalo breeds giving low milk yield (2-3 lit/day)
- Subsistence vegetable cultivation
- Insufficient processing industries



Enhancing Rice Productivity through Improved Cultivars and Mechanisation

- > Improved varieties like NLR 34449, MTU 1121 suitable
- > Varieties for submergence and Salinity tolerant cultivars
- > Balanced nutrients application
- > Micronutrient application-zinc sulphate and Agribon
- ➤ Drought tolerant cultivars (IR64 drt1)
- > Seed Treatment
- ➤ Green manuring incorporation
- ➤ Bio-fertilzer usage PSB an Azospirilium
- > Neem oil spray along with urea.
- ➤ Pigeon pea planting on bunds of paddy (ICPH2740)
- > Mechanisation for transplanting
- > Direct seeded rice in upland as well as tail end areas using machines
- Alternate drying and wetting technology
 - ➤ Pest and disease control
 - > Pre emergence and post emergence weedicide application



Sustainable Intensification of Crops

Rice Fallow Areas

- Minimum tillage after direct seeded or early maturing paddy would enable cultivation of rabi crops and save water also.
- > Balanced nutrients application with drought and disease tolerant cultivars would increase productivity during rabi.
- > Crop diversification with maize and high value crops.
- > Sowing with zero till planter without any moisture loss **Rainy Season Maize**
- Using drought tolerant maize in upland areas productivity can be enhanced
- Balanced nutrients application would increase productivity
- Proper land configuration R& F and BBF to avoid water logging

- Rice fallow area low moisture short duration high yielding varieties
- Line sowing and proper weed management.
- Balanced nutrient and Micronutrients application

Sustainable Intensification of Crops

- Seed treatment with fungicide, Rhizobium, PSB and use of Trichoderma would enhance crop productivity
- Balanced nutrient application along with drought (ICGV 91114, K6,K9, Dhararani, Anantha) tolerant cultivars would increase the
- > IPM can reduce the cost of cultivation and increase profitability
- Sowing with seed drill, application of micronutrients, gypsum zinc and boron

Green gram and Black gram

- Black gram varieties resistant to Yellow mosaic virus disease -PU-31; and LBG-787
- Green gram varieties tolerant to Yellow mosaics virus disease- LBG-460; TM-96-2
- Balanced nutrient application
- Timely control of vectors and other pests





Interventions in Horticulture Plantations

Cashew and Mango

- ➤ Planting grafted saplings of high yielding varieties
- ➤ Rejuvenation
- > Top working
- > Integrated nutrients management
- ➤ Micro irrigation with fertigation
- ➤ Pest and disease control

Coconut, Banana and Pineapple

- $\operatorname{\hspace{1.5pt} imes}$ Planting high yielding varieties of Coconut and Pineapple
- > Tissue culture plants for Banana
- ➤ Integrated nutrients management
- ➤ Micro irrigation with fertigation
- > Pest and disease control



Livestock

| Sl.No. | Interventions | | | | | |
|--------|--|--|--|--|--|--|
| | Milk | | | | | |
| 1 | Increase the number of better yielding cattle | | | | | |
| 2 | Supply of good quality feed with better digestibility | | | | | |
| 3 | Better feeding practices | | | | | |
| 4 | Fodder bank PPP mode for off season requirement | | | | | |
| 5 | Milk collection center-proper pricing and timely payment | | | | | |
| | Meat | | | | | |
| 1 | Providing more Ramlamb units | | | | | |
| 2 | Sheep and Goat de worming | | | | | |
| 4 | Rejuvenation of grazing lands, | | | | | |
| | Egg | | | | | |
| 1 | Encouraging back yard poultry | | | | | |
| 2 | providing subsidy on power to poultry farms | | | | | |



Fisheries

| 100 | 1 131101103 |
|-----------|---|
| S. No. | Interventions |
| | Inland fishing |
| 1 | Stocking of advanced fingerlings of fish seed in all tanks, reservoir, promotion of captive nurseries, desliting and deepening of tanks under RKVY, NFDB & MGRNEGS. |
| 2 | Cage culture in reservoirs |
| 3 | Promotion of L.vannamei culture |
| | Brakish water fish |
| 1 | Revival of Abandoned BW Ponds /Sea bass Culture |
| 2 | BW shrimp Ponds for shrimp production |
| | Marine fishing |
| 1 | Marine Fishing –Boats (360 boats) ,Marine Cage Culture |
| 2 | Marine Capture Fishery -Deep sea Fishing, FADs, Motorization, Value Addition enhance fish production |
| 2 | Monitoring and technical guidance from department officials and MPEDA |
| 3 | Innovative technology for fish production , Marine fish culture, Sea Weed Culture, Seed, Pendals, Anchors and maintenance |
| 4 | Supply of disease free good quality Brood material on subsidy to small and marginal farmers |



WORKSHOP ON PRIMARY SECTOR MISSION at ICRISAT, Hyderabad

28th & 29th April 2015

Joint Director of Agriculture
West Godavari District

West Godavari is having distinction of being "Rice Granary of Andhra Pradesh" on par with East Godavari & Krishna Districts.

Total geographical area(Ha) : 774252

• Targetted Agri. cultivable area(Ha) : 589286

• Production target('000 MTs) : 4511343

• Targeted monitory value(Rs.Crs) : 6498.51

• Growth Target (%) : 11.4%

 Even though 13 crops are grown we are focussed on 4 major crops duly prioritizing the gaps which are affecting the productivity there by production

PROJECTIONS OF ENHANCEMENT OF PRODUCTION & VALUE OF AGRICULTURAL PRODUCE FOR THE YEAR 2015-16 INCOMPARISON WITH 2014-15.

| S NO | CDOD | AREA (Ha) | | PRODUC ('000 I | | VALUE (CRORE Rs) | |
|-------|----------------|-----------|---------|-------------------|---------|----------------------|---------|
| Sito | CKOP | 2014-15 | 2015-16 | 2014-15 | 2015-16 | 2014-15 | 2015-16 |
| 1 | PADDY | 408545 | 411128 | 1569.81 | 1804.85 | 3610.56 | 4150 |
| 2 | MAIZE | 57355 | 64520 | 450.05 | 506.3 | 589.58 | 663.25 |
| 3 | G.NUT | 2450 | 4267 | 5.59 | 9.53 | 22.33 | 38.1 |
| 4 | PULSES | 22491 | 51156 | 8.3 | 30.69 | 33.20 | 122.76 |
| 5 | OTHER CROPS | 471506 | 58185 | 1863.92 | 2176.39 | 1588.3 | 1583.92 |
| TOTAL | | 553802 | 589256 | 3894.47 | 4511.34 | 5833.34 | 6498.51 |

GROWTH RATE AIMED: 11.4

MANDAL WISE

PROJECTIONS OF ENHANCEMENT OF PRODUCTION & VALUE OF AGRICULTURAL PRODUCE FOR THE YEAR 2015-16 INCOMPARISON WITH 2014-15.

| | | 2014-15 | | DDODUCTI | | 2015-16 | | | DD OD UC | Monitory | |
|-----|---------------|----------------|----------------|----------|-------------------------------|-----------------------|----------------|----------------|-------------------------|---------------------------|-----------------------|
| SNO | MANDAL | KHARIF 2014 | RABI 14- 15 | TOTAL | PRODUCTI ON IN M.TONNES | value (Rs. Crores) | KHARIF 2015 | RABI 15- 16 | TOTAL Area in Ha. | PRODUC- TION IN MTs | value (Rs. Crores) |
| 1 | ELURU | 4231 | 393 | 4624 | 15863 | 36 | 4427 | 375 | 4802 | 19574 | 45 |
| 2 | PEDAPADU | 8325 | 378 | 8703 | 29453 | 68 | 8712 | 361 | 9073 | 36658 | 84 |
| 3 | PEDAVEGI | 3249 | 530 | 3779 | 13196 | 30 | 3400 | 506 | 3906 | 16110 | 37 |
| 4 | DENDULURU | 7476 | 3750 | 11226 | 41620 | 96 | 7823 | 3577 | 11400 | 48993 | 113 |
| 5 | BHIMADOLE | 6372 | 6256 | 12628 | 49084 | 113 | 6668 | 5968 | 12636 | 56186 | 129 |
| 6 | NALLAJERLA | 3156 | 1629 | 4785 | 17774 | 41 | 3303 | 1554 | 4857 | 20902 | 48 |
| 7 | D.TIRUMALA | 2489 | 616 | 3105 | 11043 | 25 | 2605 | 588 | 3193 | 13334 | 31 |
| 8 | UNGUTURU | 11005 | 9049 | 20054 | 76963 | 177 | 11516 | 8632 | 20148 | 88758 | 204 |
| 9 | T.P.GUDEM | 11217 | 9815 | 21032 | 81077 | 186 | 11738 | 9362 | 21100 | 93254 | 214 |
| 10 | PENTAPADU | 9610 | 9587 | 19197 | 74702 | 172 | 10056 | 9145 | 19201 | 85449 | 197 |
| 11 | GANAPAVARAM | 7287 | 7287 | 14574 | 56722 | 130 | 7625 | 6951 | 14576 | 64875 | 149 |
| 12 | NIDAMARRU | 4998 | 6341 | 11339 | 44878 | 103 | 5230 | 6049 | 11279 | 50830 | 117 |
| 13 | CHINTALAPUDI | 6001 | 801 | 6802 | 23582 | 54 | 6280 | 764 | 7044 | 28915 | 67 |
| 14 | LINGAPALEM | 2375 | 520 | 2895 | 10236 | 24 | 2485 | 496 | 2981 | 12398 | 29 |
| | K.KOTA | 2472 | 139 | 2611 | 8865 | 20 | 2587 | 133 | 2720 | 11013 | 25 |
| 16 | T.NARASAPURAM | 2562 | 68 | 2630 | 8849 | 20 | 2681 | 65 | 2746 | 11053 | 25 |

| | MANDAL | | 2014-1 | | PRODUC | Monitory | | 2015-1 | | PRODUC- | Monitory |
|-----|--------------|----------------|----------------|-------------------------|-------------------------|--------------------------|----------------|----------------|-------------------|---------|--------------------------|
| SNO | | KHARIF 2014 | RABI 14- 15 | TOTAL Area in Ha. | TION IN M.TONNE S | value (Rs. In Crores) | KHARIF 2015 | RABI 15- 16 | TOTAL Area in Ha. | | value (Rs. In Crores) |
| 17 | KOVVURU | 3630 | 2325 | 5955 | 22452 | 52 | 3799 | 2218 | 6017 | 26168 | 60 |
| 18 | DEVARAPALLI | 3086 | 1348 | 4434 | 16291 | 37 | 3229 | 1286 | 4515 | 19281 | 44 |
| 19 | CHAGALLU | 2720 | 2294 | 5014 | 19278 | 44 | 2846 | 2188 | 5034 | 22206 | 51 |
| 20 | TALLAPUDI | 2948 | 1474 | 4422 | 16391 | 38 | 3085 | 1406 | 4491 | 19297 | 44 |
| 21 | GOPALAPURAM | 2686 | 463 | 3149 | 11019 | 25 | 2811 | 442 | 3253 | 13436 | 31 |
| 22 | KOYYALAGUDEM | 2440 | 43 | 2483 | 8331 | 19 | 2553 | 41 | 2594 | 10423 | 24 |
| 23 | J.R.GUDEM | 3977 | 2022 | 5999 | 22261 | 51 | 4162 | 1929 | 6091 | 26193 | 60 |
| 24 | JEELUGUMILLI | 921 | 0 | 921 | 3072 | 7 | 964 | 0 | 964 | 3859 | 9 |
| 25 | BUTTAYAGUDEM | 1539 | 0 | 1539 | 5134 | 12 | 1610 | 0 | 1610 | 6445 | 15 |
| 26 | POLAVARAM | 2053 | 152 | 2205 | 7525 | 17 | 2148 | 145 | 2293 | 9315 | 21 |
| 27 | KUKUNOORU | 1494 | 25 | 1519 | 5095 | 12 | 1563 | 24 | 1587 | 6376 | 15 |
| 28 | VELAIRPADU | 1298 | 17 | 1315 | 4406 | 10 | 1358 | 16 | 1374 | 5515 | 13 |
| 29 | TANUKU | 5271 | 5274 | 10545 | 41043 | 94 | 5516 | 5031 | 10547 | 46944 | 108 |
| 30 | UNDRAJAVARAM | 5029 | 5009 | 10038 | 39057 | 90 | 5263 | 4778 | 10041 | 44681 | 103 |
| 31 | PERAVALI | 3377 | 3434 | 6811 | 26540 | 61 | 3534 | 3276 | 6810 | 30337 | 70 |
| 32 | NIDADAVOLE | CCAA | | 12145 | E1000 | 117 | | | | | 124 |

| | | | 2014-15 | | PRODUCTIO | Monitory | | 2015-16 | | PRODUC- | Monitory |
|-----|---------------|----------------|----------------|----------------------|------------------|--------------------------|----------------|----------------|----------------------|---------|--------------------------|
| SNO | MANDAL | KHARIF 2014 | RABI 14- 15 | TOTAL Area in Ha. | N IN M.TONNES | value (Rs. In Crores) | KHARIF 2015 | RABI 15- 16 | TOTAL Area in Ha. | MTc | value (Rs. In Crores) |
| 33 | PENUGONDA | 5086 | 5086 | 10172 | 39590 | 91 | 5322 | 4851 | 10173 | 45278 | 104 |
| 34 | PENUMANTRA | 5829 | 5921 | 11750 | 45783 | 105 | 6100 | 5648 | 11748 | 52330 | 120 |
| 35 | IRAGAVARAM | 5985 | 6014 | 11999 | 46716 | 107 | 6263 | 5737 | 12000 | 53423 | 123 |
| 36 | ATTILI | 6592 | 6625 | 13217 | 51459 | 118 | 6898 | 6320 | 13218 | 58846 | 135 |
| 37 | NARASAPURAM | 6518 | 6518 | 13036 | 50736 | 117 | 6821 | 6217 | 13038 | 58028 | 133 |
| 38 | MOGALTHURU | 1830 | 1932 | 3762 | 14699 | 34 | 1915 | 1843 | 3758 | 16774 | 39 |
| 39 | ELAMANCHILI | 3517 | 3346 | 6863 | 26616 | 61 | 3680 | 3192 | 6872 | 30506 | 70 |
| 40 | PALACOLE | 5237 | 5184 | 10421 | 40529 | 93 | 5480 | 4945 | 10425 | 46374 | 107 |
| 41 | PODURU | 6591 | 6591 | 13182 | 51305 | 118 | 6897 | 6287 | 13184 | 58679 | 135 |
| 42 | ACHANTA | 4560 | 4541 | 9101 | 35410 | 81 | 4772 | 4332 | 9104 | 40511 | 93 |
| 43 | BHIMAVARAM | 6201 | 6346 | 12547 | 48914 | 113 | 6489 | 6053 | 12542 | 55889 | 129 |
| 44 | PALACODERU | 6330 | 6330 | 12660 | 49273 | 113 | 6624 | 6038 | 12662 | 56356 | 130 |
| 45 | VEERAVASARAM | 6663 | 6663 | 13326 | 51865 | 119 | 6972 | 6356 | 13328 | 59320 | 136 |
| 46 | AKIVEEDU | 4717 | 4697 | 9414 | 36628 | 84 | 4936 | 4480 | 9416 | 41899 | 96 |
| 47 | KALLA | 5362 | 5217 | 10579 | 41093 | 95 | 5611 | 4976 | 10587 | 47051 | 108 |
| 48 | UNDI | 8519 | 8519 | 17038 | 66312 | 153 | 8915 | 8123 | 17038 | 75831 | 174 |
| D) | ISTRICT TOTAL | 231475 | 177070 | 408545 | 1559808 | 3588 | 242223 | 168905 | 411128 | 1804347 | 4150 |

| | PADDY | | |
|---|---|--|--|
| GAP | INTERVENTIONS | SCHEME | |
| | Usage of green manure crops like Pillipesera, Daincha, sunhemp | Distribution of seed under subsidy | |
| licade of old varieties | Introduction of new varieties like MTU-1061, MTU-1075, MTU-1064, NLR 34449 | Seed village programme | |
| Imbalanced use of Chemical fertilizers | Soil test based fertilizer usage | Intensive soil testing programme | |
| Imbalanced use of micro nutrients | Zinc, Boron, Gypsum | Micronutrient deficiency correction scheme | |

| Non maintenance of optimum plant population and following traditional way of transplanting methods | i) Broadcasting ii) Drum Seeding iii) SMSRI | Awareness creation through extension programmes like Polam Pilustundi and Chandranna Rythu Kshetram | |
|--|--|---|--|
| Indiscriminate use of Pesticides | IPM Practices for control of Pests, Diseases, Weeds and with special reference to Rodents | Anti rodent campaign | |
| Lack of Farm Mechanization | Mechanization through Rotovators, Transplanters, Harvesters and Driers | FM scheme | |
| Under usage of cultivable land | Area eynansion | Repair to the minor & medium tanks and irrigation canals | |
| Loss of produce at the time of harvest due to cyclone | | Release of canal water by Last week of May | |

| | MAIZE | |
|---|--|--|
| GAP | INTERVENTIONS | SCHEME |
| Deficit Organic matter in the Soil | Green manure crops like Pillipesera, Daincha, sunnhemp | Distribution of seed under subsidy |
| Imbalanced use of Chemical fertilisers | Soil test based fertilizer usage | Intensive soil testing programme |
| Imbalanced use of micro nutrients | Zinc, Boron ,Gypsum | Micronutrient deficiency correction scheme |
| Lack of awareness on corn var. for other purposes | popularizing the other corn varieties like baby corn , sweet corn and pop corn. | Capacity Enhancement through ATMA & FTC |

| Lack of awareness on Zero Tillage practice | Adopting Zero tillage in rice fallows | Capacity Enhancement through ATMA & FTC |
|--|---|--|
| Indescriminate use of Pesticides | IPM Practices for control of Pests, Diseases, Weeds | Awareness creation through extension programmes like Polam Pilustundi and Chandranna Rythu Kshetram |
| Lack of Farm Mechanization | Encourage Farm Mechanisation | FM Scheme |

| | GROUND NU | IT | |
|-------------------------------------|--|--|--|
| GAP | INTERVENTIONS | SCHEME | |
| Usage of old varieties | Introduction of new varieties like K-9, Dharani, Anantha | Encouragement through distribution of seed under subsidy | |
| Lack of awareness on Gypsum usage | Application of Gypsum | Micronutrient deficiency | |
| Imbalanced use of micro nutrients | Zinc, Boron | correction scheme | |
| Improper water management | Effective water management through Sprinklers and water carrying pipes | NMOOP | |
| Indescriminate use of Pesticides | IPM Practices for control of Pests, Diseases, Weeds | Capacity Enhancement through ATMA & FTC | |
| Lack of Farm Mechanization | Encourage Farm Mechanisation | FM Scheme | |

| PULSES | | | | |
|-----------------------------------|--|--|--|--|
| GAP | INTERVENTIONS | SCHEME | | |
| Usage of old varieties | Usage of new varities like PU 31, LBG 752, LGG 460 | Encouragement through distribution of seed under subsidy | | |
| Imbalanced use of micro nutrients | Zinc,Gypsum | NFSM | | |
| Improper water management | Effective water management through Sprinklers, water carrying pipes & PP Equipment | NFSM | | |
| Indescriminate use of Pesticides | IPM Practices for control of Pests, Diseases, Weeds | Capacity Enhancement through ATMA & FTC | | |
| Lack of Farm Mechanization | Encourage Farm Mechanisation | NFSM | | |
| Under usage of cultivable land | Area expansion | Release of canal water for Kharif Paddy by last week of May. | | |

| Budget requirement for 2015-16 | | | | | | | |
|--------------------------------|---------------------------------|-------|--|-------------------------|---|-------------------------------------|-------------------------------------|
| s.No | Scheme | Units | Component | Total quantity required | Budgetary requirement (in Crore Rs) | Already available (in Crore) | Further requiremen (in Crore) |
| | Green Manure Seed | qtls | Pillipesera, Diancha, (qtls) Sunhemp | 14000 | 2.80 | 0.00 | 2.8 |
| | FM (NSP,RKVY,SMAM) | No. | | 32986 | 126.00 | 0.00 | 126.0 |
| | | | Zinc (Mts) | 2000 | 2.00 | 1.64 | 0.3 |
| | Micronutrient correction scheme | MTs. | Boron | 50 | 0.00 | 0.00 | 0.0 |
| | correction serieme | | Gypsum | 3000 | 0.00 | 0.00 | 0.0 |
| | Seed Village Programme | units | SEED | 225 | 0.40 | 0.05 | 0.3 |
| 5 | NFSM | ha. | Inputs | | 29.25 | 3.23 | 26.0 |
| 6 | Subsidy Seed | qtls | Seed | 6890 | 2.10 | 0.00 | 2.1 |
| 7 | NMOOP | ha. | Inputs | | 1.64 | 0.00 | 1.6 |
| | Chandra Rythu kshetram | Plots | Inputs | | 0.69 | 0.00 | 0.6 |
| | | | Tota | ıl | 164.88 | 4.91 | 159.9 |



PRODUCTIVITY, PRODUCTION & MONITORY VALUE OF AGRICULTURAL PRODUCE FOR THE YEAR 2015-16 IN PRODUCTION ('000 MTS) S.NO AREA IN HA VALUE IN CRORES CROP 2014-15 2015-16(T) 2014-15 2015-2014-15 2015-16(T) 16(T) 408545 411128 1559.81 1804.35 3587.56 4150.00 Rice Jowar 154 106 0.319 0.218 0.50 0.34 57355 64520 450.06 506.30 589.58 663.25 Maize 915 412 0.68 0.268 2.9 1.16 Redgram G'gram 27019 6.58 30.25 71.97 **B**'Gram 10013 23725 7.32 16.71 31.84 72.70

PROJECTIONS OF ENHANCEMENT OF AREA.

| S.NO | CROP | AREA | IN HA | PRODU ('000 | | VALUE IN | CRORES |
|------|-----------|-------|--------|----------------|---------|----------|---------|
| 7 | G'nut | 2450 | 4267 | 5581 | 9525 | 22.33 | 38.10 |
| 8 | Sesamum | 787 | 721 | 376 | 353 | 1.73 | 1.62 |
| 9 | Sunflower | 386 | 608 | 477 | 751 | 1.79 | 2.82 |
| 10 | Tobacco | 30003 | 28547 | 63006 | 59949 | 882.09 | 839.28 |
| 11 | Turmeric | 197 | 219 | 1241 | 1456 | 8.07 | 9.47 |
| 12 | Chillies | 2549 | 1770 | 3936 | 2733 | 18.89 | 13.12 |
| 13 | Cotton | 9795 | 5647 | 57906 | 33384 | 234.52 | 135.20 |
| 14 | S'cane | 19090 | 20597 | 1737190 | 2059700 | 421.27 | 499.48 |
| | | | 589286 | | 4511343 | 5833.34 | 6498.51 |

| | PADDY | |
|---------------|--------------|-----------------------|
| | AREA (Ha) | PRODUCTIVITY (Kgs/ha) |
| 2014-15 | | |
| KHARIF | 231475 | 3336 |
| RABI | 177070 | 4448 |
| TOTAL | 408545 | |
| 2015-16 | | |
| KHARIF | 242223 | 4003 |
| RABI | 168905 | 4942 |
| TOTAL | 411128 | |
| GROWTH TARGET | 2583 | |

| | PADDY | |
|---------------|--------------------------|-------------------------------|
| | Production ('000 MTs) | Monitory value (Rs Crores) |
| 2014-15 | | |
| KHARIF | 782.20 | 1799.06 |
| RABI | 787.61 | 1811.50 |
| TOTAL | 1569.81 | 3610.56 |
| 2015-16 | | |
| KHARIF | 969.62 | 2230.12 |
| RABI | 834.73 | 1919.88 |
| TOTAL | 1804.35 | 4150.00 |
| GROWTH TARGET | 244.54 | 539.44 |

| | MAIZE | |
|---------------|--------------|--------------------------|
| | AREA (Ha) | PRODUCTIVITY (Kgs/ha) |
| 2014-15 | | |
| KHARIF | 2637 | 7782 |
| RABI | 54718 | 7850 |
| TOTAL | 57355 | |
| 2015-16 | | |
| KHARIF | 2667 | 7782 |
| RABI | 61853 | 7850 |
| TOTAL | 64520 | |
| GROWTH TARGET | 7165 | |

| | MAIZE | |
|---------------|------------|----------------|
| | Production | Monitory value |
| | ('000 MTs) | (Rs Crores) |
| 2014-15 | | |
| KHARIF | 20.52 | 26.89 |
| RABI | 429.53 | 562.69 |
| TOTAL | 450.05 | 589.58 |
| 2015-16 | | |
| KHARIF | 207.55 | 27.19 |
| RABI | 485.55 | 636.06 |
| TOTAL | 506.30 | 663.25 |
| GROWTH TARGET | 56.24 | 73.67 |

| | GROUND NUT | | | |
|---------------|--------------|--------------------------|--|--|
| | AREA (Ha) | PRODUCTIVITY (Kgs/ha) | | |
| 2014-15 | | | | |
| KHARIF | 343 | 1855 | | |
| RABI | 2107 | 2347 | | |
| TOTAL | 2450 | | | |
| 2015-16 | | Medical Medical | | |
| KHARIF | 995 | 1855 | | |
| RABI | 3272 | 2347 | | |
| TOTAL | 4267 | 187 ac 1 2 187 ac | | |
| GROWTH TARGET | 1817 | | | |

| | Production ('000 MTs) | Monitory value (Rs Crores) |
|---------------|--------------------------|----------------------------|
| 2014-15 | | |
| KHARIF | 0.64 | 2.54 |
| RABI | 4.95 | 19.79 |
| TOTAL | 5.59 | 22.33 |
| 2015-16 | | |
| KHARIF | 1.85 | 7.38 |
| RABI | 7.68 | 30.72 |
| TOTAL | 9.53 | 38.10 |
| GROWTH TARGET | 3.94 | 15.77 |

| | PULSES | |
|---------------|--------------|--------------------------|
| | AREA (Ha) | PRODUCTIVITY (Kgs/ha) |
| 2014-15 | | |
| KHARIF | 3739 | 582 |
| RABI | 14752 | 731 |
| SUMMER | 4000 | 4 363 |
| TOTAL | 22491 | |
| 2015-16 | | |
| KHARIF | 2335 | 582 |
| RABI | 13821 | 1132 |
| SUMMER | 35000 | 589 |
| TOTAL | 51156 | |
| GROWTH TARGET | 28665 | |

| | PULSES | |
|---------------|--------------------------|-------------------------------|
| | Production ('000 MTs) | Monitory value (Rs Crores) |
| 2014-15 | | |
| KHARIF | 0.89 | 3.95 |
| RABI | 3.50 | 15.50 |
| SUMMER | 0.71 | 3.12 |
| TOTAL O | 5.10 | 22.57 |
| 2015-16 | | A COLA COL |
| KHARIF | 0.53 | 2.36 |
| RABI | 3.56 | 15.79 |
| SUMMER | 10.17 | 45.09 |
| TOTAL | 14.27 | 63.24 |
| GROWTH TARGET | 9.17 | 40.67 |

GOVERNMENT OF ANDHRA PRADESH

DEPARTMENT OF FISHERIES WEST GODAVARI DISTRICT

ACTION PLAN FOR INCREASING OF AQUA PRODUCTION

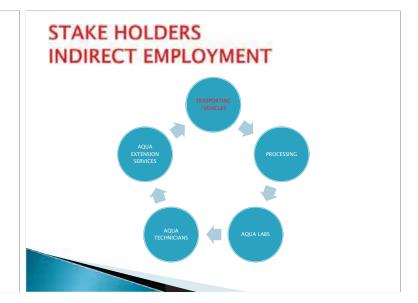
2015 - 2016

TRUST AREAS

- **DEWEEDING OF WATER SOURCES**
- ▶ DE SILTATON OF WATER BODIES
- ▶ REMOVAL OF CARNIVOROUS FISHES
- **▶** REMOVAL OF PREDATORY FISHES
- **▶** MESH REGULATION
- **BAN OF HYLA DRAG NETS**
- ▶ PROTECTION OF ENDANGERED SPECIES

STAKE HOLDERS DIRECT EMPLOYMENT

- **AQUA FARMERS**
- ► FISHERMEN
- ▶ GOVERNMENT/LEGISLATION
- **▶** MARKETTING



ROLE OF GOVERNMENT/ LEGISLATION/ GOVERNENCE

- DEPARTMENT STABILIZATION, CADRE STRENGTH, INFRA STRUCTURE DEVT, UNIFORM ADMINISTRATION, E OFFICE CONCEPT, ALL SERVICES ON LINE IN FISHERIES
- OUT SOURCING /CONTRACT BASIS FOR TECHNICAL SUPPORT
- PRIVATISATION OF GOVT FISH SEED FARMS ON LONG LEASE TO ENTER PRENURES
- INLAND FRESH WATER FISHERIES ACT
- ▶ BANNED CHEMICALS AND ANTIBIOTICS & PROBIOTICES ACT
- ACTIVATION OF SEED ACT
- **UPDATION OF INDIAN FISHERIES ACT**
- ► ENVIROMNMENT PARAMETERS MONITORING
- RESEARCH AND DEVELOPMENT
- ALL ICAR FISHERIES RESEARCH INSTITUTES COODINATION WITH STATE DEPARTMENTS
- INTRODUCTION OF NEW SPECIES
 SPF BROOD STOCK DEVELOPMENT UNITS

SEED IMPROVEMENT

- SEED ACT
- SEED QUALITY
- **BROOD STOCK**
- **BREEDING AND REARING NEW CONCEPTS**
- SUPPLY OF ONE INCH SEED ONLY, NO SPAWN
- INTENSIVE REARING OF FISH SEED IN FRP TUBS
- NATURAL BREEDING CONCEPT IN CANALS, FISH SEED FARMS NEW TECHNOLOGY
- SPAWN TO TABLE FISH SURVIVAL INCREASE PRACTICES
- **TECHNOLOGY TRANSFER TO FARMERS**
- **EXTENSION SERVICES TO FARMERS**
- **BIO FEEDS UNITS**
- **▶ REDUCE OF PRODUCTION COAST**
- **→ SUBSIDY IN INPUTS AND INFRA STRUCTURE**
- **SOLAR POWER UNITS, NEDCAP SUBSIDY**

ACTION PLAN FOR INCREASING PRODUCTION

- Minor irrigation tanks, Reservoirs, and Gram Panchayath tanks
- 1.Desilting tanks
- 2.clear the jungles
- 3.Remove the encroachments
- 4.erect cages/pens where ever possible
- ▶ 5.stock 80 mm seed
- RESERVOERS STOCKING 10 MM SEED FOR HIGER SURVIVAL
- ▶ 6.Take up Hybrid tilapia culture
- > 7.Use of Floating and pellet Feed where ever possible
- 8.Ranch the big size seed in large extent

Interventions to Increase Production

- ▶ 1.Provide UN INTEREPTED power supply
- 2.provide approach roads to transport material for fish tanks
- 3.supply sufficient CONTIONUOS water
- 4.Issue permission to establish fish/prawn tanks through mee seva
- 5.Identify the aqua zones to create infrastructure facilities
- 7.Impliment seed act to control the poor quality seed
- > 8.establish mobile labs in aqua zones.

Interventions to Increase Production

- > 9.Desilting drains and creeks where aquaculture areas
- 10.Estblish labs to test chemicals other sanitizers quality using in
- 11.strengthing fisheries dept. by filling all vacancies
- 12.Appoint Multipurpose Fisheries Extension officers to each mandal where the aquaculture is high like in Agriculture dept. for extension activity.
- > 13.provide laptops/in Ads to improve reporting system to the FDO/AIFS
- 14.Provide 50% subsidy on feed,seed,aerators and diesel engines to small and marginal farmers
- 15.Establish Crab, Silver pompano, sea bass hatcheries in ppp mode in AP For uninterruption supply of seed

Interventions to Increase Production

- 16.Establish food processing industries to increase fish consumption
- ▶ 17.Impart training to the departmental officers on advanced technology outside the country
- ▶ 18.Provide four wheelers to the ADFs / DDFS to monitor the culture aspects
- → 19.Importence should be given to export varieties
- > 20.Establish Trg cum Demo centers in each division
- 21.Establish quarantine centre at vizag
- 22.provide incurrence to fish and prawn
- 23.provide credit accessibility to aqua farmers
- 24.provide quality feed and seed to farmers
- > 25.Regulate private aqua technicians by registration
- > 26.Provide mobile lab

Marine sector

- **▶ MARICULTURE**
- **SEAWEED CULTURE**
- SEA RANCHING
- **DESILTATION OF RIVER MOUTHS**
- **CODE OF CONDUCT**
- **ARTIFICIAL CORAL REEFS**
- **FERECTION OF CAGES**
- **MARINE AQUARIUM FISHES UNITS**
- DEVELOPEMT OF MANGROOVES
- SHELTER BELT PROGRAMME
- **CRZ IMPLEMENTATION**

Marketing

- STABILIZE HARVESTING/AVOID STRESS HARVESTING
- **QUALITY PRORECTION**
- LIVE MARKETTING
- **COLD STORAGE EQUIPMENT**
- → ICE BOXES USAGE
- **ELIMINATION OF MIDDLE MAN**
- MINIMUM SUPPORTING PRICE
- INCREASE OF AVERAGE CONSUMPTION
 OMESTIC MARKETTING/ COLD CONCEPT
- READY TO COOK
- **CONSUMER ATTRACTION ADS**
- Wide publicity should be given through media by celebrities to increase consumption
- ▶ BYE PRODUCTS /VALUE ADDED PRODUCTS
- DREY FISH/FISH OILS/PICKELS ETC,

Aqua Sources in the District

Type of water source

→ 78 Short seasonal Tanks
 → 22 Long seasonal Tanks
 → 1 Perennial Tank
 −582.05
 −208.88
 → -8.40

G.P Tanks

▶ 1231 Short seasonal Tanks
 ▶ 976 Long seasonal Tanks
 ► 455 Perennial Tanks
 −386.00
 −4880.00
 −3640.00

Natural sources in West Godavari

| S.No | Type of water resource | Extent in Ha |
|------|---|--------------|
| 1 | River Streches (in kms) | |
| | Godavari river 150 Km | 65000 Ha |
| 2 | Irrigation Canals (in kms) | |
| | Krishna Canals 25 Kms | 450 Ha |
| | Godavari Canals- 2100 Kms Major and Minor | 30000 Ha |
| | Yanamadurru Drian & other small drains 250 Km | 4500 ha |
| | upputeru | 2500 Ha |
| 3 | Resrvoirs (in Hect.) | |
| | Errakalava | |
| | Kovvadakalava Reservoir | 3278.01 Ha |
| | Nagireddygudem | |
| | Jilleru | 242.81 Ha |
| 4 | Lakes | |
| | Kolleru Lake(West Godavari) | 23856.58 Ha |

West Godavari Action Plan Inland Facilities required to achieve the anticipated production (Interventions)

Type of Facility

fish Seed intensive rearing in Fibre tubs up to 5 inches size

Natural ,Bio feeds plankton rearing to provide bio Feeds

Mobile labs, disease diagnostic & biological disease control units

Skill Development & Trg Programmes centres for Stake holders

Post harvest Aqua hubs for Marketing and Cold Storage

WELCOME

PRIMARY SECTOR MISSION 2015-16

DEPUTY DIRECTOR OF HORTICULTURE, WEST GODAVARI DISTRICT, ELURU

INTRODUCTION

<u>Horticulture Potentiality in West Godavari District</u>:

West Godavari District is potential for growing various Horticultural crops like Cashew, Mango, Coconut, Oil Palm, Banana, Cocoa, Citrus, Sapota, Guava, Vegetables, spices like Pepper, Flowers, Medicinal and Aromatic plants. Due to available resources like land, irrigation and other infrastructure facilities, there is a vast scope for the development of Horticulture in this district.

Horticulture crops are growing in an area of 1.46 Lakh Hectares out of the net-cropped area of 4.45 Lakh Hectares constitutes 32.80%. 85% of the Horticulture crops are grown in 24 upland Mandals and 15% in 22 delta areas. West Godavari Districts stands first in Oil palm and Cocoa both in area and production.

2

PRIMARY SECTOR MISSION (HORTICULTURE) - 2014-15

| Major Horticulture crops Grown ina the District | Extent available in the district Area(Ha) up to (31.3.2015) | Area under Production upto 2014-15 | Production (MTs) | Productivity (MT/Ha) | Average Market (Price based od 2014-15 Fig. in year) Rs/Ton | Total Value.(Rs. In Lakhs) (3*5) |
|--|---|--|---------------------|-------------------------|--|--|
| 1 | 2 | | 3 | 4 | 5 | 6 |
| I.Short term Crops | | | | | | |
| 1. Banana(Local) | 5170 | 5170 | 183535 | 35.5 | 9500 | 17435.83 |
| 2.T.C. Banana | 4763 | 4763 | 214335 | 45 | 8100 | 17361.14 |
| 3. Papaya | 229 | 229 | 17862 | 78 | 6000 | 1071.72 |
| 4. Tomato | 312 | 312 | 6240 | 20 | 4000 | 249.60 |
| 5.Onion | 0 | 0 | 0 | 0 | 0 | 0 |
| 6. Red Chillies | 92 | 92 | 184 | 2 | 7000 | 13 |
| 7.Green Chillies | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.Potato | 0 | 0 | 0 | 0 | 0 | 0 |
| 9.Turmeric | 197 | 197 | 985 | 5 | 65000 | 640.25 |
| 10.Garlic | 0 | 0 | 0 | 0 | 0 | 0 |
| 11.Zinger | 0 | 0 | 0 | 0 | 0 | 0 |
| 12. Pine Aplle | 0 | 0 | 0 | 0 | 0 | 0 |
| 13.Water Melon | 106 | 106 | 5300 | 50 | 5000 | 265.00 |
| 14.Musk Melon | 0 | 0 | 0 | 0 | 0 | 0 |
| 15.Veg. Crops in the District | 4578 | 4578 | 91560 | 20 | 8000 | 7324.80 |
| 16.Fower Crops in the Distict | 59 | 59 | 550 | 9.3 | 30000 | 165.00 |
| 17.Other if any (specify) | 0 | 0 | 0 | 0 | 0 | 0 |
| Sub-Total | 15506 | 15506 | 520551 | | 142600 | 44526.21 |

PRIMARY SECTOR MISSION (HORTICULTURE) - 2014-15

| Major Horticulture crops Grown in the District | Extent available in District Area(Ha) up to (31.3.2015) | Area under Production upto 2014-15 | Production (MTs) | Productivity (MT/Ha) | Average Market (Price based od 2014- 15 Fig. in year) Rs/Ton | Total Value.(Rs. In Lakhs) (3*5) |
|---|---|--|---------------------|-------------------------|---|-------------------------------------|
| 1 | 2 | | 3 | 4 | 5 | 6 |
| II.Long term Crops | | | | | | |
| 1.Mango | 8500 | 8412 | 84120 | 10 | 10000 | 8412.00 |
| 2.Cashew | 17165 | 17165 | 8582.5 | 0.5 | 95000 | 8153.38 |
| 3.Sweet Orange | 262 | 262 | 2096 | 8 | 12000 | 251.52 |
| 4.Acid Lime | 3800 | 3720 | 29760 | 8 | 3000 | 892.80 |
| 5.Pomegranate | 0 | 0 | 0 | C | 0 | 0 |
| 6.Sapota | 500 | 500 | 3500 | 7 | 2800 | 98.00 |
| 7.Guava | 1000 | 960 | 17280 | 18 | 7500 | 1296.00 |
| 8.Cocoa | 12000 | 11000 | 7920 | 0.72 | 150000 | 11880.00 |
| 9.Coconut (Nos per Plant) | 23000 | 20000 | 2700 Lakh Nuts | 13500 Nuts | 5 per Nut | 13500.00 |
| 10. Oil Palm | 65000 | 40000 | 800000 | 20 | 6500 | 52000.00 |
| 11. Other if any (specify) | 0 | 0 | 0 | (| 0 | 0 |
| Sub-Total | 131227 | 102019 | 959558.5 | | 286805 | 96484 |
| III. Existing P C | | | | | | |
| Poly House cultivation(sqmt) | | | | | | |
| i. vegetables (specify Crops) Capsicum | 0.718 | 0.718 | 64.62 | 90 | 30000 | 19.39 |
| ii.Flowers (specify Crops) | 0 | 0 | 0 | C | 0 | 0 |
| 15.Shade Net Houses (sqmt) | | | | | | |
| i.Nurseries (specify Crops) | 0 | 0 | 0 | C | 0 | 0 |
| ii.Vegetables. (specify Crops) Tomato | 0.4 | 0.4 | 14 | 35 | 5000 | 0.70 |
| iii.Floweres (specify Crops) | 0 | 0 | 0 | | 0 | 0 |
| Sub-Total | 1.118 | 1.118 | 78.62 | | 35000 | 20.086 |
| 12.Grand Total | 146734.12 | 117526.12 | 1480188 | | 464405 | 141029.99 |

Additional Area Proposed during 2015-16 to Achieve Double Digit Growth on the existing Dist.GDP

| SI No | Name of the Crop | Units No/sq mt/Ha | Extent available production in District Area(Ha) up to (31.3.2015) | Additional Area Proposed (Ha) (2015- 16) | Total Area available in the District up to 31/03/201 6 (4+5) | Expected Productivity due to proposed Interventions (MTs/Ha) | Expected Production by the following Intervention s (MTs/Ha) | Average Market Price(Rs.Mts) (based on 2014-15 prices | Total value(Rs.in Lakhs) (6X8) | Financial Budget requireme nt (Rs. In Lakhs) | Interventions proposed to increase Production/Productivity |
|---------|---|-------------------------|--|--|---|---|---|--|---|--|---|
| 1 | I.Short term Crops | | | | | | | | | | |
| | 1.Banana | На | 9933 | 1000 | 10933 | 53 | 579449 | 8800 | 50991.51 | | plants duly adopting improved package of practices. |
| 3 | 2. Papaya | На | 229 | 200 | 429 | 80 | 34320 | 6000 | 2059.20 | | New gardens with high yielding Thaivan varieties like Red lady with micro irrigation & Mulching. |
| | 3. Tomato | На | 312 | 100 | 412 | 25 | 10300 | 4000 | 412.00 | 3.00 | Use of F1 hybrids, semi indeterminate type under trellies, polyhouse /shadenet cultivation with the drip integration. |
| 5 | 4.Onion | Ha | 0 | 0 | 0 | 0 | 0 | | 0.00 | 0 | - |
| | 5. Red Chillies | На | 92 | 200 | 292 | 2.5 | 730 | 70000 | 511.00 | 24.00 | Cultivation of F1 Hybrid with integration of drip and Mulching. |
| \perp | 6.Potato | Ha | 0 | 0 | 0 | 0 | 0 | | 0.00 | 0 | - |
| 8 | 7.Turmeric | На | 197 | 100 | 297 | 6 | 1782 | 65000 | 1158.30 | 12.00 | Use of high yielding varieties with micro irrigation |
| \perp | 8. Pine Aplle | Ha | 0 | 0 | 0 | 0 | 0 | - | 0.00 | 0 | - |
| 10 | 9.Water Melon | На | 106 | 150 | 256 | 60 | 15360 | 5000 | 768.00 | 4.50 | Encourage cultivation under drip integration with Mulching duly utilizing usage of micro nutrientients. |
| 11 | 10.Musk Melon | Ha | 0 | 0 | 0 | 0 | 0 | | 0.00 | 0 | - |
| 1 | 11.Major 5 Veg. Crops (Specify) Bhendi, Bitter gourd, Ridge gourd, Bottle gourd, Brinjal | На | 4578 | 430 | 5008 | 23 | 115184 | 8000 | 9214.72 | | Encourage cultivation of F1 hybrids for bhendi. Cultivation of gourds under permanent/ semi permanent pandals with drip integration & mulching |
| 13 | 12.Major 5 Fower Crops (Specify) Crossandra, Jasmine, Marrigold, Lilly | На | 59 | 50 | 109 | 11 | 1199 | 30000 | 359.70 | 8.00 | Cultivation with Drip and Mulching |

Additional Area Proposed during 2015-16 to Achieve Double Digit Growth on the existing Dist.GDP

| SI. No | Name of the Crop | Units No/sqm t/Ha | Extent available production in District Area(Ha) up to (31.3.2015) | Additional Area Proposed (Ha) (2015- 16) | Total Area available in the District up to 31/03/2016 (4+5) | Expected Productivity due to proposed Interventions (MTs/Ha) | Expected Production by the following Interventions (MTs/Ha) | Average Market Price(Rs.Mts) (based on 2014-15 prices | Total value(Rs.in Lakhs) (6X8) | Financial Budget requiremen t (Rs. In Lakhs) | Interventions proposed to increase Production/Productivity |
|-----------|--|-------------------------|--|--|--|---|--|--|--------------------------------------|--|--|
| 1 | 2 | 3 | 4 | 5 | | 6 | 7 | 8 | 9 | 10 | 11 |
| | 14. Poly House cultivation(sqmt) | | | | 0 | | 0 | | 0.00 | | - |
| | i.High values vegetables (Capsicum) | На | 0.718 | 0.5 | 1.218 | 110 | 133.98 | 30000 | 40.19 | | Cultivation with raised beds & mulching sheet with the establishment of trellies. |
| | ii. High value Flowers. | sqmts | 0 | 0 | 0 | 0 | 0 | | 0.00 | 0 | - |
| | 15.Shade Net Houses (sqmt) | | | | 0 | | 0 | | 0.00 | | - |
| | i.Nurseries | sqmts | 0 | 0 | 0 | 0 | 0 | C | 0.00 | 0 | |
| | ii. High value Vegetables (Tomato) | На | 0.4 | 1.6 | 2 | 40 | 80 | 5000 | 4.00 | | Cultivation of indeterminate types with raised beds & mulching during off season months. |
| | iii.High Value Flowers | sqmts | 0 | 0 | 0 | 0 | 0 | | 0.00 | 0 | |
| | II.Long term Crops | | | | 0 | | 0 | | 0.00 | | |
| 1 | 1.Mango | На | 8412 | 88 | 8500 | 11 | 93500 | 10000 | 9350.00 | 26.36 | |
| | | На | 17165 | 0 | 17165 | 0.7 | 12015.5 | 95000 | 11414.73 | 0.00 | |
| | | На | 262 | O | 262 | 10 | 2620 | 12000 | | 0.00 | |
| 1 | 4.Acid Lime | Ha | 3720 | 80 | 3800 | 10 | 38000 | 3000 | 1140.00 | 24.45 | Encourage high density plantation for |
| | | На | 0 | O | 0 | 0 | 0 | | 0.00 | 0 | new plantations. Motivating farmers to take up rejuvenation/ canopy |
| 1 | 6.Sapota | Ha | 500 | 0 | 500 | 8 | 4000 | 2800 | 112.00 | | |
| | | На | 960 | 40 | | 22 | 22000 | 7500 | | 21.08 | orchards Application of fortilizers as |
| | | На | 11000 | 1000 | 12000 | 0.9 | 10800 | 150000 | 16200.00 | 130.00 | per soil analysis reports. Providing |
| | Plant) | На | 20000 | 1200 | 21200 | 15000 | 318000000 | 5 | 15900.00 | 90.00 | micro irrigation under irrigated |
| 5 | 10. Oil Palm | Ha | 40000 | 7250 | 47250 | 22 | 1039500 | 6500 | 67567.50 | 1740.00 | Conditions. |
| Ш | 11.Other if any (specify) | На | 0 | 0 | 0 | 0 | 0 | | 0.00 | 0 | |
| | Sub-Total | | | | 0 | | | | 0.00 | | |
| Г | Grand Total | | 117526.12 | 11890.1 | 129416.218 | 15495.1 | 319980973.5 | 455605 | 189167.25 | 2911.54 | |

Rs.48,137.26 Lakhs (Rs.1,89,167.25 Lakhs – Rs.141029.99 Lakhs) additional value is projected during 2015-16 over the value of produce pertaining to 2014-15

| | Name of the | Micro I | rrigation | Mulo | hing | Farm | Ponds | Pandal C | ultivation | Trallies C | ultivation | | opy gement | Rejuva | nation |
|-------|-----------------------------|----------------|-----------------------------|----------------|-----------------------------|----------------|-----------------------------|----------------|-----------------------------|----------------|-----------------------------|----------------|-----------------------------|----------------|----------------------------|
| SI.No | | Physical Ha | Financial Rs.in Lakhs | Physical Ha | Financia Rs.in Lakhs |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 1 | T.C Banana | | | | | | | | | | | | | | |
| 2 | Banana | 545 | 361.29 | | | | | | | | | | | | |
| 3 | Papapa | | | | | | | | | | | | | | |
| 4 | Tomato | | | | | | | | | | | | | | |
| 5 | Onion | | | | | | | | | | | | | | |
| 6 | R.Chillies | | | | | | | | | | | | | | |
| | Turmeric | | | | | | | | | | | | | | |
| 8 | Water Malon | | | | | | | | | | | | | | |
| | Musk Malon | | | | | | | | | | | | | | |
| | Pine apple | | | | | | | | | | | | | | |
| 11 | Major Veg.Crops 6 Nos | | | | | | | | | | | | | | |
| | Major Flower Crops 6 Nos | | | | | | | | | | | | | | |
| 13 | Potato | | | | | | | | | | | | | | |
| 14 | Zinger | | | | | | | | | | | | | | |
| 15 | Capsicum | | | | | | | | | | | | | | |
| 16 | Hy.Tomato | | | | | | | | | | | | | | |
| 17 | Sub-Total | 545.00 | 361.29 | 24.10 | 3.86 | 0.00 | 0.00 | 50.00 | 125.00 | 20.00 | 3.80 | 0.00 | 0.00 | 0.00 | 0 |
| | Fruits | | | | | | | | | | | | | | |
| | Mango | 56 | 11.64 | | | | | | | | | | | | |
| | Cashew | | | | | | | | | | | | | | |
| | S.Orange | | | | | | | | | | | | | | |
| | Acide Lime | 321 | 93.1 | | | | | | | | | | | | |
| | Pomegranete | | | | | | | | | | | | | | |
| | Sapota | | | | | | | | | | | | | | |
| | Guava | 33 | 9.57 | | | | | | | | | | | | |
| | Cocos | | | | | | | | | | | | | | |
| | Coconut | | | | | | | | | | | | | | |
| | Oil Palm | 15825 | 5223.36 | | | | | | | | | | | | |
| | Other if any | 3220 | 2367 | | | | | | | | | | | | |
| | Sub-Total | 19455 | | 0 | 0 | 20 | 15 | - | 0 | - | 0 | 400 | 24 | 400 | |

| | PRI | MARY | SECT | OR MIS | SSION | HORT | ICULT | JRE - I | nterve | ntions | Propo | osed d | uring 2 | 2015-1 | .6 | | |
|-------|-----------------------------|-----------|-----------------------------|----------------------|-----------------------------|----------------|-----------------------------|----------------|-----------------------------|----------------|-----------------------------|----------------|-----------------------------|--------|-----------------------------|----------------|-----------------------|
| | | Protec | | ation Poly F mts) | louses | | Si | nadenet Ho | uses (sqm | its) | | | | IPM | on | | _ |
| | | Vagetable | es (sqmts) | Flowers | (sqmts) | Nurs | eries | Vagetabl | es (sgmts) | Flowers | (sqmts) | Vege | tables | R.Ch | illies | Ma | ango |
| Sl.No | | Physical | Financial Rs.in Lakhs | | Financial Rs.in Lakhs | Physical Ha | Financial Rs.in Lakhs | Physical Ha | Financial Rs.in Lakhs | Physical Ha | Financial Rs.in Lakhs | Physical Ha | Financial Rs.in Lakhs | | Financial Rs.in Lakhs | Physical Ha | Fina Rs.in Lakh |
| 1 | 2 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 3 |
| 1 | T.C Banana | - 17 | 10 | 13 | - 20 | | | 2.3 | - 2-7 | | 20 | | - 20 | | 30 | - 31 | + |
| 2 | Banana | | | | | | | | | | | | | | | | - |
| 3 | Papapa | | | | | | | | | | | | | | | | + |
| 4 | Tomato | | | | | | | | | | | | | | | | - |
| 5 | Onion | | | | | | | | | | | | | | | | - |
| 6 | R.Chillies | | | | | | | | | | | | | | | | - |
| 7 | Turmeric | | | | | | | | | | | | | | | | - |
| 8 | Water Malon | | | | | | | | | | | | | | | | - |
| 9 | Musk Malon | | | | | | | | | | | | | | | | - |
| 10 | Pine apple | | | | | | | | | | | | | | | | - |
| 11 | Major Veg.Crops 6 Nos | | | | | | | | | | | | | | | | Г |
| 12 | Major Flower Crops 6 Nos | | | | | | | | | | | | | | | | Г |
| 13 | Potato | | | | | | | | | | | | | | | | - |
| 14 | Zinger | | | | | | | | | | | | | | | | т |
| 15 | Capsicum | | | | | | | | | | | | | | | | \vdash |
| 16 | Hv.Tomato | | | | | | | | | | | | | | | | т |
| 17 | Sub-Total | 0.50 | 22.50 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 53.25 | 0.00 | 0.00 | 600.00 | 7.2 | 0.00 | 0.00 | 0.00 | 1 |
| | Fruits | | | | | | | | | | | | | | | | П |
| 17 | Mango | | | | | | | | | | | | | | | | + |
| 18 | Cashew | | | | | | | | | | | | | | | | \vdash |
| 19 | S.Orange | | | | | | | | | | | | | | | | \vdash |
| 20 | Acide Lime | | | | | | | | | | | | | | | | \vdash |
| 21 | Pomegranete | | | | | | | | | | | | | | | | \vdash |
| 22 | Sapota | | | | | | | | | | | | | | | | т |
| 23 | Guava | | | | | | | | | | | | | | | | \vdash |
| 24 | Cocos | | | | | | | | | | | | | | | | Т |
| 25 | Coconut | | | | | | | | | | | | | | | | П |
| 26 | Oil Palm | | | | | | | | | | | | | | | | П |
| 27 | Other if any | | | | | | | | | | | | | | | | \vdash |
| | Sub-Total | 0 | | 0 | 0 | - | | | - | | | | | 0 0 | 0 | 300 | т |
| | Grand Total | 0.50. | 22.50 | 0.00 | 0.00 | 0.00 | 0.00 | 1.50 | 53.25 | 0.00 | 0.00 | 600.00 | 7.2 | 0.00 | 0.00 | 300.00 | 1 |





LIVE STOCK

Growth Engine of West Godavari District

| | | 20: | 13-14 | 20 | 14-15 | 20 | 15-16 | Projected Increase of 2014-1 | over |
|--------|----------------|------------|-----------------------------------|------------|-----------------------------------|------------|-----------------------------------|------------------------------------|-------------------|
| Sl. No | Growth Engine | Production | GVA @Current Prices (Rs Cr) | Production | GVA @Current Prices (Rs Cr) | Production | GVA @Current Prices (Rs Cr) | Production | GVA (Rs Cr) |
| 1 | Milk (MT's) | 832490 | 1924.1 | 850967.4 | 2021.3 | 950000 | 2546 | 12 | 24 |
| 2 | Meat(MT's) | 29852 | 782.27 | 27922 | 461.4 | 32000 | 528.91 | 14 | 14 |
| 3 | Egg(Lakh No's) | 19782 | 369.23 | 21263.81 | 467.71 | 23000 | 505.84 | 8 | 8 |

Growth Engine- Milk

| | | tive Ani ch Numb | | | luctivi Anim (gs pe | | | ction p Metric | er Year Tons | Value | uction (Rs in ores) | Proje Growi 2015 | th for |
|---|---------|---------------------|------------------|-------------|---------------------------|------------------|---------|-------------------|------------------|---------|---------------------------|-----------------------------------|--------|
| Sector | 2014-15 | 2015-16 | % of Increase | 2014- 15 | 2015- 16 | % of Increase | 2014-15 | 2015-16 | % of Increase | 2014-15 | 2015-16 | Inc in Value (Rs in Crores) | |
| a) Milk from Crossbred Cows | 0.316 | 0.345 | 9.00 | 7.697 | 8.24 | 7.05 | 0.74 | 0.85 | 14.86 | 176 | 228 | 52 | 30 |
| b) Milk from Non Descriptive Cows | 0.453 | 0.430 | -5.00 | 2.477 | 2.58 | 4.16 | 0.34 | 0.34 | 0.00 | 81 | 91 | 10 | 12.34 |
| c) Milk from Graded Murrah Buffaloes | 2.225 | 2.425 | 9.00 | 7.612 | 8.14 | 6.94 | 6.19 | 7.10 | 14.70 | 1469 | 1903 | 434 | 30 |
| d) Milk from Non Descriptive Buffaloes | 0.953 | 0.905 | -5.00 | 3.946 | 4.21 | 6.56 | 1.19 | 1.20 | 0.84 | 283 | 322 | 39 | 13.78 |
| Sub- Total | 3.947 | 4.105 | 4.00 | 5.43 | 5.79 | 6.17 | 8.46 | 9.49 | 12.17 | 2009 | 2544 | 535 | 26.63 |

Growth Engine- Egg

| | Birds | in Lakh Nu | mbers | E | ggs/yea | r | | Crore Eggs | | Production (Rs in 0 | on Value Crores) | Projected Gr | rowth for 2015-1 |
|---------------------------------------|---------|------------|------------------|---------|---------|------------------|---------|------------|------------------|---------------------|---------------------|-----------------------------------|------------------|
| Sector | 2014-15 | 2015-16 | % of Increase | 2014-15 | 2015-16 | % of Increase | 2014-15 | 2015-16 | % of Increase | 2014-15 | 2015-16 | Inc in Value (Rs in crores) | % of increase |
| Egg Production | | | | | | | | | | | | | |
| a) Eggs from Backyard Poultry | 12.97 | 13.61 | 5.00 | 60.00 | 63.00 | 5.63 | 7.78 | 8.57 | 10.15 | 17.31 | 18.84 | 1.53 | 8. |
| b) Eggs from Commercial Poultry | 135.00 | 141.75 | 5.00 | 154.00 | 156.00 | 1.00 | 207.90 | 221.13 | 13.23 | 461.66 | 486.44 | 24.78 | 5. |
| Sub- Total | 147.97 | 155.36 | 5.00 | 107 | 110 | 3.31 | 215.68 | 229.70 | 11.69 | 478.97 | 505.28 | 26.31 | 7. |

Actvities under each growth engine

Milk

- 1.Improving the Average Milk Yield of High Yielding Milch Cattle (6 Litres per Day and above) by 2 Litres per Day
- $2. Identification \ of \ 100 \ Progressive \ Dairy \ Farmers \ (producing > 200 \ Lts/Day) \ and \ providing \ Bank \ linkages \ to \ increase \ the \ number \ of \ animals \ and \ production$
- $3. Identification of 50000 \, SHGs \, involved \, in \, Dairying \, and \, improving \, productivity \, of \, their \, animals \, in \, Control of the involved \, in$

- 4. Identification of high genetic female Heifers between 18 to 20 months
- $5. \qquad \text{Identification of improved progeny calves born through Artificial Insemination programme through Save Calf Programme} \\$

Meat:-

6. Ram Lamb Exchange, Grazing lands to Shepherds, Modern Slaughter houses, Meat Outlets/Meat Processing and Export Oriented Units for Meat and Eggs

STRATEGIES UNDER EACH GROWTH ENGINE

MILK

1.Breed Improvement Activities

Sexed Semen / Embryo Transfer Technology

Coverage of 30,000 additional Breeding Female Cattle and Buffaloes through NGOs

2. Fodder Production Activities

Feed and Fodder distribution under Drought Mitigation

Nutritional supplementation to 20000 animals

3. Management Animal Hostel

Animal hostels

Nutritional supplementation to 1500 animals Reducing Inter Calving Period in 400 animals

Additional Milk Production through AH Departmental activities

4. Awareness and Capacity Building

Training 50,000 Farmers whose animals are yielding 6 Lts per day and above

5. Credit facilities

Promoting 10 Big Dairy Farmers who produce more than 200 Litres per day

THANK YOU ONE AND ALL

AP Primary Mission: West Godavari Pilot Site 29 April 2015

Bases for selecting Pilot villages

Criteria of village selection

- Representing dry land and delta region of district
- Capturing major cropping/farming system of the district
- Technology should be scalable to other mandal in future
- Block approach

Process involved

- Meeting with District administrator (Collector and CPO)
- Meeting with Line department officials at district and Mandal level
- > Interaction with farmers and community

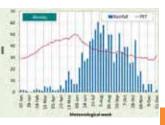




Agro climate characterization

| Mandal | Parameter | Kharif | Rabi | Annual |
|---------|---------------|--------|------|--------|
| K.Kota | Rainfall (mm) | 899 | 94 | 1065 |
| | PET (mm) | 724 | 685 | 1809 |
| Akividu | Rainfall (mm) | 837 | 131 | 1033 |
| | PET (mm) | 763 | 728 | 1913 |





| | | Identified | pilot v | villages | in West | Godavar | i | | |
|---|-------|----------------|--------------|----------------|--------------------------|--------------------------|-------------------------------|-----------------------|-----------------------|
| | SN | illages | No of HHS | Populat ion | Geographi c area (ha) | Agriculture land (ha) | Horticult ure area (ha) | ish pond area (ha) | Prawn area (ha) |
| | | ivedu Mandal | | | | | | | |
| | 1 | harmapuram | 232 | 1010 | 508 | 280 | - | 160 | 45 |
| | 2 | Taratava | 177 | 640 | 240 | 1 | - | 168 | 53 |
| | 3 | Siddapuram | 1851 | 6312 | 12 | 523 | - | 210 | 52 |
| | 4 | Madivada | 1876 | 68 0 | 616 | 32 | - | 170 | 40 |
| | 5 | Akivedu | 6775 | 24506 | 1111 | 2 7 | - | 600 | 214 |
| | 6 | umpagadapa | 1508 | 5467 | 3 8 | 181 | - | 44 | 32 |
| | 7 | A. Bheemavaram | 1326 | 4554 | 703 | 378 | - | 126 | 42 |
| | 8 | Cherukumilli | 1078 | 3750 | 671 | 470 | - | 82 | 3 |
| | | . ota Mandal | | | | | | | |
| | | . ota | 4885 | 167 0 | 3765 | 3014 | 873 | - | - |
| 4 | 10 | ammanapalem | 402 | 1520 | 510 | 451 | 263 | - | - |
| 1 | 11 | adavalli | 5 6 | 3571 | 804 | 706 | 25 | - | - |
| I | Total | | 20706 | 75010 | 10625 | 6647 | 13 5 | 1560 | 517 |

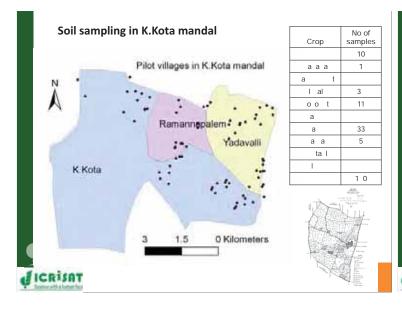
Animal, sheep/goat and poultry population in selected pilot villages

| S | N | illages | Animal population | Sheep Goat population | Poultry (No) |
|-----|----|----------------|-------------------|-----------------------|-----------------|
| | | ivedu Mandal | | | |
| 1 | 1 | harmapuram | | 0 | 38 |
| 2 | 2 | Taratava | | 0 | 515 |
| 3 | 3 | Siddapuram | 21 6 | 426 | 2035 |
| 4 | 1 | Madivada | 1040 | 0 | 37 |
| | 5 | Akivedu | 1147 | 222 | 4 33 |
| (| 3 | umpagadapa | 605 | 8 | 566 |
| 7 | 7 | A. Bheemavaram | 705 | 24 | 3702 |
| 8 | 3 | Cherukumilli | 73 | 468 | 1541 |
| | | . ota Mandal | | | |
| | | . ota | 1238 | 305 | 15562 |
| 1 | 0 | rammanapalem | 30 | 300 | 418 |
| . 5 | 1_ | adavalli | 2 6 | 541 | 1831 |

Crop and village wise coverage of micro-irrigation system in selected pilot villages of K.Kota mandal

| 0 | | ota | RAMANNAGUDE M | EAST YADAVALLI | Total |
|----------|---|-----|------------------|----------------|-------|
| а | t | 1 | 1 | 1 | 4 |
| a a | 0 | 1 | 3 | 0 | 15 |
| aaa | | 3 | | 3 | 37 |
| a | | 1 | 0 | 0 | 1 |
| l al I t | 0 | | 8 | | 164 |
| oo tlt | 0 | 1 | 3 | 5 | 22 |
| a a | | 3 | 0 | 0 | 3 |
| 0 | t | | 1 | 1 | 24 |
| | | 140 | 76 | 53 | 269 |





| | | Proposed Interventions in Agriculture | | | | | | | | |
|---|---|--|------------------|--|--|--|--|--|--|--|
| | | Intervention description | Scale (ha) | Expected benefits | | | | | | |
| | | Agriculture | | | | | | | | |
| | 1 | Soil test based fertilizer application including secondary and micronutrients | 80% coverage | 10-20% increase in crop yield | | | | | | |
| | 2 | Expanding Maize in fallow land; | 50 ha | High Land and Water use efficiency; increased cropping intensity | | | | | | |
| | 3 | Promoting high value crop like Baby corn; Sweet corn | 20 ha | Increased farmer income by 30% than base line | | | | | | |
| | 4 | Drip irrigation in field crops like Maize | 10 ha | Increase water and fertilizer use efficiency; water and fertilizer saving; increased yield by 10-15% | | | | | | |
| | 5 | Introduction of high yielding paddy variety resistant to salinity and flooding | 50 ha + 50 ha | Increased yield by 15-20% | | | | | | |
| (| 6 | Water conservation practices like Broad bed and furrow practices; use of zero-tillage and mulching | 100 ha | Higher WUE; increased yield by 10% | | | | | | |
| Ų | 7 | IPM, Weed management | 100 ha | Increased yield by 15-20% | | | | | | |

Expected GVA and growth in Agriculture

| | Current (| GVA in Year 20 | 14-15 | Expected GVA for Year 2015-16 | | | |
|-------------|---------------|-------------------|-------------|-------------------------------|-----------------------|--------------|-------------|
| Сгор | Area in Ha | Production (tons) | G A (Crore) | Area in Ha | Producti on (tons) | G A (Cro re) | Growth rate |
| harif Paddy | 2 15 | 14226 | 1 .3 | 2 15 | 15442 | 21.0 | |
| abi Paddy | 2502 | 18076 | 24.6 | 2502 | 1 621 | 26.7 | |
| harif Mai e | 41 | 224 | 0.3 | 41 | 243 | 0.3 | |
| abi Mai e | 877 | 7630 | 10.0 | 77 | 23 | 12.1 | 21 |
| Sugarcane | 104 | 8 16 | 2.0 | 104 | 50 | 2.2 | 12 |
| Cotton | 26 | 21 | 0.1 | 41 | 36 | 0.1 | 72 |
| 1 | | | 5 . | | | 2. | 11 |

Proposed Interventions in Horticulture

| | | Intervention description | Scale (ha) | Expected benefits |
|-----|---|--|-----------------------------------|---|
| | | Horticulture | | |
| | Soil test based micro-nutrient application Expanding drip irrigation system; Irrigation and fertigation scheduling | 80% Area | Increased yield by 10% and income | |
| | 2 | system; Irrigation and | 200 ha | Increased WUE; reduce cost of cultivation; water and fertilizer saving; increased yield by 15- 20% |
| | 3 | system; Irrigation and fertigation scheduling Promoting intercropping in Oil palm | 100 ha | Additional income for farmer; Higher resource use efficiency; increased income by 30% |
| (1) | 4 | | 100 ha | Increased resources use efficiency; |
| IC | 5 | Promoting tissue culture Banana | 50 ha | Higher income; |

Expected GVA and growth in Horticulture

| | Curre | ent GVA in Yea | ar 2014-15 | Expected | Expected GVA for Year 2015-16 | | |
|-----------|---------------|----------------|------------|---------------|-------------------------------|-----------|-----------------|
| Crop | Area in Ha | Production (t) | G A (Cr.) | Area in Ha | Production (t) | G A (Cr.) | Growt h rate |
| Palm il | 7 | 17615 | 11.4 | 107 | 21545 | 14.0 | 22 |
| Cashewnut | 145 | 142 | 0.1 | 145 | 157 | 0.1 | 10 |
| Mango | 40 | 315 | 0.4 | 43 | 375 | 0.5 | 1 |
| Coconut | 75 | 2048706 | 1.2 | 105 | 3272232 | 2.0 | 60 |
| Acid lime | 56 | 1101 | 1.7 | 56 | 1228 | 1.8 | 12 |
| egetable | 1 | 253 | 0.4 | 1 | 354 | 0.5 | 40 |
| Banana | 40 | 20 | 0.8 | 100 | 3000 | 3.0 | 445 |
| | | | 16.1 | | | 22.0 | 44 |

Proposed Interventions of Animal Husbandry

| | Intervention description |
|----|--|
| 1 | Increased quality/ green fodder availability |
| 2 | Expanding milk routes in existing areas |
| 3 | Increase in procurement in existing centers |
| 4 | Promoting dairy enterprises |
| 5 | Reviving of Bulk milk collection Centre |
| 7 | Vaccination, regular health monitoring; |
| 8 | Feed supplementation; |
| 9 | Up-gradation of non-descriptive to graded Murrha |
| 10 | Animal hostel |
| 11 | Intensive rearing of sheeps |



ICRISAT



Current GVA of Animal Husbandry

| SN | Village | Animal populati on | Milk Product ion (M Tons) | Sheep /Goat | Meat (M tons) | Chiks no | Egg No | 2014-15 GVA (cr.) |
|-----|---------------------|--------------------|------------------------------------|----------------|---------------------|-------------|---------|-------------------------|
| | Akivedu | | | | | | | |
| 1 | Dharmapuram | 222 | 320.29 | 0 | 0.38 | 738 | 23450 | 0.72 |
| 2 | Taratava | 99 | 594.81 | 0 | 0.46 | 515 | 30325 | 1.33 |
| 3 | Siddapuram | 2196 | 497.35 | 426 | 2.16 | 2035 | 99705 | 1.18 |
| 4 | Madivada | 1040 | 617.80 | 0 | 0.61 | 379 | 49125 | 1.39 |
| 5 | Akivedu | 1147 | 798.48 | 222 | 2.06 | 4933 | 187538 | 1.86 |
| 6 | Dumpagadapa | 605 | 965.14 | 8 | 1.12 | 566 | 76935 | 2.17 |
| 7 | A. I Bheemavaram | 705 | 86.73 | 24 | 2.54 | 3702 | 149020 | 0.30 |
| 8 | Cherukumilli | 739 | 72.93 | 468 | 1.02 | 1541 | 71360 | 0.21 |
| | K.Kota Mandal | | | | | | | |
| 9 | K.Kota | 1238 | 1490.01 | 305 | 36.39 | 15562 | 2416000 | 4.85 |
| 10 | rammanapalem | 930 | 979.61 | 300 | 13.59 | 418 | 66000 | 2.58 |
| 11 | Yadavalli | 296 | 1623.06 | 541 | 19.95 | 1831 | 290000 | 4.23 |
| 218 | AT | | | | | | | 20.80 |

Proposed Interventions of Fisheries

| | Intervention description |
|----|---|
| 1 | Providing lab facility, soil water, disease diagnosis |
| 2 | Providing SPF quality seed |
| 3 | Providing input subsidy |
| 4 | Liberalization of licenses policy |
| 5 | Finance through banks |
| 7 | Insurance coverage to crop |
| 8 | Training to farmers in good management practices |
| 9 | Control of spurious drugs and medicines |
| 10 | Establishment of new varieties hatcheries |
| 11 | Providing cold storage facilities |



Current GVA of Fisheries sector

| | Pond | Productivity | No of | | | |
|--------|------|--------------|-------|------------|---------|---------|
| | area | (t ha) | crops | Production | MRO | GVA |
| Fish | (Ha) | | year | (tons) | (RS/Kg) | (Crore) |
| Inland | 1560 | 10.0 | 2 | | | |
| Fish | | | | 31064 | 100 | 310.64 |
| | 517 | 5.4 | 2 | | | |
| Prawns | | | | 5632.00 | 400 | 225.28 |
| | | | | | | |
| | | | _ | | | |
| Total | 2077 | | 2 | | | 535.92 |













PIs Monitoring system



Objective

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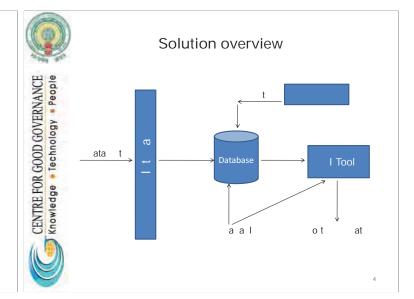


STATE HOL ERS:

- Hon'ble Chief Minister
- Officials of Planning department
- · All Head of Departments (HoDs)
- · CGG officials

ROLE OF CGG:

CGG is the technical partner for development of this M&E system





Assumptions

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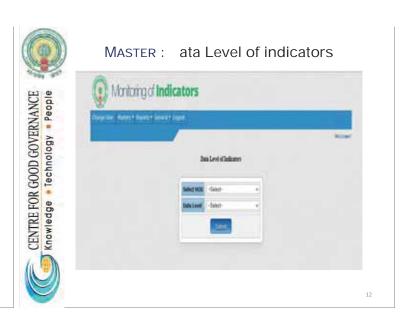






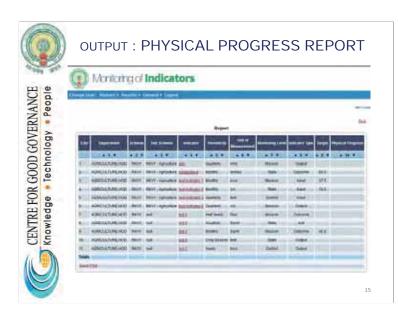


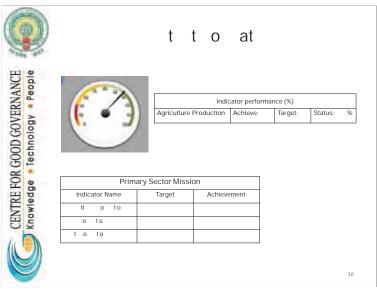


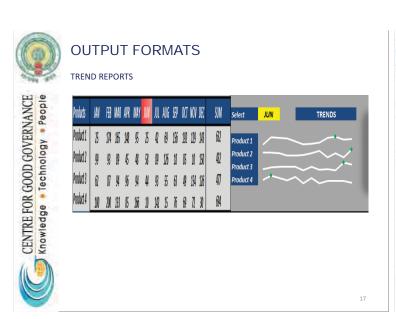


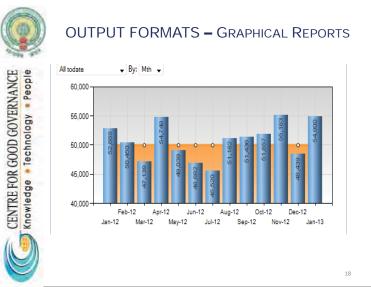










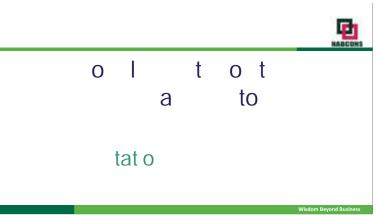




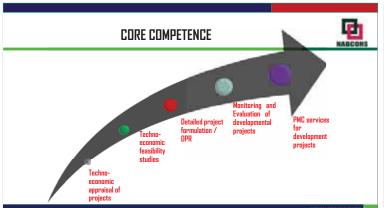


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8 Animal Husbandry - Sheet/ Goat/ Piggery Development



Estimated Potential Crop Production, Maintenance and Marketing 50979 Term investment for agriculture and allied activities Water Resources 987 Land Development 764 3 Farm Mechanisation 2152 4 Plantation and Horticulture & Sericulture 1709 5 Forestry and Waste Land Development 255 Animal Husbandry – Dairy Development 4277 Animal Husbandry - Poultry Development 1098

to t ot tal o 0151 $_{\circ t \dots)}$



| Sr. No. | Sector | Estimated Potential | (₹ crore |
|---------|---|------------------------|----------|
| 9 | Fisheries Development | 1803 | |
| 10 | Storage Godowns / Market Yards | 1079 | |
| 11 | Renewable Sources of Energy and Waste Management | 1087 | |
| 12 | Other Activities | 2043 | |
| | Total Agri. Term Loan | 18570 | |
| | Total investment under agriculture and allied activities(1+II) | 69549 | |
| III | MSME (Including Food and Agro Processing) | 11997 | |
| IV | Other Priority Sector including Self Help Groups | 17133 | |
| | Total Priority Sector (Agriculture + MSME + OPS) | 98679 | |

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Crop/Activity Plans - Concept and **NABCONS** role

Activities Identified

- Maize
- Rice
- Tomato
- Chillies
- Dairy
- Fisheries



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Status

- Major cereal crop of the State AP & Karnataka contributing 38% of national production
- 22.13 lakh MT production, avg. productivity 6.286 MT per hectare
- Productivity low as compared to international standards

Issues

- · Vast yield gap in different districts
- Kharif season productivity low
- Mainly rain-fed and cultivated by SF/MF
- Limited adoption of production technology
- Lack of quality inputs and lack of PHM & marketing efforts
- Inadequate processing facilities

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Status

- Major staple crop of the State –grown in different agro climatic conditions
- Avg. productivity 30.09 Q/ha., highest Nellore (38.11 qtls/ ha), lowest Vishakhapatnam (16.04 qtl.ha)
- Productivity low as compared to international standards

Issues

- Lack of quality seeds
- · Lack of balanced use of fertiliser & pesticides
- · Monoculture of Rice
- Rice production & climatic Change
- Poor Water Management
- Lack of Post Harvest Mgmt (10-37% losses)
- Marketing issues (dependency model, sale of field standing crops) & Credit related issues

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Status

- 1st among chilli producing states in the country
- Production 6 lakh tonne (50% of the country's production)

Issues

- · Need to improve quality seed
- · Excessive use of chemical fertiliser
- Unscientific post harvest management Increased level of aflotoxin leading to rejection of export
- · Exploitation at various levels of marketing
- Credit related issues

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Status

- 1st among tomato producing states in the country
- Production 5.9 lakh Tonne Chittoor alone 2.6 lakh Tonne

Issues

- Poor quality seed / Spurious seeds
- Pest & Disease infestations
- · Excessive use of chemical fertiliser
- Unscientific post harvest management
- · Exploitation at various level of marketing
- Credit related issues

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Status

- Total value of livestock produce Rs. 13743 crore (2004-05 base price)
- Contributes 5.5% of total GSDP, 23.5% to Agri GSDP
- State position 7th in India
- During 2007-12 decrease in population of cattle and buffalo

Issues

 Need for improving livestock population, milk production, marketing, vet infra and breeding, product promotion, management, institutional credit etc.

Wisdom Beyond Business

Status

- 17.69 lakh tonne of fish and prawn production in 2013-14
- The Sector contributes 3.63% of GSDP

Issues

- Involvement of Multi-agencies lack of synergy
- Non availability of specific agencies to provide end-to-end service to farmers, processors, exporters and fishers
- Lack of fish farmers' association / federations
- Lack of infrastructure for input service & marketing

Wisdom Beyond Busines





- Conduct study to identify reasons for low production / productivity
- Preparing banking plan and formulating strategy / projects for increasing production and productivity
- Preparation of comprehensive perspective plan for development of value chain
- Need based capacity building for various stakeholders
- Monitoring of ongoing schemes and suggesting remedial measures
- Assist in creating IT based MIS
- Conduct evaluation study of the projects



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Process

- Potential assessment SWOT analysis
 - Scope and opportunities, limitations
- Identification of critical gaps in production and post-production process
 - Technology & extension gaps
 - Input supply gaps
 - Credit gaps
 - Post-harvest handling & storage gaps

- Linking input suppliers with farmers groups / end users • Review of investment and production credit needs

Suggested interventions

- Realistic Credit need assessment -

- Banking plan approach for institutional credit dispensations
- Convergence with Gol / State Govt. programmes subsidy / interest incentives (Eg. MIDH, NMSA, NMOOP, NFSM, etc.)
- Identify post-harvest infrastructure (sorting, grading, warehouse, transport, etc.) for private investment and / or PPP mode and credit facilitation

Process

- Technology facilitation through training, capacity building and hand-holding

Accreditation of warehouse infrastructure to facilitate warehouse receipt financing

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Process

Implementation process

Stakeholders identification

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- Training and capacity building and hand-holding facilitation through credible and experienced NGOs
- Technology and credit facilitation
 - Banking plans, investment specific plans
- Farmers institutions promotion POs/FPCs
 - Promotion, nurturing and handholding support - Training and capacity building in production and marketing
 - promotional support under PRODUCE
 - $-\,$ Aggregation , processing / value addition by POs

Process

- Marketing Explore Alternate market channels to reduce market intermediaries
 - Raithu Bazaars as aggregation points for bulk sales Spoke & Hub
 - · Commodity markets
 - Distant Markets
 - · Bulk consumers
 - Processors • Exporters
 - Agri- retailers

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Process

- Overall Financial Projections and sources of funding
 - Credit/Private investment
 - $\ \mathsf{Budgetary}$
 - $\ {\sf Convergence}$
 - Other sources including RIDF

Process

- Monitoring
 - Bench marking Outcome/Out put parameters
 - Project specific monitoring mechanism
 - Focus on ICT enabled monitoring system , if not real –time monitoring

Wisdom Beyond Business

Wisdom Beyond Busines



Regional Workshop on Promotion of Farmer Producer Organi ations 12 February 2015

NABAR INITIATIVES STRATEGY

व बढ़े तो देश बढ़े Taking Rural India >> Forward

SMALL HOLDER AGRICULTURE



- The share of SF & MF accounted for around 85% of operational holdings in 2010-11 as compared to about 62% in 1960-61. Average size has declined to 1.16 ha.
- Area operated by SF & MF has increased from about 19% to 44%.
- In terms of production, SF & MF make larger contribution to the production of high value crops. Contribute 70% of vegetables prod., 55% of fruits, 52% of cereal prod., 69% in milk production. Thus, small farmers contribute to both diversification and food security.
- The small holding character of Indian agriculture is much more prominent today than even before
- The future of sustainable agriculture growth and food security in India depends on the performance of SF & MF.

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CHALLENGES FACED BY SMALL HOLDER AGRICULTURE



- Access to inputs, technology, markets & poorly developed supply chain
- Lack of hassle free access to credit results in high dependency of farmers on number of intermediaries. Need a level playing field with large farms.
- Output price fluctuations: Different models emerged for marketing collectively by SF&MF.
 - SHG model, Co-operative model, Small Producer Co-operatives and Contract farming.
 - Apni Mandi in Punjab, Rytu Bazars in AP, dairy co-operatives in marketing.
- Lack of assured income and frequent crop failures.
- Real challenge: Organising the SF & MF for marketing and linking them to high value agric.
- The National Commission for Enterprises in the Unorganized Sector (NCEUS) has considered 4 important group approach models to benefit from the economies of scale.
 - Co-operatives, Producer's Companies, Farmers' groups such as SHG in Andhra Pradesh SEWA (Self Employed Women's Association) in Gujarat and 'Kudumbashree' in Kerala.
- Strategy : Shrinking the Marketing Chain and Promotion of FPOs.

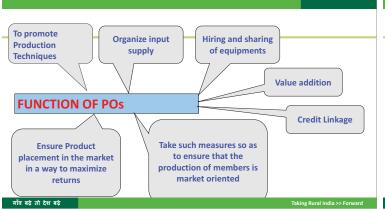
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Taking Rural India >> Forward

DEFINITION OF PRODUCER ORGANIZATIONS

- Formed and owned by a group of producers for either farm or non-farm activities
- It is a registered body and a legal entity
- Producers are shareholders in the organization
- It deals with business activities related to the primary produce/product.
- It works for the benefit of the member producers
- Portions of profit are shared amongst the producers and the balance goes to the share capital or reserves

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Institutional Models of Producer Organisations Informal collectives Formal collectives Producer companies Formal collectives like JLG/Self-Help Groups **Producer companies** Cooperatives (under old Farmers established under the Cooperative Acts, Liberal groups/Association Companies Act Cooperative Acts and Farmer's Club Multi State Cooperative Federations Societies Act) Societies and Trusts

Legal forms

Producer Cooperative

Registered under the cooperative societies act

- *Can have nominal members other than producers
- +Seen as welfare org, tax benefit
- -High state involvement
- oes not allow multi state operations

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MACS have min. state involvement accepted in only in AP state

Producer Company

Registered under section I A of companies act as producer co. new insertion amended in 2002

- +Can have 50 members , no min capital (unlike pvt. ltd.)
- +Equal voting rights to all members, interests protected (one share/ one vote)
- +Allows multistate operations
- Only producers are members, difficult to get equity capital
- -Large formalities, professional mgmt req., taxed

Public limited company

Registered under the companies act as public limited

- +Can get external equity (FabIndia model)
- +Can have 50 members
- +Allows multistate operations
- -Minimum capital required
- Large formalities, reporting req. professional mgmt req., taxed

Background - PC

- To organize farmers / producers to enable them to have better bargaining power.
- Amendment of Indian Company Act in 2002-03 provided for formation of Producers' Companies (PCs)
- Prof Y.K. Alagh headed the committee that formulated the Producer Company legislation in 2002.

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Restrictive clauses in the Coop. Legislation

- Power of the Registrar/Government to give directives
- Power to nominate Directors and veto powers to the nominated Directors.
- Power to annul or rescind Board resolutions.
- Supersession and suspension of the Board

Key positive features of Producer Company Legislation

- Democratic functioning : one-person-one-vote principle
- Private institution of members focused on business
- Patronage based structure
- Membership Individuals or Producer institutions or both
- Ownership and membership only by 'Primary Producers' and/or 'Producer Institutions'
- Equity shall not be publicly traded it may be only transferred -
 - intention to guard against takeover by other companies or by MNCs.
- Dividend limited
- Profit distribution based on volumes

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Producers' Company - Formation

- Under Indian Companies Act, 1956 (section 581C)
- Who can form?
 - any ten or more individuals, each of them being a producer.
 - any two or more producer institutions.
 - \bullet or a combination of ten or more individuals and producer institutions, can get a producer company incorporated
- One or more of the eleven items specified in the Act (section 581B),
 - Production, harvesting, procurement, grading, pooling, handling, marketing, selling, export of primary produce of members.
 - Processing
 - Manufacture, sale/ supply of machinery, equipment to its members;
 - Rendering technical service, consultancy service, training research and development and all other activities of promotion of the interests of its members.

Producers' Company - Formation

- At least five and not more than 15 directors
- Role -
 - Setting Objectives -long term and annual objectives,
 - Corporate strategies and financial plans
 - Dividend payable
 - Quantum of withheld price
 - Recommend patronage to be approved at AGM
 - Admission of new members,

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Producers' Company - Governance

- At least five and not more than 15 directors
- - Setting Objectives -long term and annual objectives,
 - Corporate strategies and financial plans
 - · Dividend payable
 - · Quantum of withheld price
 - Recommend patronage to be approved at AGM
 - Admission of new members,

Producers' Company - Governance

- Board meetings at least once in a quarter
- Rotational 1 to 5 years term
- Scope for continuation if eligible
- Co-option of expert Directors (not exceeding one fifth of the total number of directors) non voting
- Expert Directors- Eligible for Chairmanship
- Chief Executive to be appointed by the Board from amongst persons other than
- Incentives sitting fee and allowances.
- · Internal audit of accounts by chartered accountants

Loans and Advances

- The members of the PCs are primary producers- may need financial
- · A special provision has been made in the Act of Producer Company of giving loans to its members.
- The Company can provide financial assistance to its members through:
 - 1) Credit facility, to any member, in connection with the business of the Company, for a period not exceeding six months
 - 2) Loans and advances, against security specified in articles to any Member, repayable within a period exceeding three months but not exceeding seven years from the date of disbursement (section 581ZK).

Different institutions across India promote producer organizations

- NGOs like PRADAN , Dhan Foundation, BAIF etc.
- Aid from government, NABARD, multilateral bodies (RBS, UNDP etc)
- MASUTA, VAPCOL, Morarka, etc

•Private Corporates with assured buy back arrangements - BILT promoted PACL and assured buy back from them

- FabIndia has promoted 17 "Community owned companies" to procure its material
- TATA Chemicals has promoted 5 producer companies to procure material for its subsidiary KHETSE not as CSR
 ITC CSR has formed producer companies for Mentha and Agarbatti

Government program

- MP DPIP has promoted 17 producer companies under SGSY & World Bank sponsored program
 SGSY support provided to poultry cooperatives in Jharkhand

•IL&FS

- IL&FS has formed several producer groups and along with their capacity building initiatives

Best Practices

- Size of the FPO 500 to 2000 members
- Multi-commodity is better (Agriculture, Horticulture, Forestry)
- · Paying strong emphasis on marketing efforts
- Farm-Farmer-Family diversity of products and services for sustainability
- Ecosystem solution –convergence of multiple stakeholders (bringing together the efficiency of the market, power of the state, reach of the facilitator and strength of the communities) to ensure a sustainable eco-system for the intervention to work
- Geo Spread Contiguous villages 10-20 villages for one FPO
- Spending time in identifying the leaders for the FPO
- Financing
 - at farmer level directly with bankers (linkages);
 - At the FPO level through FPO financing, WH Receipt, Trade Financing (credit from supplier and advance from farmer) etc.
- · Pooling pricing use variable payment schedules and marketing agreements

DIFFICULTIES FACED BY POS

Financial

- Low capital base & No exit route for shareholders
- Lack of access to credit
- Bank's loan product doesn't suit to POs requirement

Skills

- \bullet Lack of awareness and capacity building due to illiteracy.
- Lack of technical skill
- Improper business planning
- Lack of professional management of the group
- Lack of ability to study the markets

Market Linkages

- Low business knowledge
- · Limited linkage to market and tie-up with related agencies
- Lack of marketing infrastructure
- ack of commercial attitude

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- NABARD set up a Producer Organisation Development Fund with a corpus of Rs.50 crore from its surpluses in the year 2011.
- So far, NABARD has supported 91 POs of different forms by extending credit facility of Rs.205 crore and Rs.6.30 crore towards accompanying measures for capacity building/ market interventions.
- NABARD's experience shows that significant capacity building and handholding is required before the POs attain organizational, financial and commercial sustainability.
- It requires a gestation period of three years for generating meaningful benefit to the members.

- Union Budget (2014-15): Producers Organization Development and Upliftment Corpus (PRODUCE) Fund of Rs.200 Cr. in NABARD for promotion of 2000 Farmer Producer Organizations (FPOs)
- Objective: to promote and nurture Farmer Organizations(FPOs)
- Ultimate objectives are better price discovery and better income enhancement opportunities for farmers
- Rational: Aggregation is an imperative necessity for small and marginal farmers for attaining economies of scale, accessing the market and for reducing transaction cost.

NABAR Strategies for Promotion of FPOs



Strategies for Promotion of FPOs continued...



- >Identification of natural clusters of farming groups involving POPIs
 - ✓Input centric
 - ✓ Commodity / crop centric
 - √ Technology centric
- ▶Potential FPOs among successful WDF / Wadi Projects and their Federations
- > Farmers Clubs / Federation
- >SHGs and Federation
- ▶PACs, MACs

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- ➤ Involvement of Resource Support Agencies (RSAs)
- Close involvement of stakeholders (NGOs, Banks, Line Depts. of Govt.)
- ➤ Stakeholders meetings
- >Development of best practices, success stories for replication
- ➤Mission mode: Quantitative and qualitative milestones with timelines

Strategies for Promotion of FPOs continued



Resource Support Agency



- ➤ Wide publicity print, electronic media, mass communication strategies
- >Launching of pilot projects, action research projects, experimental projects, field trials to learn and understand various successful models like MPDPIP, SERP, Mission Mangalam, etc.
- At National Level: Advisory Committee consisting of 15-20 members / experts from reputed academic institutions / NGOs / representatives of GOI, State Govt, SFAC, Corporates, Value Chain Players and Banks.
- State Level: Consultative Committee with 7-10 members consisting of NABRD, SLBC Convener, Director Agriculture, Director Horticulture, Resource Support Agency / POPI, Banks, etc.
- ➤ Capacity building of POPIs
- Necessary training and handholding support to POPI
- ➤ Nodal POPI in places of no RSA

Role of POPIs



Eligibility of POPIs



- >NGOs, Trusts, Corporates, State Govt. Depts., NABARD subsidiaries, KVKs, Big FPCs, Farmers' Federations, Commodity Board / Federations, Cooperative Milk Unions and Other experienced institutions are eligible institutions for POPIs
- ➤ Awareness Creation among farmers about FPOs
- >Organizing, enrolling and registering of FPOs
- To develop organization chart, business plans and nurture the FPOs
- >Monitoring project implementation progress of FPOs

➤ Registered under relevant Acts

- Minimum 3 yrs audited Balance Sheets/P&L accounts
- ➤ Good track record/relevant experience
- > Dedicated and professionally competent staff
- Adequate infrastructure, not blacklisted by any agency
- ➤ No negative net worth, no default to any FI
- Experience in facilitating business / livelihood activities with market linkage

Activities eligible for support to POPIs and FPOs



POPI ▶ o l ato o tato o oto o a t o a ot oa a toa ≽T a t to oa o to o а ≽Та Тооа to 0 I o t > 0 at o to 0 0 1 a at o o la FPO > o at o to а 0 ol а ta

| S No | Eligible Activity for Support | Remarks |
|------|--|--|
| | To Producer Organisations (PO) | |
| 1 | Salary expenses of CEO | during the first, second and third year |
| | Market Facilitation & Linkage | Support in the form of common marketing infrastructure for sorting, grading, purchase of small tools for processing, packaging, certification, branding, etc |
| | PO office expense | Office expenses towards small furniture, electricity, postage, etc. |
| | Sub-total for one PO | |
| II | Support for POPIs | |
| 1. | Training & Exposure visits for farmers | Cost for two Training & Exposure visits for farmers |
| 3 | Training to Directors of POs | Three programmes @ one programme every year for three years. |
| 4 | Training to CEO of POs | For two programmes in two years |
| | Salary of POPI Resource person | for three years. |
| 6 | Other expenses-MIS, Audit, DPR, etc. | |
| | Sub-total for one POPI | |
| | Grand Total | |

SFAC EQUITY GRANT FUND (EGF)





(ii) Increasing credit worthiness of FPCs;

(iii) Enhancing the shareholding of members to increase their ownership and participation in their FPC.

- EGF is grant equivalent in amount to the equity contribution of FPC shareholders.

- Let's a grant equivalent in amount to the equity contribution of PFU shareholders.

 EGF is for PFDs, which have paid up capital not exceeding Rs. 30 lakh as on the date of application.

 The Equity Grant shall be sanctioned to eligible FPCs as follows:

 i. Equity Grant shall be a cash infusion equivalent to the amount of shareholder equity in the FPC subject to a cap of Rs. 10 lakh per FPC.

 Equity Grant shall be a cash infusion equivalent to the bank account of the FPC.

 The FPC shall, within 45 days of the receipt of the Equity Grant, issue additional shares to its shareholder members, equivalent in value The Fris Shak, within 45 day's the freelight the Equity orant, issue administrates to its shareholder inemoers, et to the amount of the Great received by it, provided that the maximum great per category of shareholder is as follows:

 Individual Shareholder - Rs 1000

 Group of Individual Shareholders - Number of Members X Rs. 1,000 (Max 20,000)

 (e.g. SRIs, Farmer Interest Froup, Joint Liability Groups of Farmers)

 Institutional Shareholders - Rs. 1, 00,000

(Farmer Producer Companies)

SFAC EQUITY GRANT FUND (EGF) **ELIGIBILITY CRITERIA**



- Duly registered as FPC
- Raised equity from its Members as laid down in its Articles of Association/ Bye laws. 3
 - The number of its Individual Shareholders is not lower than 50.
- Its paid up equity does not exceed Rs.30 Lakh.
- Minimum 33% of its shareholders are small, marginal and landless tenant farmers as defined by the Agriculture Census carried out periodically by the Ministry of Agriculture, Gol.
- Maximum shareholding by any one member other than an institutional member is not more than 5% of total equity of the FPC.
- Maximum shareholding of an institutional member is not more than 10% of total equity of the FPC.
- It has a duly elected Board of Directors with a minimum of five members, with adequate representation from member farmers and
- It has a duly constituted Management Committee responsible for the business of the FPC.
- 10 It has a business plan and budget for next 18 months
- 11 The FPC has an Account with a "Bank" and Statement of Accounts audited by a CA for at least one full financial year.

SFAC CREDIT GRANT FUND (CGF)



To provide a Credit Guarantee Cover to Eligible Lending Institution (ELI) to enable them to provide collateral free credit to FPCs by minimising their lending risks in respect of loans not exceeding Rs. 100 lakks.

Eligible Lending Institution (ELI): means a Scheduled Commercial Bank for the time being included in the second Schedule to the Reserve Bank of India Act, 1934, and Regional Rural Banks. NCDC, NABARD and its subsidiaries. NEDF: or any other institution (s) as may be decided by the SFAC Board or as directed by 601 from time to time:

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SFAC CREDIT GRANT FUND (CGF) ELIGIBILITY CRITERIA



- 1 Duly registered as FPC
- 2 Raised equity from its Members as laid down in its Articles of Association/ Bye laws.
- 3 The number of its Individual Shareholders is not lower than 500
- 4 Minimum 33% of its shareholders are small, marginal and landless tenant farmers
- 5 Maximum shareholding by any one member other than an institutional member is not more than 5% of total equity of the FPC.
- 6 It has a duly elected/nominated Board with a minimum of five Members (farmers and minimum one woman member).
- 7 It has a duly elected Management Committee.
- It has a business plan and budget for 18 months.
- 9 The Bank ELI has extended / sanctioned within six months of the date of application for the Guarantee or /in principle agreed in writing / has expressed willingness in writing to sanction Term Lean/ Working Capital/ Composite Credit Facility without any collateral security or third party guarantee including personal guarantee of Board Members

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EQUITY GRANT FUND (EGF) CREDIT GUARANTEE FUND(CGF)

Institutional Due Diligence



PROJECT DEVELOPMENT FACILITY(PDF) FOR EGF AND CGF



- Application for EGF / CGF
 - Sanction

Disbursement

Compliance & Verification

- SFAC provides financial support to FPCs for the preparation of Equity Grant Application and Detailed Project Reports (DPR) through empanelled consultants/institutions. SFAC will cover the full cost of preparation of DPR.
- The FPC desirous of seeking assistance for preparation of Application or DPR can approach the nearest empanelled consultant or SFAC directly.
- SFAC will release cost of Application or DPR preparation directly to the empanelled consultant.

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NABARD SUPPORT

ISSUES

- Need timely and adequate finance
 - Limited bankability
 - Lack of tailored products
- Capacity Building Support
 - Lack of managerial skillsNeed to Adopt new technology
 - ❖Business plan development
- Lack of market linkages

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Tie ups with local and large companies
 Limited marketing efforts

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Aid in capacity building

· Provide direct lending

Provide management & business plan support, classroom training, demo units, exposure visits, agri univ tie-ups, expert meetings

❖Composite and Term Loan products

Adequate moratorium for sustainability

- Foster tie-ups with markets
- Help in building tie-ups with local and large companies
- Aid in creating infrastructure through schemes for storage etc.

Guiding Principles

- Activities fall within the domain of agriculture, allied sectors and Non-Farm Sector
- Producers Organization should be formed by the primary producers
- PODF will be used for providing Loan/Grant to carry out the economic activity and for capacity building and market linkages.
- The activity should result in product improvement, value addition and/ or increase in production.
- $\, \bullet \,$ The shares of the producers cannot be sold to non-producers at any time.
- Community participation (ownership/ management/ empowerment)
- Integrated approach (need-based and flexible, convergence with other schemes)
- Creation of sustainable employment opportunities (direct/indirect)
- PO can carry out more than one activity depending upon requirement of members.

- 10 can early out more than one activity depending upon requirement of members

NABARD SUPPORT TERM LOAN / WCTL

Eligible items of Expenditure I lo a ta oal I oto I a I ota otato t.a o o a tal t ot o t t t o ta o o t loa. a tal I o alta otato a oal t. Illot a a c a tal 0 t. t. a Project uration: o t o 3 to a ato o l o to al a o t ato all t a o t a lo a a lt o t o t. o t o o a I t to a a . o 10 a o t o t o t a o . . . o 10 a a ot tot.T tt. .Tatalatola ot at t at o t

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ELIGIBLE INSTITUTIONS

Loan - Registered Producer Organization

Grant - Registered Producer Organization or implementing agency or both

SUPPORT TO FARMERS' CLUB/FARMERS' CLUB FEDERATION / SHG FEDERATION AND ACTIVITY BASED GROUPS

- To register as a legal entity
- Support for bulk purchasing of input and aggregation of produce and market linkages

ELIGIBLE INSTITUTIONS

PARTNERSHIP WITH CORPORATES, LINE DEPARTMENTS, NGOS, CBO

- Support to Supply Chain from Primary producer to retailer/ultimate consumer
- Support to value addition

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- Encourage feeder/suppliers to retailer chains like ITC, Reliance, Heritage, Big Bazar to form/promote POs to avail assistance under
- Subsidiaries/Ancilliaries of larger entities/corporate business houses can promote POs and avail assistance under PODF

SUPPORT TO WATERSHED/TDF COMMITTEES

• Support to VWC in post watershed phase for livelihood, agriculture productivity enhancement and other income generation activities

ELIGIBLE INSTITUTIONS

 Support to cluster level WADI committee for sorting, grading, processing and packaging and marketing of horticulture produce and other income generation activities.

SCHEME FOR FINANCING FARMER PRODUCER COMPANIES

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DETAILS OF FINANCIAL ASSISTANCE

- Eligible activities:
- Working Capital: In general the FPCs need working capital for varieties of purposes depending upon the nature of business. The most observed purposes are:-
- Bulk procurement and supply of agriculture inputs.
- Procurement of seeds produced for processing or selling.
- Procurement of agriculture produces, processing and/or selling.
- Term Loans: The investment credit in the form of term loan is required by FPCs mostly for infrastructure development like construction of warehouse, processing plants, transportation vehicles, etc.
- Composite loan comprising of both working capital and term loan requirements.

ELIGIBILTY CRITERIA FOR FPC

- It is a duly registered FPC as defined in section IXA of the Indian Companies Act, 1956 (including amendments thereto or re-enactment thereof) and incorporated with the Registrar of Companies (RoC).
- raised equity from its Members as laid down in its Articles of Association/ Bye laws.
- The number of its individual shareholders shall not be lower than 50
- Its paid up equity does not exceed Rs 30 Lakhs.
- Minimum 33% of its shareholders are small, marginal and landless tenant farmers
- Maximum shareholding by any one member other than an Institutional member is not more than 5% of total
- · Maximum shareholding of an institutional member is not more than 10% of the total equity of the FPC.
- It has a duly elected Board with a minimum of five Members and having adequate representation from farmers and minimum one woman member.
- It has a duly elected Management Committee responsible for the business of the FPC.
- It has a business plan and budget for at least the next 18 months.
- . The FPC has an Account with a"Bank"
- It has a statement of Accounts audited by a Chartered Accountant (CA) for at least one full financial year.

ELIGIBLE INSTITUTIONS

Guarantee cover

- All FPCs requesting for loan assistance will have to meet SFAC's CGF Scheme Criteria.
- NABARD will extend credit up to a maximum limit of one crore so that it becomes eligible up to the maximum guarantee cover specified under the Scheme.
- Maximum guarantee cover is restricted to the extent of 85% of the eligible sanctioned credit facility, or Rs. 85 Lakh, whichever is lower.
- · Processing and Guarantee Fees:
- NABARD will not charge Processing Fees on the loan amount.
- \bullet All fees payable to SFAC for the Guarantee Cover a onetime Guarantee Fee calculated @ 0.85% and Annual Service Fee of 0.25% will be charged to the Producer Company.
- Security: The financial assistance by way of loan will be secured by hypothecation/ mortgage of assets if any created out of NABARD assistance (both loan and grant)
- The interest rate fixed as of now is from 9.75% to 11.75%.



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Contact: Dr.Y. Haragopal AGM. NABARD 040-27685126 hyderabad@nabard.org www.nabard.org

Best practices in - General

Internal Systems

Need to have strong internal systems in place

- Setting up handling procedures for produce grading and storage, quality control, humidity, procedure for minimizing losses and pilferage, etc.
- Formation of committees purchase committee, sales committee, Finance Committee
- Procuring of trading infrastructure weighing scales, tarpaulins, cleaning equipment, etc.
- MIS system for supply chain management.
- Accounting systems internal control, cash management, working capital management.
- Inventory management closing stock, quantity, quality, prices
- Risk Management systems Insurance, Cash Handling procedures, transit insurance, stock insurance, etc.

Financial Management

- Ensuring required capital and general financial management is a pre-requisite for running the business successfully.
- · This is required for
 - Arranging initial capital for the company;
 - Organising working capital for stock / inventory;
 - Arranging finance for investment in infrastructure;
 - · Fixing margin for input and output selling;
 - · Distribution of margin / profit amongst stakeholders;

RISK MANAGEMENT SYSTEMS

- · Strengthen risk management systems
 - Identification of risks
 - In both external and internal environment of the organization (Systematic issues, Human lapses, misuse and frauds),
 - Market risk.
 - · Environmental risk.
 - · Political risk etc.
- To identify the areas and act on mitigating risks
 - Design.
 - · Develop,
 - · Strengthen systems

Some examples of risks

- Delay in Supply
- - Adverse weather conditions
 Infrastructure failures: Power, Water etc.



Machinery Failure
 Shortage of skilled manpower
 High demand of leasing machinery increases the cost and time
 Poor or no warehouse for finished goods, Infrastructure Failure

- Transport Failure
 Accident
 Damage due to food perishing
 Strikes etc

Compliances for Farmer's Groups Registered under Producer **Companies Act**

Internal

The FPO's promoted under the guidance of SFAC will have following compliances.

The group will ensure that the Board of Directors is elected before the expiry of the term of the existing directors. These elections need to be in accordance with the by-laws.

The general body needs to meet at least once a year and the board of directors at least once in three months. AGM has to be held within 6 months of the completion of financial year. The by-laws of the society may prescribe a higher frequency of meetings. The AGM minutes have to be circulated to all attendants within 30 days of the meeting.

Statutory Records:

Some of the important books of account that the Act requires of all producer companies are:

- Cash book
- Accounts of assets and liabilities
- · Accounts of all purchases and sales of goods
- Updated register of members
- Copies of audit reports and special audits
- · Copy of the law
- Updated bylaws with all amendments
- Minutes Book
- Bye laws book

• Internal Audit:

- A producer company may get its accounts audited internally twice a year
- Internal Audit has become an important management tool for following
 - It ensures compliances of Companies (Auditor's Report) Order, 2003.
 - Internal auditing is a specialized service to look into the standards of efficiency of business operation.
 - Internal auditing can evaluate various problems independently in terms of overall management control and suggest improvement.
 - Internal audit is an integral part of "Management by System".
 - Internal audit ensures the adequacy, reliability and accuracy of financial and operational data by conducting appraisal and review from the independent angel

Financial Reporting

• Submission of Returns

A Producer company needs to submit the following returns within 30 days of conduct of the annual general body meeting:

- · Annual report of activities
- Annual audited statements of accounts with auditor's report
- List of members at the close of the year under reporting with services provided to each member
- Statement on the disposal of surplus or on the allocation of deficit
- List of names of directors, their addresses and their terms of office and
- · Compliance reports relating to audit, special audit and inquiry, if any.

External Compliances:

- Registration of the organization:
- The Act deals with number of members required for incorporation of a producer company after complying with the requirements and provisions of the act in respect of registration.
- The producer institution needs to follow the following compliances to register under producer company Act:

| Form No. | Brief Description | |
|----------|---|----------------------------|
| Form-1–A | 1. A fee of Rs. 500 will be also sent .the applicant shall give four alternative names. The name promoters should also be the subscribers to the memorandum. The last words of the company is to be " | should nited" y with |

Registration compliances:

The producer company need to submit following document for

| The producer company need to submit ronowing document for | | | | |
|---|----------|--|--------------|----|
| Document required | Form No. | Brief Description | No copies | of |
| Memorandum of association | | Memorandum of association duly signed by the subscribers and witnessed | 2 copies | |
| Articles of association | | Articles of association duly signed by the subscribers and witnessed | 2 copies | |
| Declaration | - | Declaration need to be made by an advocat or a charted accountant or the director as per the MOU that all the requirements of the act and the rules there under have been complied with in respect of registration | 1 copies | |
| Declaration of director | Form-29 | List of persons named in the MOA as first directors and their consents | 1 copies | |
| Particulars of director | Form -32 | duplicate giving particulars of the said persons named as directors | 1 copies | |
| Address of register office | Form -18 | situation of registered office | 1 copies | |
| Deposit of incorporation fee | | The receipt of incorporation of fee deposit | 1 copies | |

Preparing to seek credit

Documentation to be in place

- Brief profile of the PC and resumes of the key Director/CEO
 - Background, Company and Business overview, Shareholder profiles, Infrastructure, Geography, Demography, Agriculture and Irrigation, Existing Organogram, Roles and Responsibilities of management
- Copies of leases, if any
- Letters of reference
- Contracts/work order/MoU for selling produces etc.
- Legal documents (registration, business license, etc.)
- Details on existing institutional mechanism including promoter organization
- Past Sources of Funds

Plans and Studies

- Business Plan (Evolving If possible SWOT should be carried out)
- Value Chain Study
- Market Study for
 - Existing Products and Services
 - Future Products and Services

Preparing to seek credit

- Financial Documents
 - Cash flow statement (past and projections)
 - Income statement (past and projections)
 - Balance sheet (past and projections)
- Break-even analysis
- Debt-service ratio

Governance Best Practices

What is Governance in FPOs?

- Governance relates to consistent management, cohesive policies, guidance, processes and decision-rights for a given area of responsibility
- FPOs are created to perform and function as a Business and have responsibility to ensure economic benefits to its members.

Why do we need Good Governance?

- For increased efficiency so that we can maximise the benefits we provide to members with limited resources
- For effectiveness so that our work actually benefits those who are not adequately served by the state and the market institutions
- For ethical behaviour, so that we can influence actors in state and market institutions as well to behave ethically

What comes to your mind when you think of good governance and successful farmer groups ????

- Membership base and member ownership
- Organizational structure, constitution and legal recognition
- Management systems, regularity of statutory meetings
- Responsible and responsive leadership, accountable to members
- Internal knowledge and skills, professionalism of the organization
- Culture, values and integrity
- Open communication and internal trust
- Financial management and accountability
- Financial autonomy, independence from external financial support
- Political independence, no Government interference
- Relations with other stakeholders
- Quality of service provision to members

Elements of good governance





Why do we need Good Governance in FPOs

- POs are accountable to their communities
- POs have to be committed to the highest level of accountability especially to its members

- Pos have to be committed to the highest level of accountability especially to its members
 For a PO, being accountable means
 Demonstrating regularly to members that it uses its resources wisely and
 Ensuring inclusive and equitable support to all members
 The Board/Managements does not take advantage because of their special status and decision making powers.
 An accountable PO has to be
 Transparent and ethical in all transactions with its stake holders
 Prepared for public scrutiny of its accounts and records by funders, beneficiaries, and others.
- <u>Main reasons POs run into difficulties or collapse:</u>
 Poor governance and the breakdown of trust between members, leaders, and managers.
- Managing a group of producers with **different priorities is a difficult task**, especially when POs become larger

How will Good Governance happen in POs?

- In almost all POs governance is by a two-level structure.
- First level is made up of all the PO's members also known as the General Body. All
 major decisions are made at the General Body meeting either an Annual General
 Body Meeting (AGM)or Special meetings called for.
- Second level is made up of the leaders elected at the AGM.
 - These leaders or 'directors' form a management group, which is often called the board of directors.
- · Role for the Board of Directors should be clear
- Role of Management of the company and the Chief Executive
- · Having transparent and efficient systems and procedures and MIS
- Decision making is done by a committee of representatives of the Board and
- Diligent and efficient staff to carry out the directions of the decision making authority.

Who should be on the Board?

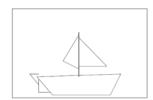
- Elected representatives from the members
- The "ideal" Board size is between seven to eleven
- Ideally the Board Members should have an inclusive composition including with representation from women
- The "ideal" tenure for a Board member is six to eight years, split into two terms of 3-4 years each.
- $\stackrel{\cdot}{\text{Members}}$ should have different specialisations including not directly the subject matter of the PO.
- External Experts can be inducted to the Board but they have no voting rights
- · New Board members must be systematically identified and one or two inducted
- New Board members must be given an orientation to the PO's mission, strategy, operations and history.
- Boards should annually appraise their own contribution to the PO.

A Good PO should have the following characteristics

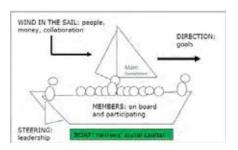
- · A well developed vision and mission goals and objectives
- Goal-oriented constitution that is understood by all members
- A vision of running the PO on clear business parameters making a it a good business for the members as well as the PO itself
- · Clear definition of responsibilities, both for leaders and members
- · Elections of group officials as per constitution
- · Democratic and transparent leadership
- · Set rules and procedures to control decision making
- Strategic planning
- Open two-way communication and feedback mechanisms
- · Regular meetings
- Proper record keeping and accountability procedures
- Effective conflict management procedures and capacities

Basic functioning and dynamics of a PO

A producers' organization is like a boat...



- The boat symbolizes the social capital of the organization, members have put some money together to undertake collective action (going by boat instead of swimming alone).
- Members are the passengers in the boat. The boat allows them to arrive together at destination instead of swimming alone
- · Elected leaders steer the boat.
- The mast of the sails symbolizes the constitution, as the backbone of the
- The sails are put up and positioned to go in the direction defined by the members and the leaders.
- Three types of resources determine the power of the wind and the speed of the boat: human resources, financial resources and collaboration with other stakeholders.



Ask yourself 'Boat' questions !!

- Are the farmers' organizations in your areas really the boat that brings farmers to their destination ?
- Who put up the sail and steer the boat?
- Is there a favourable wind for sailing the boat in your area?
- Did you encounter cases where parts of the boat are lacking? What happened?

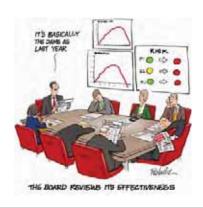
Producer Organization Governance Structure

- Board appoints full-time managers, as employees of the PO,
 - Manage the business and report back to the board on a regular basis.
 - Number of professional staff would depend on the volume of business, diversity of activities and geographical spread of the business operation.
- Main reasons why POs hire professional managers :
- Difficult for elected leaders to govern the PO, manage the business, and have time to manage their own private production.
- 2. Insufficient business and management skills and experience to manage the business effectively.
- Cutting down on bureaucracy Managing a business in a dynamic market requires quick decisions and a rapid response to changing conditions and new opportunities in the market.
 Professional managers with delegated independence can often manage the business more effectively

Producer Organization Governance Structure neral Body Meeting of Memb (Primary Producers) **Professional Managers** appointed by Board

Good Governance in POs: Role of the Board

- The PO Board is the body for its governance
- It must lay down the value framework and the vision of the PO
- The Board must articulate / re-validate the mission every 4-5 years (Mission Validation)
- The Board must ensure compliance with the mission in every review (Mission Compliance)
- The Board should lay down policy and work only through the CEO and not
- The Board must hold itself ultimately accountable



Some Good Governance Practices in POs

- The Board must meet at least once every 3-4 months, on dates prespecified well in advance.
- Attendance should be at least two-thirds of members
- A member who is absent, even with leave, for three consecutive meetings should step down
- The Board should seek detailed staff presentations / interaction at least once every alternate meeting
- The Board must meet part of the time in each meeting without the staff, and the CEO if needed
- The Board members should set some of the agenda

Professional staff and their relation with PO leadership and members

- Farmers as employers; delegation of executive tasks from farmers to staff members
- Separation of roles and functions between farmer leaders and personnel
- Redesign of organization chart and internal regulations and procedures

Main areas of responsibility of most Chief Executive Officer / Management

- Hiring, firing, and supervising the staff.
- Managing and evaluating programs and operations.
- Identifying, acquiring, and managing resources.
- Preparing an annual budget.
- Proposing policies and strategic initiatives to the board.
- · Communicating with stakeholders.
- Promoting the organization in the community.
- Supporting the board in its work.

Consequences for organisation chart and internal regulations and procedures



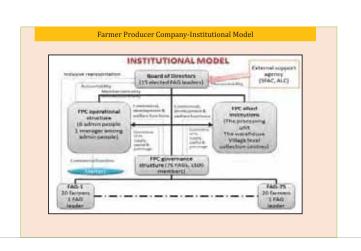


FPOs: Intermediaries between farmers and other stakeholders



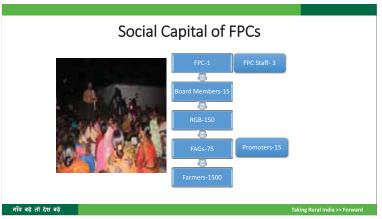
- A Producer Organisation brings together people and businesses into a collaborative venture. For many, working with other producers will be a new and often alien way of working.
- It involves aligned thinking, commitment to work with others and a joint approach to business.
- If a farmer is not prepared to collaborate and operate in this way, a Producer Organisation is not for them.

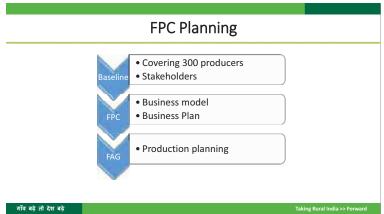
On behalf of its members, it organizes and regulates relations between members and other stakeholders in rural sectors and areas

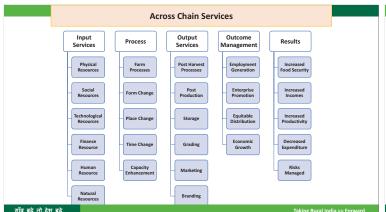


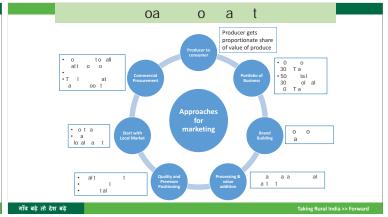
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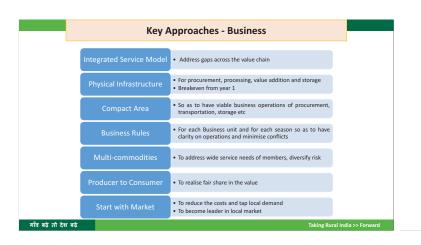
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Assessment of Financials of PCs – Special Care

- Price Differential should be treated as profit
- B/S profit does not reflect return on investment
- PC Not keen to accumulate profit => Reserves & Surplus : Creates problem
- Actual financials of PC should take into a/c
 - Book profit
 - Price Differential
 - Profit distributed at the time of lifting (at lifting price)
- Low Equity- D/E ratio can not be applied
- Return on investment is typically low
- \bullet Normal financial ratio need to be refined to be used for assessing financial heath of PC

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