IMPORTANT ISSUES TO BE FOCUSED BY HODs TO ATTAIN THE VISION OF STATE GOVERNMENT

Thiru.Sandeep Saxena, I.A.S.,
Agricultural Production Commissioner and
Principal Secretary to Government,
Agriculture Department

RAINFALL (mm)

Season	Normal	2011		2012		2013	
		Actuals	% Deviation	Actuals	% Deviation	Actuals	% Deviation
Winter	36.8	34.8	(-) 5.4	9.5	(-) 74.2	34.5	(-) 6.3
Summer	129.7	140.0	(+) 7.9	86.2	(-) 33.5	92.2	(-) 28.0
South West Monsoon	332.8	300.5	(-) 9.7	245.9	(-) 26.1	(*) 315.6	(+) 6.0
North East Monsoon	431.4	540.8	(+) 25.4	370.5	(-) 14.1		
Total	930.7	1016.1	(+) 9.2	712.1	(-) 23.5	(*) 442.3	(-) 0.5

(*) – upto 25.09.2013

Deficit/ Scanty rains in 7 districts (Dharmapuri, Dindigul, Madurai, Ramnathapuram, Trichy, Thoothukudi, Tirupur

All other districts received excess / normal rain

RESERVOIR POSITION (in TMC)

S. No.	Reservoir	Capacity at F.R.L. (TMC)	Last Year (26.09.2012)		Current Year (26.09.2013)	
			Storage	%	Storage	%
1	Mettur	93.470	41.292	44	73.083	78
2	Bhavanisagar	32.800	2.688	8	15.007	46
3	Amaravathi	4.047	0.754	19	2.510	62
4	Periyar	10.570	2.430	23	3.769	36
5	Vaigai	6.091	0.511	8	3.537	58
6	Papanasam	5.500	0.756	14	3.662	67
7	Manimuthar	5.511	0.468	8	0.987	18
8	Pechiparai	4.450	0.289	6	1.607	36
9	Perunchani	2.890	0.149	5	1.616	56
10	Krishnagiri	1.666	0.637	38	1.384	83
11	Sathanur	7.321	1.325	18	1.526	21
12	Sholayar	5.052	5.084	101	5.123	101
13	Parambikulam	13.408	6.301	47	13.353	100
14	Aliyar	3.864	1.573	41	3.857	100
15	Thirumurthy	1.744	1.014	58	0.989	57
	Total	**198.37**	**65.271**	**33**	**132.010**	**67**

All reservoir position comfortable compared with last year
4 reservoirs with less than 40% storage

PRODUCTION PROGRAMME 2013-14

- 2013-14 is witnessing **normal rain with good storage** position in all the dams
- **Food grain production aimed at 120 LMT**, oil seeds-15 LMT, cotton-4.20 L.Bales, Sugarcane-396 LMT of gur & Horticulture crops- 171.64 LMT
- **Micro level planning** at farmer level
- Program to **compensate the short fall during first season in the second** season
- Aim to **achieve all time high in productivity of all crops** keeping the highest productivity achieved in the village as a base
- **Bridging the yield gap** through technological interventions
- Program **to procure and distribute the inputs in time** by having calendar of operation besides selection of beneficiaries
- **Timely Implementation** of all schemes without missing the season

FOOD GRAIN MISSION

- **Yield gap assessment** and micro level cropping plan development for paddy, Millets and pulses
- **Sensitization of Food Grain Mission** Implementation to all field staff
- **Block, District and State level seminar** to identify and solve the issues esp. on Food Grain Production.
- Intensive Implementation of **Food grain Mission.**
- **Interventions** to **narrow down the yield gap** through Technology & Extension

FOOD GRAIN MISSION contd..

- **Reconciliation of Area coverage**
- **Full utilization of SSF** & **Seed plan** for **three scenarios of good, bad and normal seasonal** conditions
  - Proposal for comprehensive seed procurement programme including seed disposal programme as grains if not utilized
  - Seamless involvement of **Tamil Nadu Agricultural University** for **Certified seed production**
- Evolving **policy on production and utilization** of
  - Bio-fertilizers, Bio-control agents, Micro nutrient mixtures, regulators, growth enhancers,
  - Action to meet the **Agriculture Machinery requirement**
- **Post harvest** management including value addition

FOOD GRAIN MISSION-PADDY

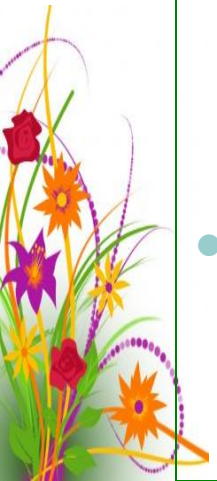
- Aim to **increase area coverage** in **II & III** seasons.
- Productivity improvement by ensuring **Quality seeds** through AECs, PACCS and Private outlets
- **Extending System of Rice Intensification** in 12.00 lakh Ha and **SRI whole village concept in 2000 villages** (1.90 L.ha).
- **Cluster demonstrations** on **Hybrid rice in 100 ha**
- **Bio-fertilisers & Micronutrients** for enhancing production

FOOD GRAIN MISSION – MILLETS

- Major millets – Cholam, Cumbu, Ragi and Maize
- Ensuring **availability of Hybrid / High Yielding Varieties of Millets** for increased production
- **Intensification of Millets cultivation on cluster approach** and exploring the possibility of exporting for better price realisation by farmers
- Popularization of **Precision Farming in Maize**.
- Productivity improvement through **Millet Boosters**
- Efforts to **bring additional area under millets** by effectively utilizing the water resources in newly dug farm ponds

FOOD GRAIN MISSION - PULSES

- Efforts to bring more area under **Rice Fallow pulses, bund crop and dibbling**
- Tapping the **ground water potential to cultivate pulse crop additionally** by effectively utilizing the water resources in newly dug farm ponds wherever possible.
- Irrigation at critical stages using **raingun and mobile sprinklers**
- Popularization of **Redgram transplantation** in 50000 ac. and implementation of **MI** in 10,000 acres
- SPI as a **whole village concept in 1695 villages** (1.00 L.ha).
- **Cluster demonstrations of pulses** in 100 ha / 1000 ha, productivity improvement through **PULSE WONDER**
- Focus to **improve productivity improvement in Rice fallow pulse through technology interventions**



Farm level Intervention & FCMS

- **Collection of FORM I database** & uploading (so far 46 Lakhs)
- **Collection of soil samples** (53.71 Lakhs), **analysis** (35 Lakhs) & **uploading** (7.12 Lakhs)
- Action to **reduce the gap between samples taken, analysis** and uploading
- **GIS mapping**
- Distribution of **FIHB (21.57 FIHBs)**

- **Server based advisories** to farmers
  - **Crop advisory, weather advisory, market advisory**
- **Uploading** the details of CCE plots in AGRISNET
- **Biometric observations** at critical crop growth stages & yield assessment- CCE & CIS villages & non CCE & CIS villages
- **Scheme benefit tracking system**

AGRICULTURE IN VISION TAMIL NADU 2023

Aim: to achieve 5% AAGR in agriculture by 2023

Objective:

- To achieve the best in class productivity in key agricultural produces and
- To be a global supplier with robust infrastructure

Strategic Initiatives

- Improving productivity
- Timely provision of quality inputs
- Improving soil health
- Promotion of Organic Farming
- Farm Mechanization for seed to seed agricultural operations
- Increasing Water Use Efficiency through MI
- Empowering farmers in Farm Level Planning through effective extension and market information

PROJECTS PROPOSED IN VISION 2023

- **Agriculture & allied total – Rs.80150 Crores**
- Infrastructure setup for Seed supply chain in Government Farms and Research Stations – Rs.2000 Crores
- Soil quality improvement and Waste land rehabilitation – Rs.2000 Crores
- Strengthening SSFs/ SHFs as Demonstration Farms – Rs.2000 Crores.
- Horti Development Programmes – Rs.400 Crores
- Propagation of MI and Mechanization – Rs.20000 Crores each
- Integrated Market development and Post harvest supply chain – Rs.20000 Crores
- Infrastructure support for Agro Food processing industries – Rs.5000 Crores
- Dairying, Poultry and Fish processing – Rs.8750 Crores

PROJECTS PROPOSED IN VISION 2023

Irrigation Projects total – Rs.41250 Cr

- Rehabilitation of tanks and wells – Rs.22500 Cr
- Infra to conserve NE monsoon drainage water, Coastal zone and Cauvery Delta Irrigation Development Plan – Rs.3000 Cr
- Lining of major canals – Rs.5000 Cr
- Dam rehabilitation and improvement project – Rs.750 Cr
- Interlinking of rivers – Rs.10000 Cr

Total Agriculture + Irrigation – Rs.1,21,400 Cr

ANNOUNCEMENTS

- **Massive promotion of Traditional Agro Products**
- **Food Grain Mission** to bring paradigm shift from food security to food surplus
- **Red gram transplantation** in 50,000 acres and provision of drip in 10,000 acres: Rs.55.60 crores
- Bringing **Fallow land back to Agriculture** in 12,500 acres: Land and water resources development and provision of critical inputs: Rs.7.2 crores
- Promotion of **Solar powered pumping system** linked MI system-Rs.80 Crs
- Creation of **Special Purpose Vehicle** to ensure timely supply of quality inputs and time bound implementation of MI scheme with effective monitoring
- **Whole Village saturation approaches** to promote IFS

Announcements Contd…

- Creation of **Centre of Excellence** for millets
- **Invigorating extension** mechanism and reorient extension from area centric to farm centric by use of ICT tools: Virtual extension in AEC and Panchayats through crop specific “Know All Software’ Rs.10.50 crores
- **Farmers Facilitation Centre** in 50 blocks and 5 district **Horticulture Technology Resource Centre:** Rs.28.25 crores
- Production of **accredited quality horticulture planting material in SHF** and supply to farmers-Rs.15 Crs
- **Peri metro vegetable production** to ensure better price to farmers
- **Do-it-Yourself-kit** to encourage roof-top-cultivation of vegetables in Chennai and Coimbatore.

Announcements Contd…

- **Creation of Hub and Spoke Model** with cold storage, auction hall and value addition facilities to improve production of selected horticulture commodities and better price realization by farmers
- Facilities for **aggregation warehousing and auctioning on *e platform*** for longer shelf life agricultural produces and linking with bulk buyers : Rs.15 crores
- Improving **physical and marketing infrastructure** in selected rural shandais: Rs.10.20 crores
- **Food processing incubation centres** at Srirangam – 2.20 Crs

Identification of Traditional Agricultural Heritage Systems

State focus

- **To Increase farmers' income** - aim of the **Second Green Revolution** being implemented as decided by the **Hon'ble Chief Minister.**
- to identify traditional Agricultural Heritage System to promote public understanding, awareness and making our heritage system to be recognised at national and international level.
- to safeguard the social, cultural, economic and environmental goods and services of family farmers, smallholders, indigenous peoples and local communities
- The initiative fosters an integrated approach combining sustainable agriculture and rural development.
- Encourages farmers to preserve the unique systems and excel further while reaping the Market benefits due to increased consumer awareness while bringing international fame to the state of Tamil Nadu.
- Geographical Indication (GI), also give the exclusivity required to create a niche in national and international markets.

Identification of Traditional Agricultural Heritage Systems contd...

- FAO in 2002 initiated dynamic conservation of GIAHS to safeguard and support the world's agricultural heritage systems
  - Examples:
    - **Mountain rice terrace agro-ecosystems-**Mananara in Madagascar; Ifugao rice terraces in the Philippines
    - **Tribal agricultural heritage systems-**Darjeeling system in the Himalayas
    - **High-value crop and spice systems-**Saffron systems in Iran, Afghanistan and Kashmir (India).
    - Tamil Nadu has so many agriculture heritage systems which are globally important.

Proposed Traditional Agricultural Heritage Systems in Tamil Nadu	
Cauvery Delta System	**Tamirabarani Irrigation system**
Parambikulam Aliyar Basin	**Nilgris Tea Plantation**
Pollachi Coconut	**Kolli Hills for Medicinal plants**
Panagudi Palmyrah	**Minor millets heritage of Kalrayan hills**
Shervaroyan Coffee	**Kumbakonam betel**

- Identification by Department before 10.10.2013
- Proposal to Government by 31.10.2013

Policy for Youth in Agriculture

- *To prevent mass migration of rural youth from villages*
- **Youth-centric approach-** One of the *Governments' initiatives* to usher in ***Second Green Revolution*** *through* **Empowering Rural Youth Groups** -
  - Educational reforms-Diploma in Agriculture
  - Operation and maintenance of farm machinery
  - Seed to seed agricultural operations
  - Value addition at farm gate for better realisation
  - Rural agro enterprises
  - Integrated Farming System

SUSTENANCE IN AGRICULTURE THROUGH FAMILY BASED FARMING SYSTEM

- Attaining the goal of **Second Green Revolution** in Tamil Nadu by **involving women in Agriculture**
- Tamil Nadu Agricultural operations predominantly by women
- For Empowering women, **Horticultural College & Res Institute for women established at Trichy in 2011**
- Focus to **train farm women labourers** on latest agricultural operations
- Focus to **Revive the existing TANWABE Groups** in all agricultural operations and entrepreneurial activities
- The year 2014 declared as the **International Year of Family Farming** by UN General Assembly
  - to stimulate active policies for sustainable development of agricultural systems based farmer families, communal units, indigenous groups, cooperatives and fishing families.

OTHER ISSUES OF IMPORTANCE

- Action taken on **reclamation of fallow lands** – Project proposals invited from HODs to utilise the ADB funds
- Action taken to **finalize the fixed village visit at block level** as per the announcement on “Invigorating Extension”
- Massive Production of **Green manure seeds**
- Ensuring **judicious use of water** through MI under SSI, PF in maize & horticulture crops, raingun & mobile sprinklers for pulses
- Action to **install 2000 Solar pumps** & **integration with MI**- How to make it successful?
- 70,000 Farm Ponds- **Selection of beneficiaries**, execution of work by MGNREGS & Agriculture Engineering Dept
  - Action to **complete before October** end
  - Action Plan to **bring additional area**

OTHER ISSUES OF IMPORTANCE contd.,

- Identification of **lead crops** for each locality
  - **Formation of clusters/ FPOs/ FPC**
  - One **Agro processing zone** for each of the lead crops
  - One **PPP model for marketing** through **cluster**
- Model of **Agro machinery service** with Government support
- Linkage of **farmer preferred agriculture machinery** requirement & fulfilling through subsidized schemes as followed in Odisha
- **Up scaling of precision farming**
- Promotion of **export of maize, jasmine, import of oil palm sprouts** & acquiring **hi-tech technology in cultivation of vegetables and flowers** from Malaysia
- Repairing of AECs and **Quarters** of AAOs and AOs under Part I for 2014-15

THANKS