







# **Department of Agriculture**

Govt. of Goa

# **RAY OF HOPE FOR GOAN YOUTH IN AGRICULTURE**

## Department of Agriculture supports your Efforts through Schemes as -

- 75-100% Subsidy for Covered Cultivation in Polyhouse, Shadenet House for crops such as Hybrid/Exotic Vegetables, Flower crops as Gerbera, Orchid etc with irrigation network and technical guidance through experts.
- 75-90% Subsidy under Mechanization for purchase of Manual / Power drawn Machinery as Tractor, Minitractor, Weed Cutter, Arecanut Peeler, Power Sprayer, Coconut Climber etc for economical and easy agriculture operations.
- 50-90% Subsidy creation of Irrigation infrastructure such as Well, Pump, Pipeline, Sprinkler / Drip Irrigation to meet water requirements of plants and increase productivity.
- 75-90% Subsidy for construction of fencing with Barbed wire / Wire Mesh, Stonewall/Rubble wall, Solar power Battery Fencing to protect farmers crops.
- Assistance for cultivation of Hybrid / Dwarf Coconut.
- 75% subsidy for cultivation of Horticulture Crops as Mango, Cashew, Spices Coconut based crops as Banana, Pineapple etc, & and for clearing of weeds/bushes to take up scientific cultivation for sustainable growth of Agriculture.
- Assured Price for major agriculture crop like Coconut, Arecanut, Cashewnut, Paddy, Sugarcane and Alsando to assure farmer of his income / profits.
- Assistance for Revival of Khazan Lands by construction of protection walls / embankments
- Assistance for farmers through "Shetkari Adhar Nidhi" during crop loss due to natural calamity to maintain his faith in Agriculture.
- Skill Development Training for two months for youth to learn operation of Agriculture machinery and acquire other skills and stipend of `4,000/- per month.
- Various training and tour programs for youth.

"it's a call for your youth from matter carth

The Zonal Agricultural Officer of your taluka Contact for further details: Released by:

DEPARTMENT OF AGRICULTURE Government of Goa Krishi Bhavan, Tonca, Caranzalem, Goa. PH. 0832-2465443 FAX - 0832-2465441 E-mail: dir-agri.goa@nic.in









# **Agriculture in Goa** – An overview

With agriculture being one of the major economic activities of the people of the State of Goa, contributing about 6% to the State Domestic Product, the state directorate of agriculture has made major strides in increasing the agro-cover in the state. There are about 16.6% people engaged in the agriculture activities. Agriculture is gaining momentum in the State of Goa because farmers who neglected their profession are shifting over to the sector. The total area reported to be available for utilization in the State is 3,61,113 ha of which total cropped area is 1,57,702 ha as per 2014-15 reports. Out of the total cropped area, 50,523 ha comprising of 32.04% is under foodgrain crops, 1,03,258 ha comprising of 65.48% is under horticultural crops and 3,921 ha comprising of 2.48% under crops like sugarcane and oilseeds (groundnut). The net area sown is 129243 ha. About 28,459 ha cropped area is sown more than once. The total irrigated area is about 38,800 ha.

The state agriculture department has provided the necessary fillip to farmere by introduction of new schemes in this sector to attract the younger generation towards agriculture.

The efforts have yielded the desired results. The paddy cultivation has increased from the earlier 3300 kg per hectare to 4400 kg per hectare this year. The state has also achieved the highest production of chilli. The state government sold 17 tonnes of chilli to Belgavi this year.

The self help groups in the state were motivated to produce local vegetables and the initiative has yielded fruits. They sold 410 tonnes of vegetables to the Goa State Horticulture Corporation this year, while also selling the surplus produce on their own along the roadsides. Last year, the production of vegetables stood at 318 tonnes, which has increased by 100 tonnes this year.

The efforts of the State Government have been appreciated by Government of India and the State has been award prestigious "KRISHI KARMANYE AWARD" for higher productivity in pulses oilseeds and cereal crops.

# AWARD FROM GOVT. OF INDIA UNDER TOTAL FOOD GRAINS CATEGORY

The state of Goa has been selected for commendation Award under total food grains category 2014-15.

I would like to congradulate you and all the officials of the agriculture department of your state for supporting the farmers in achieving this milestone.

The award consists of a citation and cash amount of Rs. 1.00 crore.





# SOME MAJOR COMPONANTS COVERED

#### **MECHANIZATION IN AGRICULTURE**

The manpower in Goa is scarce and expensive. This invites use of machinery for various operations. Subsidy at the rate of 50% of the standard hire charges per hour is provided to the farmers at source for tractor, power tiller, mini tractor for cultivation of paddy and combine harvester for harvesting of paddy, pulses, groundnut and sugarcane. 75% to 90% subsidy is provided on cost of machinery to different categories of farmers, individual or registered groups, societies and NGO's for purchase of agriculture machineries such as Tractor, Power Tiller and other equipments.



# SYSTEM OF RICE INTENSIFICATION



In order to increase the productivity and reduce input usage and cost under Paddy cultivation, the System of Rice Intensification (SRI) has been implemented in the State of Goa. It is also environment friendly and given added capacity to tolerate moderate periods of breaks in monsoon rains in this era of climate change. The incentives are provided to the cultivators @ Rs. 10000/- per ha. During 2014-15, 151.93 ha area was covered under SRI cultivations with an expenditure of Rs. 14.72 lakhs. During 2015-16 it is proposed to cover an area of 500 ha.

# SCHOOL AGRICULTURE EDUCATION

In order to orient and train the students and teachers in basic agriculture practices, the visits are organized at various Government Farms of this Directorate. Department is procuring input such as farm implements, equipments, seeds and other basic requirements to impart practical training to school children visiting Government Farms.So far, 2554 students and teachers have visited the Farms at Margao, Mapusa, Ela Old Goa and Codar Ponda.





#### **CULTIVATION OF HYBRID COCONUT**

In order to overcome the problem of shortage of coconut pluckers in the State, the cultivation of hybrid varieties of Coconut such as DxT and TxD are promoted with assistance from Coconut Development Board. During 2015-16, 3500 hybrid coconut seedlings have been distributed till date.



## KRISHI CARD -THE E-GATEWAY FOR FARMERS

In 2013, the start government introduced "Krishi Card", a digital card that serves as a gateway for farmers to avail benefits like subsidies and loans given by the state government.

The introduction of the digitally coded card, conceptualised by the Stateowned Goa Electronic Ltd. (GEL), will spare the farmers from repeatedly producing their documents, and

affidavits to avail themselves of subsidies. The card will also makes farmers eligible for the loan depending on their land holding.

The Krishi Card will introduce a mechanism to identify all Goan farmers and maintain a history of their land holdings, assets and subsidies availed.Under the Krishi Card, a unique card number will act as a token to retrieve the history of a farmer, online. Biometric identification and verification of the farmer's Smart Card would be available at various zonal agricultural offices to facilitate reading and updating the details.

In an effort to monitor and deliver its services efficiently to the farmers, a complete technology based system of Krishi Card has been developed by this Directorate. All the details pertaining to the farmers such as name, address, property details, land details, photo and finger prints are entered in the Card. The project has been launched in collaboration with Goa Electronics Limited (GEL), the firm that has helped launch most of the state's e-services.

Presently, the department has implemented the e-Krishi service for support price applications for paddy, coconut, sugarcane and arecanut among others. Gradually, every scheme of the department will be brought under the e-Krishi umbrella. Approvals and sanctions up to the level of the director will be given online. The new initiative will also allow agricultural officers more time to carry out inspections. For instance, they will now find time to verify if a well has really been dug, if bills correspond to the purchases made, if pumps have really been installed, etc, without having to prepare bulky paper reports anymore.

# **E-GOVERNANCE – EVERYTHING YOU NEED IS JUST A CLICK AWAY.**

The recent launch of the revamped website of the directorate of agriculture www.agri.goa.gov.in under the Digital India initiative ushered in a digital era for the agro community in Goa.

Besides gaining access to vital information, the website allows farmers to apply for Krishi Card online and also claim subsidies by submitting their applications by the mere click of a button.

For grievances and/or difficulties in accessing the same through online mode, farmers can also call the toll free 'Kisan call number' 1800-180-1551 for any technical or scheme related information.

Additional benefits of the website include faster processing of the applications, status updates, transparent process, creation of centralized repository of farmers, identifications of beneficiaries across all the schemes, easy access to data and more.Computerization of information will also enable the department to identify duplicate beneficiaries.

Ushering the state's farmers into the modern world of e-governance, the Goa agriculture department has launched the e-Krishi service for the speedier sanctions of agricultural subsidies, and other related schemes to Goan farmers.

Earlier, the department accepted applications only in hard copy from farmers for any scheme of subsidy. But now, it has registered all of the 22,000-odd farmers in the state and provided each one with a Krishi card. Embedded on these cards are electronic chips which contain all information about the farmer and his land holdings.

So, anytime a farmer wants to apply for assistance or a subsidy from the government, he does not have to produce all the documents of land ownership and other related details. He only has to give the card number, the name of the scheme and produce the bills of the purchases he made for which subsidy is required. This information will be uploaded and provided to a 'Kissanmitra' designated to visit village panchayat offices to assist farmers. Computer-savvy farmers will be able to track the status of their applications online.



### LAUNCHING OF NEW DISTRICT AGRICULTURE OFFICE NORTH AND SOUTH

Agriculture is one of the major activity of the rural people of the state, and for sustainable development of village economy through Agricultural activities need was felt to have a District level office set up. The department was functioning incentralisedmanner which was resulting in inordinate delay in responding to the claims of farmers. To address this District level offices were set up as a part of reorganisation of the department which will attend to the claims of the farmers at District level up to certain financial limits.



Inauguration of District Agriculture office South

# मोय सरकार मोय सरकार शिलकी संचालननाल्नय क्षिण गोय जिल्लो शेतकी कार्यालय, मडगांव - गोर Government of goa Di CTORATE OF AGRICULT SOUTH DISTRICT AGRICULTURAL OFFICE, NU - 0.00A

### Agriculture Technology Management Agency (ATMA) – A Helping Hand for Farmers

In a bid to impart scientific training to farmers, the state government has set up the State Agricultural Management and Extension Training Institute and Agricultural Technology Management Agency (ATMA).

SAMETI-Goa is a state level training institute established to impart training and has been set up under the centrally sponsored scheme for support to state extension programmes. SAMETI-Goa will function as the nodal state level training institute in



District Farmers advisory committee meeting in progress to discuss about various programme under ATMA

the area of agricultural management and will provide capacity building support.

Apart from this, consultancy services in the areas like project planning, appraisal, implementation, monitoring and evaluation will be offered to farmers. ATMA is a district level agency established to disseminate agricultural technologies to the farmers to help equip them with modern farming technology.

The objectives of ATMA are as follows:

- 1. Providing innovative, restructured and autonomous institutions at the State/District/Block Level.
- 2. Encouraging multi agency extension strategies involving public private extension service providers
- 3. Encouraging an integrated broad based extension delivery mechanism consistent with farming system approach with a focus on bottom up planning process.
- 4. Adopting group approach to extension in line with the identified needs and requirements of the farmers in the form of CIG's & FIG's and consolidate them as Farmer's Producer Organisation.
- 5. Facilitating convergence of farmer centric programmes in planning execution and implementation.
- 6. Addressing gender concerns by mobilizing farm women into groups and providing training to them.

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# New schemes introduced by the State Government for Agriculture Sector since2012 till date.

#### 2012-13

- 1) 100% Assistance for construction of Green House/Poly House.
- 2) Special Programme for promotion of groundnut cultivation.
- 3) Special assistance for maintenance of tractors for providing custom services.

#### 2013-14

- 1) Incentive to promote system of Rice Intensification (SRI) cultivation.
- 2) Assistance for productivity Improvement in Cashew.
- 3) Survey of Fallow Land.
- 4) Promotion of Bee keeping for honey production.

#### 2014-16

- 1) Contingency Plan 2015-16.
- 2) Revitalization of khazan paddy cultivation with free distribution of seed
- 3) Maintenance of retaining wall.
- 4) Hybrid Coconut Cultivation.
- 5) One time assistance for cleaning of Weeds and Shrubs for taking up scientific plantation

#### Major Achievements and Initiatives during the period 2012-2016

- Schedule Tribe Welfare Schemes including Agriculture schemes awareness programmes were conducted in ST predominant areas of Canacona, Sanguem, Ponda, Quepem, Dharbandora, Bicholim, Valpoi, Mormugao/Salcete wherein about 10000 Nos ST farmers actively participated. Lokotsav2016, was held at Amona, KhotigaoCanacona, where Agriculture exhibition, Competitions, Technical demonstrations and Cultural programmes were conducted by ST inhabitants including farmers.
- Krishi Mela's were conducted at Sakhali, Pernem, Valpoi and Mapusawherein about 2500 farmers participated Exhibition, various demonstrations and technical sessions were organised.
- The review meeting of RKVY were conducted periodically to review the progress of ongoing and new projects.
- During the month of January 2016, "World Soil Day" was held at Krishi Bhavan, Tonca, Caranzalem–Goa, which was attended by Hon'ble Chief Minister and about 200 farmers.
- Gos Agriculture Expo was organized by State Agricultural Management and Extension Training Institute (SAMETI – Goa) at Ravindra Bhavan, Margao – Goa. About 10000 farmers visited the exhibition.
- State Level Conference on "Value addition in Agriculture for better marketing" was organised by this Directorate at Ravindra Bhavan, Margao, wherein about 900 Agri-entrepreneurs participated.
- Attended 87th Annual General Meeting of the ICAR at ASC Complex, New Delhi.
- The State Government has been awarded Commendation Award under total Foodgrains-Category III of Krishi Karman Award 2014-15 at the hands of Hon'ble Prime Minister of India during the Krishi UnnatiMela held at New Delhi on 19th March, 2016. The Hon'ble Minister for Agriculture, Secretary (Agri.) and Director of Agriculture received the Award. The Award consists of citation and cash amount of Rs. 1.00 crore.

#### Establishment of Centre of excellence in Floriculture/Olericulture

It has been decided to establish a Centre of Excellence in Flowers/Vegetables at the Government Farm at Kalay, Sanguem with assistance from Government of India for demonstrations purpose.

# EXHIBITION, SEMINARS, KRISHI MELA'S, CONFERENCE FOR FARMERS.

SAMETI under ATMA project organised 3 days exhibition at Ravindra Bhavan Margao from 15<sup>th</sup> January to 17<sup>th</sup> January 2016 . more than 50 stalls from agriculture related products were on display. More than 5000 farmers took the advantage of the exhibition.



Agri-Expo 2016 exhibition held at Ravindra Bhavan Margaowith various stalls on display

#### VALUE ADDITION IN AGRICULTURE FOR BETTER MARKETING AND ECONOMY



Hon. Chief Minister Shri LaxmikantParsekar Greeting Hon. Union Minister of state Shri. Mohanbhai Kundaria in presence of Hon. Agriculture Minister Shri. Ramesh Tawadkar.

1200 delegates from all the parts of state attended conference on Value addition on 13<sup>th</sup> February 2016. The value addition conference was inaugurated by Hon, Chief Minister Shri. LaxmikantParsekar in presence of Hon.Union Minister of State for Agriculture Shri.MohanbhaiKundaria and Hon. Agriculture Minister Shri Ramesh Tawadkar. Different value added products were displayed and talks were given by various faculties on value addition.



Mechanical Harvesting in Paddy has helped the paddy cultivators in time and money saving due to labour shortage and high wages. More than 80% of paddy fields are harvested mechanically with 50% subsidy on custom services. Department has promoted purchase of such machines by local farmer groups and NGO's at upto 75% subsidy

Inauguration of Paddy Harvesting with Combines at Mandrem – Pernem by Hon'ble Chief Minister of Goa Shri Laxmikant Y. Parsekar.

Soil Conservation division of the department looking after the works of maintenance and repairs of notified Protective bunds and sluice gates in the entire state along KhazanLands . In year 2012-13 to 2015-16 about 45 kms of bunds are protected by way of remodelling with an expenditure of about 20.3 crores. In addition to repair and maintenance of existing bunds was done there by protecting an area of about 6000 ha from saline inundation.



Inauguration of Soil Conservation Structures as Protection wall and Sluice Gate at Mayem at the hands of Honble Agriculture Minister Shri Ramesh Tawadkar in presence of Honble Speaker of Assembly Shri. AnantShet.



**Mango**, the national fruit has a lot of importance in Goa. In addition to prominent varieties of Mango there are more then 100 varieties are being cultivated all over the state. In order to display all these varieties on one platform Mango shows are organized periodically. One such Mango show was





Inauguration of mango Show byHonble Agriculture Minister Shri Ramesh Tawadkar in presence of Honble MLA Panaji Shri. Siddharth Kunkolincar which was attended by large nos of farmers



Visit of Defence Minister Shri.Manohar Parrikar, Chief Minister Shri. Laxmikant Parsekar and Agriculture Minister Shri. Ramesh tawadkar to Polyhouses in Canacona



Official visit of Union Secretary For Agriculture Shri. Shriraj Hussain to Goa State.



Demonstration of grafting techniques to School Children





Home science trainings to Womens for skill devlopment Quality planting material produced on Government farms



Goa State Horticulture Corporation has been helping Goan farmers for producing and marketing of their Agriculture produce.

Chairman of Goa State Horticulture corporation Ltd; Shri. Kiran Kandolkar inauguarating Solar Power Cold Storage Mobile Cart. –Totally 13 such Mobile Carts have been Comissioned in Goa.



Farmers queued at the procurement centre of GSHCL with their produce. During the year 2015-16

Goa State Horticulture Corporation Limited procured and sold 25Tonnes of vegetables outside Goa.

At Balli, Quepem





At Pernem

#### STATEMENT SHOWING BUDGET PROVISION AND EXPENDITURE INCURRED FROM 2006-2007 TO 2016-2017 TOWARDS PLAN

Year	Total Budget Provision	Budget Provision (Plan)	Expenditure (Plan)	Expenditure % (Plan)
2006-07	2795.18	1921.15	1687.86	87.86
2007-08	2831.41	1931.41	1887.00	97.70
2008-09	3963.01	2666.01	1981.50	74.32
2009-10	4297.22	2700.07	2511.12	93.00
2010-11	6657.97	5157.97	4340.15	84.14
2011-12	10204.50	8454.50	7349.20	86.93
2012-13	10147.00	8234.00	6572.45	79.82
2013-14	16933.43	14742.48	10770.49	73.06
2014-15	17292.82	14986.32	8648.61	57.71
2015-16	19588.93	17154.18	11657.99	67.96
2016-17	23024.12	20305.67	-	

#### STATEMENT SHOWING YEAR-WISE SUBSIDIES FROM 2007-08 TO 2015-16 TOWARDS PLAN

		ř.		(Rs in lakhs)		
Year	Total Budget Provision	Total Expenditure	Subsidies	% Share of Subsidies of Tota Expenditure		
2007-08	2831.41	2755.36	844.96	30.67		
2008-09	3963.01	3161.79	1015.53	32.12		
2009-10	4297.22	4087.74	1177.64	28.81		
2010-11	6657.97	5819.00	1997.82	34.33		
2011-12	10204.50	9018.64	2930.12	32.49		
2012-13	10147.00	8394.21	4688.09	55.85		
2013-14	16933.43	12704.80	6616.04	52.08		
2014-15	17292.82	10698.48	5688.24	53.17		
2015-16	19588.93	13885.68	7945.40	57.22		

#### SHARE OF AGRICULTURE IN THE STATE BUDGET FROM 2012-13 TO 2016-17

		(Rs i	in lakhs)	
Year	State Budget	Agriculture Budget	%	
2012-13	954927.04	10147.00	1.06	
2013-14	1005323.95	16933.43	1.68	
2014-15	1052644.56	17292.82	1.64	
2015-16	1333144.46	19588.93	1.47	
2016-17	1469417.45	23024.12	1.57	

#### PROGRESS REPORT (FINANCIAL) UNDER VARIOUS SCHEMES OF THE DEPARTMENT OF AGRICULTURE

Sr. No.	Name of the Scheme/Programmes	2012-13	2013-14	2014-15	2015-16
1	2	3	4	5	6
1	Assistance for HYV & certified seeds	71.05	52.88	90.40	64.05
2	Programme for promotion of groundnut cultivation	25.25	15.88	22.00	23.98
(a)	Assistance for Fencing (barbed wire/Syn.Chainlink /stone wall/ line fence/wire mesh/G.I. wire)	60.15	76.10	224.97	73.93
b)	Solar Power Fencing 90% (to all categories of farmer)	103.90	180.23	116.78	252.11
	Distribution of Minikits	0.2	0.97	2.15	1.4
	Promotion of System of Rice Intensification (Demonstration)		2.40	14.72	21.35
	Establishment of sugarcane seed farm			15.62	13.8
7	Revitalization of Khazan Paddy cultivation				0.85
8	Interest subsidy on loans for Agriculture & Allied Activities	-	60.25	45.15	83.32
9	Productivity improvement for Oil Palm planatation (RKVY)			1.68	58.51
0	Assistance for land levelling	-		0.75	
_	100% Seed Treatment		2.97	4.86	5.13
2	Assistance for biopesticides/ fungicides etc.	14.70	18.18	11.95	12.95
3	Custom Services (Tractor, Power Tiller, Combine Harvestor)	238.35	264.28	182.53	251.16
	Assistance for purchase of Agriculture Machinery & Equipment (75% Subsidy)	439.45	652.27	777.15	1150.20
5	Special assistances for maintenance of tractors			17.00	0.71
	Study Tours within & outside the State.	-		2.60	1.1
	State Level awards to farmers	3.75	3.83	4.38	3.5
_	Krishi Melas	-	3.04		12.80
-	Issue Krishi Card	-	31.00	57.64	16.74
	Support for Education in Agriculture	13.55	7.00	10.14	0.6
1	Training in Agriculture & Home Science			4.99	3.13
	Advertisement and Publicity	18.00	16.27	9.05	18.64
	Assistance for construction of biogas plant	-	9.66	8.35	17.55
	Assistance for soil conditionar and micronutrients (under RKVY)	-	3.79	1.40	2.4
5	Assistance for Organic manure units		2.30	0.10	2.42
	Assistance for vermi compost unit		0.07	0.86	1.39
	Assistance for creation of Irrigation				
	(i) Installation of water Pumpset (50% - 90%)	17.46	34.62	34.85	42.74
	(ii) Installation of Sprinkler/ Drip Irrigation	15.94	38.56	39.06	62.59
	(iii) Installation of Water conveying pipeline	2.64	8.72	1.18	5.21
	(iv) Construction of Water Storage Ponds	15.59	7.20	2.94	7.11
8	Area Expansion for Banana/ Pineapple	16.21	17.81	2.24	7.03
	Assistance for Vegetables Seed	55.73		6.06	8.01
	Assistance for cultivation of coconut( Hybrid)				4.13
	Coconut Area Expansion	2.49		0.54	3.75
	Assistance for productivity in coconut garden		49.34	36.28	53.46
3	Productivity improvement in cashewnut and Coconut(under RKVY)	-	312.68	147.00	299.62
4	Assistance for cultivation of flowers	-	1.19	0.90	0.65
	Assistance for cultivation of fruits/spices	-	45.70	8.59	27.18
-	Vegetable Initiative in Urban Clusters	-	23.60	34.43	10.00
_	Assistance for distribution of fruit plants for homestead garden			24.81	13.26
-	75% subsidy on purchase of Agriculture inputs to SC farmers	1.70	1.20	2.95	19.34
	75% subsidy on purchase of Agriculture inputs to ST farmers	627.99	101	440.94	2139
-	Financial Assistance under Shetkari Adhar Nidhi	45.08	64.38	15.06	40.63
_	Assistance for construction of Jalkund.	39.94	24.14	26.91	8.53
-	Support Price and Crop Compensation				5.00
	i) Paddy	817.13	418.60	108.64	532.06
	ii) Sugarcane	610.14	374.98	242.94	813.88
	iii) Coconut	496.60	750.17	93.32	185.35
	iv) Arecanut	11.81	179.57	90.62	57.53
	v) Alsando	1.67	0.16	0.43	0.16
	vi) Cashewnut	165.16	489.13	85.50	107.42
	vii) Oil Palm	48.08	42.80	6.73	68.38
3	Assistance for protected cultivation of for growing flowers/vegetables in Polyhouse	19.86	42.89	202.00	395.77
1		7.82	59.85	5 10	107 22
4	Subsidy for Digging Well			5.10	107.33
5	Repair and Maintenance of notified bunds	41.03	35.29	39.76	37.83
6	Revitalisation of Small Water Bodies upto 500 m <sup>2</sup> size	11.50	24.70	4.44	3.76
7	Land Development (Terracing, bunding, leveling)	-	9.27	3.51	4.45
8	Bank Stabilization	3.20	7.15	1.16	10.60

# AGRICULTURE ACTIVITIES IN CANACONA

Krishi Mahotsav held at Amona, Khotigao was inaugurated by Shri. Manohar Parrikar, Shri Ramesh Tawadkar and other dignatories. The krishi Melavas are organised pre rabi and pre kharif season to educate the farmers about the government schemes and also displays various agricultural stalls which facilitates the farmers needs at the doorstep.



Hon Minister seen distributing coconut sapling to the rural household. Every year about 1000 families are covered in each constituency under this scheme of homestead garden. These trees also help in rural employment generation on small scale.



Vegetable cultivation is a major thrust area undertaken in Canacona. From very scattered commercial vegetable cultivation in 2012-13 to systematic plantation now has made great achievement. The farmers taking vegetable cultivation has risen to 60 ha. Presently around 97 self help groups and more then 180 individual farmers taking up vegetable cultivation on commercial basis.



Panchayat level camps were organized to educate farmers in new technology. All the villages from Canacona taluka were covered in single day. Officers from all over the state were pulled to conduct the meetings in 35 places on same day and was appreciated by the farmers.



Power fencing and drip irrigation has helped to increase the yield and income of the farmers



 $Hon.\,Minister\,\,Shri.\,Ramesh\,Tawadkar\,addressing\,Village\,level\,meetings\,for\,promotion\,of\,floriculture\,in\,the\,Taluka.$ 



Hon. MP Shri. Narendra Sawaikar inspecting the village level works in Sansad Adarsh Gram at Khola



Western ghat area of Caanacona faces the challange of wild animals to take up agriculture activities .Community based battery power fencing was commissioned and inaugurated by the Hon. Agriculture Minister Shri. Ramesh Tawadkar to meet the challenges.



Polyhouse cultivation is a new mantra in commercial agriculture. The farmers of Canacona have taken a long lead in this aspect. Playhouses with Orchid cultivation is initiated in about 4 ha area. In addition about 1 ha area is under gerbera and about 1 ha area is under vegetable cultivation till date. This initiative with strong support has also helped the tourist activities in the region



Shri B.B. Thombare Krishi Ratna Awardee from Osmanabad ,Maharashtra addressing the farmers from Canacona taluka . Shri Thombre a renouned agriculturist, Managing Director and Chairman of Various Agro-industries visited Goa and addressed farmers of Cancona on the special request of the Hon, Agriculture Minister Shri Ramesh Tawadkar



With introduction of new techniques in agriculture many farmers are getting higher yields and better returns hence many youths have started taking interest in agriculture. In recent times Vermi - composting is picking up and heading Cancona taluka towards organic farming. More than 500 farmers have started Vermicompost units.



Quality vegetables and fruits grown and made available to the villagers by the farmers from Canacona Zone



### Success story coverage on local newspaper



Chilli farmer Gautam Kamat's modern methods of cultivation and several youth of Canacona who are setting up polyhouses deserve a mention for initiative in agriculture, reports **Albert Fernandes** 

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a lammed in dilicrop be used the later endergrades. For the first time Goa has witnessed a surplus of green chillies so that the Goa State Horticulture Corporation (GSHC) exported around 14 tons of the produce to the Belagavi market. A hybrid variety of chill Nisha' is responsible for the bumper chilli crop. Canacona aeds is production in Goa. The agriculture department gives support to farmers in the form of hybrid seeds, fertilizers and other materials to the extent of 33,000 per hectare. The current support price on chilli is Rs 27 per kg for areen chillies. The agriculture department also gives marketing support through 17 collection centres. Farmers bring their produce to these centres and the corporation then distributes to its over 800 sales stalls all over Goa. The surplus chillies are sent to Belagavi every other day.

Hon Minister for Agriculture Shri. Ramesh Tawadkar sowing the seeds of sucess



investor's

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# **AGRICULTURE ACTIVITIES IN SANGUEM**

Krishi ratna award winner Shri ChinmayTanashikar proudly displaying the the awards to the dignitaries. Krishi ratna award winner Shri ChinmayTanashikar proudly displaying the the awards to the agriculture



Mr. Harshad Prabhudesai resident of Netrawali receiving the Krishi Vibhushan Award



Zonal Agricultural Officer Sanguem Shri.DattareyaPandit receiving the prize for highest vegetable production in Goa state



Mrs Sita Rama Velip receiving the best farmer award from Hon Chief Minister Shri. Manohar Parrikar



Highest vegetable supplier Shri Prakash Mhatre receiving the award from the Hon'ble Agricultural minister Shri. Ramesh Tawadkar





Krishi Melava organised at Netrawali during pre rabi 2015



Shri Subhash Phaldesai handing over the krishi card to the farmer Shri Naheed



Distribution of Coconut seedling at the hands of Hon'ble MLA Shri. Subhash Phaldessai in Sanguem Chief Minister along with MLA Shri Subhash Phaldesai visiting the various machinery during the Krishi Mela



Farmers meeting in progress during village level campaign



Patrakar Sangh visiting the area with sugarcane SSI





Productivity increased from 3,5t/ha to 6.2t/ha

An additional income of Rs 128 lakhs is generated per year due to increase in production Paddy Improvement....Achievements

- System of rice intensification was a great success in terms of improvement of paddy production and productivity.
- $\Rightarrow$  The productivity in the SRI areas increased to 6.2 tons /ha.
- $\Rightarrow$  The highest yield 0f 12 t/ha was observed with karjat 3 variety.
- ⇒ Approx 130 ha area was brought under SRI paddy cultivation.
- ⇒ 100% SRI area at Nune, Patwada, Verlem and Salgini.
- ⇒ Significant success of SRI in Vichundrem, Colomba, Curpem, Kalay
- ⇒ The production and quality of rice further got improved due to cultivation of improved paddy varietis like Sampada, Kanchana, Somsila, /Aishwarya and Makam.
- ⇒ The replacement of outdated varieties with new better varietes was a success in the Nune and Verlem where at present 95% fields are cultivated with the newly introduced varities yielding better of fine rice.
- ⇒ With paddy seed production technology the farmers income got boosted and the paddy cultivation is no more at subsistence level but a remunerative income generating crop.

With this we are producing more paddy, better paddy, and our farmers are earning more income per unit area on paddy crop.



SRI – Mantra for higher yields. More than 300 farmers doing SRI paddy cultivation in Sanguem Taluka



Gerbera Cultivation under poly house in Rivona Sanguem

Rose Cultivation under poly house in Nertavali Sanguem

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### Sugarcane Improvement

- ⇒ Replacement of poor and unyielding irrigation systems with advanced micro irrigation system.
- Promotion of Solar battery operated fencing in sugarcane areas for crop protection from wild boars and bison
- ⇒ Introduction of sustainable sugarcane intensification (SSI) and Paired row system.
- $\Rightarrow$  Intercropping in sugarcane with vegetable crops like chilly, cluster beans and bhendi.



Sugarcane with SSI and chilli as intercrop with drip irrigation Of Mr. Milagres Silva at Vade



Sugarcane paired raw method with drip irrigation system and inter cropping with vegetable at vade

### **Oilpalm improvement**

- ⇒ Oilpalm production increased from 458.89mt/yr to 689.59mt/year in last 4 years.
- ⇒ Oilpalm improvementMore than 25 Ha of oilpalm area has been brought under advanced micro irrigation system.
- ⇒ The better irrigation and nutrient management has shown visible effect on yield improvement.



#### **Plantation Crop Improvement**

- Replacement of outdated and inefficient irrigation system with advance micro irrigation with special emphasis on drip irrigation system.
- $\Rightarrow$  Optimum land utilisation in the crop gardens by promoting multicropping systems.
- ⇒ Inter cropping with high value and remunerative crops like spices and vegetables . Promoting value addition
- $\Rightarrow$  173.55 Ha area was brought under advance micro irrigation system.
- $\Rightarrow$  55 Ha additional area was utilised under spice cultivation.
- ⇒ Additional income generated from multicropping systems.



Cashew intercropping system with turmeric done by Shri. Shrihari Kurade at Vichundrem, Sanguem



Coconut in multicropping system with Pepper and ginger lilly of Shri Ramnath Bombo Velip at Coclomba Rivona

# **Vegitable Improvement**

- ⇒ Wide scale promotion of commercial vegetable crops like chilly, brinjal, cucurbits bottle gourd, bhendi, etc
- ⇒ Promotion of drip irrigation systems and plastic mulching for water use efficiency and crop improvement.
- ⇒ Promotion of Integrated pest management in vegetable crops.
- $\Rightarrow$  High value and off season vegetable production in protected cultivation units.
- $\Rightarrow$  Vegetable cultivation in sugarcane and coconut mixed gardens as a intercrop.
- ⇒ Transformation of vegetable cultivation from meagre backyard cultivation to highly advanced and commercial venture.
- ⇒ Commercialisation of Vegetable cultivation has lead to high income generation in villages , which has provided regular source of income specially for small and marginal farmers.
- ⇒ The commercial vegetable cultivation in the zone has created self employment and high sustainability and entrepreneur development in agriculture sector.
- $\Rightarrow$  Transformation of the land into highly productive and remunerative enterprise.



Vegetable grower in Salzini cultivating hybrid brinjal



Production of vegetables has increased from 6.12 mt to 105mt during 2015-16

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# **AGRICULTURE ACTIVITIES IN QUEPEM**



Honble Minister for Agriculture Shri. Ramesh Tawadkar addressing farmers during Krishi Mela at Curchorem



Hon. MLA of Curchorem Shri. Nilesh Cabral attanding a farmers meet for promoting veg cultivation



Hon MLA Rajan Naik addressing the farmers at Vegetable Training programme Ambaulim



Honble MLA Sanguem Shri. Subhash Faldessai addressing farmers during Krishi Mela at Curchorem



Zonal Agriculture officer visiting Polyhouse cultivation unit of Gerbera at Dharbandora assisted by Directorate of Agriculture



Overwhelming response of farmers to Krishi mela at Curchorem. Shri Agresh Shirodkar AAO explaining schemes of Directorate.



View of Shaddenet cultivation unit of Orchids at Malkarne of Mahesh Gaonkar assisted by Directorate

A proud farmer with bumper crop of Hybrid chilli enriching their livelihood.



# AGRICULTURAL ACTIVITIES IN MARMAGOA-SALCET



Honble Minister Shri. Ramesh Tawadkar inaugurating Krishi Melava at cortalim in presence of Honble Minister for Science & Technology Smt. Alina Saldhana and officials.



Honble Minister for Fisheries Shri Avertan Furtado at inaugural programme of Krishi Mela at Navelim





Honble Minister for Fisheries Shri Avertan Furtado at inaugural programme of Paddy Combine Harvester .

Honble MLA Shri. Benjamin Silva inaugurating Community fencing at Chinchinim Salcete





Farmer with bountiful yield of watermelon with improved varieties.



Farmer with profound growth of Bhendi crop with improved varieties





Farmers with profound growth of vegetable crop with improved varieties and technology.



Farmers getting profound growth of pulses crop with Drip irrigation technology.

# AGRICULTURAL ACTIVITIES IN DHARBANDORA



Planting material distribution at the hands of Honble MLA Savordem Shri. Ganesh GaonKar. along with Shri. Sudin Dhavalikar



Distribution of conoweeder for SRI Paddy Cultivation at the hands of Honble MLA Shri. Ganesh Gaonkar



Visit of Honble MLA Ganesh Gaonkar with officials to SRI Paddy plots.



Honble MLA observing Demo of Solar Power fencing at Krishi Mela Exhibition.



Honble Minister of Agriculture Shri Ramesh Tawadkar Inaugurating Krishi Mela.



View of farmers attending Krishi Mela



Distribution Krishi Card to farmers at the hands of Honble MLA Ganesh Gaonkar



Farmers gathering at Biogas training Programme

## SUCCESS STORY

The revenue village Bandol is part of Kirlapal-Dabal Village Panchayat of Dharbandora Taluka situated along windward side of Western Ghat. This village is selected as model village by Directorate of Agriculture Goa. Topographically this area is sloppy undulating hilly where most of the area is under cashew plantation (90%). Bandol village holds total cultivable area of 398 Ha out of which 114 Ha is under cultivation with an potential area of more than 200 Ha. The ground water and water table level in this village is very low hence there is scarcity of water for irrigation purpose.

Zonal agriculture office, Dharbandora took extensive drive in motivating farmer to take up systematic cashew plantation. Farmers planted/ replaced the old cashew plantation with new hybrid cashew grafts. More than 60 Ha area is been brought under systematic cashew plantation with next year target of more 50-60 Ha area and in next 4 years most of the area will be brought under cashew cultivation. The main focus in this village would be to increase area under systematic & profitable cashew plantation.



Visit of farmers to newly planted cashew plot.

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#### **AGRICULTURAL ACTIVITIES IN PONDA**



Honble Defence Minister Shri. Manohar Parrikar inaugurating Krishi Mela by lighting traditional lamp. Also seen Honble MP (Marmagoa) Shri Narendra Sawaikar and Honble Minister for Industries Shri.Mahadev Naik.



Honble Minister for Agriculture Shri. Ramesh Tawadkar attending Krishi Mela at Ponda. Also seen Honble MP (South Goa ) Shri Narendra Sawaikar and Honble Minister for Industries Shri.Mahadev Naik.



View of farmers attending Krishi Mela at Ponda



Honble Minister for Agriculture Shri. Ramesh Honble MLA Ponda Shri. Lavoo Mamledar Ponda

Tawadkar watching exhibits during Krishi Mela at distributing fruit plants to farmers under Rural Household Scheme



Honble Minister for Industries Shri.Mahadev Naik attending a special Vegetable Growers Mela



Honble Minister for PWD and Transport Shri.Sudin Dhavalikar attending a special awareness meeting for farmers.



Farmer in his SRI Paddy plot



A vermicompost unit assisted by the directorate.



Anthurium in polyhouse assisted by the directorate.

Chrysanthemum cultivation in polyhouse assisted by the directorate.



Hybrid Chilly cultivation with Drip and poly mulch technique assisted by the directorate.



Cucumber cultivation with Drip and poly mulch technique assisted by the directorate



SRI Paddy cultivation using mechanical hoe technique assisted by the directorate.



Exposure visit organized for farmers under ATMA.



Jalakund technique assisted by the directorate.



Dioscorea spp. (Katte Kanaga) cultivation using water harvested with Jalakund technique in uplands assisted by the directorate.

## **AGRICULTURE ACTIVITIES IN SAKHALIM**



Celebration of world soil day in collaboration with Zuari Agro Chemical Ltd.



Soli testing programme at Maina Navelim in presence of MLA of Sankhli Constituency Shri Dr. Pramod Sawant 16/10/2015

Honble MLA of Sahkali Shri Pramod Sawant attending and addressing farmers during soil testing campaign



Vermi composting training programme at Gaonkarwada Surla Goa on 23/03/2015



Krishi Mahotsav at Ravindra Bhavan Sakhali Shri Anant Shet, Speakar of Goa Legislative Assembly.



SRI field day at Ambeshi wada Amona on 29/10/2015



Krishi Mahotsav organsied by Siddeshwar Farmers Club at Surla Goa

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## **AGRICULTURE ACTIVITIES IN BICHOLIM**



Honble Minister for Agriculture Shri. Ramesh Tawadkar addressing farmers during Krishi Mela at Bicholim



Watershed activity programme attended by the Shri Manohar Parrikar



Pre Rabi Krishi Melava



Pre Rabi Krishi Melava



Paddy Transplanting machine being introduced at Meyem



Vermicomposting Demonstration



Vermicompost Unit of progressive farmer Uday Bhate at Narve



Soil sampling demonstration



Students doing transplanting of Paddy with SRI technique.



Improve arecanut harvestor Demonstration



Paddy reaper Demonstration

#### AGRO SERVICE CENTRE



## **AGRICULTURE ACTIVITIES IN TISWADI**



Hon MLA of Panaji Siddharth Kuncolienkar addressing during workshop organized on Urban Kitchen gardening at Panaji



Many house women, women farmers attending workshop organized on Urban Kitchen gardening at Panaji



Hon. Chief Minister Shri. Laxmikant Parsekar watching the grafting technique during coconut and cashew show at Campal Panaji.



Shrusti program conducted at Agassaim along with MLA Vishnu Wagh.



Zonal Agriculture Officer Avdhut Sawant addressing farmers at Gramoday se Bharat Uday Abhiyaan



View of Chain link Fencing at Taleigao village



Motivation meeting for promotion of SRI at Diwar



Paddy Thresher demonstration at Diwar.



View of pond at Chodan of Mr Mhambrey desilted and repaired under assistance of directorate



Demonstration of hoeing in paddy plot.

# AGRICULTURE ACTIVITIES IN BARDEZ



Bhendi Cultivation in Bardez



Plastic Mulching in Chilly Vegetables



High Density Mango Cultivation in Bardez



Plastic Mulching in Bhendi

### **AGRICULTURE ACTIVITIES IN PERNEM**



Honble Minister for Agriculture Shri.Ramesh Tawadkar addressing the farmers at Krishi mela organized at Nagzar- Pedne.



Honble Chief Minister Shri.Laxmikant Parsekar addressing the farmers at Vegetable Growers Mela organized at Pedne.



Honble Minister for Panchayat and Forest Shri.Rajendra Arlekar addressing the farmers at Krishi Mela organized at Pedne



Honble Chief Minister Shri.Laxmikant Parsekar, Honble Minister for Panchayat and Forest Shri.Rajendra Arlekar visiting a floriculture unit at Pedne



Honble Minister for Panchayat and Forest Shri.Rajendra Arlekar addressing the farmers at Sugarcane crop Seminar organized at Casarvarnem



Honble Chief Minister Shri.Laxmikant Parsekar handing over Krishi card to farmer at Pedne.



Honble Minister for Panchayat and Forest Shri.Rajendra Arlekar releasing Soil mapping at World Soil Health day at Pedne.



Honble Minister for Panchayat and Forest Shri.Rajendra Arlekar launching Soil Sample Campaign for Soil Health card at Ibrampur



Honble Minister for Panchayat and Forest Shri.Rajendra Arlekar launching Land preparation with Tractor for Sugarcane Crop at Casarvarne.



Honble Minister for Panchayat and Forest Shri.Rajendra Arlekar visiting a Polyhouse Capsicum Cultivation unit at Torse



Honble Chief Minister Shri.Laxmikant Parsekar, Honble Minister for Panchayat and Forest Shri.Rajendra Arlekar launching vermicomposting campaign at Ibrampur- Pedne.



Honble Minister for Panchayat and Forest Shri.Rajendra Arlekar launching harvesting of Paddy with Combine Harvestor at Ozari



Honble Minister for Panchayat and Forest Shri.Rajendra Arlekar visiting a Polyhouse Cucumber Cultivation unit at Torse



A view of Vegetable plot in Virnoda.



A view of Hybrid Bhendi Vegetable plot in Hassapur.







Zonal Agriculture Officer Prasad P Parab interacting with farmers at Hankhane-Ibrampur village covered under Sansad Adarsha Gram Yojana regarding cultivation of various crops and prospective plans.



A view of Hybrid Chilli vegetable plot cultivated with Drip irrigation and Mulching technique at Korgao.



A view of Paddy transplanting with Paddy transplanter at Mandre.



A view of Paddy transplanted with SRI method at Ozari.

Honble Minister for Panchayat and Forest Shri.Rajendra Arlekar launching planting of Sugarcane seedlings at Tulaskarwadi Nagzar





A view of Sugarcane plot protected with Solar Power Fencing in Tulaskarvadi Nagzar in command area of Tillari Irrigation Project.



Honble Minister for Panchayat and Forest Shri.Rajendra Arlekar launching harvesting of Sugarcane plot at Casarvarne



A view of Mechanized dibbled full grown Groundnut plot in Hassapur.



Sugarcane Cultivation in Pernem



Demonstration of Power Weeder for weeding in Bhendi and other crops at Pernem



A view of Groundnut demonstration plot in Virnoda with beneficiaries under RKVY programme during harvesting



Honble Minister for Panchayat and Forest Shri.Rajendra Arlekar launching cultivation of Hybrid Chilli programme by distribution of Hybrid Chilli seedlings to farmers at Pedne



Demonstration of power tiller operated Seed drill at Hassapur



Demonstration of Mini Tiller For Intercultivation in Bhendi



A view of Hybrid Chiili plot cultivated with drip irrigation systemby Jayendra Sawant at Mandre



A view of mechanized cultivated plot ready for planting groundnut by Tractor mounted seed drill



Shri sanseep Nhanji -Ex Sarpanch and son of Best farmer award recipient with a bumper harvest of Alphanso Mango crop.