Tamil Nadu Precision Farming Project 6. Media and Publicity

Dr. E.Vadivel PhD.,
Project Officer (Precision Farming and e extension)
Tamil Nadu Agricultural University, Coimbatore, 641003



amil Nadu Precision Farming Project is a turnkey consultancy and farmers had to undergo hands on training. The Project for Tamil Nadu Agricultural University, Coimbatore, and was the first of its kind among Indian Agricultural Universities. It was a State's mega demo in 400 ha to be implemented in farmers holdings with a business component of consultancy fee to University and a condition to enhance the productivity of crops by 40-50 percent. The scientists have accepted the challenging task of being in the field and raising the first crop by themselves while the farmers and the extension workers were participating as trainees. Subsequently, for crops raised by the farmers for the next three years, the scientists have extended technical support. The project was awarded to TNAU on competitive bid basis and the highest quote was Rs.17.50 crores by an overseas firm while the lowest quote of the TNAU was Rs.7.20 crores of which Rs.43.00 Lakhs was made available as third year(2008-09) balance after completion of the project.

Processes matter

There were three partners, viz., TNAU, State Department of Horticulture, and Farmers and there was a tripartite agreement defining the responsibility of each; The District Administration shall identify the beneficiary farmers with the help of State Department of Horticulture. The TNAU, as the implementing agency, shall undertake the cultivation of crops; The State Department staff

farmers within 20-30 km radius in the block have been brought under a cluster and each cluster was registered under Societies Act. The cluster served as the platform for all kinds of interactions, transactions, and functionally like a commodity group. Within TNAU, there was a Cocoordination Committee, Technical Committee, and separate Purchase Committee. About 20 scientists were physically in the field to cover 100 ha during the first year(2005-06), 200 ha during the second year(2006-07), and 100 ha during the

Technologies and Precision elements

The prime technologies adopted were remote sensing and GIS, chisel plough, Community shade net pro tray nursery, Crop geometry, Drip and Fertigation, IPM and PHM. 'Precision Farming' means predominantly the variable rate of fertilizer application for each sub cubic centimeter of soil in





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Bentley claims that the speed will reach 100kmph in 4.5 seconds, and if you find a Jengthy stretch of wide-open asphalt, you'll discover that it has a top speed of 322kmph



Ploughing a new furrow

PRECISION FARMING



Imagine a farmer earning more than Rs five lakh in about eleven months from a bounteous harvest of 170 tonnes of vegetables from an acre and 20 cents!

This is a normal scenario in Dharmapuri and Krishnagiri districts and almost all parts of Tamil Nadu. But to the Malayalee counterpart of the Tamil Nadu farmer, this presents a wonderous specta-

The question arises as to how this has come about? The answer lies in Precision Farming. It is a cent percent scientific agricultural method, under the aegis of Tamil Nadu Agricultural University (TNAU), Coimbatore.

Enchanted by the rich pickings, the farmers of Palakkad district in the neighbouring state of Kerala are eager to convert to this lucrative farming method. TNAU is providing the requisite assistance. The farmers of Dharmapuri and Krishnagiri are also quite enthusiastic in sharing their rewarding experiences with their fel low growers of Palakkad.

This novel agricultural practice has generated a fresh bloom of hope in the bosom of those in the eastern parts of Palakkad. Faced with severe water scarcity, like in certain parts of Tamil Nadu, precision farming has come as a boon to these dry

Recently, 110 farmers of Perumatty and Pattenchery panchavats of Palakkad district have been chosen for adapting to Precision Farming. Only debt-ridden farmers have been selected initially. Experimental farming is done in 150 acres in the first

The Kerala Government has already allocated Rs 71 lakh for this purpose. The states have an expertise-sharing programme involving agricultural officers and farmers, to facilitate this joint ven ture. "Now we are planning to cultivate only vegetables. If the yield is good, we will venture into other crops. Personally I think it is better for vegetable cultivation," says K Krishnankutty. This former MLA from Chittur is himself a green-fingered farmer

Thanks to Tamil Nadu Agricultural University, Coimbatore, the benefits of precision farming are ploughing into the fields far and wide



The main objective is to increase yield. An equally important goal is to minimise

righ yield by using verry little quantity of water and fertilisers compared to the conventional methods. Only water-soluble fertilisers are used. It is applied directly water consumption, a natural resource to the roots of the plants through drip irthat is increasingly becoming a precious rigation. Precision Farming techniques commodity. Precision Farming ensures also make weed and poest control easier,

compared to traditional ways

Conventional farming would yield ten tonnes of vegetables per acre, compared to 35 tonnes through Precision Farming from same acreage. Months ago Chin naswami of Dharmapuri district created a record by producing 170 tonnes of brin-

jals from an extent of land mentioned in the beginning

Exemplars like these from Tamil Nadu have infused renewed vigour into the sinews of farmers in Palakkad. Sugarcane, banana, ladies finger, tomato and horticultural crops have been grown successfully using this innovative technique. But the one important ingredient is strict monitoring. Any laxity on this front will spell disaster. It involves doing the right thing, in the right time, in the right way, in the right place. Hence farmers in Kerala are understandably anxious, because it is their first experience. But the help and support of their counterparts in Tamil Nadu have lent them the confidence to go ahead.

POLY HOUSE FARMING

An advanced form of Precision Farm ing, in which the suitable atmosphere for cultivation i.e., temperature, humidity, wetness etc. is simulated. Though yield is very high it is prohibitively expensive. As such, ordinary farmers would not be able to afford it. It is in fact a market-oriented farming method that circumvents the 'seasonability' of crops. Any crop can be grown out of season. Though somewhat popular in Tamil Nadu, in Palakkad only 12 farmers have opted for it.

DRAWBACK

Organic farming is not possible in Precision Farming because only water-soluble chemical fertilizers are used. More over, the direct application of fertilizer onto the roots of the plants might cause some damage. But scientists explain that it is safe since no fertilizer is unnecessarily used here. Since precision farming is only ten years old, going into its drawbacks at this stage might be premature.

MARKETING

In marketing also the Kerala farmers will secure the help of Tamil Nadu. "Marketing is very important. Here also we will have their help. They have gone about it brilliantly!" exclaims an admiring Krishnankutty. The farmers of Palakkad are expectantly thrilled at a future, pregnant with the prospect of a green promise.

- Nirmala G.

THE HINDU, Sunday 5th December 2004

Precision farming in Dharmapuri becomes trendsetter

By S.Prasad

Nadu Precision Farming Project. Dharmapuri in 2004-05, is proving a success story with growing demand for its replication in other blocks. After the completion of groundwork, planting of hybrid chillies (NS-1701) has begun at Agaram-Kartharpatti in the Palacode block.

About 50 farmers are participating in the project, which aims at encouraging environmentally benign and remunerative agricultural practices. The Tamil Nadu Agricultural University, (TNAU) Coimbatore is the implementing agency. The project envisages cultivation of vegetable crops with the focus on imparting skills in state-of-the-art technologies to farmers.

Three years

The Chief Minister announced the project for Dharmapuri district on an outlay of Rs.7.2 crores, to be implemented over three years.

The features include promotion of hi-tech and precision horticulture. maximising production of vegetable crops, training farmers in hi-tech horticulture, empowering them in marketing and ensuring their economic prosperity.

According to the Collector,

Ashish Vachhani, "water intensive cultivation is just not an op-DHARMAPURI, DEC. 4. The Tamil tion in Dharmapuri district. The objective is to move towards enlaunched on 150 hectares in vironmentally-benign and remunerative systems.

> Precision farming aims at replacing water-intensive cultivaenvironmentally-benign cropping systems which not only save water but also ensure higher returns to farmers."

Eligibility criteria

The eligibility criteria are: Landholdings should be within a contiguous block and adequate supply of water has to be ensured by the farmer for drip irrigation.

The farmers should have a hectare each and possess proper documents. The land should be vacant for current season cultivation.

The beneficiaries will enjoy 100 per cent subsidy during the first year and 90 and 80 per cent during the second and third years. They will raise vegetable crops in rotation for three years. Tomato, onion, lady's finger, baby born, chillies, cauliflower and cabbage would be cultivated using hybrid seeds.

In the first year, the farmers will be provided with the fertigation system for a hectare on an outlay of Rs.75, 000 and all inputs worth Rs.40,000, free of cost.

Adequate training

Mr. Vachhani said the farmers were given adequate training in the operation of drip-cum-fertigation system. Scientists of the University would stay with the farmers in villages and train them in the use of liquid fertilizers, plant hormones, special operations in crop regulation, assessment of harvest maturity, grading and sorting.

They would also extend assistance in market tie-ups, and market information on price.

The farmers have also established the 'Adhivaman Precision Farming Association' to spearhead the raising of five successive crops on their own with assistance from the TNAU scientists.

COMMODITIES

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Precision farming paying dividends

TN farm varsity project to overcome deficit irrigation

M.J. Prabhu

Chennai, Oct. 16

Venkatesan, a farmer in Dharmapuri district, Tamil Nadu has earned a profit of Rs 3.90 lakh through tomato cultiva n alone in his two-hectare and. He has bought another two hectares with that money

If some farmers in Dhar-mapuri and Krishnagiri districts of Tamil Nadu are able to earn handsome profits from cultivation of vegetables such as cabbage, cauliflower, chilli and tomato, it is due precision farming.

PROJECT DETAILS

The Tamil Nadu Government has launched a three-year precision farming project in these two districts in about 400 hectares at an outlay of Rs 7.20 crore. The project is set to be extended to six more districts, including Thanjavur, in the State. In view of the project's success, it has aled up to 700 hectares during 2005-06 and a budget provision of Rs 10 -M.J. Prabhu crore has been made.

"The project in Dharmapu-State with the hope that the through irrigation. technologies are taken to all and mitigate the problems re- munity Vice-Chancellor, productive. TNAU.

SUBSTRY

per cent subsidy towards cultare) in the first year. In the and method of preparation. second year, the farmers contribute 10 per cent of the margin money (Rs 11,500) and during the third year, they amount (Rs 23,000).



Reaping benefits: A farmer checking his drip irrigation pipeline at a village in Krishnagiri district of Tamil Nadu. He is one of the farmers covered by a precision farming project launched by Tamil Nadu Government in about 400 hectares.

Installation of drip irriga- returns. the districts in Tamil Nadu tion system, raising of comnursery and lated to deficit irrigation wa- cultivating operations includter resources and ensure ing plant protection measures

The produce from precision farm has been found to Th the markets. The farmers higher productivity. tivation expenses and drip) have been made aware of the

CROP DIVERSIFICATION

contribute 20 per cent of the in Dharmapuri district, sever- yield compared to the con- chilli farmers harvested management, explained Dr

Fertigation is a system ed for crop diversification in Rama Reddy, a farmer in tonnes per hectare under norri and Krishnagiri districts is ademonstration for the entire nutrients to a crop is done cabbage and cauliflower owing to high-yield and better acre land.

As a hi-tech practice, the INCREASED YIELD seedlings are raised under In Krishnagiri, cabbage, cauprotected condition

better livelihood system for are done in time to ensure quired population per unit ar- Cabbage and cauliflower the farmers," says Dr V. Ra- plants are cent per cent ea, the crops are raised in farmers got a yield of 60

This led to the plants ex- 50 tonnes by other farmers. be excellent in quality and hibiting better growth and According to Prof. E. Vadi-

al precision farmers have opt- ventional system," said Mr P. about 29 tonnes against 15 Ramasamy

liflower, chilli and tomato Besides maintenance of re- were raised in 100 hectares. paired row system in broad tonnes a hectare each (an increase of 20 per cent) against

Beneficiary farmers enjoy 100 commands a premium in all development, resulting in vel, Director of Extension Education and nodal officer "By adopting fertigation of the Project, Tamil Nadu and fertigation systems. (Rs intricacies of pesticide qual- practices, there is 25 per cent Agricultural University, 40,000 plus Rs 75,000 a hec- ity, dosage, time of spraying saving of fertilisers and com- Coimbatore, farmers who plete utilisation of applied raised tomato got a yield of crops under precision farmnutrients by the plants. The about 65 tonnes (an increase uniform field stand of the of 63 per cent over non-pro-According to Mr K. Nainan crops have helped us to object farmer) as against 40 duced labour cost particular-

"We are now able to save 40-60 per cent water when compared to the normal flooding system practised practiced by us earlier under conventional farming," said Mr K. Ponnuvel, another beneficiary farmer of Dharmapu-

Those who were irrigating one hectare previously, are now irrigating 1.4-1.6 hectare through drip/fertigation system, he said

In general, the profit margin has been higher in all the ing. This has been achieved Kumar, a beneficiary farmer tain 45-50 per cent increased tonnes per hectare, while ly for irrigation and weed

FARMER'S NOTEBOOK

Continuing success of precision farming in Tamil Nadu

A farmer has earned more than 5 lakhs from 120 cents in 11 months

M.J. PRABU

innovations and technologies for increasing crop yield have mostly been the fort of agricultural scientists and researchers.

Precision Farming Technology is one such innovationthat has been introduced for the first time in the country by scientists from the Tamil Nadu Agricultural University Coimbatore.

Precision farming promises to increase the yield of crops, and practically any crop variety can be cultivated under this system.

Very popular

Presently this project is meeting with large success in many districts of Tamil Nadu. Those farmers, already under this project, have surrendered their success in terms of yield and marketing to this technology.

Unlike certain other technologies which teach or guide the farmer to grow his cropsbut leave himto market hi- get only 60 tonnes per hec- tonnes offarmyard manure sown produce, precision tare whereas Mr. Chinnasawith the farmers right from tonnes in 120 cents, which is sowing the seeds to marketing the produce.

Marketing made easy

fies prospective buyers in and around the area andbinds the tails he said, the seeds were farmer and the buyer in a sort of contract agreement, and shade net and transplanted oversees the entire operation. on the 35th day after sowing.

Mr. P.M. Chinnasamy is one such precision farmer from Somenahalli village who has earned more thanks. 5 lakh from his brinial crop grown in 120 cents in about 11 four times. Before last



RECORD BREAK: Mr. Chinnasamy of Tamil Nadu with his harvested brinjals. - PHOTO: TNAU

quite a feat.

"It is 467 per cent higher The research team identi- vel, Director of Extension of 45 cm. Education, TNAU. Giving desown in protrays raised under

Field preparation

The field was prepared by using chisel plough first, followed by disc and cultivatorsploughing, a basal dose of 700 "A progressive farmer can kg of super phosphate, 25

along with Azospirillum and technology scientists stay my has harvested about 170 Phosphobacteria each at 2 kg per hectare was applied.

Raised beds of 60 cm width were formed and the seethan the conventional system dlings planted on the centre of cultivation," said Dr. Vadi- of the raised beds at a spacing that grown under conven-

Wastage avoided

Under the conventional Rs. 5,-15 a kg. system 23,000 plants are required for planting.But, forprecision farming system, only 14,500 plants are required.

Fertilizers were given only through fertigation, which avoids wastage through flood irrigation.

All water soluble fertilizers

were applied based on the time and the stage of the crop.

The plant growth was found to be good, and this continued till the last harvest. Due to the continuous growth and flowering, harvesting was done once in two days. The flowering is mainly due to continuous supply of fertigation and constant absorption of nutrients.

Extended crop life

Brinjal is a six month crop but under precision farming the duration can be extended up to one year. It is an advantage over the traditional system since the extension of harvest increases the productivity, according to Dr. I. Muthuvel, Assistant Professor. Horticulture of the University.

The main pests were fruit borer that was controlled effectively spraying monocrotophos or chloripyriphos at 2 ml per litre of water, and in later stages Indoxacarb at 0.5 ml per litre of water, according to Dr. Muthuvel.

Attractive fruits

Diseases such as blight and fruit rot were controlled by spraying mancozeb at 2 ml per litre of water. The fruits are quite attractive and the shelf life is more compared to tional system. Mr. Chinnasamy has so far harvested 170 tonnes and has sold them for

For more details readers can contact Dr. I. Muthuvel, Assistant Professor (Horticulture), TNAU, Coimbatore, muthu_hort@vahoo.co.in. 9443715948 and Mr. P. M. Chinnasamy, Somenahalli, Dharmapuri district, Tamil

ஏக்கருக்கு எவ்வளவு மகசூல்? எவ்வளவு இலாபம்! -"நீங்களே கணக்குப் பண்ணிப் பாருங்க!"

"குஷால்"

உழவு செய்யத் தேவையில்லை, கொமியமும், கொணங்கித் தனமான அறிவுரைகளுகம் கொதும் இந்த விவசாயத்திற்கு என்று பயிற்சி அளித்து வரும் இயற்கை வேளாண் பிரசாரகர்களுக்கும், என்.வி.ஓ.க்களுக்கும், பச்சைப் பத்திரிகைகளுக்கும், ''செத்தே இங்க வந்துடிடுப் போங்கண்ணா...'' வென்று செவியிழுத்துச் செதிகள் சொல்லுது இந்த கட்டுரை!



"குஷால்"

தர்மபுரி, கிருஷ்ணகிரி பக்கம் நீளமாக உள்ள பச்சைக் கத்தரிச் சாகுபடி ரொம்ப பிரபலம் மஹிகோ நிறுவனத்தின் "வொய்ட் லாங்" (White Long) ஹைபிரிடு இந்த வகைக் கத்தரி இனம். கடந்த 1½ ஆண்டுகளாக, மஹிகோ நிறுவனம் இந்த ஹைபிரிடு விதையை விநியோகிக்காமல் இருந்தது; தற்போது விநியோகிக்க ஆரம்பித்துள்ளது.

நாம் பேட்டி கண்டு, இக்கட்டுரையில் வெளி யாகும் சாகுபடி விபரங்களைத் தரும் திரு சின்ன சாமி, அங்கூர் விதை நிறுவனத்தின் "குஷாலா" என்கிற இவ்வகை ஹைபிரிடைப் பயிரிட்டுள்ளார். கடந்த மாதம் இவரைப் பேட்டி கண்டு கட்டுரை வெளியிட முயற்சி செய்தோம். கடந்த மாதம் திரு சின்னசாமியைப் பார்க்க முடியவில்லை. இம்மாதம், மறுபடி தர்மபுரி சென்று, பேட்டிகண்டு அவரது சாகுபடி அனுபவங்களைத் தருகிறோம்.

பேட்டிக்கு முன்...

காய்கறிச் சாகுபடியில் பெயரெடுத்துள்ள தர்மபுரி விவசாயிகள், தமிழ்நாடு வேளாண்

பல்கலைக் கழகத்தின் "துல்லியப் பண்ணையம்" (Precision Farming) என்கிற வேளாண் பண்ணையத் திட்டத்தின் மூலம், வழி நடத்தப்பட்டு காய்கறிச் சாகுபடியில் அதிக லாபம் ஈட்டி வருவது குறிப்பிடத்தக்கது.

துல்லியப் பண்ணையத்தின் வழிகாட்டிகள்

- முனைவர் இ.வடிவேல், பி.எச்.டி இயக்குநர், வேளாண் விரிவாக்கம்
- முனைவர் ஐ. முத்துவேல், பி.எச்.டி உதவி பேராசிரியர் (தோட்டக் கலை) தமிழ்நாடு வேளாண் பல்கலைக் கழகம் கோயம்புத்தூர் - 641 003

தொடர்பு முகவரி

விரிவாக்கக் கல்வி இயக்ககம் தமிழ்நாடு வேளாண் பல்கலைக்கழகம் கோயம்புத்தூர் - 641 003 தொலைபேசி: 0422 6611370 மின் அஞ்சல்: tnpfp@tnau.ac.in

விவசாயிகளின் உரக்கடை

இதில் கலந்து கொண்டுள்ள 160 விவசாயிகளும் ஆளுக்குக் கொஞ்சம் பணம் போட்டு, ஓர் உரக் கடையையும் வைத்து, அதன் மூலம் பகுதி விவசாயி களுக்கு நியாய விலையில் விதை, பூச்சி மருந்து ஆகியவற்றை விநியோகித்து வருவதும் குறிப்பிடத் தக்கது.

அந்த கடையின் முகவரி

Dharmapuri Precision farmers Agro services limited

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போன் : 04342 - 267400

FARMER'S NOTEBOOK

Growing muskmelon as precision crop is highly profitable

The beneficiary has earned a net profit of more than two lakh rupees

M.J. PRABU

fruit crop cultivated widely by farmers in our country particularly during the summer season. The fruit is used for making sherbets and desserts which have a cooling effect on the body.

Though it is mainly a summer crop it is now being cultivated throughout the year in Tamil Nadu, thanks to the Precision Farming technology from the Tamil Nadu Agricultural University (TNAU), Coimbatore, Tamil Nadu.

Mr. C. Boopathy, a beneficiary farmer of the precision farming technology (PFT) in Morappur village of Dharmapuri district in Tamil Nadu has grown musk melon in his one hectare farm.

Net profit

"I had spent about Rs. 90,000 as cultivation cost and was able to get a gross income hectare. of Rs. 3,60,000. Deducting

tected condition. They are beds). ready for transplanting in the main field on 12th day of sowing, according to him.

Healthy plants

The root growth is excelgrown in protrays and the before the last ploughing. seedlings are resistant to plants are uniform, healthy tion pipes (similar to drip ir- required. and the portrays can be easily rigation pipes) which avoid Dr. E. Vadivel, Director, Ex- the time and the stage of the tension Education, TNAU.

About 20,000 seedlings are



MORE YIELD: The farmer Mr. C. Boopathy of Dharmaputi district in Tamil Nadu has harvested about 45 tonnes of fruit from an hectare. - PHOTO: TNAU

ly from musk melon," he says. tors, four times (with the help The seedlings are raised in of a tractor). Then the seeprotrays which are filled with dlings were planted on raised cocopeat and grown in a beds of 1x4 feet (one foot shade net nursery under pro- height and four feet wide

yard manure (FYM), 2 kg of ber of flowers in the plant and phate were applied (for one sor, Horticulture. lent when the seedlings are hectare) as a basal application

Unlike crops grown under or 0.5 gms of Acetamopride trict, Tamil Nadu.

required for planting in one the conventional system, pre- diluted in one litre of water. The field was readied using at an earlier stage. For exam-

Uniform fruit growth

Under normal practices harvesting can be done after the 75th day after planting. In About 25 tonnes of farm addition there are more numbiofertilizers such as Azospi- the fruit growth is also unirillum or Phosphobacteria form, according to Dr. R.I. and 470 kg of super phos- Muthuvel, Assistant Profes-

Water soluble fertilizers like conventional system akg," said Mr. Boopathy. pests and diseases. All the were applied through fertiga- where 3-4 harvests are

taken to the main field for water wastage. The fertilizer crop are beetles, white flies Coimbatore: 641 003, Tamil transplanting, according to application is done based on and fruit borers. Beetles and Nadu, mobile: 94437-15948 white flies can be controlled and Mr. C. Boopathy, Morapby spraying 2gms of Carboryl pur village, Dharmapuri dis-

cision crops come to harvest Spraying 2 ml of Trizophos or 2gm of Thiodicarb or Methothe expense I have earned a a chisel plough and disc ple, this melon was harvested mil in one litre of water is net profit of Rs. 2,70,000 sole- (once) and then by cultiva- on the 65th day after plant- found effective for the control of fruit borers.

The fruit weight is also more compared fetches a good price in the market due to higher sweet content and shelf life, according to Dr. Muthuvel.

"I was able to harvest two fruits from a single vine he said. Each fruit weighed 1.25 -1.5 kg. About 45 tonnes of Also, the fruits can be har- fruit was harvested from a vested in a single harvest un- hectare and sold at Rs. 5 to 12

Readers can contact Dr. I. Muthuvel, Assistant Profes-Major pests affecting the sor, Horticulture, TNAU,



வளரும் வேளாண்மை

மார்ச் 2007

தனி இதழ் விலை ரு. 7.00



துல்லிய பண்ணைய சிறப்பிதழ்

தமிழ்நாடு வேளாண்மைப் பல்கலைக் கழகம்

கோயம்புத்தூர் - 641 003

FARMER'S NOTEBOOK

Drip fertigation boosts yield in banana cultivation

The technology helps conserve water and aids good growth

M.J. PRABU

ESEARCHERS AT the Tamil Nadu Agricultural University (TNAU), Coimbatore, have implemented state sponsored precision farming through drip fertigation project in Krishnagiri and Dharmapuri districts of Tamil Nadu. The project costs Rs.10 crore and covers about 400 hectares in the districts.

This project is a boon to all farmers in these two districts who have been cultivating vegetables such as tomato, bhendi and cavendish banana varieties.

Equal weight

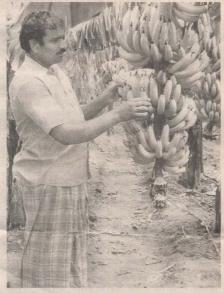
All the crops attain uniform height and fruits and vegetables attain equal weight when grown under fertigation system (application of water soluble fertilizer through drip irrigation), according to Dr. I. Muthuvel, Assistant Project Officer, Tamil Nadu Precision Farming Project, Dharmapuri.

The technology, in addition to conserving water, has the crops, according to Mr. M. farmer in the district who is said Mr. Venkatesan. at present cultivating G-9 caone hectare land.

trict, according to Dr. to the field and ploughed well. Muthuvel.

Saving water

50 per cent water compared immediately.



UNIFORM GROWTH: Mr. Venkatesan, banana farmer of Dharmapuri having a look at his crop, which is also helped in good growth of ready for harvest. - PHOTO: M.J. PRABU

Giving details on field to Mr. Venkatesan. vendish banana variety in his preparation, Mr. Venkatesan About 25 hectares are at phate, 200 gm of gypsum, 20 were manually removed. Side present under banana culti- gm of furidon and 5 kg of far- suckers have to be removed as vation in Dharmapuri dis- myard manure were applied

Raised beds of about one Cubical pits of about 2 cubic explained Dr. Muthuvel. "Precision farming has feet were dug on the raised helped me obtain uniform ba- beds and the suckers were stakes were tied to the trees .co.in and Mr. Venkatesan can nana bunches with even rip- placed inside the pit and cov- to prevent them from falling ening and saved as much as ered with soil and watered due to heavy wind or rains.

where water was allowed to every five days. About 3,000 tion.

Venkatesan, a beneficiary flow in furrows in the fields," suckers are needed for planting in one hectare, according

> After two months of plantsaid, about 2 kg of super phos- ing, emerging side suckers and when noticed.

> Only one side sucker can be allowed to grow in the eighth foot in height were prepared. month and the rest removed,

The variety was found suswith the conventional system Fertigation was done once ceptible to erwina rot infesta-

Drenching the base of the plant with about 1 gm emisan solution diluted in a litre of water was found effective in controlling this infestation.

Yield statistics

The first bunch of fruits appear sometime during the eighth month after planting. During this time it is advisable for farmers to spray polyfeed over the fruit bunches to obtain uniform weight and

About 100 tonnes of fruits were harvested in the eleventh month after planting and sold at Rs. 8,000 per tonne.

"I expect to harvest the first ratoon crop in the 21st month and the second in the month," Venkatesan.

The main advantage of using fertigation technique according to Dr. Muthuvel, is that "all the bunches from the three crops will be almost uniform in size and weight."

Irrigation cost

Bunches from the planted crop weighed 30-32 kg each. The cost of the drip system worked out to about Rs.1.15 lakh per hectare.

"I had purchased the suckers at a cost of Rs. 11 per sucker and have spent about Rs.1 lakh towards cultivation expenses," said Mr. Venkatesan.

For more information Dr. I. Muthuvel can be contacted at Regional Research Station, Paiyur-635 112, Krishnagiri District, phone: 04343-254037, mobile: 9443715948, In the seventh month, email: muthu_hort@vahoobe contacted at Poduthampatti Post, Kuddampatti village, Somanahalli, Palacode Taluka, Dharmapuri district, Tamil Nadu.

22/02/07 THE HIMDU

FARMER'S NOTEBOOK

Technology that triples total tomato tonnage

About 135 tonnes of fruits were harvested in nine months

M.J.PRABU

CIENTISTS AT the Tamil Nadu Agricul-University (TNAU), Coimbatore, have developed a technology called precision farming, said to be a first of its kind in India.

The technology is being presently implemented in several major areas of Tamil

At present precision technology is implemented in about 200 hectares in Dharmapuri district in Tamil Nadu. More than 100 farmers have been benefited by this

Hybrid chilli in about 30 hectares, hybrid tomato in about 20 hectares and cavendish (green) banana variety in about 10 hectares were raised farming system.

Technical guidelines

Under this farming concept, the University gives Chinnasamy. technical advice to farmers drip irrigation.

in Dharmapuri, who has har- Assistant Project Officer, Tavested about 135 tonnes of to- mil Nadu Precision Farming azospyrillum and phospobac- income of about Rs. 5 lakhs mato from his one hectare Project in Dharmapuri. field in nine months using The seeds were first sown pseudomonas and 1,172 kg of nine months. this technology.

Higher yield

der the conventional system used.



BOUNTIFUL YIELD: Mr. P.M. Chinnasamy, a successfully under precision beneficiary farmer in Dharmapuri district of Tamil Nadu in his field. - PHOTO: TNAU

sion technology can be ex- according to Dr. Muthuvel. Mr. P.M. Chinnasamy, is tended to 8-9 months, one such beneficiary farmer according to Dr. I. Muthuvel, by mixing about 25 tonnes of rate of Rs.10-20 per kg. Mr.

> in small plastic pots, and kept super phosphate. under a shade net in a nurs-

nel irrigation and only about uniform and without any pest .Drip fertigation (application 9443715948.

25-30 tonnes of fruits can be and disease infestations," while fruit borer infestation expected, according to Mr. said Dr. Muthuvel. The main was controlled by spraying The life of the tomato crops line drip irrigation system at pyriphos diluted in one litre on soil and water conditions, grown under normal cultiva- a spacing of 1.5 m lateral in- of water. weather mapping, forewarn- tion (channel or furrow irri- tervals. Drippers at 60 cm ing of pest attacks and also gation) is only 3-4 months, spacing were used. About one on the 65th day after plantsupplies water soluble fertil- whereas the life span of the hour of irrigation is sufficient ing. The fruits were uniform izers to be applied along with same crop grown under preci- to cover one hectare of land, in size and the skin colour

> farmyard manure, 2 kg of Chinnasamy, has earned a net teria each, about 2.5 kg of from tomato cultivation in

ery. Cocopeat was used as a foot height were formed and Muthuvel, Assistant Project The yield is almost triple growing medium. "The coco- the laterals were placed at the Officer, Tamil Nadu Precision that of the farmers growing peat was completely steril- centre of the beds. Planting Farming Project, 46/25 B, 66 tomato under the conven- ised with chemical or under was done on either side of the feet road, Barathipuram, tional system of planting. Un- steam treatment before being laterals at a spacing of 90 x 60 Dharmapuri district, Tamil x 60 cm. About 20,000 plants Nadu, email: muthu_horthe crop is grown under chan- The seedling growth was were planted in one hectare- t@yahoo.co.in,

of water soluble fertilizer along with water) was done through a 60-litre capacity fertilizer tank and once in three days starting from the day of planting.

Flower drop

Weeding was done once after 30 days and again one month later. The plants were tied to poles for support on the 30th day after planting. About 1.25ml of triacontanol and 0.25ml planofix hormone diluted in one litre of water were sprayed on the 30th, 60th and 75th day to control flower dropping.

The crop was found susceptible to infestations such as sucking pest, leaf minor and cutworm.

Infestations control

Spraying 2ml of triozophos diluted in one litre of water was found effective in managing sucking pest, leaf minor and cutworms infestations. field was installed with an in- 2ml of endosulfan or chlori-

The first harvest was done was deep red.

For more information Raised beds of about one readers can contact Dr. I.

Farmers in Dharmapuri start own retail chain

Radha Venkatesan | TNN

Dharmapuri: The multinational retail chain, Wallmart, wanted to buy the uniformly big bananas grown in the 'precision' farms of Jaragu village in Dharmapuri district of western Tamil Nadu. Representatives of Reliance Fresh came down to the dusty hamlets of Dharmapuri to procure brinjals, beetroots and tomatoes. The and fruits every week to resi-Rs. 3.5 lakh from his 2.5-acre Aditya Birla Group too was keen on picking tasty watermelons from Somanahalli for their retail shelves.

al farmers of the district said 'no' to the multinational comon the national highways close to Bangalore and Chennai.

Last February, 200 farmers from the district put in seed money of Rs. 10,000 each to start a new farmers' company — the Dharmapuri Precision Farmers Agro Services Ltd. In just one year, the company has become a dealer of major fertilizer and pesticide brands and pany's turnover, through sale of fertilisers and pesticides. has crossed Rs. 2.5 crore. All the 200 farmers, who are the dividend," said the company's touched Rs. 60,000, at least four secretary C Boopathy.

The services of the com- software professional. pany include door-delivery of

DIRECT SALES



- For the first time, farmers in the state have gone corporate and will open their own retail outlets on the Bangalore -Chennai highway
- In February 2008, 200 farmers put in seed money of Rs. 10,000 to start a farmer's company

dents of Chennai and Bangalore on orders placed online.

Indeed, the initiative to corporatise the farming com- ers were taking the farmers But the small and margin- munity came from the Tamil for a ride. While the maximum Nadu Agricultural University.

panies. For the first time in ping and some fertilizer deal-Tamil Nadu, these farmers ers were overcharging the were selling it for more than have gone corporate and will farmers, the university, in a Rs. 650 per bag. Besides, they open their own retail outlets trailblazing venture, initiated were forcing the farmers into 200 farmers in Dharmapuri district into precision farming increasing the cultivation cost. technology. They were taught stead of farmlands, water the er and pesticide companies," amount of fertilizer.

> farmer, PM Chinnasamy, produced a record 147 tonnes of cent land in Somanahalli ham-

a family pack of vegetables hendran, has made a whopping ping facility for the consumers.

crop of tomatoes and bananas.

But while their crop yield grew, the local fertiliser dealretail price of di-ammmoni-Just as the yield was dip- um phospate (DAP) was pegged at Rs. 486 per bag, they taking unwanted pesticides.

"So, we decided to take up to grow seedlings on trays in- dealership of all the fertiliscrop in drips instead of flood- says Boopathy, Now, in the face ing and use water soluble fer- of the fertiliser crunch too tilisers so that the entire crop these farmers' outlets sellsgets uniformly adequate DAP at the MRP rate. Also, the company is now collectively The result: a micro-green selling the produce of all of a leading retail fertilizer out- revolution in the backyards its shareholding farmers to let in Dharmapuri. "Our com- of Dharmapuri. A marginal ensure a fair price for their vegetables and fruits.

"When multinationals sell brinjal in his one acre and 15 vegetables and fruits, why not the farmers?" asks E Vadivel. shareholders, have got Rs. 6,000 let. His weekly profit has now director, Extension Education of the TNAU. With bank loan times that of a middle-level and a tie-up with another private retailer, the farmers' com-A small-time farmer, G Mapany will provide online shop-

TIMES REGION

8

THE TIMES OF INDIA, CHENNAL TUESDAY, JANUARY 6, 2009

Dharmapuri farmer hits jackpot with brinjal

Jayaraj Sivan | TNN

Chennai: It makes for quite an inspiring story against odds - of not only the revival of a dying agricultural sector, but also of a group of farmers from Palacode, a taluk in Dharmapuri district, producing quite a few millionaires from among their lot by lending a corporate touch to farming operations.

Forty-three-year-old P M Chinnasamy, an eighth standard dropout and leader of the group, is now flying high after harvesting a record yield of 450 tonnes of brinjal from only three acres by following "precision farming" techniques introduced by the Tamil Nadu Agricultural University (TNAU). His income from the sale of brinjal touched Rs 45 lakh in 2008.

A beaming Chinnasamy told TOI, "Last January, at the time of raising the beingal nursery, I had set myself



MONEY SPINNER: Chinnasamy

the target of buying a Scorpio. By God's grace, I have achieved it. The price of brinjal fluctuated between Rs 7 and Rs 24 per kg. On an average, I received Rs 10 per kg for the entire yield." Chinnasamy's expenditure so far has hardly been Rs 1 lakh per acre, meaning he

has made a cool profit of Rs 42 lakh.

The brinial plants look quite healthy even after a year of raising and they will survive for another year, said Chinnasamy. Apart from heading the Adhiyaman Precision Farming Association (there are similar associations all over Dharmapuri and Krishnagiri districts). Chinnasamy is also chairmancum-managing director of Dharmapuri Precision Farmers' Agro Services, a firm incorporated under the Company's Act, which sells farm inputs. The entreprise was started two years ago, with equity contributed by 166 farmers, each bringing in Rs 10,000. Last year, the company paid Rs 4,000 as bonus to each promoter. "We will be able to return the balance equity - Rs 6,000 per head - this year," said Chinnasamy.

"We started precision farming technique in Tamil Nadu in 2005 at a very conservative estimate of Rs 7.2 crore for covering 1,000 acres of demon-

stration farms. We outbid Israel which quoted Rs 17.5 crore for the same work. Forty-five crops were covered under the scheme and Chinnasamy's village was selected for setting up the first model farm. Precision farming techniques include chisel ploughing, fertigation (manuring and watering through drip irrigation), raising a community nursery, integrated pest and disease management and sorting, and grading and labelling of produce. The benefits are double yields and economy in the use of water, power and labour. Also, 90 per cent of the produce is first grade," E Vadivel, TNAU's nodal officer for implementing precision farming in the state, said.

So far, 22,200 hectares of land and an equal number of farmers have been covered across Tamil Nadu under the precision farming initiative, Vadivel pointed out.

jayaraj.sivan@timesgroup.com

ரு.15 லட்சத்த

விளை பொருட்கள் ஏற்றுமதிக்கு நடவடிக்கை

தர்மபுரி, பிப்.2: தர்மபுரி மாவட்டத்தில் துல்லிய பண் ணைத்திட்டம் செயல்படுத் தப்பட்டு வருகிறது. இதில் உறுப்பினர்களாக உள்ள 150 விவசாயிகள் ஒன்றிணைந்து, தலா ரூ.10 ஆயிரம் முதலீடு செய்து தர்மபுரி பேருந்து நிலையம் அருகே உள்ள வணிக வளாகத்தில் அக்ரோ னத்தை துவக்கியுள்ளனர்.

இதன் தொடக்கவிழா நேற்று நடந்தது. நிறுவன தலைவர் சின்னசாமி லாளர் பூபதி வரவேற்றார்.

மாவட்ட ஆட்சியர் பங் கற்குமார் பன்சால் நிறுவ னத்தை திறந்து வைத்து, திட்ட விவசாயிகள் 150 பேர் விளை பொருட்களை வாங்கி குத்துவிளக்கேற்றி வைத்

இது குறித்து நிறுவன தலைவர் சின்னசாமி கூறிய உள்ளோம். தாவது: தமிழ்நாடு வேளாண் பல்கலைக்கழக விஞ்ஞானி களால், தமிழ்நாட்டில் முதன் முதலாக தர்மபுரியில் துல்லிய பண்ணைத்திட்டம் சா்வீசஸ் லிட். என்ற நிறுவ செயல் படுத்தப்பட்டு வருகிறது. இத்திட்டத்தின் மூலம் 200 விவசாயிகள் பயன்பெற்றுள்ளனர்.

துல்லிய பண்ணை விவ தலைமை தாங்கினார். செய சாயிகளுக்கு தேவையான தரமான இடுபொருட்கள் பனை செய்ய உள்ளோம். சரியான தருணத்தில் கிடைக்கும் வகையில், இத்

ஒன்றிணைந்து ரூ.15 லட்சம் முதலீடு செய்து இந்நிறு வனத்தை துவக்கி

இந்நிறுவனத்தின் மூலம் துல்லிய பண்ணைத்திட்டத் திற்கு தேவையான இடு பொருட்கள், நீரில் கரையும் உரம், உயிர் உரம், தரமான பூச்சி மற்றும் பூஞ்சான கொல்லி மருந்துகள், சொட்டு நீர் பாசன உபகரணங்கள், வீரிய ஒட்டு ரக விதைகள் ஆகியவற்றை குறைந்த விலை யில் விவசாயிகளுக்கு விற்

விவசாயிகளிடம் இருந்து கூறினார்.

பன்னாட்டு நிறுவனங் களுக்கு விற்பனை செய்யவும் முயற்சி மேற்கொள்ளப்பட இருக்கிறது. இதற்காக மாவட்ட ஆட்சியர், வணிக வளாகத்தின் ஒரு கடையை ஒதுக்கி தந்து உதவியுள்ளார். மேலும், தொழில்நுட்ப வல் லுனர்களை ஆலோசகர் களாக நியமித்து, விவசாயி களுக்கு உரிய தொழில் நுட்பங்களை தொடர்ந்து வழங்கவும் திட்டமிட்டுள் ளோம். இதற்கு, வேளாண்மை பல்கலைக்கழகம் எங்களுக்கு உறுதுணையாக உள்ளது. எதிர்வரும் காலத்தில், இவ்வாறு சின்னசாமி



M. ALLIRAJAN

ORTY-year-old G. Mahendran anxiously scans his mobile phone screen as he searches for that SMS from Safal, the fruit and vegetable brand of Mother Dairy, a cooperative promoted by the National Dairy Development Board. Until recently, Mahendran, a small farmer in Jarugu in Tamil Nadu's Dharmapuri district, had no way of knowing what price his produce would fetch at auctions. But Safal helps him track it, real time.

That's just one way Safal is endearing itself to farmers. The cooperative also liaises directly with farmers, helps them grade and auction their produce and charges them just 3.5 per cent in commission for all this, as against 10 per cent charged by local mandis.

So Jarugu's farmers have stopped selling their bananas in the marketplace and send their supplies directly to Safal. Not only do Safal stores give the farmers a better grading for their bananas, it also pays them in about a week's time, much quicker than the several weeks it takes middlemen. All this nets farmers much more than what they used to make. "We got nearly double the price offered to us by mandis," says A.K. Govindan, a farmer.

He and Mahendran are among 200 members of Dharmapuri Precision Farmers Association, a cooperative committed to modern farming. Each member has contributed Rs 20,000 to the cooperative, which in turn has floated an agro-services company, Dharmapuri Precision Farmers Agro Services Limited. Operated by and for farmers, the firm uses its capital to buy fertilisers and seeds in bulk, lowering input costs for its ing from the companies. The times are a changing.

shareholders by 5-10 per cent.

Another project helping farmers meet the challenges of new-age retail is the Tamil Nadu Precision Farming Project (TNPFP) run by the Tamil Nadu Agricultural University (TNAU). "The forum has given farmers negotiating power," says I. Muthuvel, assistant project officer, TNPFP. "We have also arranged for crop insurance." TNAU had also organised supply chain training with assistance from the Michigan State University in the US.

But problems remain. There are no cold storages in the area so farmers have to use expensive road transportation to reach mandis. S.R. Dhanasekaran, a farmer who raises watermelons and muskmelons in Dharmapuri, says he often fails to get his products to the market in time. "Though we have achieved good yields through precision farming, marketing and logistics continue to be weak links," says C. Boopathi, secretary, Dharmapuri Precision Farmers Agro Services.

In response, the association is now planning to set up packing houses and cold storage facilities on five acres of land it has leased near National Highway 5, which connects to Bangalore. Later, Boopathi says, the association will buy its own vehicles, introduce a grading system and bring its produce under a single brand. The results are seen in local tomato yields, which have gone up from 10 tonnes per hectare to 35 tonnes. This initial success has brought several retail chains including Reliance and Aditya Birla Group - knocking on local doors. Once Govindan and friends would have jumped at the chance of selling to such players. But now they've learnt the ropes and are negotiating hard by demanding stable pric-

Be precise; reap profit

Precision farming brings cheer to farmers in Tirupur

R. Vimal Kumar

TIRUPUR: S. Jaganathan (59), M.Palanisamy (61) and C. Kittusamy (59), are some of the progressive farmers in Tirupur block sporting broadly smiles as their quest for transformation from productive agriculture to profitable agriculture have started yielding desiring results. They credit the change in the fortunes to adoption of precision farming techniques after them being enthused to take up the practice by the Horticulture department during a campaign conducted in the block few months ago under the Centre-sponsored Rashtriya Krishi Vikas Yojana.

Productivity

"Productivity has almost doubled and profitability increased by about 35 percent vis-à-vis conventional techniques since precision farming methodology demands less manpower and help the plants develop effective root system needed for enhanced yield," Mr. Kittusamy, told The Hindu.

Mr. Kittusamy has brought onion as the primary crop and maize as the second crop, over a hectare, under the precision farming at his farm at Kovilvazhi during the season.

Under the scheme, the department extended subsidy assistance to help the bene-



REAPING BENEFITS: A farmer in Tirupur block checking his crops raised under precision farming methodology. – PHOTO: M. BALAJI

ficiaries set up drip and fertigation systems besides distributing water soluable fertilizers like mono ammounium phosphate and N:P:K 19:19:19 worth Rs 25,000 free to each of the farmers covered.

For Mr. Jaganathan, who has been cultivating turmeric, onion, tomato and chillies at Muthanampalayam village for the last 30 years, the adoption of precision farming method had increased his op-

erational efficiency considerably. "With input costs trending higher and labour shortage becoming severe owing to migration of agricultural labourers into textile and other industrial sectors seeking better remuneration, the tools offered by precision agriculture come in handy for us to have a uniform field stand of crops that increases the yield by about 50 per cent," he pointed out.

Mr. Palanisamy said that

the produce from precision farming had been found to better in quality and commands premium rates in the market.

P. Santhanakrishnan, Assistant Director of Horticulture, said that the department has chalked out plans to take the technology to more farmers by taking them out on exposure visits to farms where precession farming had yielded better dividends.



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NOV 2007

Date / Ime : 08/10/2007 18:34:24

TNAU

Agent Number:

Serial Number	Reference	Application Number	Title/Remarks	11	Amount	Fee Payment
i		2265/CHE/2007	DOUBLING THE PRODUCTIVITY OF CROPS AND ENHANCING THE WEIGHT PER UNIT VOLUME OF THE PRODUCE BY 25 PER	10000	10000	Fuii '
	Total	HARLES THOU	Maria New Last Conference on the Conference of t	110000	110000	MARKET SE

Received a sum of Rs. 10000 (Rupees Ten Thousand only) through

Payment Mode	Rank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	State Bank or India	292887	17/08/2007	4000
Draft .	State Bank of India	294285	20/09/2007	6000



Evaluation of Market-Led-Horticulture under the Tamil Nadu Precision Farming Project K. Rajeshkanna ¹, R.K.Theodore² and S.D.Siyakumar³

ABSTRACT

The study was conducted in Dharmapuri and Krishnagiri districts of Tamil Nadu with 120 project farmers of the Tamil Nadu Precision Farming Project, With an aim to assess the perception of the farmers towards market-led-horticulture implemented under the project. The perception on market-led-horticulture was assessed by considering four dimensions viz., market assessment and decision-making, marketing assistance, market-led-production, and group formation. It was found that a majority of the respondents of both the districts possessed a highly favourable perception towards these four dimensions of market-led-horticulture. All the respondents felt that technologies like drip irrigation, fertigation and chemical pesticides are expensive when compared to conventional farming. A large proportion of the respondents felt difficulty in transporting produce to long distance markets even though opportunities existed for better price.

The horticultural sector is undergoing a rapid transformation owing to the opportunities emerging due to the WTO. In tune with this, there is a shift from productionoriented cultivation to Market-Led-Production as the horticultural sector has begun to respond to a new kind of strategy. Market-Led-Horticulture(MLH) encompasses sensitivity of farmers to market behavior, price, demands, etc., and a thorough knowledge of consumer need dynamics. MLH is possible with the latest state-of-the-art technologies including precision farming. Precision farming is a management strategy that employs detailed and site-specific information to precisely manage production inputs. Precision farming has arisen mainly in response to advances in technology, rather than through development in the fundamental sciences, which support agriculture. Precision farming envisages precise packages of crop cultivation at micro level, which enable to increase the productivity and maintain sustainability.

Keeping the above factors in mind the policy planners of the Government of Tamil Nadu sowed the seed by way of funding the Tamil Nadu Precision Farming Project (TNPFP) for implementation by the Tamil Nadu Agricultural University (TNAU), Coimbatore. The turnkey project envisages market-led-production by way of assessing the market potential for a variety of vegetable crops, to mobilize marketing support from national and

^{1.}Ex-PG Scholar, Dept. of Agrl, Extension, Tamil Nadu Agricultural University, Coimbatore

^{2.} Professor (Agrl. Extension), Tamil Nadu Agricultural University, Coimbatore

 $^{3.} Professor, Dept.\ of\ Agrl.\ \&\ Rural\ Management,\ Tamil\ Nadu\ Agricultural\ University,\ Coimbatore$

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B ASAITHAMBI, B.Sc., Joint Secretary to Government.



Planning, Development and Special Initiatives (SP) Department, Secretariat, Chennai-600 009.

Tele fax No : (044) 2567 8830

D.O. Letter No.8739/SP.1/2007, Dated 23.6.2008

Dear Sir,

Sub: Annual Plan 2008-2009 – Summary Record of Working Group discussions and wrap-up meeting held at Union Planning Commission on 21.2.2008 under the Chairmanship of Shri Anwarul Hoda, Member, UPC to consider the sectoral breakup of outlays for the Annual Plan 2008-2009 for Tamil Nadu - Regarding.

Ref: From the Director (FR & SP-TN), Union Planning Commission, D.O.No.13014/24/TN/2007-SP(S), dated 08.05.2008.

I am to enclose a copy of the Summary Record of the Working Group discussions and wrap-up meeting held in Yojana Bhavan, New Delhi on 21.2.2008 under the Chairmanship of Shri Anwarul Hoda, Member, Union Planning Commission to consider the sectoral breakup of outlays for the Annual Plan 2008-2009 for Tamil Nadu.

- 2. The specific points raised in the Summary Record in respect of your Department are indicated below:-
 - During 2007-2008, a sum of Rs.185 crores has been allocated for ACA under RKVY. To continue to avail assistance under RKVY and to maintain its share, State should consider enhancing outlay in Agriculture and Allied sector depending upon availability of resources.
 - i. The State should continue its endeavor of adopting scientific precision farming in major crops which has resulted not only in increase in productivity but also substantial decrease in the cost of cultivation which ensures higher returns to the farmers.
 - iii. The State should focus on cent percent coverage of farmers by providing them with Soil Health Cards and making soil testing facility available to the farmers at affordable rates.
 - iv. As regards National Horticulture Mission, the basic issue is lack of and sub standard planting material. There are 56 State farms which State should utilize for producing quality planting material and making it available to the farmers.

No. M-13048/24(TN)/2008/SP-S Planning Commission (State Plan Division)

Subject: Summary Record of the Working Group and Wrap up Meetings on the Annual Plan 2009-10 of Tamil Nadu held on 06.02.2009.

The Working Group Meetings were concluded with the Wrap-up Meeting Chaired by Shri Anwarul Hoda, Member. Reports of the Working Groups are annexed.

- 2. Member (AH) welcoming the officials of the State Government hoped that the discussions in the Working Group Meetings for the Annual Plan 2009-10 had been fruitful. The Financial Resources of the State are realistic and the State has regularly achieved the proposed outlays.
- 3. Sectoral view points that emerged in the meeting were:
- a) <u>Agriculture</u>: The total area under foodgrains is expected to increase from 37.6 lakh hectares in 2007-08 to 45.50 lakh hectares in 2008-09. Tamil Nadu has done well in irrigated agriculture particularly rice, sugarcane and groundnut. Foodgrains production is expected to increase to 84.45 lakh tones during 2007-08. On RKVY, the effort of the State in precision farming was appreciated. The State has taken several initiatives for increasing agricultural production. While agricultural production is improving, the deficiency/ shortfall in pulses production needs attention.
- **b)** Rural Development: The State Government should make all efforts to complete the physical & financial targets for the various schemes under Rural Development. Under NREGA, 30 districts have been covered and the State Govt. has fixed a wage rate of Rs.80.00. In Tamil Nadu, during 2007-08, 12.59,983 households have been provided employment, generating 645.25 lakh person days. 27,71,072 households have been provided employment (upto 05.02.2009) during 2008-09.

The housing programme of Bharat Nirman is implemented as a sub-set of IAY. The implementation of the scheme has been satisfactory & physical targets have been achieved. The target for 2007-08 and 2008-09 has been set at 21.27 lakh houses (allocation Rs. 4040 crore) and 27.96 lakh houses (allocation Rs. 5400 crore), respectively. The progress under SSA and Mid Day Meal Scheme are satisfactory.

- **c) SCSP/TSP:** The Working Group on Social Justice & Tribal Affairs advised the State to prepare document for SCSP/TSP adhering to the guidelines of the SCSP/TSP for formulation, implementation and monitoring.
- **d)** <u>Power:</u> The TNEB is responsible for generation, transmission & distribution of electricity in the State. In additional to its own generation, the State is getting power from private sector plants, its share from Central sector generating plants etc.

The SERC has been constituted and the first tariff award was done in March, 2003. It has been proposed to unbundle TNEB with 2 subordinate companies for (i) Transmission and for (ii) Generation & Distribution. The Working Group for Power Sector has indicated that separate companies may be set up for Generation & Distribution, respectively. The T&D losses are estimated at 18%. The feeder separation programme may be taken up and energy audit to assess the actual

- Quality seed distribution and promotion of Seed Village concept to produce quality seeds in farm holdings.
- Self Help Groups (SHGs) are also encouraged for seed production through suitable training besides Seed Village programme.
- Scientific cultivation by adoption of all technologies with drip fertigation through precision farming.
- Bringing every piece of cultivable land under cultivation and to bring considerable area of fallow lands under cultivation.
- Effective use of information and communication technology in agriculture for speedy transfer of information like technology, weather forecast, market trend and assistance extended to farmers through various government schemes.
- Agriculture Technology Management Agency scheme to be expanded to all districts of Tamil Nadu.

Irrigated Agriculture Modernization and Water Bodies Restoration and Management (IAMWARM)

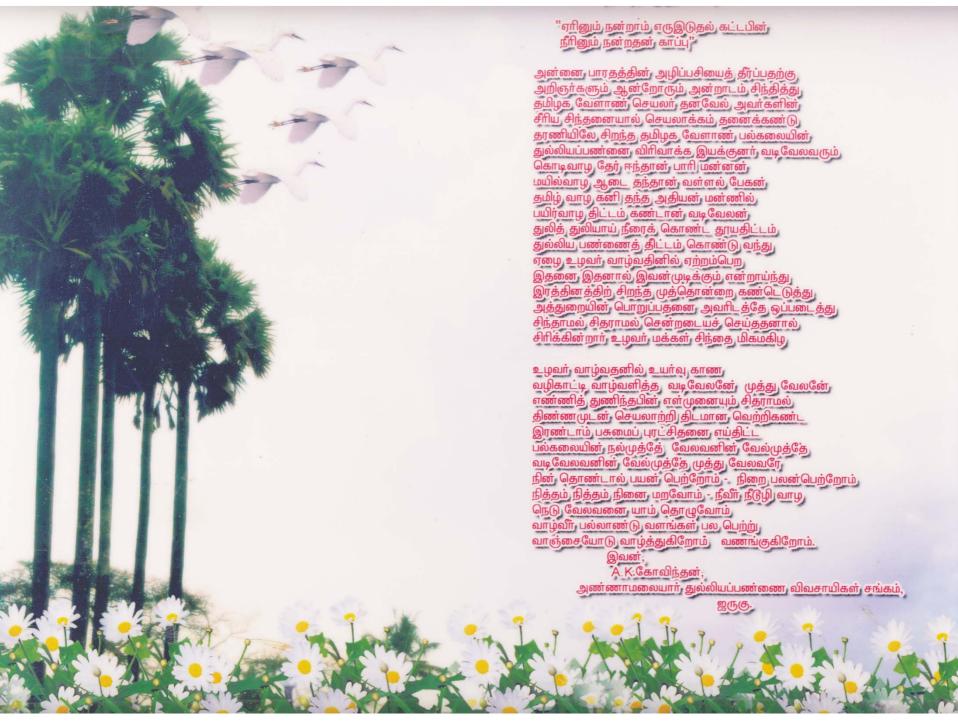
Irrigated Agriculture Modernization and Water Bodies Restoration and Management (IAMWARM) Project in Tamil Nadu is being implemented with the assistance of World Bank over a period of six years (2007-08 to 2012-13) through Water Resources Organization (WRO) and Agriculture, Horticulture, Agricultural Engineering, Animal Husbandry and Fisheries Departments along with Tamil Nadu Agricultural University. During 2007-08, the project was implemented in 9 selected sub-basins under Phase-I programme. During 2008-09, the scheme is implemented additionally in 16 selected sub-basins under Phase-II programme. During 2009-2010 it is proposed to implement the project additionally in 38 sub-basins under Phase-III programme.

National Food Security Mission (NFSM)

Mission programme on rice is being implemented in Nagappattinam, Thiruvarur, Pudukkottai, Ramanathapuram and Sivagangai districts; and on pulses in Coimbatore, Cuddalore, Erode, Nagapattinam, Namakkal Thiruvallur, Thiruvarur, Thoothukudi, Thiruvannamalai, Vellore, Villupuram, and Virudhunagar districts. Working Group noted that the State has a shortfall of pulses and needs to increase the production.

Rashtriya Krishi Vikas Yojana (RKVY)

During 2007-08, Government of India released an amount of 153.60 crore including Rs.2.90 crore towards the preparation of District Agricultural Plan. During 2008-09, the allocation is Rs 140.38 crore of which Rs 70.19 crore has been releasd so far. For 2008-09 the schemes are proposed to be implemented in Erode, Tiruchy, Vellore, Thiruvannamalai, Cuddalore, Sivagangai, Virudhunagar, Theni, Thirunelveli as focus districts with an outlay of Rs.129.56 crore. Under National Agricultural Development Programme it is proposed to take up Precision Farming in 9400 hectares at a cost of Rs.4202 lakh. Agri-clinics will be established in 161 blocks at a cost of Rs.515.20 lakh. Dryland farming development activities will be implemented in 30 blocks at the rate of 150 hectares per block at a cost of Rs.515.15 lakh. Organic farming and organic manure production in 130 blocks at a cost of Rs.910 lakh. Quality seed production and distribution is proposed for Rs.1075.19 lakh. The agricultural mechanization has been proposed to be implemented at a cost of Rs.2579.55 lakh.



தருமபுரி மாவட்ட துல்லிய பண்ணை விவசாயிகளின் பாராட்டு சிறப்பிதழ்

''கல் தோன்றி மண் தோன்றா காலத்தே தோன்றிய மூத்த தமிழ் ''

- இது ரும் தமிழ் மொழிக்கு வெருமை

உலகீல் எத்தனை தொழில்கள் இருந்தாலும் "உழுவார் உலகத்தார்க்கு ஆணி" மற்றும் "உழந்தும் உழவே தலை" என்னும் வள்ளுவன் கூற்றுபடி இவ்வுலகத்து உயிரினங்களின் பசி போக்கி காப்பகினால்

- இது உழவுத் தொழிவுக்கே வமுமை

வேளாண்மைத் தொழில் பல முனை நெருக்கடிகளினால் சிதைக்கப்பட்டு சீரழியப் போகும் நிலையில் துல்லிய பண்ணைத் திட்டத்தினை அறிமுகப்படுத்தி வெற்றி கண்டதினால்

- இது இந்திய துணைக்கண்டத்திலேயே தமிழ்நாட்டுக்கு வெருமை

கிடைத்த இத்திட்டத்தினை மிக சிறப்பாக செயல்படுத்தி அதில் வெற்றியும் கண்டதினால் -*இது தரும்புரி மாவட்டத்திற்கே வெருமை*

இத்திட்டத்திற்கு உயிர், உடல் இரண்டையும் தந்து அதனை வெற்றித் திட்டமாக உருவாக்கியதால்

- இது தமிழ்நாடு வேனாண் பல்கலை கழகத்திற்கு பெருமை

இத்திட்டத்தினை செயல்படுத்த வேளாண்மை பல்கலைக் கழகத்திலிருந்து வடிவேலன் என்ற குருவையும், முத்துவேலன் என்ற சீடரையும் அனுப்பி வைத்து இதனை மிக சிறப்பாக செயலாக்கி, வெற்றித் திட்டமாக்கியகால்

- அண்மையில் நூற்றாண்டு விழா வகாண்டாழ பெருமையுடன் விளங்கும் குவளாண்மை பல்கலைக்கழகம் மீண்டும் மீண்டும் பெருமையடைகிறது.

ஒரு பல்கலைக்கழகமே உழவன் வீட்டு கதவைத் தட்டி தமது ஆராய்ச்சிகளையும், கண்டுபிடிப்புகளையும் செயல்படுத்தியதோடு நில்லாமல் மூன்றாண்டு காலம் அவர்களுடனேயே வாழ்ந்து வெற்றி கண்ட விந்தையால்

- நம் தமிழ் கலாச்சாரம் பெருமையடைகிறது

சுட்ட பழம் வேண்டுமா சுடாத பழம் வேண்டுமா என்று தமிழ் மூதாட்டி ஒளவைக்கே அறிவு புகட்டினான் அன்றைய வடிவேலன். அதே தகடூர் மண்ணில் நம் வாழ்வில் ஒளி வீச தொழிலில் ஏற்றம் கண்டிட நமக்கெல்லாம் புது வாழ்வு கொடுத்த வடிவேலனின் மறு அவதாரமாகிய இயக்குனர் டாக்டர். வடிவேல் அவர்களால்

- இத்தியம் பெருமையடைந்தது.

பல்கலைக் கழகம் என்னும் சிப்பிக்குள் வடிவேலன் கண்டெடுத்த நல் முத்தாம் டாக்டர். முத்துவேல் அவர்களின் சீரிய பணியால்

-மேற்கண்ட அணைவருமே வபருமையடைந்துள்ளோம்.

எங்களுக்காக உங்கள் சீரிய பணி தொடரவும் நீண்ட நெடுங்காலம் நீவீர் வாழிய பல்லாண்டு! பல்லாண்டு! என நெஞ்சம் நிறைந்த வாழ்த்துக்களையும். இதயம் கனிந்த நன்றிகளையும் நாங்கள் பெருமையுடன் சமாபிக்கீன்றோம்.

> மகாத்மா காந்தி துல்லிய ப<mark>ண்ணை விவசாயிகள் சங்கம்,</mark> பாப்பிரையுடிப்பூடி,

Makkal TV: Malarum Boomi 30 minutes programme

BBC Thamizhosai London: Two hrs and thirty minutes

E Tv: Andrapradesh: one hour programme

