

## Mr Sadayappan –Organic Famer, Innovator and Green Entrepreneur



Mr. Sadayappan aged 44 years residing at Odaipatti village near Ottanchatram Taluk Dindigul district, Tamil Nadu studied up to 8<sup>th</sup> standard a successful agricultural entrepreneur doing farming with 4.75 acres of land. He is growing sapota, Indian gooseberry, coconut, citrus (*narthai*) and maintaining the farm in an integrated farming system. The reason for success is he makes all the produce into value added products. He started 'Parvathy food products' in 2006 as cottage enterprise and started selling *Panchakavya* (for animals, plants and poultry birds), value added products of gooseberry, various pickles, herbal decoction/tea powder, herbal bathing powder .His sales turn over is Rs 10,000 - 22,000.



**i) Adding Amla to improve keeping quality of *Panchakavya*:**

Initially he prepared and used *panchakavya* to improve fertility of soil and crops. He found that whenever Amla/indian gooseberry added to *panchakavya* he found it is not too much acidic especially while given animals and birds. Then he continued to add 4 kilos of amla in 200 litres of barrel of *Pachakavyas* solution. In addition to amla he also added honey 1.5 liter, dates fruits 2 kg, Yeast 100 gms and grape fruits 5kg.

Now his composition is given below:

Ingredients needed to prepare 200 liters of *panchakavya*:

Cow dung – 25 kg

Cow urine – 20 liters

Milk – 10 liters

Curd – 10 liters

Ghee – 2 kg

Grapes – 5 kg

Dates – 2 kg

Honey – 1 liter

Gooseberry – 5 kg  
Banana fruits – 200 number  
Sapota fruits – 2.5 kg  
Papaya fruits – 5 number  
Fruits of *Borassus flabellifer* – 10 numbers (Palmyrah fruits-*Panambalam*)  
Turmeric powder – 1kg

First add cow dung with ghee and mix it thoroughly and place it for 3 days then add the remaining materials and keep it under shade condition for 18 days. The mixture is stirred clockwise twice a day. Using sprayer add 100 ml panchakavya is mixed with 10 liters of water to spray drumstick, chillies, groundnut, cotton. 200ml of *panchakavya* is used to spray for sapota, paddy and mango.

His farm is with one cow, calf some chicken and ducks. In one acre he has planted Co4 fodder and planted sorghum in ½ acre of land within the farm.

He is not using any external chemical fertilizer or chemical inputs to his farm. He uses only organic manure and natural manure / preparations. He prepares vermin compost in his own farm. He uses drip irrigation system for water management in his farm. He uses a technique for irrigation using one connection for two compressor motors (5hp + 5hp), by this with less electric consumption more water is used.

He also raises chilli, carrot, beetroot and lemon. Initially the chilli plants were infested by pests but Sadayappan didn't bother about it and left unsprayed but later all the pests got disappeared and chillies regenerated. Usually his land is not fit for growing carrot but his farm is grown with carrot and beetroot.

He gets extra income for good quality produce i.e. for amla extra price of Rs 5 per kg and for sapota extra price is Rs. 2 per kg. He is selling sapota @ Rs.5 per kg and gooseberry @ Rs. 30 per kg to retailers. He also goes to plumbing work in surrounding villages. His monthly income by selling value added farm products is Rs 10,000 to Rs 20,000.

## **2. Herbal Tea Powder**

Herbal tea is prepared of 10 herbal components: dried ginger (sukku), coriander, pepper, cardamom, adhimadhuram, nannari ( *Hemidesmas indicus* ), rose flower, hibiscus flower, lotus flower and avaram (*Cassia auriculata*) flower. The product is packed and he is selling them locally.

## **3. Herbal bathing Powder**

Herbal bathing powder is prepared of herbal components : amla, usilai (*Albizia amara* ) , fenugreek, sihakai (*Acia sinuata* ) , madhurankai, poondhikottai (*Sapindus emarginata* ) , vetiver, adhimadhuram, neem leaves, pudhina, *Cassia auriculata*, hibiscus flower & leaf, vasambu, tiranootrupattchai leaf (*Ocimum basilicum*) , marikolundhu (*Aristolochia labiosa*) , perunerunji mullu (thorny part of *Pedalum murex*) , dried lemon, pepper, kollu (horse gram ) , ulundhu(black gram), curry leaf, patchakadalaparupu (Bengal gram ) , poolankilangu ( *Phyllanthus multiflorus* ) , kasturi manjal, rose flower, green gram , amla leaves. He is selling in small pockets locally and earns minimum of Rs 10,000 per month.

## **4. Using Panchagavya for organic Groundnut cultivation :**

First add cattle manure as basal fertilizer after ploughing. After 15 days of sowing mix *panchakavya* through irrigation water (5 liter *panchakavya* for 1 acre). This should be followed for 3 times at 10 days interval. At the 40<sup>th</sup> day after second weeding add one tractor load of poultry manure also is mixed with irrigation water . At pod development stage spray *panchakavya* at the rate of 1.5 liter *panchakavya* for 1 acre in 200 litres of water.

## **5. Organic preparation for Cultivation of Chilli(*Capsicum* sp.):**

He cultivated chilli in 5 acres. He prepares organic fertilizer / pesticide by using the following method. 1.5 kg asafoideta, 10 kg jaggery soaked in 10 liters of water for 3 to 4 days. After that the solution is mixed with irrigation water for 5 acres. The same mixture is mixed with 200 liters of water for foliar spray and it controls flowers dropping and protect against root rot caused by nematodes or pests.

## **5. Organic liquid fertilizer for fruit trees :**

The liquid fertilizer is prepared and sprayed for once in a month. arapu thool (*Albizia amara* )-5 kg + butter milk -5 liters, matured coconut water -5 liters +

tender coconut -5 liters all the components are mixed well and allowed for fermentation for one week. 50 ml of the mixture is diluted in 10 liters of water. To prepare booster for development of micro organisms - papaya 3 kg, pumpkin 3 kg, banana (karpooravalli variety) 3 kg, palm jaggery 3 kg, fertile soil 2 kg, all these are added with 20 liters of water in air-tight barrel. It will be kept as such for 20 days. One liter of this mixture is diluted with 20 liters of water and sprayed. 30 – 50 ml of the solution is sufficient for mixing in water of one spray tank when used as foliar spray. 500 ml is used to spray in soil at the root zone of one tree.

## **6. Using two Pumpsets in a single electricity connection**



He has extended the bed length of compressor motor and connects the pulley through the belt on bothsides with two motors. The original pulley size of 6” has been reduced to 5”. This arrangements saves electricity and able to draw water from 2 borewells at a time.

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