



KVK TIMES

A Window to KVKs of ICAR-ATARI, Zone-XI, Bengaluru

Volume: 02, Issue: 05, 1-15 September 2023

OUR FARMERS OUR PRIDE



ICAR - Agricultural Technology Application Research Institute, Zone - XI, Bengaluru
ICAR - KLE KRISHI VIGYNA KENDRA, BELAGAVI - II

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ICAR-KLE Krishi Vigyan Kendra, Mattikopp, Belagavi

Published by

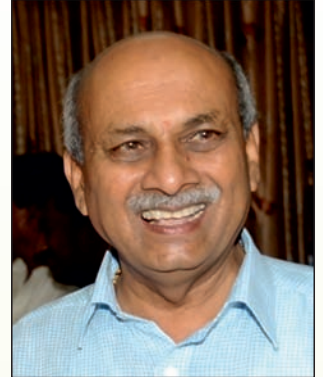
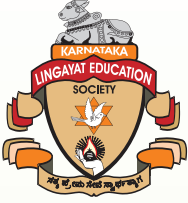
**ICAR-KLE Krishi Vigyan Kendra, Mattikopp,
Belagavi**

Under the guidance of

ICAR-ATARI, Zone-XI, Bengaluru



FOREWORD



Dr. Prabhakar B. Kore

Ex-Member of Parliament
(Rajya Sabha)
CHAIRMAN
KLE Society, Belagavi
CHANCELLOR
KLE Academy of Higher Education and Research, Belagavi
KLE Technological University, Hubballi
Karnataka, India.

The concept of Krishi Vighna Kendra emerged to ensure effective transfer of agricultural technology to farming community of the country as part extension mechanism of the Dept of Agriculture and Education under Ministry of Agriculture and Farmers Welfare, Govt. of India. The KVK's set in each district across the nation are taking the technologies to the farmers' door steps and their implementation has led to enhanced production and productivity of farm lands in the country. This is especially relevant in the new challenges to agriculture emerging out of climate change and the herculean task of providing millions across the nation with nutritious and healthy food.

While the ICAR- KVK network is doing a wonderful job across the nation, it is also important to take these stories of development to people across the nation in order to inspire action. I am happy to learn that ICAR- ATARI, Zone XI, Bengaluru is bringing out fortnightly e-newsletter in the name of KVK TIMES. This documentation of these trials and the success stories of farmers working in association with the administration will go a long way in ensuring a future characterized by food security and self-sufficiency.

While congratulating and complimenting all the KVK staff and ATARI, Bengaluru for this endeavour, I convey my best wishes to the editorial team and experts in bringing out this publication.

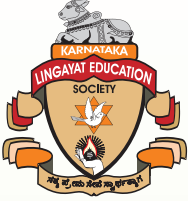
Date: 15-09-2023

(PRABHAKAR B. KORE)

Chairman
Board of Management
KLE Society, Belagavi



MESSAGE



B. R. Patil

Chairman

ICAR-KLE Krishi Vigyan Kendra
Mattikopp



Indian Council of Agricultural Research is striving hard to plan and execute need based research and advance technologies suiting to local climatic conditions across the country. Krishi Vigyan Kendras (KVKs) also known as Farm Science Centres are the key first line extension systems in India which are integral part of National Agricultural Research System (NARS). Krishi Vigyan Kendras being one of a kind in the world, function with the main objective of transfer of technology coupled with evaluation and refinement of proven technologies to suit the site-specific farming situation prevailing in each district KVKs attempt to increase the net returns of farmers and also augment self-employment opportunities among farming communities in agriculture and allied enterprises. KVKs conduct need-based training for farmers to update their knowledge and skill in state-of-the-art agricultural technologies, secondary agriculture, animal husbandry and other allied sectors for improving the agricultural economy of the district.

Since KVKs are implementing diversified interventions based on the needs of the farming community in agriculture and allied fields, several farmers have achieved a major shift in the farming and gained success in reaching economic self-sufficiency. These farmers are role models to fellow farmers in the district and are able to create impact on replacement of un-effective technologies with diversified, eco-friendly and resource conservation practices in other areas.

In this connection, ICAR- ATARI, Bengaluru has created a platform to facilitate the dissemination of such valuable wealth of knowledge through KVK TIMES. The initiative of ATARI Zone XI to showcase the success of the farmers through success stories with special edition of KVK TIMES is a commendable task. It will result in boosting of the morale of the unreached farmers to increase the exposure and cross learning among KVKs.

This newsletter prepared by KVK, Belagavi II gives an excellent overview of the success stories of achievers in the jurisdiction of all 48 KVKs in the ATARI, Zone XI. I am sure this publication will guide extension workers and farmers to re-orient their further efforts to enhance food production and income of farmers in the country.

I take this opportunity to appreciate the combined efforts of ATARI, Bengaluru and KVK, Belagavi II for neatly compiling the success stories in the publication.

Date: 15.09.2023


(B. R. PATIL)



FROM THE DIRECTORS' DESK**Dr. V. Venkatasubramanian**

Director
ICAR-ATARI, Zone-XI,
Bengaluru



The Indian Council of Agriculture (ICAR) premier organisation has immensely contributed to Indian agriculture. The council has always been ahead of its times and visualising the future agriculture scenario and accordingly developing appropriate futuristic technology solutions for farmers through Krishi Vigyan Kendras. KVK also develops competent human resources and trained manpower and is reaching out to farmers to train them and demonstrate various technologies at their fields to ensure adoption of latest technologies. The KVK also coordinates with various stakeholders to mitigate challenges confronted by Indian agriculture.

Indian Council of Agricultural Research, in the recent past, has reoriented its research for developing technologies for addressing the national priorities and market demands. ICAR has embarked upon working for standardization, validation and demonstration of organic and natural farming including chemical-free technologies through its research institutes and KVK network.

In the agriculture sector, Krishi Vigyan Kendras are playing a vital role and are mainly involved in the transfer of latest technologies from lab to land, enhancing the income of the farming community.

I am happy to note that a first of its kind virtual platform, KVK Times, which documents progressive farmers' success stories both in written and video form, which was placed in QR code form; these news items covered in special issues called "OUR FARMERS OUR PRIDE" made an impact that is long-lasting. Most of the success stories published in the Times have got the potential and are educative, and help in cross-learning among KVKs and are worth reading. This type of documentation certainly helps the farmers to boost their knowledge in the zone.

I appreciate the sincere efforts of Senior Scientists and their team for compiling the KVK Times.

(V. VENKATASUBRAMANIAN)



ACKNOWLEDGEMENT

Mrs. Sridevi B. Angadi

Senior Scientist & Head
ICAR-KLE KVK, Mattikopp
Belagavi-II



It is a matter of great privilege for me to express my profound gratitude to Dr. V. Venkatasubramanian, Director, Dr. Mallikarjun Hanji, Nodal Scientist of our KVK and all the Principal Scientists and staff of ICAR-ATARI, Zone-XI, Bengaluru for providing us an opportunity to bring out KVK TIMES of Zone-XI for this fortnight from 1-15 September, 2023. I sincerely thank Dr. Prabhakar B. Koreji, Chairman, Board of Management, KLE Society, Belagavi and Shri. B.R. Patilji, Chairman, ICAR-KLE KVK, Mattikopp for their constant support and encouragement in over all development of KVK and implementation of KVK activities and supply of quality inputs to serve the farmers of the region.

I wish to place on record our sincere thanks to all my fellow colleagues of KVK family

Zone-XI for their sustained efforts in sharing the requisite information in time which largely helped to precisely compile and bring out the final edited issue of KVK TIMES for the first fortnight of September 2023.

I profusely thank my KVK colleagues for their unstinted support in compiling the News letter and offering valued suggestions to bring out this issue. Finally, I thank Shri. Manjunath P.I., Technical Officer (Computer Application) and Smt. Veena Bannur (Stenographer) and Shri Bhavani Offset Printers., Hubballi, Karnataka for systematically designing the cover pages.

Date: 15.09.2023

Place: Mattikopp

Sridevi
(SRIDEVI B. ANGADI)



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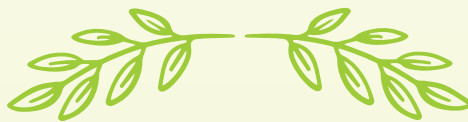
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**AWARD WINNING
FARMERS OF
OUR ZONE -XI**



“I would rather be on my farm than be emperor of the world.”
- George Washington





**PADMASHREE
AWARDEE
FARMERS**



“Cultivators are the most valuable citizens... they are tied to their country.” - Thomas Jefferson



KVK UTTARA KANNADA

Smt. Tulsi Gowda

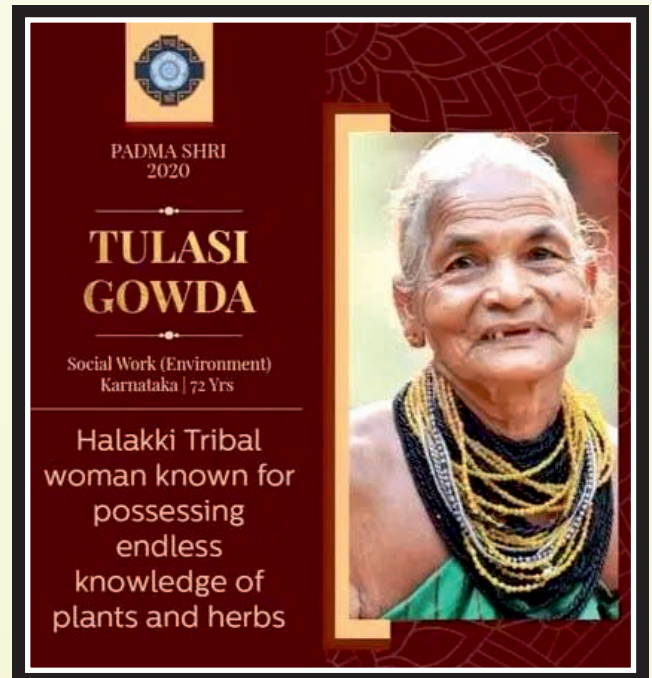
At : Honnali
Tq : Ankola
Contact No. : 8197228177

Padma Shri Award, 2020

Awarded by Govt of India

Encyclopedia of forests

Protection of the environment
from past 6 decades,
planted more than
30000 saplings



"The Nation that destroys its soil destroys itself."
- Franklin D. Roosevelt



KVK, DHARWAD

Abdul Khader Nadakattin

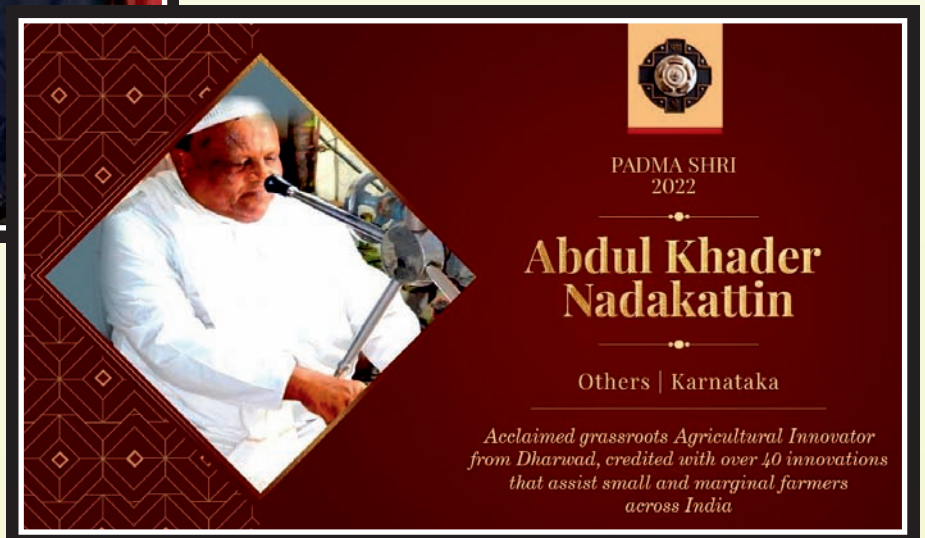
Vishwashanthi Agricultural Research and Industrial Development Center,
R.S.No. 836/1B, Hebsur Road,
Horakeri Oni, Annigeri,
Tq: Navalgund, Dist: Dharwad,
Pin-582201, Karnataka,
Contact No. : 9632518730

Padma Shri Award, 2022

Awarded by Govt of India

Farm Implements

More than 40 innovations that assist small and marginal farmers



"To be a farmer is to be a student forever, for each day brings something new." -John Connell



KVK, DAKSHINA KANNADA

Amai Mahalinga Naik

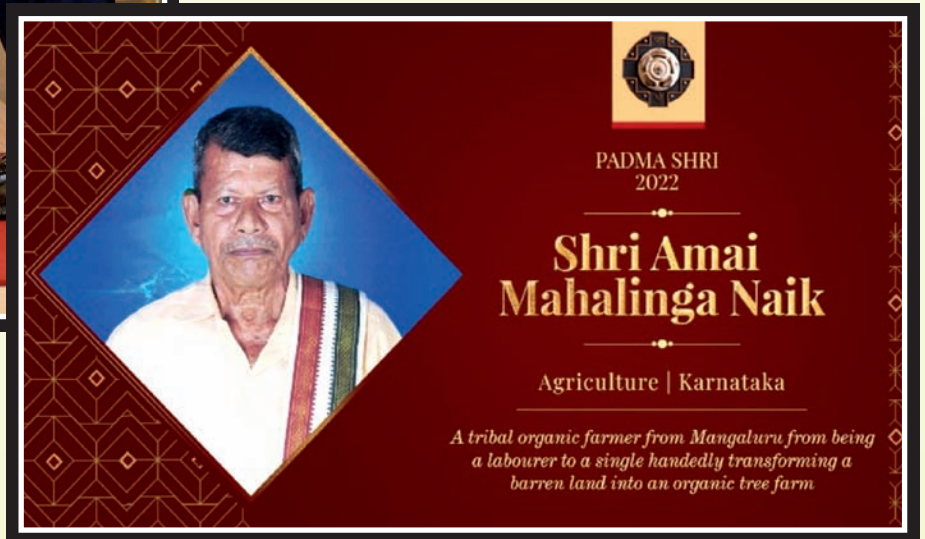
3-214, Amai House
Kepu Village, Adyanadka Post
Bantwal Taluk, Dakshina Kannada
Karnataka-574260
Contact No. 9449981747, 9036312747

Padma Shri Award, 2022

Awarded by Govt of India

Water Harvesting

He is known as “One-Man Army” and “Tunnel Man” in his surrounding areas. He single handedly dug 7 tunnels to transform barren land into lush green farm. Constructed 300 percolation trenches. Built 2 revetments and a tank of 12000 liters capacity.



“Farming is not just a job. It’s a responsibility and a privilege.”
- Joel Watson



KVK, WAYNAD

Cheruvayal K. Raman

Kammana - 670645
Taluk : Mananthavady
District: Waynad

Padma Shri Award, 2023

Awarded by Govt of India

Conserving Over 60 Rice Varieties

Collection Of Rice Varieties - Mannu Veliyan, Chembakam, Thondi, Chennellu, Channalthondi, Chettuveliyan, Kalladiyan, Palveliyan, Kanali, etc., and aromatic rice varieties like Gandhakashala, Jeerakasala and Kayama used to prepare biriyani.



“Farming is a calling. A calling to risk everything, to provide everything, for everyone.” - Kelly Griggs





**PPVFRA
AWARDEE
FARMERS**



“As long as there’s a few farmers out there, we’ll keep fighting for them.” - Willie Nelson



Belagavi-II

Shri. Shankar Langte

At Post: Gundyenatti,
Khanapur Taluk,
Belagavi District

Conservation of traditional
paddy varieties

PPVFR, New Delhi- Plant
Genome Savior Award
(Farmer Recognition):



Belagavi-I

Shri. Shivagouda M Patil

Address: At/Post:
Pogathanatti, Tq: Chikkodi,
Dist: Belagavi (591222),
State: Karnataka
Contact No.: 8722141489

Horticulture -Adoption of 72
varieties of Banana, 12
varieties of mango, 8
varieties of Guava, 4
varieties of Jackfruit, 6
varieties of sweet potato, 3
varieties of Turmeric, 3
varieties of Ginger, 3
varieties of Mint, 5 varieties
of Lotus, 8 varieties of Rose
and 96 different types
Horticulture crops from
nook and corners of the
world

PPVFR, New Delhi- Plant
Genome Savior Award
(Farmer Recognition):
2018-19



Ballari

Sh. Katrahalli Kallappa

Uttangi, Hoovina Hadagali
Taluk, Vijayanagara
(Old Ballari)
Mobile: 9480653790

Plant Genome Saviour Award

Indigenous seeds (Desi
seeds) Katrahalli Kallappa
has conserved



KVK Dakshina Kannada

Mr. B. K. Devarao

Mittabagilu Village,
Belthangady Taluk
Contact No.: 9448287051

Plant Genome Savior Reward
for the year 2020-21 &
2021-22

Agriculture - Rice
Germplasm Conservation



KVK Davanagere

Mr. Anajaneya A.N.

Address : S/o Nagappa A.
Kumbaluru at Post
Harihara taluk
Davanagere District
Contact No.: 9972088929

Plant Genome Savior Reward
by PPV & FRA, New Delhi,
2013-14.

Conservation of traditional
Rice varieties



“To forget how to dig the earth and to tend the soil is to
forget ourselves.” -Mahatma Gandhi



KVK - Mysuru

Shankarguru M.K,
S/o M. Kempanna, Organic
Farmer & Seed Grower
Madrahalli Village, Kannalli
Post, T. Narasipura Taluk,
Mysore Dt. Karnataka - 571442
Phone: +919900658921

Plant Genome Savior Farmer
Recognition awardee,
2014-15

Paddy Variety, NMS 2



KVK - Mysuru

Rechanna M.
S/o K. Malledevaru
Organic Farmer, Kollegal Taluk,
Hosa Malangi, Hosa Malangi Pt.
Chamarajanagar District
Karnataka - 571442
Phone: +918105631901

Plant Genome Savior
Farmer Recognition
awardee, 2014-15

200 varieties of rice,
conserving them in situ.
Apart from rice he is
conserving medicinal plants,
Ragi, little millets, Bajra,
Kodo millet and other pulses



KVK - Mysuru

Srinivasa Murthy S.R.
S/o Rangaswamy, Siddanahundi
Vysarajapura post, Sosale Hobli
T.Narasipura Taluk, Mysuru Dt.
Karnataka-571120
Email: seenatn@gmail.com
Phone: 9900746499

Plant Genome Savior
Farmer Recognition
awardee, 2016-17

250 varieties of Paddy



KVK - Palakkad

P Krishnan
'Abhayam', Pulasseri
Koppam-679307
Phone: 9496717844

Plant genome saviour
farmer award (National
award), 2013

Agriculture



KVK - Palakkad

Benny Mathew
Parakudy house
Kuruvambady, Chittoor
Palakkad-678581
Phone: 9605303578

Plant genome saviour
farmer award (National
award), 2013

Agriculture



"The master's eye is the best fertilizer."
- Pliny the Elder



KVK - Palakkad

Akampadam Chimpachala
Padasekhara Samiti
Akampadam,
Palakkad.

Plant Genome Saviour
Community
Award, 2011-12

Agriculture



KVK - Uttara Kannada

Shri Poornand V. Bhat
Shriram Siddhi Estate
At/Po. Aversa
Taluk : Ankola

Plant Genome Saviour
Award 2011-12 by PPVFRA,
New Delhi

Selection and development
of High yielding 4 Nutmeg
Varieties.



KVK - Uttara Kannada

Shri. Prasad Rama Hegde
At: Kankodlu
Post : Hemmadi
Taluk : Yellapur
Phone: 9448239372

Plant Genome
Saviour Award 2017-18
by PPVFRA
New Delhi

Conservation of Mango,
Pepper, Banana varieties



KVK - Uttara Kannada

**Shri. Ramakanth
Ramachandra Hegde**
At : Hunasekoppa
Tq : Siddapur
Phone: 9686713468

Plant Genome
Saviour Farmer
Reward 2020-21
by PPVFRA New Delhi

Selection and development
of High yielding, early
maturing, moderately
tolerant to wilt Black
pepper variety Sigandini



Uttara Kannada

Taluka Kunabi Society
Promotion Association, Joida
At : Deria, Tq : Joida
Jayananad Derekar
Phone: 9480603675

Plant Genome
Saviour
Community
Award 2014-15 by
PPVFRA, New Delhi

Conservation and promotion
of different varieties of
tuber crops



KVK - Bidar

Dr. M. I. A. Quadri
R/o Bagdal,
Tq & Dist : Bidar
Phone No : 9972022586

Plant Genome Saviour
Farmers Reward 2021



“The farmer has to be an optimist or he wouldn't still
be a farmer.” - Will Rogers



KVK - Chitradurga

Shri Vedamurthy

Address: K.R.Halli, Hiriyur Tq,
Chitradurga District
Contact No: +918971966399

Plant genome savior farmer
award(2018), Gol,
New Delhi.

Protection of plant varieties
and farmers' rights authority



KVK Kollam

Shri. K. Narendran

ICAR- Krishi Vigyan Kendra,
Kollam. Kerala Agricultural
University, Sadanandapuram.
Kottarakara, Kollam
Contact No.: 9400271078

Plant Genome Saviour
Reward and recognition
2016

Conservation and
preservation efforts in the
Plant
Genetic Resources



KVK Mandya

Mr. Boregowda. S.

S/o Lt. Siddegowda
Shivalli (Village & Post),
Mandya Taluk and District.
PIN - 571405
Mob: 7829020746

Plant Genome Saviour
Farmer- 2019

Genome and Traditional
Varietal conservation



KVK Thrissur

Shri K. R. Jayan

Kaippully Madam,
Avittathurm Kallettumkara,
Thrissur, kerala - 680683
Mobile: 9847763813

Plant genome saviour farmer
honor 2016-17

Plant Genome Conservation



KVK Waynad

Mr. Sunil Kumar M.

Mathoorkulangara (H),
Thazhathoor (PO),
Cheeral, Wayanad
Mobile: 9447437285

Plant Genome Saviour award
for 2020-2021

Integrated Farming System



KVK Pattanamthitta

Shri. Reji Joseph

Kadaykethu, Pulloopram.P.O,
Angadi, Ranni, Pathanamthitta,
PIN : 689674
Mobile: 9447463096

Plant Genome Savior Farmer
Award
Year : 2019-20

Integrated farming system

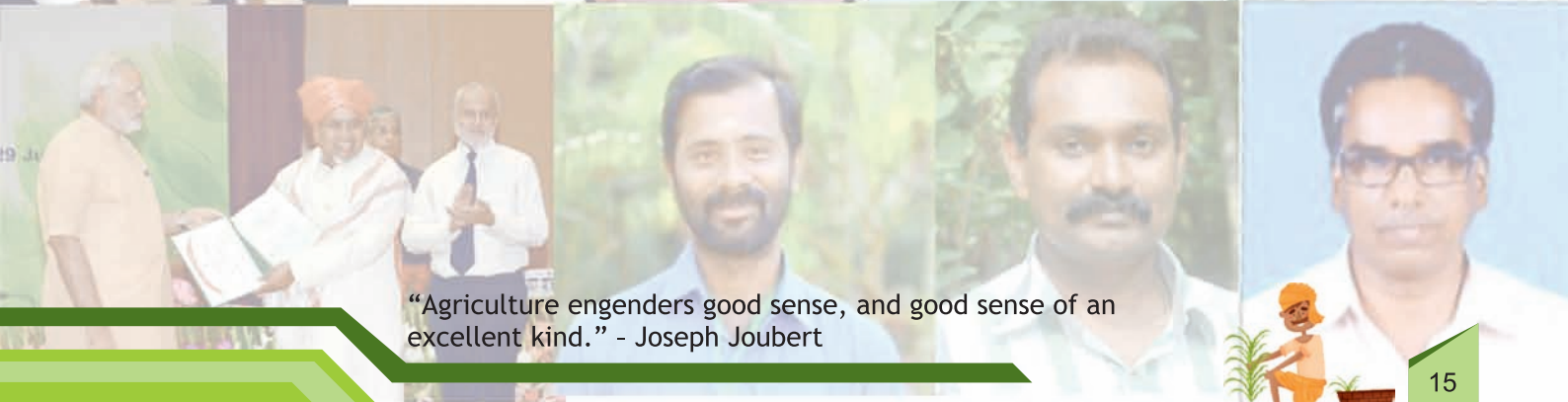


"Farming is a profession of hope."
- Brett Brian





**NATIONAL
AWARDEE
FARMERS**



“Agriculture engenders good sense, and good sense of an excellent kind.” - Joseph Joubert



Belagavi - II

Smt. Iravva Shivanand Mathpati

At Post: Mudkavi,
Ramdurg Taluk, Belagavi Dt.

Entrepreneurship in pickle making

DD Mahila Kisan



Belagavi-I

Shri. Suresh Vishwanath Patil

Address: At/post : Budihal,
Tal : Nipani,
Dist Belgaum (591241)
State: Karnataka
Contact Number: 9741621650

IFS, Animal husbandry,
Vermicompost, Green
fodder (silage machine),
Agriculture equipment and
rainwater harvesting system

ICAR-Pandit Deendayal
Upadhyay Antyodaya Krishi
Puraskar: 2021-22



Belagavi-I

Shri. Sannayamanappa B Rajapure

Address: At/Post: Pamaladinni,
Tq: Gokak,
Dist: Belagavi (591306),
State: Karnataka
Contact No: 8073827010

IFS Along with the main
component he incorporated
fisheries, pets, ornamental
birds, rabbits which hold to
enhance income by 17% (2
lakhs)

ICAR-Pandith Deendayal
Upadhyay Antyodaya Krishi
Puraskar: 2019-20



Bengaluru Rural

Sri. Sadanand. H

Address: Hanumantharayappa,
Tapasihalli village,
Antharahalli Post,
Doddaballapur taluk,
Bengaluru Rural District
Contact No.: 9241602789

Jagajeevanram innovative
farmer award (Zonal level),
2012

Integrated farming System



Bengaluru Rural

Smt. Chennamma

Address: w/o Hanumantharaju,
Antharahalli village,
Dodballapura Taluk
Bengaluru Rural District
Contact No.: 8073667352

Gemshedji Tata National
Virtual Academy fellow
award (National level), 2009

Integrated farming System



"The ultimate goal of farming is not the growing of crops, but the cultivation and perfection of human beings." - Masanobu Fukuoka



Bengaluru Rural

Sri. Sadanand, H

Address: Hanumantharayappa,
Tapasihalli village,
Antharahalli Post,
Doddaballapur taluk
Bengaluru Rural District
Contact No.: 9241602789

Gemshedji Tata National
Virtual Academy fellow
award (National level), 2008

Integrated farming System



KVK Chikkamagaluru

Mr. Rakesh, K. V

Address : Kollibailu village,
Mudigere taluk,
Chikkamagaluru District-577132
Contact No.: 9845050630

Mahendra National level
award, 2019

Integrated Farming System



KVK Davanagere

Mr. Prakash K.S.

Address : S/o Sharanappa
Kuremaganahalli
Chittanalli (Post)
Harapanahalli Taluk
Vijayanagara District
Contact No: 9945764484

Babu JagJeevanram Abhinav
Kisan Puraskar by ICAR,
New Delhi, 2014-15

Integrated Farming System



KVK Davanagere

Mr. Shankarmurthy N.S.

Address : Lingadahalli at Post
Channagiri taluk
Davanagere district
Contact No: 9686563061

Babu JagJeevanram Abhinav
Kisan Puraskar by ICAR,
New Delhi, 2015-16

Integrated Farming System



KVK Davanagere

Smt. Saroja Patil

Address :
W/o Nagendrappa Patil
Nittur at Post
Harihara taluk
Davanagere district
Contact No: 9900769719

Best Women Farmer award
by Mahindra Samridhi,
2013-14.

Integrated Farming System



“Agriculture is our wisest pursuit, because it will in the end contribute most to real wealth, good morals, and happiness.” - Thomas Jefferson



KVK- Kalaburagi - I

Sri. Sharanabasappa Patil

At. Halsultanpur
Tq. Dist. Kalaburagi

Jagjivan Ram Abhinavkisan
Puraskar/Jagjivan Ram
Innovative Farmer Award-
2020, 2021-22

Innovative technology



KVK- Kalaburagi - I

Sri. Somanath Reddy Purma

At Post: Kodla
Tq: Sedam Dist: Kalaburagi

Jamshetji TATA Academy
Award, 2012-13

Received ASPEE man of the
year & also Krishi Visharada
from IARI



KVK- Kalaburagi - I

Sri. Laxmikant Hibare

At Post: Hagaraga
Tq: Kalaburagi

JAIVIK INDIA AWARDS-2023 -
SOUTH INDIA 1st PRIZE,
2022-23

Organic and Natural Farming



KVK - Kalaburagi - II

Sri. Somanath Reddy Purma

Address: Sri. Somanath Reddy
Purma, At:Post: Kodla (B)
Pin-585 222
Tq: Sedam Dist: Gulbarga
Mobile: 9449783368

- Krishi Visharda Award given by ICAR, New Delhi during 2002 for Effective use of IPM in Redgram cultivation
- ASPEE- S.L. Patel Award given by ASPEE foundation, Mumbai during 2003 for Highest Jowar production in dry land area



KVK - Kodagu

S.C. Thimmaiah

Address: Nalloor Village,
Kirgoor Post, Gonikoppal,
Kodagu, Karnataka- 571216
Contact No: 9449636569

- Jagjivan Ram Abhinav
Kisan Puruskar (Zonal)
2019
- ICAR Best farmer award
(Zone XI), 2020

- Practicing Integrated
Farming System
- Mechanisation in Paddy
cultivation



KVK - Kozhicode

Mrs. Rekha. T

Address: Thushara,
Choorakkattil (H),
Farook college (PO),
Kozhikode 673632, Kerala
Contact number: 9400801966

Certificate of Appreciation
from Indian Council of
Agricultural research (ICAR)
New Delhi on International
Women's day, 2021

Promotion of Aquaponics



"The story of family farming underscores a legacy of sustainability." - Amanda Zaluckyj



KVK-Kozhikode

Mrs. Bindu Joseph

Address: Randuplackal House,
Avadukka Post,
Peruvannamuzhi,
Kozhikode-673 528,
Kerala.
Contact No: 9446865899

Pandit DeenDayal Upadhyay
Antyodaya Krishi Puruskar,
2021

Horticulture



KVK-Kozhikode

Mr. K T Francis

Address: Kaithakulath House,
Maruthomkara Post,
Kavilumpara (Via),
Kozhikode District
Contact No: 9947142849

Innovative farmer award of
IARI, 2022

Mixed farming



KVK - Malappuram

Sri. Ameer Babu K.

Address : Karuvally House,
Karinchapad, Vattaloor P.O.,
Malappuram District,
Kerala PIN -676507
Contact No. : 9447077531

Jagjivan Ram Abhinav Kisan
Puraskar, 2021

Innovative farmer (IFS)



KVK - Palakkad

T. Sahadevan

Thekkinchira Kalam
Nenmeni P.O.
Kollengode, 678506
Phone: 9387122011

National award winner at
first all India progressive
farmers convention, 2017

Agriculture



KVK - Uttara Kannada

Smt. Veda Sitaram Hegde

At & Post : Neeranalli
Taluk : Sirsi
Phone : 08384-272652,
Mobile: 9449993304

Best Dairy Women
South - 2017 by
Dairy Association of
India, New Delhi

Developed innovative
techniques for washing,
Milking, Tying & Untying the
Dairy Animals. Also designed
Mopper to mop the
cowdung.



"We have neglected the truth that a good farmer is a craftsman of the highest order, a kind of artist." - Wendell Berry



KVK - Uttara Kannada

Smt. Malati R. Hegde

Brindavana Poultry Farm,
P.O.Manjalli, Taluk : Sirsi
Ph.: 08384-226270, 9480495440

Best Women Entrepreneur
Award (Poultry Farming)
2009-10 by ASPEE
Foundation, Mumbai

First to introduce Poultry
Farming at a larger scale in
Uttara Kananda District.
Production and Marketing of
Enriched Poultry Manure.



KVK - Uttara Kannada

Smt. Tulsi Gowda

At : Honnali
Tq : Ankola
8197228177

Indira Priyadarshini
Vrikshamitra Award, 1986 by
Ministry of Environment and
Forests, GOI

Encyclopedia of forests,
Protection of the
environment from past 6
decades, planted more than
30000 saplings



KVK - Koppal

Dr. Basaiah Hiremath

Nandi Organic Farmhouse
Kannal Cross, Sindhanur Road
Tavaragera Post, Kustagi Taluk
Koppal District
Mobile: 98450 20948

ICON Bharat Award, NDTV
India,

Organic Farming



KVK - Bidar

Dr. M.I.A.Quadri

R/o Bagdal, Tq & Dist : Bidar
Phone No : 9972022586

- Haldhar Organic Farmer
Award, 2021
- IARI Fellow Award, 2018
- Dr. Baba Saheb Ambedkar
Award, 2015
- Innovative farmer Award-
2015
- Bharat Gavray Samman -
2014
- National Award entitled
"Jagjivan Ram Abhinav
Kisan Puruskar, 2013



KVK - Bidar

Sri. Abhimanyu T Nirgude

R/o Jamnagar
Tq : Humnabad
Bidar District
Phone No : 9449349835

IARI Innovative Farmer
Award - 2018



"Do what you love to do, and be around things that make you
smile. The cows make me smile every day." - David Jackson



KVK - Bidar

Sri. Gurulingappa Meldoddi Aspee L M Patel Farmer of the year award - 2016
R/o Hudgi, Tq : Humnabad
Bidar District
Phone No : 9741333907



KVK Gadag

Shri Basavaraj Gadigeppa Halli National Level Best Cashew Farmer Award, received from DCCD, Cochin, January, 2023
At Post: Shagoti
Taluk & Dist.: Gadag
Contact No. 9380859161
Horticulture (Cashew)



KVK Thrissur

T.V. Rajanarayanan Swamy Jagjivan Ram Innovative Awards 2017
Venkida Nivas. Kaniyaarkode
P O, Thriuwilwamala 680594
Mobile: 9446725068
Innovative methods in Agriculture and Horticulture, IFS



KVK Thrissur

Ciby Kallingal (late) Jagjivan Ram Innovative Awards 2017
Kallingal Plantation,
Pattikaad P O,
Thrissur 680652
Mobile: 9847583022
Innovative methods in Agriculture and Horticulture like SRI, IFS



KVK Trivandrum

Mr. R. Raveendran Pandit Deen Dayal Upadhyay Antyodaya Krishi Puraskar - 2019 (Natiional/Zonal)
(67), KRA 172,
Ulloor Road,
Thiruvanathapuram
Mobile: 9048282885
Agriculture



KVK Ramanagara

Mrs. Sujatha Mahila Kisan Award - Dooradarshan, New Delhi-2018
W/o Jagadeesh M,
Kanakapura Taluk,
Ramanagara (D)
Mobile: 9945710073
Integrated farming system



“I think having land and not ruining it is the most beautiful art that anybody could ever want to own.” - Andy Warhol



KVK Ramanagara

Mr. Jagadeesh

Gottigehalli,
Kanakapura Taluk,
Ramanagara (D)
Mobile: 9739235427

Innovative farmer in Farmer
science congress, IAT-2018

Modified cycle weeder with
Cooper - Helps in mulching
and weeding



KVK Ramanagara

Mr. Chandrashekar

Bommanahalli,
Magadi Taluk,
Ramanagara (D)
Mobile: 9742182099

Innovative farmer in Farmer
science congress, IAT-2018

For innovative contributions
in agriculture



KVK - Tumakuru - I

Arun Kumar, S. R.

S/o late Ramakrishna,
S. G, Shettikere,
chikkanayakanahalli Taluk,
Tumkur
Contact :
9900824420, 9110813445

ASPEE LM Patil Farmer of
the year Award



"Whether it's on the tractor or in the pasture with the cows,
I just love being able to take my kids to work when I need to." - Will Collier





**STATE LEVEL
AWARDEE
FARMERS**

“There are only three things that can kill a farmer: lightning, rolling over in a tractor, and old age.” - Bill Bryson



Belagavi - II

Shri. Kallapa Neginhal

At Post: Chikkabagewadi,
Bailhongal Taluk,
Belagavi District

Bio-diversity award

Conservation of local Rabi
Jowar land races



Belagavi - II

Shri. Dayanand Jagadish Appayannavarmath

At Post: Kurgund,
Bailhongal Taluk,
Belagavi District

Krishi Pandit

IFS component & Village
sanitation



Ballari

Girish M. R.

C/o SRI RAM FARMS
Sy. No.397 C, Vasupura,
Near Siddapura Village,
Chikkajogihalli,
Kudlagi (Tq),
Vijayanagara (Dist)
Pin 583126
Mobile: 8618901776

Abhinava Krishika - 2019

Cultivation of Roses under
protected cultivation and
use of Rain water harvesting
system for irrigation



Bengaluru Rural

Sri Manohar, V.P.

Address: S/o Prakasha,
Vabasandra,
Hosakote Taluk,
Bengaluru Rural District
Contact No.: 9902507726

Udayonmukha Krushi
Panditha award, 2023

Horticulture



Bengaluru Rural

Sri Manjunatha, B.R.

Address:
S/o Rajanna,
Beediganahalli,
Devanahalli taluk,
Bengaluru Rural District
Contact No.: 9845766162

Udayonmukha Krushi
Panditha award, 2023

Horticulture



"Farmers only worry during the growing season,
but townspeople worry all the time." - Edgar Watson Howe



Bengaluru Rural

Sri Navikram, C.

Address: S/o M. Chandrappa,
Lakshmidvipura,
Tubagere (H),
Haddonahalli (P),
Doddaballapura taluk,
Bengaluru Rural District
Contact No.: 9945710253

Dr. M.H. Mari Gowda State
level best Horticulture
farmer award, 2022

Horticulture



Chikkaballapura

Shri. Radhakrishna

Address: Kurutahalli Village,
Chintamani, Taluk,
Chikkaballapura district
Contact Number: 9902266750

Best Animal Husbandry
farmer, 2018

Animal Husbandry



Chikkaballapura

Shri. M.T. Munegowda

Address: S/o. Late Tammanna,
Malluru Village,
Siglaghatta Taluk,
Chikkaballapura district.
Contact No: 8951189535

Dr. R. Dwarakinath Best
farmer award, 2022

Integrated farming System



Chikkaballapura

Shri. H.G. Gopal Gowda

Address: S/o. Hittalhalli
village, Sudlaghatta taluk
Contact No: 9448138397

- Krishi Pandit Award, 2010
- Shri. H.D Devegowda Best
Farmer Award, 2022

Integrated farming System



KVK Chikkamagaluru

Mr. Loyd Amar D'Souza

Address : Madeneralu,
Kelagooru,
Alduru (P)
Chikkamagaluru
Taluk & District - 577111
Contact No: 9900431066

Inland Fisheries, 2022

Pond Fish Culture



"It is only the farmer who faithfully plants seeds in the Spring,
who reaps a harvest in the Autumn." - B. C. Forbes



KVK Chikkamagaluru

Mr. K.H. Kumaraswamy

Address : Kunnalu village,
Lakkammanahalli (P),
Chikkamagaluru
Taluk & District - 577168
Contact No: 9900374263

Udayonmukha Krishi Pandit,
2023

Integrated Farming System



KVK Davanagere

Mr. Anajaneya A.N.

Address : S/o Nagappa A.
Kumbaluru at Post
Harihara taluk
Davanagere District
Contact No: 9972088929

- Innovative Rice Farmers Award by ICAR-IIRR, Hyderabad, 2015-16.
- Bio-diversity award by GoK, 2017-18.

Innovative rice production technologies
Conservation of bio-diversity.



KVK Davanagere

Mr. Dyamanna H.M.

Haluvorthy at Post
Davanagere taluk & District
Contact No: 9972089517

Best State Level Farmer award under ATMA Project, 2020-21

Dairy



KVK Davanagere

Mr. Rudresh T.V.

Kariganur at Post
Channagiri Taluk
Davanagere District
Contact No: 9538111979

Krishi Pandit award by GoK, 2020-21

Organic Farming



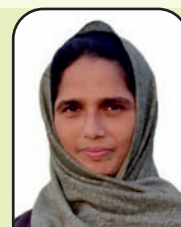
KVK Ernakulam

Smt. Sulfath Moideen

Kattuparambil House,
Edavanakkad PO,
Aniyal East Road,
Ernakulam District,
Kerala,
Pin- 682 502.
Contact No: 9400589343

- State award- First prize - Best Rooftop farmer in Kerala during 2020-21
- State award - 2nd prize - Best vegetable farmer award-"Onathinu oru muram pachakkari" (one basket vegetable for onam) scheme during 2019-20

Integrated Farming System



"It feels good at the end of the day to know you made a product that other people are going to enjoy." - Jericho Sanchez



KVK Haveri

Shri. Parameshwarappa Basappa Halageri

Battikoppa village
Tq: Ranebennur
Dt: Haveri, Age: 53
Education: ITI
Mobile: 9964263145

Best Farmer - 2022, UAS,
Dharwad



KVK Haveri

Shri. Laxmana Basavantappa Kodihalli

Ghondi village
Tq: Hanagal, Dt: Haveri
Age: 55 years
Education: MA, B.Ed
Mobile: 9449355549

Best Farmer - 2023, UAS,
Dharwad



KVK Haveri

Smt. Annapurna Bheemanna Chigari

Kalapur village
Tq: Savanur, Dt: Haveri
Age: 39 years
Education: 7th STD
Mobile: 9113269154

Best Farmwomen - 2023,
UAS, Dharwad



KVK Idukki

Smt. Manju Mathew

Address: Ullatt (H),
Valiyathovala P.O.,
Idukki Dt. PIN - 685614
Mobile: 9544761240

- State award for "Yuvakarshaka" in the year 2015-16.
- Kerala Women entrepreneur award 2022-23: for best women entrepreneur award

Horticulture Nursery



KVK- Kalaburagi - I

Sri. Sudhakar Patil

At Post: Rajapur
Tq: Dist: Kalaburagi

Krishi Pandit award 2022-23

- IFS
- Hi-tech technology



"My dream is to become a farmer. Just a Bohemian guy pulling up his own sweet potatoes for dinner." - Lenny Kravitz



KVK- Kalaburagi - I

Sri. Shivanand Garur

At Post: Gudur,
Tq: Afzalpur,
Dist: Gulbarga.

Jamshetji TATA Academy
Award, 2010-11

- Formation of farmers groups
- Entrepreneurship development in Vermi compost production.
- Growing watermelon & muskmelon with plastic mulch
- Marketing techniques



KVK - Kalaburagi - II

Sri. Somanath Reddy Purma

Address:
Sri. Somanath Reddy Purma
At: Post: Kodla
(B) Pin-585 222
Tq: Sedam
Dist: Gulbarga
Mobile: 9449783368

- Krishi Pandit Award given by Govt. of Karnataka for the year 2004-05 towards overall contribution to Agriculture sector
- A prestigious and highly respected award “ Doordarshan Chandana award -2015” given to me on 15th November 2015 for contribution in organic farming, Yoga, Afforestation and Gobar gas
- Dr. G. Madegowda Foundation Honored with a cash prize and citation for excellent work done in promotion of organic farming including minor millets and pulses at Mandya Karnataka on 10th July 2016



KVK - Kodagu

S.C. Thimmaiah

Address: Nalloor Village,
Kirgoor Post,
Gonikoppal,
Kodagu,
Karnataka- 571216
Contact No: 9449636569

- Krishi Panditha Prashasthi, 2015-16 and 2022
- Practicing Integrated Farming System
- Mechanisation in Paddy cultivation



KVK Kolar

Smt. Rathnamma V

Address: Gundamanthta,
Srinivasapura taluk,
Kolar District
Contact No: 8861822142

Udayonmukha Krushi Pandit
award - 2021-22

Agriculture (processing and
Value addition of Minor
Millets)



“Frankly, any city person who doesn’t think I deserve a white-collar salary as a farmer doesn’t deserve my special food.” - Joel Salatin



KVK - Kottayam

T. Joseph

Address: Mangatteparambil house, Vaikaprayar P.O., Udayanapuram, Vaikom, Kottayam district, Kerala. PIN: 686146
Contact No: 9447214244

Sugandhsree Innovative Farmer Award

Horticulture



KVK - Kozhicode

Mr. Mathew Sebastian

Address: Thazhethel House, Melattur P.O; Malappuram - 679 326
Contact No: 7034278151

Innovative Farmer Award of IARI New Delhi., 2016

Nutmeg cultivation



KVK - Kozhicode

Mrs. Rekha. T

Address: Thushara, Choorakkattil (H), Farook college (PO), Kozhikode 673632, Kerala
Contact No: 9400801966

Certificate of Appreciation from Indian Council of Agricultural research (ICAR) New Delhi on International Women's day, 2021

Promotion of Aquaponics



KVK - Kozhicode

Mr. K T Francis

Kaithakulath House, Maruthomkara Post, Kavilumpara (Via), Kozhikode Dt.
Contact No: 9947142849

Best coconut farmer (Large - Mixed farming South west zone) by Coconut Development Board, Kochi., 2021

Mixed farming



KVK - Malappuram

Smt. Sushama P.T

Address : DREAMS, K.Puram Tanalur, Malappuram (DT) 676307, Kerala
Contact no. : 9947122970

Best Woman entrepreneur Zonal Award, 2021

Coconut based IFS and value addition



KVK - Palakkad

E. Sachidanandago Palakrishnan

S/o Eswaramoorthi Kounder
Kadamanpara
Meenakshipuram
Palakkad
Phone: 8547401126

Kerakesari award (State award), 2021

Agriculture



KVK-Palakkad

Blessy George

Pothikkal
Eruthembi
Palakkad
Phone: 7356864896

KarshakaThilakam (State award), 2021

Horticulture



KVK-Palakkad

Ragunathan P

S/o Palani muthu
Vannamada
Palakkad
Phone : 9846944310

Kerakesari (State award), 2022

Agriculture



KVK - Uttara Kannada

Late. Dr. Abdul Rauf A. Shaikh

Holemth Road,
At & Post :Banavasi
Taluk: Sirsi
Ph.: 08384-264242
Mob.: 9480019065

M H Marigowda Best Horticulture Farmer Award, UAS, Bengaluru, 2002-03

High Density Banana Planting, High Density Pineapple Cultivation, Banana Sucker Treatment technologies, Low Cost Banana Staking Technology.



KVK - Uttara Kannada

Shri. Prasad Rama Hegde

At: Kankodlu,
Post : Hemmadi
Taluk : Yellapur
Phone: 9448239372

- Karnataka Bio-diversity Award, 2015-16
- M H Marigowda Best Horticulture Farmer Award, 2017-18

- Conservation of different varieties of Appemidi mango, Pepper, Banana
- IFS



"It is thus with farming: if you do one thing late, you will be late in all your work." - Cato the Elder



KVK - Uttara Kannada

Shri Hanumantappa Madlur

At : Kapageri
Soraba Road, Post : Banavasi
Taluk: Sirsi
Phone: 7353008733

Doordarshan
Chandana Award,
2019-20

Diversified cropping system
under rainfed conditions



KVK - Vijayapura - I

Shri Praveen Balegere

At& Post: Tadalgi
Phone: 9972112945

Krishi Pandit, 2022-23

Nursery activities



KVK - Vijayapura - II

Shri Beeappa Chinnappa Vaggi

Krishi Pandit, II Prize,
Award by Agriculture
Department GoK.
Phone: 9449610084

Krishi Pandit, 2022-23



KVK - Vijayapura - II

Shri Bharati Ashok

Medadar Choragi
Krishi Pandit, II prize,
Award by Agriculture
Department GoK.
Phone: 9845765407

Krishi Pandit, 2022-23



KVK - Vijayapura - II

Shri Eranna M Kudari

Udayonumkh Krishi Pandit
Award by Agriculture
Department GoK.
Phone: 9964584625

Udayonumkh Krishi Pandit,
2022-23



KVK - Bidar

Sri. Gurulingappa Meldoddi

R/o Hudgi, Tq : Humnabad
Bidar District
Phone No : 9741333907

• Krishi Pandit - 2021
• Karnataka Rajyotsava
Prashasthi
(Agriculture)- 2021



“Life on a farm is a school of patience; you can't hurry the crops or make an ox in two days.” - Henri Alain



KVK - Bidar

Sri. Kashiling Agrahar

R/o Chitta Tq :

Dist : Bidar

Phone No : 7259624068

Krishi Pandit - 2019



KVK - Chamarajanagara

Mr. Nagendraswamy

Address: Kottamballi
village and post,
Chamarajanagara
Taluk and District
Contact No: 9731859259

District level progressive
farmer at Krishi Mela
organized by University of
Agricultural Sciences,
Bangalore, 2022

Integrated farming system



KVK Gadag

Shri Ashok Veerappa Halakeri

At Post: Kurtakoti
Taluk & Dist.: Gadag
Contact No. 9986100954

District Level Best Farmer
Award from University of
Agricultural Sciences,
Dharwad, 2023

Horticulture (Jamun)



KVK Thrissur

Sya Mohan C

Changanath House,
Vellangallor P O
Mobile: 8089640590

Young Farmer Award 2022

IFS -Agri horticulture



KVK Thrissur

Aisal Kochumom

Mambadathil House
Kunnappalli P O, Adichilli
Mobile: 8086129398

KarshakaT hilakam Student
Girl Award 2022

IFS Agriculture and
Horticulture



KVK Thrissur

Smt Sopna Ciby Kallingal

Kallingal Plantation,
Pattikaad P O,
Thrissur 680652
Mobile: 9847583022

Karshaka Thilakam Woman
Award 2021

IFS Agriculture and
Horticulture



“The discovery of agriculture was the first big step
toward a civilized life.” - Arthur Keith



KVK Ramanagara

Mr. Kumaraswamy. H. K.
S/o Karianna, HHG Palya,
Magadi Taluk, Ramanagara (D)
Mobile: 9742103639

Dr. Dwarakinath best farmer
Award, UAS, Bengaluru-2019

Integrated farming system



KVK Ramanagara

Mrs. Kamamma,
W/o Nagaraju,
Mayaganahalli,
Ramanagara taluk,
Ramanagara (D)
Mobile: 9686044629

Sri H. D. Devegowda award,
UAS, Bengaluru-2019

Integrated farming system



KVK Ramanagara

Mr. Ramesh, G
S/o H.Gangahanumaiah,
Anchepalya, Magadi Taluk,
Ramanagara (D)
Mobile: 9844163848

- Dr. M.H. Marigowda award, UHS (B)-2018-19
- Udayonmuka Krishi Pandit award, GoK -2020

- Horticulture based integrated farming system
- Horticulture based integrated farming system



KVK Ramanagar

Mr. Dasappa
S/o Kanakapura Taluk,
Ramanagara (D)
Mobile: 9972899506

Udayonmuka Krishi Pandit
award, GoK -2015-16

Integrated farming system



KVK - Tumakuru - II

Shri Raveesh L
S/o Linganna
Address: Doddahosuru Village,
Gulur Hobli, Gulur,
Tumakuru 572116
Contact No: 9900414891

Krishi Pandit, 2018-19

Natural Farming



KVK - Tumakuru - II

Shri Siddalingappa M.P L
S/o Late Paramashivaiah
Address: Makanahalli Village,
Tumakuru Taluk & Dt. 572118
Contact No: 94488 97344

Krishi Pandit, 2013-14

Organic Farming



“A good farmer is nothing more nor less than a handy man with a sense of humus.” - E. B. White



KVK Yadgir

Shri Mallikarjun Chetti
S.H.Khanapur (Rukmapur)
village, Shorapur Tq,
Yadgir Dist
Contact No: 9449004979

Shresta Krishika 2021 by
UAS, Raichur

- Groundnut processing unit with a layout of 1.00 crore project in ODOP programme.
- Introduction and cultivation of Dragon fruit in Yadgir dist
- Agroforestry system of



KVK - Tumakuru - I

Hanumanthayya
S/o Kappayya
Handanakuppe, Kasaba Hobli
Kunigal Taluk, Tumkur
Contact : 8147439778

Shresta Krishika



KVK - Tumakuru - I

Mruthyunjayappa
Mashanapura, Bellavi
Tumakuru
Contact No: 9663721136

Shresta Krishika



KVK - Raichur

Shri. Basavaraj
S/o Sharanappa
Palakamdoddi, Kotlatkur (p)
Raichur (Tq & Dist)
Mobile: 9740261023

Best Farmer Award

Horticulture



KVK - Raichur

Smt. Kavita Mishra
Kavital (P), Manavi (Tq)
Raichur (D) PIN:584120
Mobile No:9481548871

- Best Farmer Award (2013),
- UAS Raichur
- Gold Award (2014), ICRISAT
- National Innovative Farmer' (2016)
- Best Horticulture Farmer Award

High density cropping and Integrated Farming System



“Agriculture not only gives riches to a nation, but the only riches she can call her own.” - Samuel Johnson



KVK - Raichur

Shri. N. Devendra Chari

S/o Ramanuja Chari
Village Masadoddi
Tq : Raichur

- Best Farmer Award' UAS Raichur (2013)
- Gold Award' from ICRISAT (2014)
- National Innovative Farmer' (2016)

Agriculture



KVK - Raichur

M. Venkateshwar Reddy

S/O M Subba Reddy
Anwari Camp, Hobli-Kurdi
Tq: Manvi, Dt: Raichur
Mobile: 9902092304

Awarded with Shresta
Krishik from UAS, Raichur

Organic farming, Dairy &
Poultry Farming



KVK - Raichur

Chidanand

Hosalli Camp,
Tq: Sindhanur,
Dt: Raichur

Awarded with Shresta
Krishik from UAS, Raichur

Organic Agriculture and
Agriculture Library



KVK - Kasargod

Shri B.Sivananda

Puthige Panchayat,
Kasaragod district. Kerala
Ph: 9048886085

Karshakothama by
Department of Agricultural
Development and farmers
welfare, Kerala, 2022

Integrated Farming System



KVK - Kasargod

Gopala Krishna Sharma

Address: Saravu, Padre Post,
Perla, Kasaragod
Mobile: 9446655218

Best Innovator farmer award
during 2023 by Department
of Agricultural Development
and farmers welfare, Kerala

Farmer Innovation

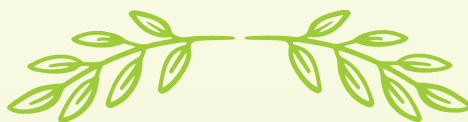


"We need more young people involved in farming because the future needs real food." - Helena Sylvester





**SUCCESSFUL
TECHNOLOGY
INTERVENTIONS
OF KVKs**



“Farming isn’t a battle against nature, but a partnership with it. It is respecting the basics of nature in action and ensuring that they continue.” - Jeff Koehler



ICAR-KLE KVK, BELAGAVI-II**New Crop Introduction For Sustainable Income**

- A story of Shri. Basavaraj Irappa Kenchanatti belongs to Sutagatti

**Background**

Basavaraj Irappa Kenchanatti a successful farmer from Sutagatti village, Bailhongal taluk, Belagavi district aged 44 years is a B.A., B.Ed graduate. After his graduation he was in dilemma regarding profession to be taken up. He was interested in agriculture and basically as of farmer, became a teacher in the school. During Covid period he visited ICAR KLE Krishi Vigyan Kendra, Mattikopp which is only two KM from his place and observed sandal wood plantation in the KVK campus and he inspired to take up sandal wood plantation in his land he met Scientists of KVK and explained his interest to grow Sandal wood.

Intervention

Scientist(Horticulture) prepared a detailed plan for planting of sandal wood and looking into naturally grown spiny gourd (*Momordica dioica*) in farmers field scientist suggested for cultivation of spiny gourd vegetable as a intercrop. Based on his soil test report generated at KVK. He was guided about the availability of spiny gourd and sandal wood seedlings.

Process

Based on the soil analysis report and advisory from horticulture Scientist he prepared the land and applied Farm Yard Manure and biofertilizers to the field and pits. He procured 1000 sandal wood seedlings from forest nursery and as per the guidance he visited Central Horticulture Experiment Station (Indian Institute of Horticulture Research, Bangalore) Chettalli, Kodagu for procuring spiny gourd seedlings and purchased 500 seedling both male and female for hand pollination. He started cultivating spiny gourd as a intercrop in the sandal wood plantation. KVK Scientist technically guided him to cultivate both sandal wood and spiny gourd vegetable.

Technology

Among all the vegetable crops, spiny gourd is one of the most important and having medicinal properties. Variety used Arkha Baharth developed by IIHR Chattalli, Kodagu and spacing 6x6 feet, trained him about techniques of hand pollination.

Outcome

Currently the farmer is harvesting the yield and marketing at a price of Rs 350/.The expected yield is 300kg per acre and the projected income is Rs 4.5 lakh/acre in one crop cycle.

Impact

He is the first farmer to grow spiny gourd commercially in Belagavi district. Many adjoining farmers of Sutgatti village inspired from his work and showing interest to grow spiny gourd.

Authors : Praveen Yadahalli, Scientist (Horticulture), Dr.S.S. Hiremath, Scientist (Plant Protection) and Mrs. Sridevi B. Angadi, Senior Scientist & Head



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“To make agriculture sustainable, the grower has got to be able to make a profit.” - Sam Farr



ICAR-KLE KVK, BELAGAVI-II**Journey From Traditional Farming to Expertise Protected Cultivation**

- A story of Shri. Omprakash Chandragouda Patil belongs to Anigol

**Background**

Shri Omprakash Chandragouda Patil is a B.A. graduate and he owns 09 acres of land in Anigol village of Bailhongal taluk, Belagavi district. After completion of his basic education he developed strong interest in farming and started cultivating on his ancestral land and through his tiredless efforts and dedication he successfully cultivating various field and horticulture crops. The major crops in his farm are maize, soybean, watermelon, chrysanthemum and capsicum. He thought of cultivating flower crops in protected cultivation and met Scientist of KVK and department officials for both technical and financial support.

Intervention

During the initial visit of KVK Scientist (horticulture) to his field, it was observed that he was growing soybean, maize, watermelon as a main crop in a traditional way and due to extreme agro-climatic changes yield level and returns were not encouraging. Hence, KVK scientist advised him to go for flower cultivation under protected condition (Polyhouse).

Process

Based on the advice of the KVK scientist he prepared detailed project report and submitted to department of horticulture and established polyhouse in 22 gunta by availing financial support and growing chrysanthemum (baby doll) capsicum (Indira & nemlet), coriander in protected condition and watermelon, soybean and maize in open fields as per the technical guidance provided by the KVK scientists.

Technology

Polyhouse farming techniques utilizes various key techniques like climate control systems, drip irrigation, foggers, nutrient management, crop rotation, integrated pest and disease management (IPM) helps for optimal crop growth conditions. Polyhouse provides higher concentrations of Co₂ to increase the production to maximum level. Therefore, poly house yields are higher than open

field condition and also gives maximum profit in a minimum area of cultivation and it helps to grow crops whole year without having to wait for the seasons rotations.

Outcome

He harvested very good yield in chrysanthemum 3.5 tons and sold at Rs 150 /kg, green capsicum 22 tons sold at Rs 20/kg. Like this coriander and watermelon harvested good yields and earning in lakhs from protected cultivation.

Impact

He is the first person started protected cultivation in his locality and now he is well known farmer among the farming community. Due to his significant contribution in the field of agriculture he is honoured with Vijaya Karnataka super star award and having immense knowledge in the field of protected cultivation inspiring many farmers in the district. He experienced that he is getting income equal to government job holders.

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“If the rain spoils our picnic, but saves a farmer’s crop, who are we to say it shouldn’t rain?” - Tom Barret



ICAR-KLE KVK, BELAGAVI-II**Success Story of Shri Mahantesh Totagi-An IFS Farmer**

- A story of Shri. Mahantesh Totagi belongs to Kadabi Shivapur

**Background**

Shri Mahantesh Maharudrappa Totagi is a progressive farmer residing in a farm house at Kadabi Shivapur village. He has a joint family with 3 brothers of which one of the brother is in a business and another is in agriculture.

- He bears 18 acres of land and he is doing farming with 5 family members another brother.
- His father used to do farming with a mono cropping system and was fetching less farm income.

Intervention

Looking to the situation, KVK took initiation and trained the farmer on improved technologies and integrated farming system approaches which he can comfortably implement with an aim to enhance the farm income.

Process

Krishi Vigyan Kendra identified the gap in implementation of mono cropping system with traditional and mono farming practices of the farmer and provided advisories on advanced and integrated farming system approaches.

Technology

Krishi Vigyan Kendra extended technology of intercropping of chilli/tomato/onion etc., and introduction of sole vegetable crops like Cabbage, Tomato, Beetroot etc., in-situ incorporation of trash in sugarcane, organic farming/natural farming practices to the farmer through training and advisories.

Outcome

The farmer started cultivation of vegetable crops like Cabbage, Tomato, Carrot, Bhendi, Beetroot, adopted intercropping in sugarcane crop, established 4 vermicomposting units, jeevamruta preparation and reduced the cost on fertilizers.

Impact

The farmer gained enhanced crop yields of different crops due to adoption of improved varieties/hybrids, reduction in cost on fertilizers,

adoption of Integrated Pest Management practices etc., and gained additional income at a reduced cost of cultivation. His net returns from the integrated farming system realised is Rs.22 lakhs per annum.

Crop	Area (ac)	Yield (q)	Income (Rs.)	Expenditure (Rs.)	Net Income (Rs.)
Maize	2	60	1,20,000	50,000	70,000
Sugarcane	13	780 t	22,23,000	5,85,000	16,38,000
Vegetable & Groundnut (Intercrop with Sugarcane)	5	-	1,00,000	20,000	80,000
Carrot	01	10 t	2,00,000	50,000	1,50,000
Cabbage	01	20 t	1,00,000	35,000	65,000
Tomato	01	40	80,000	25,000	55,000
Beet root	01	120	96,000	18,000	78,000
Bhendi	01	5 t	90,000	22,000	68,000
Total			30,09,000	8,05,000	22,04,000

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“Strong communities are built around local, real food. Food we trust to nourish our bodies, the farmer and planet.” - Kimbal Musk



ICAR-KVK, Alappuzha**Success through integrated farming**

- Achievements of Smt. Krishnakumari



Smt. Krishnakumari from Chettikulangara panchayath of Alappuzha district is an enthusiastic woman farmer practicing integrated-organic farming for the last 35 years with the support of her husband and family members. Possessing a garden land of one acre and paddy field of 0.5 acre, she grows coconut as main crop (70 palms which include west coast tall, Chawghat Orange Dwarf and a few T x D hybrids) and tubers, vegetables, fodder, pulses, medicinal plants, millets and sesamum as intercrops. She cultivates all possible vegetables crops like bhindi, brinjal, cowpea, chillies (8 varieties), bitter gourd, snake gourd, bottle gourd, coccinea etc and tuber crops like tapioca, colocasia, yams and elephant foot yam as intercrops in the coconut garden. High yielding turmeric variety IISR-Prathibha and minor millets like ragi, pearl millet, little millet etc are also raised with the support of Krishi Vigyan Kendra-Alappuzha. She was a partner of the Front Line demonstration on cowpea varieties, CFLD on sesamum and Farmers' Field School (FFS) on pest management in coconut conducted by the KVK. Her farm is selected as a model plot by Kerala State Biodiversity Board as she is maintaining a variety of medicinal plants and herbs.

Smt. Krishnakumari is rearing indigenous cattle breeds like Vechur and Kasaragod dwarf for milk as well as organic manure. She also maintains a vermicompost unit for organic recycling and producing good quality organic manure. By rearing 100 numbers of BV 380 poultry birds in intensive cage system in her homestead, she ensures regular production of eggs for consumption and sale. In the two homestead ponds of 10 and 15 cents, she cultures fishes like red belly, viral, Tilapia and carps. Two azolla tanks are also maintained for feeding the fishes and poultry. She sells her farm produces like vegetables, sesamum, milk, egg and coconuts from her homestead itself in addition to taking up value addition of coconut, sesamum, and vegetable produced. She also maintains a mushroom unit in her house and markets mushroom and mushroom beds to

the nearby farmers. Thus her farm becomes a complete integrated farm with diversified enterprises and resource recycling.

Smt. Krishnakumari was recognized and honoured as one of the best homestead farmers by the Chettikulangara panchayath. She was recently conferred the prestigious 'Akshyasree' award by Sarojini Damodaran Foundation as the best organic farmer of Alappuzha district.

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"I love the idea of farm to table and farmer's markets. I enjoy a meal more if I know I'm eating something that's good quality and good for me." - Haylie Duff

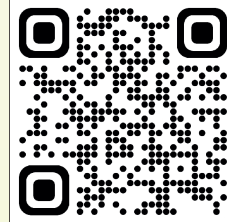


KVK, Ballari**Towards Sustainable Agriculture: A Success story of IFS Farmer Shri Hanumegouda of Ballari**

Passionate young farmer Shri. Hanumegouda of Ibrahimpura village in Ballari district owns 6.5 acres of land. In his farm Hanumegouda has adopted an Integrated Farming System, which sets him apart from other villagers' farmers. A total of 3.5 acres of farm have been used to raise crops entirely organically. His farm produces guava, pomegranate, drum-stick, jamun fruit tree, curry leaf, along with tomato, beetroot, okra, gogu, coriander, dil leaves, ridge gourd, bottle gourd, sweet corn, acid lime, fig and foxtail millet. In addition to these crops he has grown silver oak, mahagani, hebbevu, coconut, gliricidia and other forest trees on the bunds. Two HF cows and two Buffaloes are also the part of his IFS system. Hanumegouda also owns six Kenguri sheep. He also harvests chrysanthemum and marigold during the festive season which he grows as intercropping. The farmer has created a Whatsapp group of consumers to whom he sends messages about the availability of fresh organic fruits and vegetables. He offers the vegetables all year long for a fixed price of 40 rupees. On an average he earns 6-7 lakhs every year. He is also applying the crop debris to the perennial crops as mulch. Hanumegouda produces his own vermi-compost, Gokrupamruta, dashapani, jeevamruta and decomposer which he uses for his own farm for making the land fertile and to control pest and diseases organically. Recognizing this enthusiastic farmer takes constant technical guidance from the Scientists of ICAR-KVK Ballari in all his ventures. Hanumegouda's efforts District administration and ATMA has awarded him as the best organic farmer during the year 2022. Through his initiatives Hanumegouda has become a role model for upcoming young farmers in and around Ballari district.



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"It will not be doubted that with reference either to individual or national welfare, agriculture is of primary importance." - George Washington



ICAR-BIRDS KVK, Belagavi-1**Plant Genome Savior Award (Farmer Recognition) PPV&FRA, New Delhi.**

- A story of Shri. Shivagouda M. Patil belongs to Pongatyanatti, Chikkodi Taluka.

Shri. Shiva gouda M Patil, a passionate Horticulture farmer of ICAR BIRDS Krishi Vigyan Kendra, Belagavi-1 Secured National Level Plant Genome Saviour Award-2018-19 by PPV & FRA, New Delhi. Hon'ble Central Minister of Agriculture Sri. Narendra Singh Tomar ji and Minister of Agriculture state Madm. Shobha Karandalaje along with officials of PPV & FRA and ICAR. Award carries 1 lakh price money, certificates, citation and momentum. Shri. Patil focused on Adoption of 72 varieties of Banana, 12 varieties of mango, 8 varieties of Guava, 4 varieties of Jackfruit, 6 varieties of sweet potato, 3 varieties of Turmeric, 3 varieties of Ginger, 3 varieties of Mint, 5 varieties of Lotus, 8 varieties of Rose and 96 different types Horticulture crops from nuke and corners of the world.

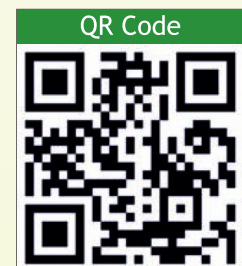
some among them are land races, exotic cultivars and endangered plants were conserved successfully with getting potential yield and nursery production of conserved plant to spread among farmers around the Karnataka. Adoption of foreign fruit crops in Northern Dry Zone of Karnataka like American beauty Mango, Mulberian Pista, American Abiu, Tennis Ball Banksia, Rollinia, Australian Red Lemon and successful cultivation of Udyam and Thousand finger banana in Belagavi District was unique.

Improvement Have Been Helped for Productivity, Profitability- Enhancement.

Diversified Banana and other horticulture farming enrich livelihoods of farmer by creating high demand in local market possible to fetch more prices. Regular demand in local market for different banana and other fruits crops helps to create fixed consumers in the local market by home delivery along with dairy product helps get good income. Nursery production of conserved plants helps get more income by visitors Organic and sustainable farming approach helps to reduce the cost of cultivation and improves soil health and quality of the produce. Intercropping of vegetables in sugarcane and banana was additional income and it's

also saves the cost of vegetables purchase for home. Turmeric variety Salem yields better than the other local varieties. Economics of above all the component farmers earned Net Income of Rs. 11,25,500 from 2.4ha land.

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“Agriculture is the foundation of manufactures, since the productions of nature are the materials of art.” - Edward Gibbon



ICAR-KVK, Bengaluru Rural

Dragon Fruit-A potential high value crop for diversification

-A story of Shri Hanumegouda belongs to Ballari

The dragon fruit a new introduction in India, is highly valued for its nutraceutical properties. It is a cactus species climbing type belongs to family Cactaceae. Jagadish Giri, a Progressive farmer from S. Nagenahalli, Doddaballapur Taluk, Bengaluru Rural District established dragon fruit orchard initially in half acre. With the help of KVK scientists, he replaced stone posts with concrete poles as trellises for durability of the plant as the life of the vines is as long as 20 years. The concrete pillars are supported by a square structure in the top to train the vine for bearing purpose. Since his land is undulated, soil erosion is the common problem and hence scientists have made concrete square structures as base for maintaining the media that supports the growth of the vine. He is producing media consisted of the soil enriched with organic inputs like farmyard manure, coir compost and vermi-compost along with Biofertilizers on his own and getting a good yield. The rooted cuttings of dragon fruit accessions were planted in June, 2017 @ of 4 cuttings around each concrete pillar. He observed fast growing vines in concrete posts. Later he extended the dragon orchard to 1.5 acres.

The advantage from this technology is

- Concrete type poles can support the weight of the plants and allow easy access to flower and fruit for commercial production
- Reduction in cost: In one acre at the spacing of 10x8 ft, for 500 cement poles farmer invests only Rs. 5,00,000 instead of Rs. 6,50,000 for stone pillars.
- More number of plants per pole: 4 plants/pole instead of 2 plants/pole becomes double the plant population per acre
- Durability is high: Up to 20 years
- Efficient utilization of space and reduced weed menace
- Increased yield (12-15 tons/acre) from plants, average yield from the single pole is realized about 30 to 35 kg.

15 farmers started cultivating dragon fruit by taking him as an inspiration. KVK scientists organizing regular visits for farmers to his field as a part of capacity building programme for adopting the latest technologies in their fields. He sells the fruit through direct marketing viz., malls, apartments and shops in Bengaluru and export to Calcutta market. He suggests that farmers should not be dependent on single market as it would make them vulnerable to market fluctuations. The people who have adopted the technology are happy with the innovation and getting good yield from the plants and getting an income of Rs. 10 lakh /acre every year.

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“It is impossible to have a healthy and sound society without a proper respect for the soil.” - Peter Maurin



ICAR-KVK, Bidar**Dr Mohammed Idris Ahmed Quadri**

- A Sufi Farmers Agriculture Impact



Dr. Mohammed Idris Ahmed Quadri's journey in agriculture is nothing short of inspiring, marked by innovative practices that have revolutionized farming in Bidar and beyond. Guided by the expert counsel of KVK Bidar, Dr. Quadri's commitment to sustainable and efficient farming has resulted in the development of groundbreaking manually and mechanically operated equipment.

One of his significant achievements is the indigenously designed slurry unit, capable of processing 20,000 liters of slurry daily. This unit addresses the crucial need for efficient processing of slurry, a valuable organic fertilizer derived from animal waste. By enhancing soil fertility and crop yields, Dr. Quadri's invention contributes to the overall sustainability of agricultural practices.

Embracing a forward-thinking and eco-friendly approach, Dr. Quadri utilizes a 3 HP solar pump for sprinkler and drip irrigation. This not only reduces reliance on grid electricity and fossil fuels but also optimizes water usage through precision irrigation methods. The slurry cum water distribution system, employing ½ inch PVC pipes, exemplifies precision agriculture, ensuring the right amount of slurry and water is supplied to crops, minimizing wastage, and promoting efficient nutrient delivery.

Dr. Quadri's advocacy for organic farming extends beyond innovation to persuasion. He successfully convinced farmers in Bagdal village and neighboring districts to abandon chemical fertilizers in favor of organic alternatives. This shift not only benefits the environment but also promotes healthier and more sustainable agricultural systems.

As a techno promoter of KVK Bidar, Dr. Quadri's commitment to research and knowledge sharing is commendable. His willingness to horizontally transfer technologies to fellow farmers is crucial for the widespread adoption of sustainable and efficient farming methods, ultimately improving farmers' incomes and livelihoods.

Dr. Quadri's contributions have earned him six National Awards, including the prestigious 'Jagjivan Ram Abhinav Kisan Puraskar' by ICAR in New Delhi. The honorary degree of 'Doctor of Science' from the University of Agricultural Sciences, Dharwad, Karnataka, is a testament to his extraordinary achievements and services to the field of agriculture. These accolades reflect not only individual success but also the positive impact of Dr. Quadri's innovations on Indian agriculture as a whole. His journey stands as a beacon for others, illustrating the transformative power of dedication, innovation, and a sustainable approach to agriculture.

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"Agriculture was the first occupation of man, and as it embraces the whole earth, it is the foundation of all other industries." - Edward W. Stewart



ICAR-KVK, Chamarajanagara**Eco friendly Products - value addition to Banana stem**

- A story of Smt. Varsha from Demahally

Smt. Varsha w/o Shrikantaswamy from Demahally village, Chamarajanagara district, Karnataka is a multifaceted entrepreneur involved in branding and marketing of value added edible and non-edible products prepared out of banana stem, which is wasted by many growers. She is being technically and market supported since 2021.

Smt. Varsha, basically a banana farming women suffered losses due to poor marketing of banana during Covid-19 pandemic. She got her turning point after listening to a slang of Mann Ki Baat where honourable PM coated an example of Tamil Nadu entrepreneur earning out of value addition to banana stem. Triggered with this instance, lady visited KVK, gone through the banana fibre extracting machine installed at KVK and procured a machine to turnout waste to wealth. She procured stem from banana growers paying 7-8 rupees each, thereby avoiding unsafe disposal of banana stem all along the field sides which otherwise would harbour many insect pests (pseudo stem weevil) and diseases (sigatoka, panama wilt) resulting in crop damage, increase in pesticide application and increased cost of banana cultivation. With this background, Smt. Varsha installed a banana fibre extracting machine and manufacturing non-edible products namely, pen stand, bangle box, hotpot plate, sitting mats, yoga mats, mobile holder, refrigerator cover, basket, wall hangings, trays, ladies wallets and from banana stem core edible products namely, pickles, juice, chutney

powder and from banana flower she is preparing relish, a pasty eatery used during meals. She has provided employment to four women folks entire year at their village itself which is a remunerative as the transportation and food charges are saved. The annual turnover of this enterprise is 5.4 lakhs excluding equipments cost. The net profit earned is 1.6 lakhs per annum. Initially, she found it difficult for marketing the products. Later, she was encouraged by making way to take part in many district, state level and other exhibition during Krishi melas organized by SAUs, line departments, NABARD

and many cultural fests. Through these platforms she got publicity for her products and she could reach a medium stage from bottom stage of marketing. At present, she is getting orders through phone during festive seasons like navrathri, deepavali where in special gift trays and gift bags are being sold most. Further, during fibre extraction from banana stem outer layers, significant quantity of juice is obtained and also lot of stubble matter is generated. This stem extract juice is tested at soil testing laboratory KVK Chamarajanagara and found that it contains considerable quantity of potassium, thereby it is being used as a liquid potassium supplement for crops. The stubble matter is converted to valuable organic manure through composting. In this way, Smt. Varsha has made better use of banana plant waste that is generated after extraction of banana stem.

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"If the farmer is poor then so is the whole country."

- Polish Proverb



ICAR-KVK, Chikkaballapura**Integrated Crop Management in Mango**

Mango is called the King of fruits and India has largest collection of mango cultivars. The fruit is very popular with the masses due to its wide range of adaptability, high nutritive value, richness in variety, delicious taste and excellent flavor. It is a rich source of vitamin A and C. The fruit is consumed raw or ripe. Good mango varieties contain 20% of total soluble sugars. The acid content of ripe desert fruit varies from 0.2 to 0.5 % and protein content is about 1 %.

Mango is one of the major fruit crop in Chikkaballapura and kolar districts. Are under mango in chikkaballapura district account to be 13783 ha. Average yield in the district is 15.4 tons per ha while the potential yield is about 30 tons per ha. The yield gap is due to lack of awareness about pruning, improper nutrition management and incidence of pest and diseases. To address these problems, ICAR-Krishi Vigyan Kendra, Chikkaballapura had implemented Front Line Demonstration (FLD) on integrated crop management in mango in its cluster villages and also organized training programme related to integrated crop management in mango.

Technologies demonstrated under FLD include canopy management, foliar Spray of mango special (5g/l), use of fruit fly traps (10/ac), spraying of planofix (0.25ml/l), and timely spraying of Plant protection chemicals.

As a result of technological interventions, it was observed that powdery mildew incidence was 23.82 per cent in check plot while it is 13.78 per cent in demo plot, fruit fly incidence was found to be 39.48 per cent in check plot while it was 14.22 per cent in demo plot. With respect to yield is concerned, it was observed that there was 14.29 per cent increase in yield compare to check plot. Net returns was found to be Rs. 95934 /ha in check plot and it was Rs. 158784 in demo plot. Ultimately benefit cost ratio was recorded to be 1.55 and 1.95 in check and demo plot respectively. Adoption of technologies like timely pruning, spray of mango special, use of pheromone traps has not only led to increase in yield but also improved the quality of the

mango which has led for good price for the mango.

This had drawn the attention of mango growers and many mango growers have started using above said technologies to get the good yield

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“A farmer is a magician who produces money from the mud.”
- Amit Kalantri



ICAR-KVK, Chikkamagaluru**Foliar application of ginger special to rectify nutritional disorder in ginger crop**

Ginger (*Zingiber officinale* Rosc.), an important spice and medicinal crop cultivated in different states of India. It is used as fresh as well as in processed forms. Traditionally growing red and red loamy soils and acidic to neutral pH (5.5 - 7.0).

In Chikkamagaluru district, ginger is cultivated 1421 ha with a production of 140875 tonnes and productivity of 9914 Kg/ha. (Directorate of Economics and stats, 2021-22)

In Chikkamagaluru district, full potential of yield could not be yielded mainly due to deficiency of nutrient content in the soil, high rainfall and also due to incidence of diseases

To address this, ICAR-KVK, Chikkamagaluru has undertaken demonstrations of foliar application of “ginger special” on ginger plants and this micronutrient is imperative to maintain the plant health to get higher yield, uniform distribution and quick utilization of nutrients withing the plants.

This demonstration is implemented in the 30 farmers field of Gonibeedu, Hiresigara, Bharathibailu villages of Mudigere taluk during 2021-22, 2022-23 and 2023-24 respectively and the farmers were advised to spray “IISR-Ginger Special” 5gm/liter of water, 45 days after planting up to six months (4 sprays at an interval of 30 days upto 6 months stage of the crop) and this was developed and released by the Indian Institute of Spice Research, Calicut

The mean yield of demonstrated fields with treated with “ginger special” as foliar application were collected from the past three years and total cost, total returns and B:C ratio were calculated according to the prevailing market rates of respective years.

Foliar application of ginger Special (0.5%) has showed marked increase in yield (t/ha), higher returns and higher B:C ratio. Therefore, capacity development and awareness programmes are

conducted among the farmers through different means to wide adoption of this technology in the Chikkamagaluru district by Krishi Vigyan Kendra (KVK), and with line departments by the support of KVK.

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“The farmer is a born philosopher, the aristocrat has to learn how.”
- Polish Proverb



ICAR-KVK, Chitradurga

Integrated Farming System

- A story of K.T.Vedamurthy., K.R.Halli, Hiriyur Tq, Chitradurga Dist.



The environmental pollution caused by excessive use and misuse of agrochemicals, has led to considerable changes in people's attitudes towards the use of pesticides in agriculture. The increased use of toxic chemicals to control the pest and disease in agriculture has led to the proportionate increase in the population of pests and the number of species resistant to pesticides and fungicides is increased. In recent years more emphasis is given to the use of eco-friendly pesticide for crop production in view of their least toxic nature, low levels of disease resistance and low residue problems. However, Biological controls should be integrated with other control measures because different methods are effective at different times and locations under varying conditions.

Mr. Vedamurthy s/o Thimmanna is a successful innovative farmer from KR hally, Hiriyur taluk, Chitradurga (dist) -577 511. He is having total of 30 acres land and started agriculture with his inherited property of 5 acres from his father by cultivating leafy vegetables, Banana and practising sericulture. Later he took seed production of Watermelon, Muskmelon, Chilli and Brinjal. He is growing Coconut, Arecanut, Pomegranate, Papaya, Cashew and Watermelon. Apart from this he is also successful in dairy farming.

Before the intervention of KVK, he was growing Banana, which was fetching more losses due to the heavy incidence of diseases like Panama wilt of Banana, Bunchy top, Earlier he was dependent only on chemical method for control of disease and pests of various crops. But after consulting the KVK Chitradurga he got the knowledge of using Bio inputs such as

Trichoderma and Pseudomonas for the control of various pest and disease. He adopted the use of these bio control agents in Banan, pomegranate and Papaya crops and was able to control many pests such as panama wilt of banana, bacterial blight of pomegranate, ring spot of Papaya and with this he was able to reduce the cost of cultivation by 30% and also enhanced the soil health status since from past 3-4 years. Since he is having a dairy unit he has started preparing Jeevamrutha and applying the same to the crops. He is also involved in preparing the Trichodema

and Pseudomonas liquid formulation for his own use by getting the culture from GKVK Bangalore.

Later he started seed production activity for the melon crops like Watermelon, Muskmelon and also in Chilli and Brinjal and Bhendi by adopting the modern agriculture technologies like mulching, installation of drip lines which has helped him in conservation of soil and water. To overcome the problem of insufficient supply of electricity he has installed solar panels in his farm and utilizing this for pumpsets.

Being recognised as IFS farmer he is also growing fodder crop like Hybrid Napier on the buds of his farm, which serves as fodder for cattle as well as wind break. He has a passion to preserve some local varieties of crops like Bhendi and Brinjal, which were cultivated by his ancestors. He has taken up cultivation of these local varieties every year for domestic consumption and he also preserves this seed material for the upcoming years. For this activity he has honoured with "Plant Genome Saviour' farmers award, Gol, New Delhi.

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"Even if a farmer intends to loaf, he gets up in time to get an early start." - Edgar Watson Howe



ICAR-KVK, Dakshina Kannada**Income enhancement of rural youth on adoption of climbing device for harvesting of Coconuts**

- A story of Mr. Anush., Gandadapadi belongs to Gandadapadi village

Coconut is a commercial crop grown in the district covering an area of 21,772 ha. Coconut cultivation is not lucrative as we are unable to perform routine operations on time such as spraying of plant protection chemicals, cleaning and harvesting of coconut due to unavailability of skilled manpower.

Mr. Anush, is a rural youth belonging to Schedule Caste hails from the village Gandadapadi of Dakshina Kannada. He undergone Coconut Development Board (CDB) sponsored Friends of Coconut Tree (FoCT) training programme on adoption of climbing device for harvesting by KVK, Dakshina Kannada.

Initially he was harvesting coconuts through employing the traditional method of harvesting the nuts later after undergoing training he adopted advanced method. Among the two methods of climbing, with the advanced method of coconut tree climber harvested a greater number of nuts (20-30 nuts/tree) and could cover more number of harvesting trees (80-100 trees/day) over traditional method (10-25 nuts/ tree) and lesser number of harvesting trees (18-25 trees/day).

This was mainly due to use of advanced method of climber resulting in easy climbing of tree without any life accidental risk over other method of harvesting of coconuts, 50-60 per cent increase in income with an average of Rs.4.8 to 6.0 lakhs per year with advanced method and Rs.1.2 to 1.5 lakhs per year with traditional method.

Impact on other rural youths: He is an entrepreneur with a happy small family. In addition, he has promoted master trainers among rural youths who are engaged in coconut harvesting activities and have succeeded in transforming 10-15 rural youths into professional coconut climbers. He became a master trainer for the FoCT training programmes organised in ICAR-KVK, Dakshina Kannada.

Authors: Dr. Rashmi R. and Dr. T. J. Ramesha

Table 1: Average number of nuts/trees harvested and income generation by different methods

With traditional method	With advanced method	Traditional method i.e., physical tree climbing (Rs/year)	Advanced method (Rs/year)
No. of trees / day	No. of trees / day		
20-30	80-100	120000-180000	480000-600000



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“The corn is not choked by the weeds but by the negligence of the farmer.” - Chinese Proverb



ICAR- Taralabalu KVK, Davanagere**Farmer turned rural entrepreneur with millet cookies**

- A story of Mr. Raghu R. S. belongs to kulambi village

Mr. Raghu R. S. from kulambi village of Honnali Taluk Davanagere District got training on Millet production technology and preparation of its value added products from ICAR-Taralabalu KVK Davanagere. He is the beneficiary of PMFME scheme sponsored by Dept. of Agriculture worth of Rs.10,00,000. He has undergone training on processing of millets and pulses at CFTRI, Mysore and training on commercial baking, Bakery training unit of UAS, Bengaluru and ICAR-Taralabalu KVK, Davanagere. Major products prepared from him include Millet cookies, Vermicelli, Millet energy mix and Millet Sev.

Earlier, he was getting Rs, 13,500/month, after successful intervention of KVK, he has earned net profit of Rs. 5,19,600/year from all millet based products with a monthly net profit of Rs. 43,300. KVK has provided technical guidance in preparation of cookies and enhancing the quality of the products, also created the marketing channel through various platforms. KVK has been buying their cookies for all its programs which inturn provides wider publicity. The USP of the products prepared by him are gluten free and good taste. His products are also linked to Kodaganuru Taralabalu Amrith Farmer Producer Company through which he is reaching many customers in and outside the district. This success story comes up with good vein on commemorating the International year of Millets.

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“The farmer hopes for rain, the walker hopes for sunshine,
and the gods hesitate.” - Chinese Proverb



ICAR-KVK, Dharwad**Multi Livestock Farming Model
- A Venture for Sustainable Income**

Shri. Ravi Dandin from Kallur village of Dharwad taluka adopted Integrated Sheep/Goat cum Poultry farming unit under the technical guidance and training of KVK.

The training oriented him regarding the basics of sheep/goat farming, feed and fodder management along with exposure field visit to successful entrepreneurs. After completion of the training, he established sheep/goat farming in raised integrated stall fed housing system with area of 60x30 feet to rear the sheep/goat and poultry birds.

KVK scientists made timely visit and guided the farmer in feed, fodder and disease management, established fodder cafeteria, followed vaccination protocol for sheep/goat and poultry. He had grown multi cut fodder sorghum (CoFS-29), fodder maize, lucerne, sesbania in 0.5 acre of land for feeding sheep and goat. Presently he is having 50 sheep mainly Deccani, Nari Suvarna, Yalaga breeds and 50 goats mainly Sirrohi, Osmanabadi, Beetal breeds. He regularly rear the 400 local poultry birds in the underneath space of stall fed housing system both for meat and egg purpose. He uses the farm residues mainly groundnut, urd dal and bengalgram husk, grains to prepare the concentrate balance feed ration to feed the animals.

With his experience and knowledge, he has become the master trainer for integrated sheep/goat cum poultry farming training programmes. The participants of sheep, goat and poultry farming training organized by KVK, Dharwad regularly visits his farm for practical experience. More than 80 farmers, 60 students and 10 extension officials visited his farm for consultancy and already 10 farmers/ rural youth started their own integrated sheep/goat cum poultry farming unit.

Presently with the integrated unit he is getting an annual gross income of Rs. 6.12 lakh. Major contribution is from sheep/goat farming, i.e. Rs. 4.0 lakh from sale of sheep/goat and Rs. 2.16 lakh

from sale of eggs and birds with the cost benefit ratio of 4.08.

Adoption of integrated sheep/goat cum poultry farming provided regular employment for two labours throughout the season along with crop cultivation practices. Hence, integrated sheep/goat cum poultry farming is an additional sustainable source of income for the farming community during the era of climate change.

Video Link: <https://youtu.be/jivL6UTGYOE>

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"Farming isn't something that can be taught. Each plant tells its own story that has to be read repeatedly." - Kelsey Timmerman



KVK, Ernakulam**Success story of Smt.Sulfath Moideen,
A partner woman farmer of Ernakulam KVK**

Smt. Sulfath Moideen from Edavanakkad village of Ernakulam district is an enthusiastic woman farmer who is keen in adopting new technologies and also motivates fellow farmers to adopt the technologies she found useful. She is recipient of 39 awards including 2 state level awards, 17 district level, 9 block level and 9 Panchayath level. She has also received many awards from Agriculture promoting associations. She has received first prize in the Kerala state award category Best Rooftop farmer during 2020-21. She is 2nd prize winner in the Kerala state awards category Best vegetable farmer under the scheme Onathinu oru muram pachakkari (one basket vegetable for Onam) during 2019-20.

Smt. Sulfath Moideen integrated Agriculture and Animal husbandry in her homestead farming system. She cultivates Vegetables, Banana and few fruit crops in her roof top as the space is limited in her homestead. She has been KVK's partner farmer since 2014 and has been partner to various On farm testing and Front line demonstration programmes viz., Vegetables cultivation in rain shelters, Fish silage based vegetable foliar spray, Chabro poultry, Nandanam quails, Black soldier fly larvae production, etc. She has also maintained a parent stock of Kadaknath poultry in her farm under the technology backstopping of KVK. She has supplied Kadaknath meat and eggs for sale in KVK Farm shoppe. She has also associated with KVK in nursery rearing of Desi poultry chicks for distribution through KVK salescounter. She grows Azolla that is regularly fed to the poultry as a protein supplement and also sells to other farmers through KVK.

Through years of association with KVK and Agriculture departments, she has adopted various technologies and found out newer opportunities in the field of Agriculture to develop herself as successful women Agro-entrepreneur. She is cultivating and supplying rare species of vegetables and medicinal plants like Vadarmanjal turmeric, black ginger and Ponnankanni amaranthus (leafy

vegetable) etc. Through her association with KVK over a span of 10 years, Smt.Sulfath Moideen has been adopting newer technologies in her 1.5 acre farm to get a regular source of income. She has also developed fruit orchard with different varieties of dragon fruit, guava, gooseberry, lemon, jackfruit, papaya, etc and served as a model. She is also supplying quality seedlings of medicinal plants to farmers directly and also through postal/courier services. Over the years her income has increased from Rs.5000 to Rs. 1.5 lakh per month. She is also utilizing Social media for marketing her products. She has developed 110 Youtube videos on different technologies uploaded in her youtube channel that has 17,200 subscribers. Each of her videos have views ranging from 1500 to 5000. Smt.Sulfath Moideen is a role model for women entrepreneurs in the field of Agriculture. The KVK Ernakulam wish her all success in future to contribute more to the betterment of the Society and the field of Agriculture.

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"There is no reason, in a free society, that farmers shouldn't be allowed to raise hemp. Hemp is a good product." - Ron Paul



ICAR-K H Patil KVK, Gadag**Agriculture Graduate Became Entrepreneur**

- A story of Smt. Mangala Neelagund belongs to Mulagund, Gadag district

Smt. Mangala Kiran Neelagund is an agriculture graduate from University of Agriculture Sciences, Dharwad. She is resident of Mulgund village which is 20 kms from Gadag city as well as KVK Campus. After marriage she got involved in agriculture works with more focus on entrepreneurship. From the beginning, she wanted to start sheep and goat rearing enterprise but because of orthodox views of her family she would not start the enterprise. Slowly she convinced her in-laws and started the dairy & sheep and goat rearing unit in 2016 under the technical guidance of ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti.

With the technical support of KVK, she started rearing 30 Ram and then in the same year she purchased 50 more Sheeps and 20 Bucks. She visited successful contact farmer's fields of KVK for more understanding and getting practical experience in livestock management and rearing aspects of sheep and goat. With consistent efforts, at present she owns 100 Rams, 300 Sheeps, 25 Goats, 8 HF Cow, 1 Desi Cow, 200 Chicks, 3 Vermicompost pits and a Hydroponic Unit. On an average from Sheep, Goat, Poultry and by the sale of manures she earns Rs.8.00 to Rs.10.00 lakhs net profit.

She started a plant nursery and nutrition garden with production of Medicinal plants and distributes these plants to 600-700. Recently she has started Agnihotra Farming using Baali-Desi cow dung cakes and she is marketing the baali to the needy farmers who are involved in Agnihotra Farming.

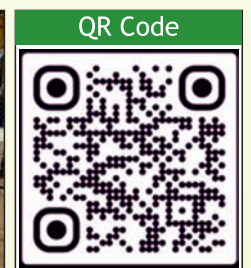
During 2021, under the technical guidance of ICAR-K.H.Patil Krishi Vigyan Kendra, Hulkoti she established chilli processing unit under One District One Product (ODOP) programme. She had marketed more than 15 quintals of organic chilli powder, turmeric and chilli value added products worth of Rs.5.00 lakhs. Under Entrepreneurship Development Programme, KVK facilitated her to get FSSAI Registration as well as Udyam Registration. In addition, the product label designing with all the technical information was facilitated by KVK. She started marketing of chilli products through local shops, exhibitions and her acquaints. Her chilli products got popularized because of their quality, colour and taste. Then, she contacted Karnataka State Department of Agriculture, Gadag and established chilli pounding machine. She provides employment to 5 women during the season. Within a span of 2 years, she earned a net income of Rs.2.5 to 3.0 lakhs from the chilli enterprise.

To handhold other women in her surrounding, she established Unnati Mahila Samaja Seva and Multipurpose Society at Mulagund village comprising of 150 women members and created employment opportunities for 25 women entrepreneurs.

By recognizing her successful ventures, many organizations have awarded her with awards and accolades namely Raitha Ratna Award, Shresta Krishi Mahila Award, Best Women Farmer Award Kissan Pragati Award Outgrow Organisation, Bangalore

On an average from all her enterprises she earns Rs. 12 to 15 lakh per annum. She expressed happiness as her dreams have come true and she is thankful to the family as well as the organizations who helped her in reaching this level

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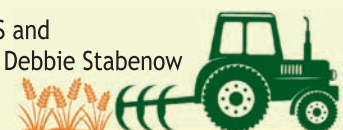
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"Agriculture looks different today - our farmers are using GPS and you can monitor your irrigation systems over the Internet." - Debbie Stabenow



ICAR-KVK, Hassan**Apical Rooted Cuttings of potato (ARC) for seed tuber production**

The Apical Rooted Cuttings (ARC) is a technology where small portion of disease free mother tuber is collected and multiplied under aseptic conditions (Tissue culture) in a growing media to produce new and healthy plantlets. These plantlets are used as mother plants and transplanted to beds in nursery. The cuttings grown out of mother plants are replanted on the same beds. This process will continue upto 3 months where every mother plant provides 256 plants. The cuttings from these plants are planted in portraits and maintained upto 14 days till rooting initiates and then transplanted to main field for seed production.

Contribution of KVK for scaling up of new technology: After knowing the existence of innovative ARC sapling technology from the International Center for Potato (CIP), German innovation center (GIZ/GIC) Bangalore, Krishi Vigyan Kendra, Kandali, Hassan procured tissue culture bottles/mother culture from CPRI, Shimla Himachala Pradesh through CIP, GIZ/GIC Bangalore. By using the mother culture KVK Hassan has produced approximately 2 lakhs ARC saplings with existing facility and conducted the field evaluation studies on ARC potato performance in association with Horticulture Research & Extension Centre (HREC) Somanahalli Kaval, Department of Horticulture Hassan, GIZ/GIC, CIP and Education and training consultancies/ Agriculture and Finance consultancies (ETC/AFC) Bangalore conducted evaluation studies under ATMA and ICAR.

Technology diffusion: A total of 36.98 tons of G-0 generation tubers produced through evaluation studies during 2020-21 Kharif season. 36.98 tons of G-0 generation tubers used as a seeds and sown in 51.36 acres during Rabi season and harvested 410 tons of G-1 generation tubers which is used as a seeds for 570.66 acres during 2021-22 Kharif season. This was can be used as seed material upto 3rd and 4th generation.

Social Benefit: Created awareness among Farmers that it is better to produce their own Potato seeds and reduced the seed cost.

Economic benefit: From 20 evaluation studies Kufri Himalini Yield-19.53 t/ha and gross income-Rs.4,88,250/ ha, net income - Rs. 3,35,125 / ha. The Kufri Jyoti Yield -17.45 t/ ha, gross income-Rs.4,36,250/ ha and net income - Rs. 2,83,125/ ha.

Technology Impact: The 17 lakh potato saplings produced during 2020-21 to 2021-22 for the demonstration has provided employment to 3 farmers and 3 agricultural workers in the district for three months. In the next five years, the technology will spread to a 5000 hectares and will provide employment to over 2.5 lakh villagers in the district through the production of 50 crore potato saplings and seed tubers.

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“As the Republican platforms says, the welfare of the farmer is vital to that of the whole country.” - William Howard Taft



ICAR-KVK, Haveri**Gir cow dairy farming and marketing of milk in branded reusable bottle**

- A story of Smt. Sahana Honnatti

Mrs. Sahana Honnatti W/o Mr. Harshwardhan resident of Meduru village of Ranebennur Taluk of Haveri District. She has adopted Gir cow dairy farming and her own branded reusable bottles for marketing of milk under the technical guidance and training of KVK, Haveri.

Major constraint in desi Gir cow farming is marketing of milk with good price. It has to be sold to specified consumers who are educated ones. Moreover, Gir cow is milking 8-10 lit of milk per day. Hence, major challenge faced by Mrs. Sahana and Mr. Harshwardhan was to compete with cross bred cow milk market and to deliver specific customers.

Mrs. Sahana and her husband Mr. Harshwardhan purchased Gir cows from different parts of Gujarath state. Initial days' selling of milk was very difficult. Then started branding their product as 'Jevakosha'. They contacted the customers and started home delivery of milk to their door steps in a reusable and returnable glass bottle. Branding label and glass bottle made very attractive and hygienic. Glass bottle reduced the plastic usage for milk delivery. Initially they sold at the price of Rs 60 /Lit. Now they are charge Rs. 100/Lit.

Reusable glass bottle not only made attractive and also it is easy to clean, free from plastic pollution. Milk in the bottle will remain fresh for up to 4 to 6 hr. Because of good quality milk, they use to get Rs 100/lit and also enhance demand for supply of more milk.

Initially they contacted KVK Haveri and other line departments for scientific information on clean milk production and milk marketing. For this purpose she used to send for higher training programme to NDRI Bengaluru.

Jeevakosha dairy is providing economic stability to family with worth of 90,000/- net income per month. However, everyday production of milk is 60 litre with monthly gross income of 1,80,000/- .

Around 35 consumers are procuring gir milk

from Jeevakosha and are happy with quality and taste of milk. However, technology is disseminated to another three farmers who are willing to adopt the technology in the same fashion.

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“Agriculture is at the core of the state.”
- Dave Cook



ICAR-KVK, Idukki**A Farmer generating Income from Sree Pavithra,
Potassium efficient variety of Tapioca in Idukki district**

- A story of Sri. Thomas K.V belongs to Adimali



Mr. Thomas K.V, Kattukudiyil, belongs to a village in Adimali called Machiplavu. It is situated 43 km from ICAR- Krishi Vigyan Kendra, Santhanpara. In Machiplavu apart from spice cultivation tapioca cultivation is also a main source of livelihood for farm families. The majority of the farmers grow local variety of tapioca which leads to low productivity and income in the area due to lack of technical knowledge about new improved varieties of Tapioca. Mr. Thomas K.V a farmer of our Krishi Vigyan Kendra attended different trainings conducted by the Kendra was motivated for the cultivation of a good variety of Tapioca. He was given all the support and Guidance from ICAR- Krishi Vigyan Kendra, Idukki in association with ICAR-Central Tuber Crop Research Institute (CTCRI), Sreekaryam.

Mr. Thomas K.V visited Krishi Vigyan Kendra during 2016-17 and procured the Sree Pavithra Setts bought from ICAR-Central Tuber Crop Research Institute (CTCRI), Sreekaryam. He was made aware of Potassium efficient variety through trainings and Demonstrations conducted at Krishi Vigyan Kendra, Krishi Vigyan Kendra Idukki and ICAR-CTCRI, Sreekaryam in association Conducted many interventions in relation to this at different areas of Idukki district through On Farm Trails, Frontline Demonstration's, Method demonstrations and Trainings and made the farmers aware on the new improved potassium efficient variety- Sree Pavithra. Mr. Thomas K.V was cultivation Raman and other local varieties of Tapioca.

During 2016-17 he started cultivating Sree Pavithra with the technical guidance of KVK in 1 acre were he yielded on an average Net income of Rs. 1,00,00/- . Then he gradually increased the area of adoption. During 2023 he cultivates the Sree Pavitra variety of Tapioca in about 6 acres of land. As a result, his income increased substantially with the scientific knowledge. The income was increased from 260000/- to 600000/- with an increase of 22 %. Mr. Thomas K.V yielded 9.5 t/acre before the intervention of Krishi Vigyan Kendra. Now during 2023 he yields about 16 t/acre after the introduction of Sree Pavitra. Introduction of Sree Pavitra variety increased the

consumer acceptability of tapioca in Adimali village due to its taste, cooking quality and resource efficiency. Mr. Thomas could make a good income due to adoption of Sree Pavitra. He disseminated the technology to different areas of Kerala and Tamil Nadu. Farmers from different district of Kerala and Tamil and has a wide linkage in collecting setts from Mr. Thomas K.V. With the help of KVK he is supplying Sree Pavitra setts to different Scheduled caste and Scheduled tribal communities of Idukki district through SCSP schemes in association with ICAR-Central Tuber Crop Research Institute (CTCRI), Sreekaryam.

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“When tillage begins, other arts follow. The farmers, therefore, are the founders of human civilization.” - Daniel Webster



ICAR-KVK, Kalaburagi-I**Natural Farming: Success Story of Kalaburagi farmer**

- A story of Shri. Lakshmikant Hibare belongs to Hagaraga village

The farmer Lakshmikant Hibare S/o Digambarao Hibare is a matriculate progressive farmer from Hagaraga Village, about 15 km from Kalaburagi city, is a living example for the farming community as he has adopted agroforestry along with various scientific technologies and techniques for conservation of natural resources, while earning a good income cultivating in his three acres of land. The untiring efforts of the farmer have helped him convert his barren piece of land into a self-sustainable green farm.

He explained that it takes at least 15 years to 18 years to procure usable sandalwood from the plantation. Meanwhile, farmers from across the district and students from agriculture & other colleges visit his farm to take his advice and to learn more about his farming techniques. He says "In the beginning faced big hurdles due to lack of knowledge about natural farming, marketing issues and proper guidance but later he found success after adopting organic method of cultivation with the support and guidance from the KVK, Kalaburagi scientists especially the Senior Scientist and Head Dr. Raju G. Teggelli, who helped him through various stages. It was on their advice that I learnt all about forest farming and started growing crops following their instructions" he adds. Forest farming is the cultivation of high-value specialty crops under a forest canopy that is intentionally modified or maintained to provide shade levels and habitat that favour growth and enhance production levels. Now he is growing different varieties fruits, sandalwood and along with various other crops and components in organically.

He is practicing organic natural farming since 15 years, by way of using organic agricultural methods, which now has 850 sandalwood trees and red sanders trees, 850 drumstick tree, 225 java plum trees, 225 Lucknow-49 guava plants, 225 Thai orange trees, 225 grapefruit (red orange) trees and 125 Mahogany timber plants and 125 meli dubia trees, amla, turmeric and moringa along with fruits plantations, was once a barren land, without water. The farmer has also planted lemon trees and fever nut trees as border fencing. Though he has a bore well and a water harvesting pond on the farm, he has installed a drip irrigation system for water supply.

He also has innovative way of reaching the customers for selling his produce. He says, "I find it easier to directly sell to the customer by using various social media. This way, the middleman is completely eliminated and I get a sense of what customers are actually looking for. I am part of a many WhatsApp groups where customers directly deal with the farmer to buy the produce"

Laxmikant serves close to 1000 customers via WhatsApp and says that some stores in and around the village also stock up on his fruits and vegetable produce. In diversifying and growing various seasonal crops, Laxmikant has been able to retain a steady income. "The Lucknow Guava, when in season, earns me close to Rs 80,000 and the moringa crop, close to Rs 1.5 lakhs a season" he says.

Achievements: He had been honoured by Government of Karnataka prestigious "Krishi Pandit" award during 2019-20 under organic farming category, he was received "Best farmer" pakwada award from Bank of Baroda, Kalaburagi Regional Office, Zonal level award during 2020-21 and leading newspaper Vijaya Karnataka 'Super Star Farmer' Award (Instituted by the noted Kannada Daily Vijaya Karnataka during 2019) held at Kalaburagi and He was recognized as district level "Negilayogi" Karnataka Rakshna Vedike, Kalaburagi during 2020 and many organization honoured for his tremendous achievement in organic cultivation. His success story published in many leading magazines and TV channels in different languages of the India.

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"Agriculture is a fundamental source of national prosperity."

- J.J. Mapes



ICAR-KVK, Kalaburagi-II**Chia - One among Super Food**

- A story of Shri. Sharangouda Patil belongs to Konahipparga village

Chia seeds often referred to as a super food or functional food- the term is more useful in the marketing sphere than by nutrition experts understood that there is no replacement for a healthful dietary pattern. This is Rich in omega-3 fatty acids and fiber will helps in lowering cholesterol behind its nutritional value.

Botanically, it is *Salvia hispanica* L. belongs to family Lamiceae. The surface of chia seeds is delicate and easily breaks apart when expose to moisture and this can be stored for 4-5 years without refrigeration. Seeds will be either used as food additives or directly consumed.

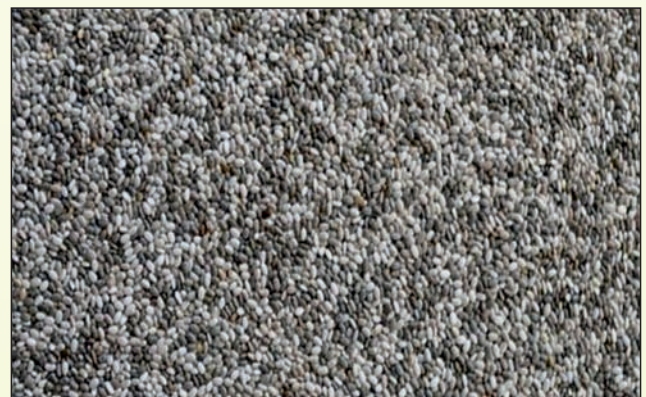
Sri. Sharangouda Patil R/o Konahipparga Tq. Jewargi Dist. Kalaburgi has grown and harvested remunerative crop 'Chia' first in the district under the guidance of ICAR-KVK,

Kalaburgi-II. It is observed that, this crop can be grown in both kharif and rabi at minimal input cost for cultivation with duration of four months during kharif and three months during rabi and recorded average yield of 3.5 quintal per acre.

He marketed with an average prices range between Rs.12,000-15,000 per quintal with the help of scientists of ICAR-KVK, Kalaburgi-II. He could able to sell his produce for seed purpose to the other interested farmers in the neighboring districts.

It is concluded that, this crop is suitable during rabi season after the harvesting of Greengram and Blackgram found economically profitable. There is no open market for this crop so. This should be grown on contract farming

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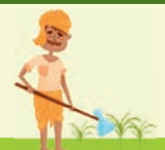
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“Weeding is as necessary to agriculture as sowing.”
- Mahatma Gandhi



ICAR-KVK, Kannur**Introduction of Ragi Varieties KMR-301 and KMR-630 in Northern High Hills (AEU 15)**

- A story of Shri. Kurien T. J belongs to Theruvamkunnel village

Mr. Kurien T. J., Theruvamkunnel, Josegiri P. O., Cherupuzha, Kannur is a progressive farmer who is following organic cultivation of major crops. He owns an area of 1.45 acres in hilly tract of the Kannur district at an elevation of 2500 m above MSL. He also possesses 2 acre of leased land for cultivation. Mr. Kurien involved in cultivation of almost all crops possible in that area including millets, banana, vegetables, pulses, spice crops like ginger, turmeric, pepper and cardamom, cocoa, coffee, sugarcane, fodder crops, tuber crops, passion fruit, guava etc. Mr. Kurien is an integrated farmer, who maintains dairy, poultry and aquaculture units also.

Mr. Kurien conducted demonstration trials of high yielding ragi varieties KMR-301 and KMR-630 in high hills under the technical guidance of KVK Kannur as part of International Year of Millets. Farmer noticed that plant height was more for KMR-301 as compared to KMR-630. Due to heavy rain lodging occurred to both varieties. Farmer expects better performance of the variety KMR-630 in summer season. No. of tillers was more for KMR-301 in comparison with KMR-630 but number of panicles was more for KMR-630. Farmer was satisfied with the performance of both varieties, which was a new component to his farm in the hilly terrain.

Mr. Kurien is an organic farmer who has certification of INDOCERT. He is also master trainer farmer who provide awareness about sustainable agricultural practices to fellow farmers and general public. He is a very progressive farmer who attends agricultural exhibitions and fairs inside and outside the state and collect planting materials of specific crops. He sell his products to fellow farmers and in local markets. As he has organic certification his products has high demand in local area.

He is a front line farmer and involved in different on farm trials and frontline demonstrations of KVK Kannur. He is an innovative farmer who invented different organic herbicides and a repellent for wild animals using plant extracts. He has adopted

different technologies developed by the agricultural universities and research stations such as improved varieties and hybrids, arka microbial consortium etc.

Mr. Kurien believes that farming is the most profitable enterprise if farmer could utilize all the technologies available and update their scientific farming practices through the support of agricultural experts in the line departments and agricultural universities. He has an annual income of around 3.5 lakhs exclusively from agriculture and allied activities. He also bagged the award for best organic farmer at state level in 2021 as a recognition for his dedicated efforts in organic farming and extension activities. Mr. Kurien is a successful farmer and a role model for fellow farmers and general public to follow sustainable agricultural practices.

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“No race can prosper until it learns there is as much dignity in tilling a field as in writing a poem.” - Booker T. Washington



ICAR-KVK, Kasargod**Meliponiculture for Sustainable Livelihood.**

ICAR- Krishi Vigyan Kendra, Kasaragod, promoted standardized stingless bee keeping or Meliponiculture. Shri Udayan from Karadka Village who was working as a temporary driver at KSRTC underwent the training and got motivated from it and established himself as a bee keeping entrepreneur.

Shri Udayan began with hiving of five natural colonies collected from bamboo nodes and neighbouring areas using bee boxes of standard specifications with the association and expertise of Shri Ambu, an Ex trainee of KVK. On gaining some practical exposure, he started locating the colonies by observing the foraging bees and hiving it at weekly intervals. He observed that in large areas with the wild vegetation, small bees prefer to colonize in dried bamboo poles as compared to hollows or cavities of wild trees. Further, he worked on attracting the natural colonies inside the bamboo nodes and then divide the colonies based on the strength of the colony at a later period. He then started to earn by selling these colonies.

He observed that by maintaining these colonies in his limited space there was gradual increase in the average yield of coconut from 66 nuts /year/palm and also in weight of coconuts from 425 g to 530 g. Further, it also resulted in more and bigger fruits in cucurbitaceous crops, such as, cucumber and bitter guard cultivated as intercrops.

Economic Gains

Every year he produce new colonies around 600-1000 no and sell @ Rs. 2000/- per colony and produce 400 Kg of honey per year from 1000 colonies in his farm and sell @ Rs 2200/- Per Kg in the brand name "Unique Honey".

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"The farmer hopes for rain, the walker hopes for sunshine,
and the gods hesitate." - Chinese Proverb



ICAR-KVK, Kodagu**Mushroom RTF Bag Production brings smile to the entrepreneur**

- A story of Smt. Smt.Rashmi Bhanuprakash belongs to Gonikoppal

Rashmi Bhanuprakash, a graduate, home maker with an agriculture background dreamt of starting a unique venture in agriculture. Athma nibhar Bharat (self sufficient), creating employment opportunity and doubling the farmers income has been the manthra promoted by govt of India. This aim made her strong and motivated her to do something for the nation.

In the year 2018, she came in contact with the KVK through the skill development training programme on mushroom cultivation. Her active participation and interest in the training fetched her certificate from Agriculture Skill Council of India in March 2019. KVK, Kodagu provided opportunity to her to work at KVK for production of oyster mushroom spawn, Ready to fruit bags and value under the BPD programme of ICAR-IIHR

She Started Mushroom cultivation in 2018 with 10 bags spending Rs. 300/- only and gradually increased the number and is currently producing a total of 900 bags per month. Currently, she is utilizing the existing facilities available for production of oyster mushrooms for fresh market,

value addition of mushroom (rasam powder, varieties of pickle, Dry mushroom, Kashaya powder and Chutney powder). She is now selling 5-10 kg harvested oyster mushroom (ready to cook) per day and sold about 40-50 ready to fruit bags, which sells like a hot cake among the consumers and has also Employed three rural women.

She earns annually about Rs.4.38 Lakh from sale of Mushroom, Ready to fruit bags and value-added products Now she has also started a company called Spice & Beans for marketing of Mushroom & Spices She has also served as a Resource Person for more than 10 training programmes at KVK and trained around 150 farm women.

She has been selected by National Institute of Agricultural Extension Management for training programme under RKVY-RAFTAAR - Startup Agri business incubation programme (SAIP)

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“If we as a society are willing to have a preference for organic food, the farmer can pass on the savings.” - Robert Patterson



ICAR-KVK, Kolar**Utilization of farm residue from Waste to Wealth**

- A story of Nagaraj belongs to Chitnahalli village

Shri. C.L. Nagaraja s/o Lakshmappa, 54 year old Sericulturist belongs to Chitnahalli village, Sugaturu Hobli, Kolar Taluk & District has 4.2 acre of total land holding and established mulberry garden in 2.5 acres. Sericulture has been main source of livelihood for the past 10 years. Under the technical guidance of KVK, Kolar he started management of farm residue like preparing compost, vermicompost, vermivash, selling of Earthworm, Jeevamrutha, Organic Urea & Organic DAP in his farm as other subsidiary income generating activities. Further, production of Ragi, Redgram, as sole crop and Field bean, Fodder crops as a inter crop in his 1.0 acre of tree mulberry garden.

Before intervention of the technologies from KVK, Kolar he has dumping the sericulture farm residue in road side or compost pit, due to slow decomposition process sometimes burnt the material also. It has been estimated that from 1 hectare of mulberry garden along with silkworm rearing around 16 to 20 metric tonnes of sericulture waste was generated yearly. Further, mulberry shoots normally takes 9 to 12 months for decomposition. In this regard, KVK, Kolar introduced technologies like recycling of serifarm residue into quality compost production using waste decomposer liquid solution, vermicomposting technology, preparation of organic nutrients like Jeevamrutha, Organic urea & organic DAP throughout the year, gaining an annual income of Rs. 8 to 10 lakhs per annum.

Recognition of his efforts in bivoltine cocoon production, organic farming and organic inputs production honoured with Taluk Level Best Organic Farmer Award from ATMA, Kolar during 2020-21, Appreciation certificate from Government Cocoon Market, Kolar for highest market price per kg of cocoon during 2020-21.

Further to accelerate the adoption of this technology in the district, KVK, Kolar has purchasing waste decomposer bottles from production units and selling to farmers in the KVK premises, So the

waste decomposer consortia technology has spread to 500 ha in Kolar area with 690 farmers. This is popularized through training programmes, Swacchata awareness programme and field days organized by KVK, Kolar in collaboration with Department of Sericulture Kolar.

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“The duty of the individual farmer, at this time, is to increase his production, particularly of food crops.” - David F. Houston



ICAR-KVK, Kollam**‘Sampoorna KAU multi mix’ -A foliar nutrition magic for sustainable yield in major crops of Kollam district**

One of the causes for drastic decline in crop productivity in Kollam district is identified as the deficiency of many essential nutrients especially secondary (Mg) and micronutrients (Zinc, copper and boron) in various crops viz rice, banana and vegetables. Usually farmers dump heavy doses of complex fertilizers containing primary nutrients into soil which ultimately result in nutrient disorders and imbalance in plants thus disturbing the soil health. Kerala Agricultural University has developed a nutrient mixture named Sampoorna KAU multimix (Sampoorna) which provides essential nutrients in correct proportion leading to enhanced crop productivity in rice, banana and vegetables. This pioneering crop nutrient formulation is a crop specific nutrient mix which contains zinc, boron, copper, iron, manganese, molybdenum, potassium, magnesium, nitrogen and sulphur for correcting the nutrient deficiencies through foliar application. Directing the nutrients through foliage results in a quicker and better absorption by the crops which ultimately curtails the chemical load in soil and wastage of nutrients. Krishi Vigyan Kendra Kollam had carried out frontline demonstrations on foliar application of ‘Sampoorna’ in rice, banana and vegetables.

The foliar application of Sampoorna KAU Multimix along with the recommended dose of fertilizers and manures in rice, banana and vegetables has increased the yield to 5.48t/ha, 18.9t/ha and 16.99 t/ha in rice, banana and vegetable cowpea, respectively with a yield increase of 35.6% in rice, 27.74% in banana and 28.14% in vegetables (yard long bean) over local check. Nutrient deficiency symptoms of Mg and B were also minimised. Hence the major secondary and micronutrient deficiencies common to Kollam district which were corrected by the foliar application of Sampoorna KAU multimix.

The technology was widely dispersed among the farming community by the way of frontline demonstrations by ATMA and DoAFW. The Kendra has

purchased the technology and started its production in order to meet the increasing requirement from farmers. In collaboration with the DoAFW and ATMA Kollam the technology has been disseminated in an area of 21 ha, 77 ha and 140 ha in rice, banana and vegetables respectively. In the adopted villages the Kendra popularized the technology in 5 ha, 15 ha and 13ha in rice, banana and vegetables respectively. It can be concluded that the technology of foliar application of KAU Sampoornamultimix successfully addressed the wide spread nutrient deficiency disorders of major crops of Kollam district.

Authors: Dr Poornima Yadav PI, Dr Bindu Podikunju, Dr Lekha, Dr Saroj Kumar V, Smt Manu CR and Dr Bini Sam



Technology	Dose	Time of application
Sampoorna KAU multi mix (Rice)	5 g/L 10g/L	At Nursery 30 and 50 DAT
Sampoorna KAU multi mix (Banana)	10g/L	2,4,6 and 8 months after planting.
Sampoorna KAU multi mix (vegetables)	5g/L	At 30,45 and 60 DAS and At 15,30 and 45 DAT

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“If you really want to be a good gardener, you need to understand what is going on in your soil.” -Jeff Lowenfels



ICAR-KVK, Koppal**Arka Prajwal Demanding tuberose variety of IIHR, Bengaluru**

Tuberose (*Polyanthus tuberosa* Linn) a promising and most important perennial bulbous flowering crop of tropical and sub-tropical areas belonging to monocots. Tuberose occupies a prime position owing to its popularity as a cut flower, loose flower and also raw material for extraction of the highly valued natural flower oil. The serene beauty of the flower is because of its tall and straight spikes which bear bright white florets which are loosely arranged on spike that can reach 2-4 feet in height. The local variety cultivated in Koppal district not found of producing a greater number of flowers per spike and the weight of the individual flower was also less. Farmers were not aware of different varieties available in tuberose which can be used for Loose flower, cut flower and extraction of essential oils. Farmers of Koppal district were in need of new tuberose variety which can give more of produce of loose flower per unit of land.

To address this problem of new varietal introduction, ICAR-KVK, Koppal has under taken the demonstration of Arka Prajwal a single type of tuberose flower. The demonstration was taken up in the years 2020-21 and 2021-22. Five farmers each in both the years were distributed with 100 kgs of Arka Prajwal tuberose bulbs which were purchased from IIHR, Bengaluru for an area of ½ acres. Cultivation practices and cultural operations of tuberose were made aware to the farmers through group discussion. The bulbs distributed in the month of June and the planting was taken up in the same month. The Drip irrigation system was adopted for crop cultivation tuberose variety Arka Prajwal. When the growth and yield parameters of both local and Arka Prajwal was compared it was observed that there was 29.41 % and 75.60 % increase in the number of flowers per spike and average flower weight respectively was recorded. There is 21.78 % of yield difference was also recorded. Market price also fetched 5 Rs extra as compared the local tuberose variety flower. It was also observed that demand for tuberose cultivation has increased in the paddy belt of Koppal district

(Gangavathi) as a part of crop diversification, as this part connected with new markets through railway means.

To increase the more awareness among famers field of this demonstration was conducted in both the years. Radio and television programs were also taken up to reach the larger farming populations. Farmers of SC/ST populations were also encouraged for cultivation of Arka Prajwal tuberose crop under SCSP and TSP projects of IIHR, Bengaluru. Over all there has been increase of 12% area in tuberose crop.

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“Soil is not just a substance, soil is the soul.”

- Amit Kalantri



ICAR-KVK, Kottayam**Drone Technology for Enhanced Productivity**

Kumarakom is a well-placed location in the world map owing to its distinct lowland rice cultivation and backwaters. The inhabitants here predominantly depend on below sea-level rice cultivation. Recurring floods, water logging, salt water intrusion, soil acidity, unscientific farming practices and aquatic weeds pose major challenges in rice cultivation, limiting the cultivation to single crop in a year.

Aerial application of nutrients with Drone, a KAU Technology, was demonstrated in the climatically vulnerable Kuttanadan paddy fields to address the problems of severe iron toxicity and partially filled and chaffy grains. Thekkeppallippadam Paadashekharan - a paddy cluster with an area of seventy acres comprising of 40 farmers in Kumarakom village of Kottayam district was selected under ICAR sponsored NICRA Project to demonstrate climate resilient technologies devised for enhancing crop yield during the kharif season of 2022.

Foliar sprays with drone has been proven as an effective method for reducing the spray volume and operating time to less than one-third of that required by the conventional method. KAU Sampurna for Rice, a nutrient mixture of Magnesium, Sulphur, Boron, Zinc, Copper, Iron, Manganese and Molybdenum, was aerially sprayed using drones @ 2 kg/acre at tillering and panicle initiation stages to evade micronutrient deficiencies.

Soil test based fertilizer application and aerial spray of micronutrients supplied the adequate quantity of nutrients to the plants in the demo plots. Spraying with a drone using nozzle produces a small particle size with greater penetration to the leaf surface. Yield increase of 24.76% was observed in the demo plots over control, contributing to lesser cost of cultivation in the demo plots. The net returns was also higher in the demo plots. Thus B:C ratio could be enhanced to 2.59 over 2.18 in the control plot. The

yield results show that soil health cards and drone applications are most beneficial to the farmers. The technology is being taken up by Department of Agriculture with the support of KVK for its wider dissemination.

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“There’s nothing like eating food you’ve grown yourself.”

- A.D. Aliwat



ICAR-KVK, Kozhikode**Efforts of a young couple make a horticultural nursery to bloom into diversified innovative enterprises**

- A story of Mr. & Mrs. Jojo Joseph and Bindu Joseph belongs to Peruvannamuzhi, Kozhikode



Jojo Jacob, aged 52 years is a resident of the Changaroth Panchayat, which covers the north-east hilly tracts of the Kozhikode District in Kerala. He is a school dropout and was working very hard in the fields along with his parents to meet both ends of life. In 1998, he happened to attend a training programme on nursery techniques at KVK, Calicut which was the turning point in his life. The training motivated him to start a plant nursery at his farm. The nursery initially started with a few plants in 36 cents of own land around his house soon became a roaring success with the involvement of Ms. Bindu whom he married in 2003. Jojo - Bindu couple worked over 16-18 hours a day which made their nursery into fame even in far away places.

The focal point of the nursery is much prized bush pepper plants. Probably their nursery must be the largest bush pepper nursery in the world selling over 18,000 plants annually. Bush pepper plants are produced in a special way with utmost care for a better success in rooting of cuttings. They are also maintaining Bush pepper plants of over 12 or 15 year of age which gives about 4.5 to 5 kg of green pepper per plant per year. Quality plants of Coconut, Arecanut were also produced by them plenty. In addition they produce and sell planting materials of plantation crops and spices, native and exotic fruit plants, ornamental plants etc. All these plants are mostly produced by them except some which are collected from reliable sources only so that quality is never compromised at their nursery. Enthused by the success of their nursery venture, they later diversified their activities into ornamental fisheries, vermiculture, apiculture, grow bag ginger and turmeric cultivation etc.

The availability of colourful varieties of Bougainville even at high rainfall area also attracted many visitors. The couple work in tandem mostly single handily without outsourcing anyone for various nursery and farm operations including coconut palm climbing for harvesting. To promote farming in a greater perspective, Bindu started a

YouTube channel during the year 2019 named as "Techflora" with over one lakh subscribers. She also conducts hands on training to school and college students in both on and off campus modes.

Jojo was practiced integrated farming in their ancestral property and able to manage life with minimum earnings. His exposure to KVK and the trainings constantly support him to carryout the scientific way of farm management which changed his lifestyle. Earlier, Jojo was selected for the Young Farmer award of Kerala Government in 2006 and young farmer award of IARI in 2007 which were nominated by KVK, Calicut. Recently Ms. Bindu Joseph is also bestowed with the prestigious Pandit Deen Dayal Upadhyay Antyodaya Krishi Puruskar 2021 instituted by ICAR, New Delhi for her contributions as a small farmer for developing sustainable integrated models of farming and in developing new innovations in the field of Agriculture. Diversified activities of Bindu - Jojo couple and their success is the result of hard work, dedication and social commitment and now they are a role model for fellow farmers to emulate.

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"Without the farmer, there is no food."
- Lailah Gifty Akita



ICAR-KVK, Lakshadweep**Neera tapper forecast innovation as a must in Lakshadweep Islands**

- A story of Mr. Jamaludheen belongs to Kavaratti Islands



Coconut farming is basically the livelihood of the islanders besides fisheries in Lakshadweep islands. More than 10 lakh coconut trees are spread over the islands forms a major source for business and trade for the islanders. Data sources inform that the yield of coconut is 100/tree/year in the islands. KVK and ICAR-CPCRI have recorded that a declining trend in coconut production and productivity is a becoming a serious issue in Lakshadweep islands. Though prospects for value addition and processing in coconut has been realised as one of the option to increase income for the farmers there exists very few enterprises. Reasons are manifold for such development of enterprises mainly due to logistics.

However, there are only few entrepreneurs who are traditionally into value addition and processing. Mr. Jamaludheen aged 49 from Agatti island is a professional neera tapper. Mr. Jamal used to lease in coconut trees for tapping and also use his own coconut trees. Every day he taps on an average 10 coconut trees and extract about 1-1.5 litres of Neera/palm.

Being an innovator, Jamal is keen on understanding innovations in neera tapping. During 2021-22, KVK planned to undertake three trials in neera tapping Coconut Sap Chiller of ICAR-CPCRI, efficient Jaggery extraction from Kalparasa and coconut sugar from neera. Mr. Jamal was involved in testing these three innovations. He produced Kalparasa (the non-alcoholic beverage drink-neera) using the Coconut Sap Chillers of ICAR-CPCRI and produced more than 500 litres of Kalparasa. He extracted 1 kg jiggery from 7.5 litres of Kalparasa against 10 litres required for making 1 kg of Jaggery from traditional neera. The third innovation he produced was the high value product “coconut sugar”. He has produced 256 kg of coconut sugar since he learned this innovation.

Mr. Jamal has won the hearts of many due to his innovativeness in testing new products that can fetch better price for neera.

Learning is a never ending process for Jamal and developing a model unit for quality neera production and marketing in the island is the dream to come true. Jamal’s efforts has been appreciated by many including Shri. Mohammed Faisal, Member of

Parliament, Lakshadweep. KVK and ICAR-CPCRI recognised him with a certificate of appreciation for this relentless effort in testing the new innovations of neera value added products. During 2022, his unit was inaugurated in the banner of KG Neera products. His annual income has increased from Rs. 3,60,000 to Rs. 4,50,000 with the new diversified products of Neera. Apart from that Mr. Jamal is the only tapper in Lakshadweep islands who has produced Coconut Sugar from Neera and expertise lies with him.

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“You know, farming looks mighty easy when your plow is a pencil, and you’re a thousand miles from the corn field.” - Dwight D. Eisenhower



ICAR-KVK, Malappuram**Value delivery beyond conventional farms:
Exciting journey of an IFS agripreneur from Malappuram**

Smt. Sushama women agripreneur from Tanalur village in Malappuram District overhaul coconut cultivation to the new status with her innovative and best profitable models of coconut based organic certified integrated farming system.

The perseverance of the enterprising women in converting coconut plantations in coastal low fertility sandy belts that was once unproductive and non-lucrative to a worthy business firm is worth sharing. With her aspiration to diversify, Fish ponds, ornamental garden, spices and fruit plants had taken a place in the coconut plantation. A desi cattle unit became artery of her farm to foster her urge for organic farming. Nothing in her farm goes on isolation, Sushama has perfectly integrate forward and backward links. The fodder for the cow is grown in own field. Sushama, then took a crafty turn to do value addition and processing of her farm outputs to tap maximum benefit and offset price instabilities. Installed with high end machineries to process coconut products, her business soared to new heights. With a well-established marketing network under the brand name “Sushas food products”, more than twenty two products from coconut, spices, mango, jack and fish are made available. The product ranges from handicrafts from coconut shells, coconut oil, curry mixes, pickles and spice powders.

Sushama has gone extra mile in farm business, by delivering products targeting people who value their lost tradition and build an emotional connect that allow customers to relive their the good old days by installing traditional equipment for processing.

Several awards and accolades are received by Sushama for her unequivocal leadership in agribusiness. Best Woman entrepreneur Award of ATARI Bangaluru zone, Kaarshakathilakam award of Govt of Kerala are a few among the list. Stepping away from the conventional farming, Sushama’s venture into value addition realm targeting people who value their lost tradition and build an emotional connect that allow customers to relive their the good

old days. Sushas journey reverberates its success and energizes the ambitions of farm women. KVK Malappuram gave all impetus to the Sushama’s endeavors through skill trainings and technical support.

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“A farmer is always going to be rich next year.”
- Philemon



ICAR-KVK, Mandya**Black gram variety LBG-791 seed production
- An additional income generating enterprise**

Agriculture is the largest enterprise in the country and an enterprise can survive only if it can grow consistently. Meanwhile in India Agriculture is said to be gamble with the monsoon, however it has made a tremendous advancement with respect to food production moving from deficit to food surplus which is a result of scientific research, innovations, technological advancements and the extension services. In this view the ICAR- Krishi Vigyan Kendra, V.C. Farm, Mandya adopted Marasinganahalli village funded by University of Agricultural Sciences, Bangalore in 2019 with a vision to strengthen the farming community. The cultivable area in village accounts to 140ha which is covered under irrigation with paddy, sugarcane as major crops. The Krishi Vigyan Kendra, Mandya provided holistic information on the important aspects of agriculture like importance of soil health and nutrient management in crops, integrated pest and disease management in crops and value addition.

The farmers had a practice of monocropping either paddy-paddy or paddy-sugarcane, very few farmers had practice of vegetable cultivation and were unaware of soil health management. Hence the farmers of Marasinganahalli were enlightened about change in cropping sequence and importance of growing pulses, under Indigenous pulse seed production project funded by IIPR, Kanpur in farmers participatory mode and they were encouraged to grow pulses.

Technology demonstrated: Improved Blackgram variety LBG-791 with line sowing instead of broad casting, use of bio-fertilizers, scientific nutrient, pest and disease management practices were introduced to farmers through trainings and method demonstration techniques.

Impact : The area under pulses in the village during 2018 was 2 ha. which increased to 13-14 ha during 2021. On the introduction of Blackgram variety LBG-791 the farmers could harvest better crop with 8.8q ha⁻¹ seed yield and quantum of seed production in three years accounted to 114q which was procured

under seed hub project at the rate of 6700 per quintal as it was the additional income to the farmers and also improved the soil physico-chemical properties, the soil pH reduced from 8.08 to 7.90 and available nutrients increased. Hence it can be said over a period of three years farmers could understand that improved scientific technology always has a positive impact on field and improves the livelihood.

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“Who sows a field, or trains a flower, Or plants a tree,
is more than all.” -John Greenleaf Whittier



ICAR-JSS KVK, Mysuru**Direct market daily cash flow**

- A success story belongs to Shankaregowda belongs to Gopalpura



Shankare Gowda s/o late Nagarajegowda, Gopalpura post, Mulluru, Jaipura hobli, Mysuru district, is a IFS farmer of 50 years old. His land is at Devagalli next to Mulluru, twelve km from Mysore. He is having 5.2 acres land. He is an example of selling the vegetables he has grown directly.

Shankar Gowda's family consists of two young children, wife,. A family of four. The whole family supports agriculture. The children join together to gather the crops, sow the seeds and pull the weeds and supports for marketing.

His organic farming started in 2005. "If you grow organic vegetables, there is a market problem. If you go to the store and sell them, they ask you for commission. They do it at a higher price in organic stores." Shankar Gowda was convinced that the solution to all this was direct marketing.

For the first three years from 2006, he conducted the sale along with others from the organic association. Marketing continued with a smaller group of associations for the next two years. He started selling separately from 2011. Shankaregowda harvest the fresh leafy vegetables and other vegetables previous day. He gets up at five in the morning and drives to the city with a car full of vegetables. It continued like this from 2013. Direct sales for 2013 only on Sundays. On Friday he sells goods to Nesra store; he supply vegetables to raita santé on Tuesday or Wednesday. Lack of time seems to be the reason for this change.

The sale started with greens such as spinach, fenugreek, coriander, curry leaf, amaranthus, Palak. "Initially, only half a kg of greens was sold. I have tried not to let go of the step forward. Today, more than 500 bunches is being sold," now he sells 7Rs/ bunch. The rate is fixed throughout the year for his leafy vegetables. The price of other vegetables is 25% more than that of Hop Coms. Now more than 180 customers/week wait for their vegetables. Apart from daily use vegetables, they grow commercial crops such as coconut, banana, sugarcane, ginger, mango, papaya, maize, millet and other crops. Besides this, they are involved in bee keeping, dairy farming. In two hours all the vegetables are sold. Shankaregowda says " I get twenty to fifteen to twenty thousand profit per week just from selling vegetables, banana, coconut oil, coconut, dried coconut etc.,

ICAR JSS KVK has made efforts to intervene in existing model to enhance system productivity by introducing tellicherry goat breed, stall feeding techniques in goat/sheep rearing, new fodder varieties like Co -4, sampurna, multi fodder sorghum varieties, composting and vermin composting. His annual net income was increased from 9 lakh. Organic vegetable direct marketing helped the consumers with health benefits and daily cash flow to the farmer.

He is growing green leafy vegetables in-between the main crops such as coconut, sugarcane, banana etc., Shankare Gowda also recycle the available biowaste and involved in organic manure preparation, sheep manure, green manure. The manure obtained from his farm is applied to grow organic vegetables. Vermicompost, compost is also prepared and used. He also planted forest trees along with his farm border. With his vast experience in farming and direct market, he has become an expert and developed a crop model for daily, weekly, monthly, bimonthly, half yearly, annual and longterm cash flow for all his expenditure.

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"I expected to be a farmer like my father and brothers. Life seemed pleasant and orderly." - Lawrence Welk



ICAR-KVK, Palakkad**Addressing Arecanut Yellowing by INM**

Arecanut (*Areca catechu* L.), popularly known as 'betelnut' or 'supari', is the most popular masticatory stimulant in India. Though arecanut is commanding a high price in the market now, growers of Palakkad district especially Attapady in Mannarkkad block as well as Nagalassery and Pattithara panchayats in Thrithala block are worried that arecanut yellowing is spreading in geometric progression. The symptoms starts with chlorosis spreading along vascular tissue of leaves with a sharp green-yellow border. In advanced stages, yellowing spreads to all leaves completely, dry and wither. The yield has been reduced drastically following the infestation finally resulting in fall off of the crown leaves leaving a bare trunk.

Given that soil ill-health and malnutrition are pre-disposing factors that cause yellowing in areca palms, the addition of soil amendments can restore productivity of the affected palms. Integrated Nutrient management especially organic manures (10 kg/palm) and fertilizers (2 splits -May and October 2022 and 2023) after liming (250g/palm) based on the soil test results were done. Soil application of Magnesium sulphate-100g, Zinc sulphate-25g and Boron-20g were also given for each palm. With in a time span of 7 months, new unaffected emerging leaves were observed in the selected farmer's fields of Attapady Hills and Thrithala plains. Around 45% yield increase was realised in INM adopted plots. On a final note, these front line demonstrations revealed that a productivity of 33.8 q/ha with net return Rs. 3.45 Lakhs per ha could be achieved by managing the yellowing affected areca palms in Palakkad district.

YouTubelink: <https://youtu.be/nB4EesxlGoA>

Authors: Dr. Resmi J (Assistant Professor)



Before adopting INM



After adopting INM



Before adopting INM



After adopting INM



→
New Leaves
emerged
after 7
months



3 months



7 months

Dr. Sumiya K.V.

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"The small landholders are the most precious part of a state."
- Thomas Jefferson



ICAR-KVK, Pathanamthitta**Philip Kurien T: Air Cargo Whizz Turns Agri Based Entrepreneur**

Shri. Philip Kurien T of Maramon in Pathanamthitta District is a young agri based entrepreneur. How he entered into the field of agribusiness is a long story. He was based in the UAE for many years from 2007. Basically a Masters in Financial Management and diploma in air cargo logistics he was involved in air cargo brokering. During his sojourn in the UAE, he found it very difficult to manage his rubber plantation back home. Rubber plantations needed daily labour and this was very difficult to monitor. So, he in action his plan for setting up a farm for exotic fruits in place of rubber. Thus in the year 2012, he removed all the rubber trees from his plot and in this place he planted exotic fruits such as Mangosteen and Rambutan. In the year 2016, he returned to Kerala with a dream of setting up a platform for air cargo brokering with an online booking system. However, he failed to receive the required funding and had to shelve his plan.

It was during his stay in Kerala, that he paid more attention to the exotic fruit plants that he had planted in 2012. He had used 2 year old saplings for planting and had planted 150 numbers of mangosteen plants and 15 numbers of Rambutan. So on his return, he found that the fruit plants were quite grown. His rambutan trees had started yielding. In the year 2016-17, he got a yield of 27 quintals of Rambutan fruit from which he made a net income of Rs.1,30,000/-. This cemented his interest in the field of exotic fruits. He found that his exotic plants required very little labour. However, the main problem he faced was the weed growth between the plants. In order to solve this problem, he decided to start up a poultry unit and rabbitary in the year 2017, wherein, he would let the poultry birds to free range among the trees.

His plan was to allow the birds to forage the weeds at the same time the poultry waste would act as a fertilizer for the fruit plants. In the year 2021 he started ducks and turkey too with the aim to use the weeds and grasses as feed for the poultry. He started off with 20 numbers of layer chicks, now he has upgraded his poultry unit with 350 numbers of B.V380 birds which he rears in the cage system of rearing and 200 ducks and turkey. He found a big

demand for eggs and meat that he had no problem in the marketing these. He sells his eggs as branded eggs, 'Agromak Chicken & Duck Eggs' and fruits as 'Agromak Exotic Fruits'. He is selling off the turkey birds for meat purpose during Christmas. He however faced several difficulties as the consumers ask for 'ready to cook' meat. The farm he maintains is a waste free farm through vermicomposting and Black Soldier Larvae farming from which he not only saves on feeding cost but also reduces the wastes to composts which he utilizes in the farm. His products such as 'Agromak vermicompost, Black Soldier Fly Frass and other composts which will be marketed through local shops and eco shops will also be a blessing for the farming community. During last year he earned an annual income of Rs. 11,30,000 from his integrated farm. He is a very versatile person who has come together with like-minded entrepreneurs to run an eco shop named 'Samruthi' with backing from Krishi Bhavan, Thottapuzhasherry.

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"I'm a farmer with a mandolin and a high tenor voice."
- Bill Monroe



ICAR-KVK, Raichur**High Density Planting in Guava**

Sri. Suresha Reddy is a well known farmer in the farming community for his bravery in introducing new cropping system to his region. The H. Thimmapura belongs to Raichur district occupied with the crops like paddy, redgram and cotton even though the soil is red sandy loamy with sufficient water facility from canal. Earlier Suresh was growing only crops like cotton, paddy & redgram. Due to too much fluctuation in the market price & unseasonal rains he ended up with loss. After attending training programmers at KVK, he decided to take up new cropping patten. Before he start up new cropping system, he subjected soil and water for testing to know the quality of the resources. Soil and water quality was found suitable for cultivation of horticultural crops.

Mr. Suresh is holding 30 acres of farm land and recently he took initiative to introduce dairy farming and got in touch with KVK scientist for scientific knowledge. Later, he decided to go with introduction of new crop to his locality along with dairy farming. With consequent visit and discussion, during 2019-20 with KVK, Guava var. Taiwan pink was planted in area of 8 acres of land . All the scientific Management practices were taken up as per the guidance of KVK scientists. By 9 months after planting he started getting returns.

Now he is getting around 250 to 400 tons of guava yield with superior quality. He is selling his commodity of the rate of Rs. 25- 30 per kg. He is generating gross income of Rs. 62 lakhs to 75 lakhs every year with the expenditure of Rs. 15-20 lakhs. He also extended the guava area by 2 acres more and providing employment to 20-30 local laborers everyday. More than 1000 students an 500 farmers were visited his farm to acquaint with the practical knowledge. For his efforts and passion, he received Vijaya Karanataka Star Farmer award during 2022 and Best Farmer Award of 2023 from University of Agricultural Sciences, Raichur.

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“Love is to the heart what the summer is to the farmer’s year.
It brings to harvest all the loveliest flowers of the soul.” - Billy Graham



ICAR-KVK, Ramanagar**Nursery training spins the fortunate of Magadi Farmer**

A success story of Mr. Sampath Kumar belongs to Kalya village



The most basic requirement of Horticulture is a nursery. Horticulture nurseries are built around plant propagation techniques and procedures. Seeds and vegetative components are used to make planting materials for horticulture plantations. The success of a horticulture crop is determined by the quality of raising seedlings or saplings under nursery. By careful planning one can establish a quality nursery by adopting skillful techniques.

Mr. Sampath Kumar, a well-known contact farmer of KVK Ramanagara residing in Kalya village of Magadi taluk started his Nursery in 2019 as a passion without any technical guidance. His traditional source of income was from adopting multi storied horticulture based cropping system and agri-horti-silvi-animal husbandry based IFS model. When KVK Ramanagara organised MANAGE Hyderabad sponsored 6-days “Hi-tech Nursery” training programme, Mr. Sampath was keen interested and participated actively.

In the training he learnt about nursery & its types, seed treatment, seed dormancy, propagation structures-mist chambers, humidifiers, green houses, glass houses, polyhouses, cold frames and hot beds, media preparation, nursery bed preparation, grafting, budding, layering, cutting techniques, nutrition management, use of media and growth regulators in nursery, plant propagation, closed media sachet-CMS technique for cutting rooting, propagation need, potentialities, propagation techniques in horticultural crops (fruits, vegetables, flowers, medicinal, aromatic and plantation crops), schemes available for nursery entrepreneurship, integrated pest and disease management in nursery, mother trees, selection and maintenance, bud wood certification and nursery registration act etc.

After completing training programme, Mr. Sampath along with his family support invested almost 28 lakh and expanded his nursery “Brundhavana Hi-tech Nursery” from 33X35 sq.ft into 0.75 acre, he concentrated mainly on

rare/exotic fruit saplings like Jackfruit, Bear apple, Red apple guava, Seedless njaival, Loquat fruit, Miracle fruit, Surinam Cherry, Strawberry, , Grapes, Butter fruit, Cashewnut, Baraba, Santol fruit, Passion fruit, Lemon, Babloos, White njaival, Rumbutan,

Pulasan, Mangosteen, Red lady papaya, Fig, Cocoa, Sweet ambazham, Goosberry, Peanut butter, Star fruit, Lemon vine, Malayan apple, Mullatha, Rose apple, Dragon ,Longan, Custard apple, Pomegranate, Red velvet apple, Sapota, Moosambi, Lichi, Malabari chestnut, Cherry, Tamarind, Kiwi, Cat fruit, Plum, all season Mango etc. Other spices, medicinal and forest plants like bush pepper, Kodampuli, Nutmug, Grampu, Cardamom, Karuvapatta, Karivap, Aryavep, Aluvera, Barma Teak, Othu, Sandal, Areca etc. Flower crops like Parijatha, Rose, Marigold, Hibiscus etc. and earning a good profit in the season of Rs. 50,000/- to 1,00,000/month.

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“If a farmer calls me to a sick animal, he couldn’t care less if I were George Bernard Shaw.” - James Herriot



ICAR-KVK, Shivamogga**Efficient recycling of areca nut (Areca catechu) husk waste For value added compost**

Arecanut (Areca catechu L.), being a highly profitable commercial plantation crop. On an average, 6.5-7.5 tones of organic wastes/ ha/ year will be available in arecanut garden. Direct recycling of these waste do not meet the crop demand immediately. The arecanut palm yields annually, 7,015 kg dried leaves (with leaf sheath), 575 kg dried arecanut bunch waste and 1,804 kg dried arecanut husk from one hectare of plantation.

The arecanut husk fibers are predominantly composed of lignin, cellulose and varying proportions of hemicellulose, pectin and protopectin. Microbes that selectively remove lignin without loss of appreciable amounts of cellulose and fiber strength properties are extremely attractive for the biosoftening of arecanut husk. The value of arecanut waste as organic material for compost making or incorporation in the field has not been fully realized in our country. A large number of fungi have potent cellulolytic enzyme systems. They include species of Pleurotous, Phanerochaetae, Chaetomium,.

Arecanut husk the outer cover of areca fruit. It constitutes about 60-80 per cent of the total volume and weight of the fruits. About 2.25 lakh tons of dry husk, 2000 millions leaf sheaths, 2.33l akh tons leaves are estimated to be available annually in India alone. About 5.4 to 6.4 lakh tons of Areca waste are estimated to be available annually in India alone.

At present majority of arecanut husk waste is disposed of by burning which resulted into a loss of potential source of organic matter and valuable plant nutrients and create pollution. To address this ICAR KVK Shivamogga conducting awareness programmes on decomposition of areca husk

through front line demonstration in 60 farmer field, 2 on farm testing, 15 Training, 2 workshops, 4 radio programme on use of waste decomposing cultures (composting microbial consortium culture) for decomposing the areca husk waste.

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“Corn is a greedy crop, as farmers will tell you.”
- Michael Pollan



ICAR-KVK, Thrissur**Success story of Sri. Rajanarayanan T.V.:
an innovative farmer of KVK Thrissur**

Sri. Rajanarayanan T.V. is a young dynamic farmer hailing from Thiruvilwamala, a remote area in Thrissur district. He is the recipient of 2017-18 Jagjivan Ram Abhinav Kisan Puraskar for ATARI Zone XI (Kerala-Karnataka). He started his ventures on open precession farming in horticultural crops and SRI in rice way back in 2006. Open precision system consists of fertigation system and plastic mulching. All the major and micro nutrient requirement in the field is satisfied through drip fertigation. In an area of 16 acres, he has been doing banana, long yard bean, bitter gourd, brinjal, chilli, yams, paddy, coconut, and arecanut. An effective crop rotation is being followed in the farm, ensuring that at any point of time no land is left unfarmed. Rotation revolves around banana and along with it vegetables and yams are taken as intercrop. A farm field school was also conducted in his farm on Scientific Banana farming. He develops vrikshayurveda and Gandakasala formulations in his farm for soil and plant applications.

Integrated Pest Management strategies such as Agro Ecosystem Analysis (AESA) is effectively followed in the farm. The farmer aims at achieving higher production in a sustainable manner. Farmer is so much concerned about soil health, ecological balance and sustainability of the farm.

As he is an innovative model farmer, KVK Thrissur has been conducting several On Farm Trials and Front Line Demonstrations in his field. The XVI Scientific advisory committee meeting held at KVK Thrissur selected Mr. Rajanarayan as SAC member for the next three years. Paramparagat Krishi Vikas Yojna Scheme of KVK Thrissur which aimed at production of organic rice was carried out at Thiruvilwamala Panchayath in a cluster of 26 farmers under the leadership of Sri. Rajanarayanan T.V. Following the successful harvest, he marketed brown rice under the brand of "Thiruvilwadri Matta". He has been one among the 110 DFI farmers of KVK Thrissur.

During 2017, he got an annual income of about Rs. 6 Lakh from paddy, banana, arecanut, coconut, cattle etc with major constraints of pests,

diseases, nutrient deficiency etc. With DFI interventions of KVK like facilitating market linkages, adoption of IPDM, application of Pseudomonas, Metarrhizium, Ayar, Sampoorna, micro irrigation techniques etc. and the additional cultivation of cowpea, his annual income increased to Rs 13 Lakh during 2022. The farmer has also won 8-10 awards and recognition to his credit including the young farmer award from the Govt of Kerala (2009) and Harithasree award (2017) from Vegetable and Fruit Promotion Council of Kerala (VFPC), Thrissur.

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"The farmer works the soil. The agriculturalist works the farmer." - Eugene Fitch Ware



ICAR-KVK, Thiruvananthapuram**Mushroom Cultivation - A subsidiary Activity for Doubling Farmers Income**

- A story of Sri. Vinu D. belonging to Kuttichal

Mr. Vinu D., Sreedharmam, Kuttichal, Thiruvananthapuram, was one among the thousands of youth in the country who migrated to Middle East in search of a job. Displacement from native made him physically and socially 'out of place'. He resigned his job in the Middle East and returned to Kerala to spend his remaining years with his family. On returning home, he found it difficult to make two ends meet. He happened to attend a training on oyster and milky mushroom cultivation organized by KVK during 2019. He regularly visited KVK on the completion of the training to get to know more about initiating mushroom cultivation. Basically he is very much interested in farming. His family includes wife and three children, who helps him make this attempt a success. He feels interest on this cultivation because of the low cost and minimum area of cultivation. With technical support of KVK he started the oyster and milky mushroom cultivation on large scale. On an average he is maintaining 1000 beds per month and is producing 100 kg mushroom per month thus earning 0.4 lakhs. He is one of the regular customers spawn at KVK. He is using paddy straw and rubber saw dust as substrate and preparing beds after chemical sterilization.

His success story has been documented by Noorumeni Programme as Episode No. 568 of Farm Information Beureau under the Department of Agriculture Development and Farmers welfare, Govt. of Kerala. This programme has uploaded in YouTube with link as below ;

<https://www.youtube.com/watch?v=illaqwVN9ZQ>

Mr. Vinu has evolved as a role model for the entire farming community in the locality. He proved that he is better off than any government employee and owes his success to Mitraniketan Krishi Vigyan Kendra.

Achievements: Earns an additional income of Rs. 40,000/month.

Developed as master trainer and trained around 50 farmers since last six months

Mushroom cultivation technology offers a very good alternative to the conversion of agricultural by-product and organic waste materials to palatable proteins. Inspired by long duration and short duration trainings and discussions of Mitraniketan KVK, many youths and SHG members have started mushroom

production units. They are earning handsome amount of money by selling their products through door-to-door marketing and also through different super markets. At present they are exploiting the possibilities of mushroom production unit in their area.

Small and marginal land holdings is a characteristic feature of Trivandrum district. Mushroom Cultivation can be taken up even by marginal and landless farmers by effectively utilizing family labour. Mushroom cultivation as a subsidiary activity, is a viable option to achieve the vision of doubling the farmers income by 2022. KVK Trivandrum has made tremendous efforts towards increasing the income of farmers by promoting subsidiary activities such as Oyster & Milky Mushroom Cultivation production unit in their area.

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"I live in a rural part of Virginia surrounded by farms and farmers." - Barbara Kingsolver



ICAR-KVK, Tumkur-I**This Innovative 'Coconut Tree Climber' Makes Life and the Task of Climbing a Cake Walk!**

- A story of Sri. Devananda belongs to Chickabidare

We have seen the struggles faced by tree climbers, especially when it comes to climbing the tall coconut or areca nut trees. In Tumkur District, we have lots of coconut trees, but finding a person to climb and pluck the coconuts has been hard. Traditionally professional climbers have been engaged by coconut planters for plucking the fruits from the top of the coconut trees, by using their hands and legs, which is a herculean task. But with time, the art of tree climbing has lost its lustre and it is now quite difficult to find such professional climbers.

To overcome these recurring problem ICAR KVK Tumkur-I has undertaken the Vocational training programme on Friends of Coconut Tree in association with CDB, Bangalore.

KVK has totally covered 350 young farmers of the district since 2012 under palm climbing and plant protection training programme and eventually they involving in harvesting of their own farm nuts along with engaging in harvesting of nuts from others farm by charging of Rs. 50 per palm. A single trainee can harvest the nuts from 40-50 trees in a day.

Mr. Devanand, marginal farmer with land holding of 3 acre dry land and before the training programme he was played multiple roles as labor in farm lands, lorry driver as well as farmer to sustain his life with a savings of Rs. 200-250 per day. By the advertisement of KVK regarding training programme he attended the training programme on Palm climbing and Plant Protection during 2015. He was actively involved in all the activities of training programme during sessions of one week. At present Mr. Devanand is more demanding person in the District and neighbor districts for harvesting of Coconuts and Crown cleaning along with plant protection work. Now he is fetching an income of Rs. 1250 -1500 along with his daily farm work.. He also involved other trainees who got training at our KVK for harvesting of nuts when ever the more demands comes. He also works as a Master trainer for other

FoCT training programmes of KVK and other

organisations. Mr. Devanand proudly says that, the KVK has given good and more effective training programme where it changes my life style by improving the economic status and because of all these I started animal husbandry enterprise by rearing sheep & goat along with this I engaged in the agriculture and am happy now.

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"I've always said I want a farmer, not a hunter. Hunters go for the kill and they move on. A farmer nurtures; he watches things grow." - Eva Longoria



ICAR-KVK, Tumakuru-II**Cashew: A Profitable crop for dry land horticulture farmers**

- Mr. Lokesh, D.Nagenahalli, Koratagere Taluk, Tumakuru

Sri. Lokesh S/o Rangappa, from D.Nagenahalli has approached KVK scientists during April, 2013 for adoption dry land horticulture crops. As per the suggestion of scientists, he took up cashew plantation, adopting high yielding hybrids Ullal-3, Ullal-5 and Vengurla-7. Sri Lokesh had procured grafts from ICAR- Directorate of Cashew Research, Puttur, Dakshina Kannada, Karnataka as per their suggestion, contributing for planting material cost and planted 176 such cashew grafts. He opted for normal density farming of 7 x 7 m distance that accommodated 80 trees/acre and total 176 trees were planted in a 2.20 acre area.

Cashews can grow well in well drained red soil. Farmer has used organic manures enriched with Bio-fertilizer and occasionally applied inorganic fertilizers for growing cashew crop. On sharing the advantages of cashew farming he says that Cashew farming has become easier for him and he is also getting a good yield. When compared to other crops, he feels cultivation of cashew is effortless! Once in a year, they give manures, no regular watering also, as these are rainfed crops. Only at critical stages, he takes care of water management.

In the fourth year itself the trees started yielding 3 kg cashew nuts/tree, thus amounting to 2.4 quintal/acre. Sri. Lokesh got 9.68 quintals of yield from 176 trees after 5 years of planting i.e., 5.5 kg of nuts/tree. He sold the raw nuts to the traders in APMC market, Tumakuru at the rate of Rs.104/kg, thus earning an income of Rs.1,00,672 from 2.20 acre. During the subsequent year, 14.43 quintals of raw fruits were harvested. Nuts were sold at Rs.110/kg, earning an income of Rs.1,58,730/-. Mr. Lokesh says that this is a good income, considering the drought situation during 2020-21 and 2021-22. Apart from income from cashew nut, he gets income from Tamarind also (Rs.32,000/-) under the NICRA project.

Mr. Lokesh says that, cashew is hardy crop, less labour intensive and minimum incidence of pests of diseases. The fruiting season of both Cashew and

Tamarind are similar and hence there is a least maintenance cost.

Profitability in cashew nut cultivation is more as prices are stable, compared to tamarind and cashew nut can be stored for longer period. The profitability in cashew nut can be further enhanced if processing facilities of nuts and raw fruits are made available in the district.

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“The wheat bought by a farmer to sow is comparatively a fixed capital to the wheat purchased by a baker to make into loaves.” - David Ricardo



ICAR-KVK, Udupi

Integrated Farming System

- A success story from Udupi

Mr. Shambushankar Rao is a small farmer with a land holding of 3.8 ha spread on the hillocks of Mandarthi village of Brahmavara Taluk, Udupi District. Mr. Rao is a full-time agriculturist, who became one of the earliest in the taluk to adapt and develop multistoried cropping system in arecanut and coconut based cropping system. Further, cashew and pepper intercropping in his farm is one of the examples of successful innovative farming in the region. He converted his entire farm into integrated farming system with the inputs from KVK Udupi.

Mr. Rao's farm has following components in the IFS model. Paddy (0.8ha) in Kharif, Black gram (0.4ha) and Fodder Maize (0.4ha) in Rabi and mixed vegetables (0.2ha) in Summer in addition to horticultural crops such as coconut (1.2ha), Arecanut (0.8ha), Cashew (1.60ha), Ginger (0.10ha) and turmeric (0.10ha). The farmer has successfully integrated intercrops such as cocoa (0.8ha), black pepper (300 veins) and nutmeg (70 plants) in his araca and coconut orchard. Border crops such as kokum (5 plants), mango (25 plants), jack (25 plants) and rambutan (25 plants) have been planted. The farmer additionally has planted agroforestry crops such as mahagani (1500 plants), teak (350 plants) forest spices (250 plants), bamboo (200 plants) and agar wood (300 plants). Apiculture boxes (5 nos) have been installed in various places in order to produce around 12 kgs/year of honey in his farm. Animal components are one of the important items in integrated farming systems of Mr. Shambu Shanker Rao. Desi cows (5 nos) and fisheries components in agriculture ponds have added additional income to the farm family.

Innovative new composting techniques have been practiced by the farmer to recycle farm waste. The wet waste generated in the nearby temple and panchayath area are also collected and converted to compost by using fast decomposing microbial culture provided by KVK Brahmavara. Mr. Rao is one of the innovative farmers in the area in terms of adapting farm machineries. Tractor, Power weeder, Power Sprayer, Battery Sprayer, Biomass, Drier, Solar Drier, ladder, Cart and shredder are available in the farm as farm mechanization. Water conservation technique (catch pits, Krishi Honda, Madaga), converting coconut fronds into manures using mechanized crushers, intercropping black pepper with cashew, preparation of banana power, cocoa coffee powder, kokum and cashew

apple syrup for preparation of RTS beverage, Squash Syrup, obesity reduction, giddiness reduction and culinary purpose as a value addition have been his innovations.

In addition, Cow dung Slurry enriched with Jeevamrutha is directly pumped to individual plants using a slurry pump for in-situ composting. Further, management of wild boar is done using wild boar menace - LED lights power bank.

Recognizing his untiring efforts in developing, maintaining and propagating IFS models, Mr. Shambu Shanker Rao has been awarded with KSDA Krishi Prashasthi; GoK, Rajyothsava award; UASB Corporation Bank Agriculture award; UASB Alumni Association, Late Giriappa Gowda best farmer award; Gol, DCCD Best and replicable model practices adapted in cashew/cocoa farming award and Govt. of Gujarat, Outstanding performance in agriculture award among many.

<https://drive.google.com/file/d/1wgCzXKuKtlyBIWNSjNplPDftpsg65ND/view?usp=sharing>

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“What makes the farmers market such a special place is that you are actually creating community around food.” - Bryant Terry



KVK, Uttara Kannada**Vasundhara Hegade - A Successful Entrepreneur**

A success story of Mrs. Vasundhara Hegade, 35 years old belongs to Mundgejaddi, Kannalli Village, Sirsi Taluka, Uttarkannad district. She is cultivating arecanut, coconut, banana, pepper and cardamom in 4 acres of land. During the COVID-19 lockdown period she was unable to sale Banana and Jackfruit and other perishable commodities, it incurred huge economic loss. Hence, She started to prepare Sukelli, Banana Flour and Banana Chips from Ripened and raw local banana respectively. Dried Jackfruit pulp, jam, Seed Powder, Chips from locally available jackfruit. She also prepares value added products like Turmeric Powder, Kokum Peel, Herbal Tea Powder, Curd Chilli. This helped her to overcome the economic losses during lockdown period.

She started her business in the name 'Manjushree Home Products' in June 2020 to sell her products. She joined a group in Facebook called Mahila Marukatte (Ladies Market) as a member, through which she advertised prepared value-added products in the name of Manjushree home products. With the help of mass media, the products were sold in Karnataka, Maharashtra, West Bengal, Rajasthan, Gujarat, Haryana, Tamil Nadu, Delhi, Goa, Lakshadweep and Telangana. She also exports Manjushree home products to Singapore, United Kingdom and America.

After the intervention of ARYA project by ICAR-KVK, Uttara Kannada, Sirsi, She has improvised processing and value addition techniques, and started produce quality products. Because of this, demand for the Manjushree home products was improved and hence she forced to increase the production capacity. Currently she is producing 5,5, 3, 1 and quintals of Sukeli, Banana powder, dry jack fruit pulp, jackfruit seed powder and dry kokum peel respectively, earning gross income of 4.30 Lakhs and net profit of 2.32 lakhs per annum. She is an inspiration to other rural women entrepreneurs.

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"The farmer works the soil. The agriculturalist works the farmer." - Eugene Fitch Ware



ICAR-KVK, Vijayapura-I**Women empowerment through Integrated Farming System**

Smt. Kalpana M Doddamani, W/O Manjunath Doddamani belongs to Nandihal viilage, Basavan bageawdi taluka, Vijayapura district. She completed Bachelor of Arts (BA) and her fashion towards agriculture and allied activities made her to be a farm women. She own 12 acres of irrigated land. She adopted integrated farming system in her land. She felt that integrated farming system takes care of optimal utilization of resources which integrate livestock and crop production or integrate fish and livestock along with cropping. The farm wastes of one enterprise become an input for another component.

She growing agricultural field crops likes maize, sunflower, chickpea and sorghum, jackfruit.

horticulture crops/ plants like pomegranate, grape, lime, guava, drumstick and jamun, anjur, amla, banana, guava, mango and Animal husbandry components also carried out herself like livestock management, fodder cultivation, vermin compost preparation, jeevaamurtha, Gha jeevamurtha and azola preparation in her field

Special attention in her field is agro-forestry system which includes mahaghani, teak, Sandal, cardmom, pepper and jack fruit different varieties, betal leaves, jamun etc.

The way she involved herself in agricultural machineries usage like tractor driving, bullock cart, spraying and post harvest technologies

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“I’m a peanut farmer at heart, still grow peanuts on my farm in Georgia.” - Jimmy Carter



ICAR-KVK, Vijayapura-II**Success story of Mr. Shivraj B Paragond**

Mr. Shivraj Pargond and his wife Mrs. Pushpa Shivraj Pargond are professionally software engineer worked at Germany up to 2018. Later they realized that they are interested in agriculture and don't want to do job at corporate sector. At the end of 2018 Mr. Shivraj Pargond and his wife Mrs. Pushpa Shivraj Pargond quit their high paying jobs and shifted back to their native place. They established 24 x 24 designed five layer fruit model (Panchatarangini Model). It is a tree based and diversified farming system includes organic and natural farming. The major principles followed here is low cost of cultivation and high returns. They names their farmed as Managonda Natural Farm (MNF). They started planting of horticulture crops in an area of 8 acres which was a waste land. They planted 400 guava, 200 lime, 152 basil, 52 curry leaf, 112 melia dubia, 128 tree pigeon pea, 128 drumstick, 22 cassava, 16 mango 10 ramphal, 10 lakshman phal 8 custard apple, 8 sweet orange trees. Multi cropping system and millet cultivation are being practiced by the farmer for efficient use of inter space. They raise indigenous dairy cattle.

The produce obtained are being processed in their farm, they are adding value to the produce by making dal, primary processing of millets,. They have developed Korale powder as a pizza based and have applied for patent.

To improve soil fertility they are using FYM, jeevamrutha, green manures, vermiwash, vermicompost and cow urine etc. and for management of pest and disease they are using neemasthra, gokrupamrutha, plant based insecticide butter milk and jeevamrutha.

The cost of cultivation for last three years is Rs. 93,500/- and the gross income gained by the farmer is Rs. 10,60,350/- and net profit gained is Rs. 9,66,850/-.

Initially he was getting income of 40 lakh per annum from his corporate job. After shifting to agriculture he got income of 9 lakh in first year and

earned 25 lakh in second year. At present he is earning 50 lakh per annum purely from agriculture.

AWARDS/ RECOGNITION:

- SiddachetanaSevaratna award received from siddagangamata Tumkur.
- Received Krushi sadana award during 2020.
- His achievements are also recognised by media like News 18 Kannada, News first Kannada, Power TV, Prajavani, Vijaya Karnatka and Vijayavani news papers.

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“Who sows a field, or trains a flower, Or plants a tree,
is more than all.” -John Greenleaf Whittier



KVK, Waynad**Success Story of Mr. Junais - A Promising Young Farmer**

Mr. Junais aged 32 years is a very talented young farmer doing vegetable farming by open precision farming method. He started involved in agriculture since 2016 only. Earlier, he was working as an employee and engaged in carpentry. Slowly, he realized the importance of farming and understood that farming is the future. Thus he left out all the other previous occupations, leased in around 2 acres of land and commenced his agriculture by planting local variety of tapioca. He was able to get a profit of around 80,000 INR in his maiden attempt, which boosted his confidence and faith upon agriculture.

He further leased in around 1 acre of land and continued his agriculture. Unfortunately, with the breakdown of the corona and the lockdown, he could not continue agriculture in a profitable manner; but that did not stop his determination and interest in agriculture. He survived the losses due to this pandemic and revived agricultural operations in 2022.

By this time, the local Krishi Bhavan (Agriculture Office) officials made him to participate in the training programme on Precision Farming at Krishi Vigyan Kendra, Ambalavayal. It was an eye-opener for this innovative young farmer. He learned a lot about the precision farming methods, open precision farming in particular, and started practising the same with vegetable cultivation. He adopts plastic mulching after applying the composts and drip irrigation. For climbers, he uses plastic nets which is long lasting and do not get easily damaged. He has installed solar fencing system too to protect his crops from wild life attack.

The KVK lent him a helping hand by providing necessary technical guidance, seed, bio-control agents, micro-fertilizer mixtures. He cultivates all types of vegetable crops thrice in a year through organic farming methods. He applies Jeevamrutham, Panchagavyam, neem-based formulations and other bio-control agents purchased from KVK.

Mr. Junais adopts a pioneering marketing strategy. He sells his organic farm produces directly to the retail market outlets and super markets. His produces are sold away at a premium price, around 25 to 50 per cent higher than his fellow farmers' produces. Payment is also done immediately i.e. he

gets on-the-spot payment. He has invested an initial amount of around 1.5 la INR and has spent around 25,000 INR for the first crop of vegetable cultivation. He was able to fetch around 1 la INR as revenue from the first round of vegetable cultivation. He is very much hopeful that he would be able to get the entire investment amount within a year by cultivating two more seasons of vegetable crops. Just with 5 years of farming experience, this young entrepreneurial farmer has bagged the Best Young Farmer Award at the local gram panchayat level this year. He competed for the state level best Young Farmer award, however due to absence of animal husbandry components in his farming; he could not get the award. However, he is very confident and optimistic of bagging the award in the near future.

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“The wheat bought by a farmer to sow is comparatively a fixed capital to the wheat purchased by a baker to make into loaves.” - David Ricardo



KVK, Yadgiri**Bagappa L Yadav - A Progressive Farmer**

Sri Bagappa L Yadav native to Rattal Village, Shorapur taluk, Yadgir dist. owns a land of 18 Acres involved in cultivation of paddy and cotton crops. The average income of the family ranged from 5.00 to 6.00 lakhs from above crops. ICAR- KVK Yadgir provided the technical knowledge for stall fed sheep and goat rearing unit to achieve higher income from the same piece of land. Initially he started sheep rearing with 25 animals and enhanced upto 300 numbers with a span of 4 years. He also started poultry of native breeds and presently holding 200 birds. He purchase the sheep and goats from nearby market namely Shahapur, Hunasagi & Devadurga at the cost of Rs.6000 to 7000 per animal with an age of 4 to 5 months and sell the animal at the price of Rs.12000 to 13000 per animal after rearing for 3 to 4 months with net profit of Rs.2000 to 2500 per animal. He sells approximately 45 to 50 animals per month and earns Rs.1.00 to 1.20 lakhs per month. Besides he established fodder unit of Rhodes, Gini, Paragrass CoFs-29 and 31 and Super napier. By integrating animals component now the present income of the farmer enhanced from 5 to 6 lakhs to 18 to 20 lakhs per annum.

In the meantime he started dairy with 3 Gir breed cows and started vermicomposting to convert waste to wealth in his own land. He applied the organic material to his own land and reduced 50% of chemical fertilisers and pesticide consumption. The average productivity of cotton is 15-18 qtls/acre.

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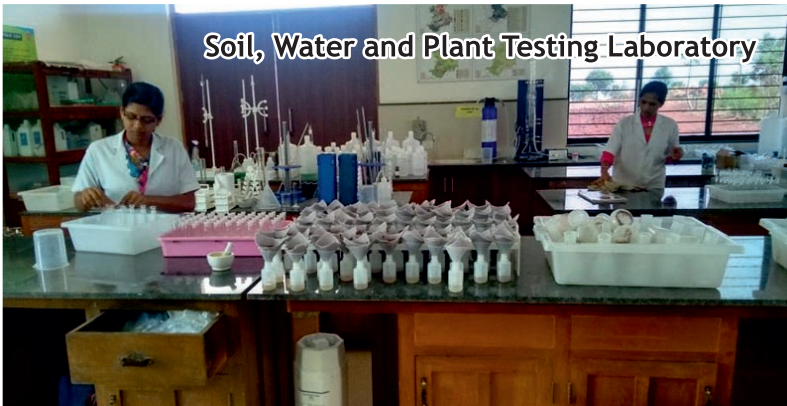
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“What makes the farmers market such a special place is that you are actually creating community around food.” - Bryant Terry



Infrastructure Facilities

NAMMA KVK



Soil, Water and Plant Testing Laboratory



Seed-Processing Unit



Plant Health Clinic



Administrative Building



Conference Hall



Animal feed unit



Training Hall



Exhibition Hall - 1



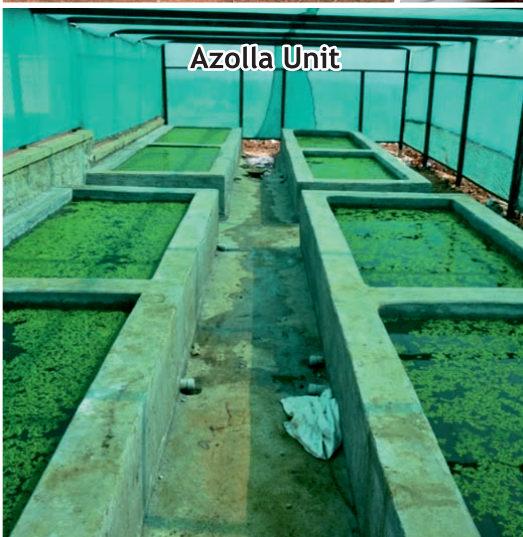
Exhibition Hall - 2

"Farmers farm for the love of farming."
- Wendell Berry



Demonstration Units

NAMMA KVK



“Farmers farm for the love of farming.”
- Wendell Berry



Demonstration Units

NAMMA KVK



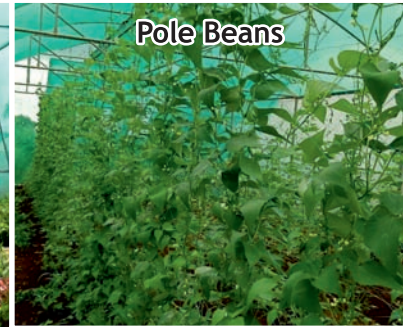
Crop Cafeteria



Vegetable block



Plant Propagation Unit



Pole Beans



Shade House



Flower Cafeteria



Cashew Orchard

Mango+Pomegranate



Agro-forestry



Mulberry



High density mango orchard



Mango mother block



Sapota Mother Block



Mango+ Curry leaf



Coconut



“Farming is “possibly the most spiritually, emotionally, and physically engrossing pursuit one can make.” - Andrew Kilduff



KVK TIMES

A Window to KVKs of ICAR-ATARI, Zone-XI, Bengaluru

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KLE SOCIETY'S ICAR- KRISHI VIGYAN KENDRA



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