



HORTICULTURE DEPARTMENT, TELANGANA STATE





Evolution of COE Jeedimetla in Telangana state

Visit to COE Gharunda & Mangiana : March 2014

"Concept of establishment of Centre of Excellence" learnt Basic field work of Establishment : May 2014

"Centre of Excellence" Started

Visit to Agritech Israel: April 2015

"Technology improvement in establishment of Centre of Excellence" learnt

Commencement of Construction of structures work

Centre of Excellence" : May 2015



"Technology improvement in establishment of Centre of Excellence" learnt Visit to COE Thally, Tamilnadu

Visit to IIHR Bangalore

"Technology improvement in establishment of Plug Type Nursery" learnt

Visits

VIPs, Scientists of TS & GOI, Foreign Delegates Conducted Trainings seminars workshops

Transfer of Technologies to farmers, officers, staff

Completed

Establishment of COE Jeedimetla

Study Tour : Visit to Centres of Excellence, Gharaunda (Vegetables) & Mangiana(Fruits), Haryana : MIDH

Visit to COE Gharunda

- ✓ Centre of Excellence for Vegetables in Gharaunda of Haryana's Karnal district is the first Indo-Israel agricultural project in the country.
- Adoption of modern technology in farming for maximum production using least amounts of water and fertilizers.
- Protected cultivation enables High-quality Vegetables Like Cherry Tomatoes, Cucumber, Brinjal, Chilli, Colour Capsicum, Green Capsicums and so on to be grown round the year.

Visit to COE Mangiana

- ✓ This is the second Indo-Israel Centre of Excellence to be established in the State of Haryana for fuits.
- ✓ It will serve as yet another focal point for Indo-Israeli Agriculture R&D, and will showcase some of the most advanced Israeli nursery and fruit cultivating technologies, adapted for Indian conditions by local experts.

Study Tour : Visit to Centre of Excellence for Vegetables, Gharaunda, Haryana : MIDH



CENTRE OF EXCELLENCE FOR VEGETABLES



Study Tour : Visit to Centre of Excellence for Fruits, Mangiana, Haryana : MIDH



Visit to Israel as a member in the group of Ministers, officials and farmers to participate in the 19th International Agriculture Exhibition 2015

Agritech Israel : 19th International Agriculture Exhibition 2015

It is one of the world's most important exhibitions in the field of agricultural technologies. The exhibition was held April 27th – May 4th, 2015 at the Israel Trade Fairs and Convention Center in Tel Aviv. In addition to the exhibition, a conference on "Facing Challenges in Postharvest Food Losses" was organized.

Studied the latest technologies in the field of Agriculture and Horticulture and assess their suitability for the Telangana state.



Visit to Israel as a member in the group of Ministers, officials and farmers to participate in the 19th International Agriculture Exhibition 2015



Different Stages of Progress : CoE, Jeedimetla



Participated in international seminar at COE Thally, Tamilnadu on 15th & 16th December 2015, with Green house/ structure expert Mr.Itzhak Askura and Floriculture expert Mr.Elizer Spegiel, from Israel to discuss about the principles of Greenhouse cultivation based on the Israeli Knowledge and visited green houses in Hosur.

Participated in International Seminar at COE Thally, Tamilnadu



Visit to IIHR, Bengaluru : Plug Type Nursery and Polyhouse Vegetable Cultivation

13-12-2015



Arial View of Completed CoE, Jeedimetla



Different Technologies and Crops: CoE, Jeedimetla



Workshop on Vegetable Crop colony in Ibrahimpatnam at COE Jeedimetla on 8th September 2017



Sri. B. N. S. Murthy, Horticulture Commissioner, Gol has also participated in the workshop

Vegetable Pluglings distribution to farmers by APC & Prpl Secretary in the workshop



Orientation Programme to Newly Recruited Hos (73 Nos.) at CoE



Dignitaries visits at CoE, Jeedimetla



Dignitaries visits at CoE, Jeedimetla



Foreign Dignitaries visits at CoE, Jeedimetla



Visit of Delegates from Africa

Visit of Agriculture Minister, Seychelles



Poly House Farmers Field, Mallapur (V&M), Jagityal

09-01-2019

Farmer Name: Bhukya Latha

Crop : Onion (White)



	FINACIAL ASSISTANCE B	P DEPARTMENT OG HORTICULTURE
1	TELANGANA	
	Name: Bhukya Latha	D/o : Shankar
	Cell: 7702549400	Mandal : Mallapur
	Village: Mallapur	Component : Polyhouse
	Dist: Jagtial	Total Cost : Rs. 18,11,964.00
	Area In Sq.mt : 1961	Assistance : Rs. 1,53,938.50(95%)
A PARTY	Acres: 1/2	
5	Construction Firm : Mis Hytasu Corporation	

Poly House Farmers Field, Arapet (V), Mallapur (M), Jagityal





COE - Mulugu







LAYING FOUNDATION OF COE MULUGU, MEDAK BY HON'BLE UNION MINISTER FOR AGRICULTURE & FARMERS WELFARE, Gol (07-01-2016)



Visit of Commissioner of Horticulture to the site on 30th Nov 2016

Different Stages of Progress : CoE, Mulugu

Borewell (4 Nos) Drilling Work

Road formation work by TSAGROS in COE Mulugu



Levelling Work

Raised Bed Preparation



Raised Bed Preparation, Pitting, Backfilling, Weedmat Laying, Drip Laying and Planting at COE Mulugu December 2017

Different Stages of Progress : CoE, Mulugu



 Government of Telangana Department of Horticulture

 Centre of Excellence for Fruits Mulueu, Siddipet Dist.

 Crop
 Mango - Mangifera Indica

 Variety
 Ratma

 No. of Row
 6 Rows

 No. of Row
 257

 Spacing
 3x2 MTS

 Source of Plant Material
 Cr. Balasaheb Sawant Konkan Krishi

 Kidyapeeth, Dapoli, Dist. Ratmagin.
 27-10-2017





Different Fruit Crops: CoE, Mulugu



Hon'ble Minister visit to COE Mulugu



Visit of Dr . Kulapati Hipparagi, Professor & Head Dept of fruit science, Univ of Horti Science, Bagalkot, Karnataka Mango Block



Visit of Sri. M. B. Patil, Scientist, Maharastra



Sri. C. Parthasarathi, IAS, APC & Prl. Seceretary, TS Visit to CoE, Mulugu

02-07-2018

Agriculture Minister, Seychelles Visit to CoE, Mulugu













Farmer Based Initiatives

IMPLEMENTATION METHODOLOGY OF MICROIRRIGATION


IMPLEMENTATION OF TSMIP THROUGH TSHDCL UNDER NABARD INFRASTRUCTURE DEVELOPMENT ASSISTANCE (NIDA)

- ✓ To meet the huge demand for Micro Irrigation, the Government has sought the financial assistance of Rs. 874.00 crores from NABARD to cover an area of 3.15 lakh ha. during 2016-17 & 2017-18.
- An area of 3.77 lakh acres has been covered under Micro Irrigation through NABARD assisted MI Project during 2016-17 & 2017-18.



POSITIVE OBSERVATION & APPRECIATION

Positive Observations by Audit team of GOI:

- * The Horticulture Department of the Telangana State has developed a good app called "me seva". This app provides easy approach to the farmers to register their names through mobile, me seva centers, Panchayat / Block / District Horticulture office to get the benefit of PMKSY Scheme. Department has proper monitoring system at each and every level. The scheme is on "first come first serve basis" and no individual is favoured out of the way.
- * Farmers are taking the benefits of the scheme on large scale under the superb observations and guidance of the Departmental officers and upgrading their life by increasing the production with the help of this scheme.

Appreciation received from NABARD:

* At the outset, we sincerely thank you for all your support that made the KfW mission visit from Germany a successful one. The visiting team from KfW was appreciative of the way the project has been prepared, structured, documented and commitment of the officials for implementing such a large scale project spread across the state.

Team from Germany visit the Farmer's Field Vikarabad



Distribution of Proceedings & Equipment by Honble Agriculture Minister @ Kamareddy



Visit of DoH to Farmer's Field @Sangareddy

ELANGANA STATE MICRO IRRIGATION PROJECT SANGAREDDY PMKSY - PER DROP MORE CROP

FARMER PROFILE

PMKSY - PER DROP MORE CROP ME OF THE SCHEME G. SUBRAMANYAM CHOWDARY AME OF THE FARMER FATHER/HUSBAND NAME : G. NAGESHWAR RAO : 0.0 4.40 HA WATER SOURCE 2016-17 YEAR OF SANCTION WE OF THE CROP SYSTEM COST UBSIDY

SUPPLIER

CASTE

VILLAGE

MANDAL

EXTENT

RAIPALLY "D" ZAHEERABAD OPEN WELL VEGETABLE RS. 4,67,649 RS. 3,69,510 RS. 1,16,521 ONTRIBUTION 9949042472 MIS GODAVARI POLYMERS ONTACT NO



State level workshop on cultivation of flowers and vegetables in Polyhouses on 31.07.2015 at Public Garden Hyderabad



State level workshop on cultivation of flowers and vegetables in Polyhouses on 31.07.2015 at Public Garden Hyderabad







Major Contribution : Workshops/ seminars in state. > To create a platform for the farmers to interact with the firms as well as experts.

Establishment of CoE

Poly House Cultivation



Vertical Farming

Organization of Polyhouse construction companies mela on 15-12-2015 at public gardens

Main objectives of the mela are:

➤To create a platform for interaction between Polyhouse companies and identified beneficiaries under the scheme across the State.

➢ To create awareness among the identified beneficiaries under Polyhouse about the scheme, specifications etc.

➢ For the companies to showcase their previously done Polyhouse work and success stories.

Organization of Polyhouse construction companies mela on 15-12-2015 at public gardens

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Organization of Polyhouse construction companies mela on 15-12-2015 at public gardens



Visit to Poly House of Sri Venkatesham, Bhongir



Visit to Poly house constructed in Chevella mandal of RR dist



Visit to polyhouse of Armoor



Vertical Gardening - Model Agriculture Garden, Shanghai



1st State Level Workshop on Urban Farming & Vertical Gardening @ CoE, Jeedimetla



Introduction of Vertical Farming at CoE, Jeedimetla





Workshop for launching of Mana Ooru Mana Kuragayalu Programme at Agriculture University campus, Rajendranagar by Honble CM, Dt: 06.08.2014

- The programme Mana Ooru, Mana Kuragayalu is a new initiative under Rashtriya Krishi Vikas Yojana-VIUC, was launched by Hon'ble Chief Minister K.Chandrashekar Rao on 06-08-2014 to introduce advance technology in vegetable production around Hyderabad to produce vegetables in off-season.
- It is joint venture of Horticulture department, Marketing department, Horticulture university and CRIDA.
- This programme was designed after identification of a wide gap between vegetable market arrivals and production around Hyderabad during Off-season.

Main objectives of scheme are:

- Formation of Vegetable clusters and preparation of production plan based on market arrivals to meet the market demand in all the seasons.
- Promote, developing and disseminating technologies for enhancing production and productivity of vegetables in peri-urban areas of HYDERABAD
- Addressing all concerns related to both the demand and supply side of the vegetable sector.
- Establishment of an efficient supply chain
- Assisting vegetable clusters in addressing the entire value chain, right from the stage of pre-production to the consumers table through appropriate interventions.

Workshop for launching of Mana Ooru Mana Kuragayalu Programme at Agriculture University campus, Rajendranagar by Honble CM, Dt: 06.08.2014



Workshop for launching of Mana Ooru Mana Kuragayalu Programme at Agriculture University campus, Rajendranagar by Honble CM, Dt: 06.08.2014



Workshop for launching of Mana Ooru Mana Kuragayalu Programme : Hon'ble Chief Minister interacting with Director of Horticulture and officials



Field visits and Interactions with farmers, Shadanagr of Mahaboobnagar: Mana Voru Mana Kuragayalu Concept



Workshop cum awareness programme on vegetable crop colonies on 28.1.2016 In Chikatimamaidi(V), Bomalaramaram(M) of Nalgonda dist

ఉద్యానశాఖ

కూర⊓ాయల క్రాష్ కాలనీ నురియు సాగుపై అపే⊓ోపానే చికటి మామిడి (రా), బామల రామారం (మం), నల్గిండ జిల్లా

E8+28=01-2016

Workshop cum awareness programme on vegetable crop colonies on 28.1.2016 In Chikatimamaidi(V), Bomalaramaram(M) of Nalgonda dist



Meeting with Hon'ble Chief Minister of Telangana on Crop Colonies



Development of Ibrahimpatnam Crop Colony

2016 to 2018

Before crop colony Vegetable production from 3562 acres was 44,000 MT dvantages

IBRAHIMPA

TNAM CROP

COLONY

INCREASED VEGETABLE PRODUCTION AS PER THE DEMAND OF A MUNICIPALITY / CITY / TOWN FROM ITS OWN SURROUNDING VILLAGES.
MINIMIZING THE IMPORT OF VEGETABLES FROM OTHER PLACES IN TO MUNICIPALITIES / CITIES / TOWNS SO AS TO ENSURE BETTER MARKET PRICE FOR THE VEGETABLES PRODUCED BY THE LOCAL FARMERS.

• COMPUTATION OF VEGETABLE DEMAND FOR A MUNICIPALITY / CITY /TOWN BASED ON LOCAL CONSUMPTION PATTERN WORKED PJTSAU, HYD., AND PROMOTION OF VEGETABLE PRODUCTION BASED ON SOIL TYPE, SEASON & CLIMATIC CONDITIONS IN CLUSTER MODE

• AVOIDING MARKET GLUT BY ENCOURAGING STAGGERED SOWING.

• IMPLEMENTED IN AN AREA OF 3562 ACRES COVERING 2780 FARMERS IN (38) VILLAGES OF (3) MANDALS VIZ. IBRAHIMPATNAM (12 VILLAGES), MANCHAL (12 VILLAGES) & YACHARAM (14 VILLAGES). After crop colony Vegetable production from 3562 acres is 83,000 MT.

At present on an average daily 60-70 MTs of vegetable produce of Ibrahimpatnam Crop colony (Approx. 600 farmers) is being sold at NTR Market of LB Nagar.

Major Contribution : An amount of Rs. 1412 Lakhs was spent for development of Ibrahimpatnam crop colony (Rs. 901.68 Lakhs from Stateplan, Rs. 21.35 Lakhs from MIDH, Rs. 33.03 Lakhs from RKVY and Rs. 456.87 Lakhs from TSMIP schemes).

Workshop on Vegetable Crop colony in Ibrahimpatnam at COE Jeedimetla on 8th September 2017



Workshop on Vegetable Crop colony in Ibrahimpatnam at COE Jeedimetla on 8th September 2017



DDG ICAR has also participated in the workshop

Vegetable Pluglings distribution to farmers by APC & Prpl Secretary in the workshop



Visit to Maharastra (Jalna, Jalgaon & Buldana) from 22nd – 25th January, 2017 to study the alternative structures for the poly houses with minimal expenditure and high unit returns and small insect net houses for hybrid vegetable seed production as and alternative source of income in small bits of land. To introduce Phytopthora resistant and processing Sweet Orange varieties and also TC Pomegranate.

Visit to Maharastra (Jalna, Jalgaon & Buldana)



Visit to Raipur on 26th & 27th September 2017 to study the technologies adopted in production of plug type seedlings, new varieties of Guava, Konkan Lemon, Katol Gold of Sweet Orange and innovative farming practices like Vegetable Grafting followed by Training to Horticulture Officers and Supervisors on Vegetable Grafting.

Visit to Raipur





Veg.Seedling - Visit of Hon'ble Minister of Agriculture & Allied Sectors (30-12-2016)








Field visit & Interactions with farmers in Nalgonda district





Pandals of Babaguda Arial view



Sri VenkataKrishna, Mehdipatnam, Hyderabad





NAME OF THE BENEFICIARY : SRI.S.V.SUBBA RAO SUBHODAYA APTS, LIC COLONY, MEHDIPATNAM, HYDERABAD

NAME OF THE BENEFICIARY : SRI. K.SAMBA SIVUDU 1-2-9787, HITECH CITY, YELLAREDDY GUDA, HYDERABAD



NAME OF THE BENEFICIARY : SRI. M. SHANKAR 8-10-383, PLOT NO.14 JILLELAGUDA, VENKATESHWARA TEMPLE, KHARMANGHAT, HYDERABAD



NAME OF THE BENEFICIARY : SMT.M.SRIDEVI SAI BABA OFFICERS COLONY SAINIKPURI, HYDERABAD

CENTRE OF EXCELLENCE FOR FLOWERS & VEGETABLES

Jeedimetla, Telangana State

OFFICE HALL

Dt:10-04-2017



CENTRE OF EXCELLENCE FOR FLOWERS & VEGETABLES

Jeedimetla, Telangana State

Dt:10-04-2017



FARMERS OF YACHARAM MANDAL IN IBRAHIMPATNAM CROP CLUSTER PRESENTING TOMATO FRUIT BASKET TO HON'BLE AGRI. MINISTER WITH TURBAN

Pavíng way for hígher return to Turmeric Farmers









Nizamabad Farmers at main entrance of Turmeric Market Complex, Erode, TN



Telangana officials with Tamilnadu farmers at Turmeric Market Complex

Turmeric Market Complex, Erode, TN



Interacting at Auction centre

Observing Varieties of Turmeric

Observing the varieties with Secretary, APMC, Erode

Nizamabad Farmers at Auction centre, Erode



Turmeric Market Complex, Erode, TN



Workshop on Turmeric at Dhanora in Adilabad district on 03.03.2016



Sensitized the farmers on latest technologies in Turmeric cultivation. To make a step forward in the direction of introduction of new varieties in Turmeric, the department has organized a state level workshop on advance technologies of turmeric cultivation on 3rd March 2016 at Dhanora Village of Tamsi Mandal of Erstwhile Adilabad District to sensitize the farmers and to create awareness on latest technologies in Turmeric cultivation, improving the quality produce, cultivation practices to be followed, of the processing & storage methods etc.

Workshop on Turmeric at Dhanora in Adilabad district on 03.03.2016





Workshop on Turmeric at Dhanora in Adilabad district on 03.03.2016





Turmeric : Front Line Demonstrations In farmers' fields





Adoption of seed treatment, raised bed with micro irrigation.



Planting material as Single node cutting

- Under MIDH, FLDs for turmeric crop was implemented in traditional growing Districts of the State by introducing PTS-10 variety from Tamilnadu during 2016-17.
- Most of the farmers in Telangana State are using 10-12 Qntls of Turmeric seed material for sowing in an acre, which costs about Rs. 30,000/- to Rs. 40,000/- per acre.
- Farmers were advised to follow the single node cuttings of rhizomes which require only 2 Qntls of rhizomes which costs about Rs. 6,000/- per acre, thus saving an amount of Rs. 24,000 per acre. Further, protray nursery is also encouraged to save 2 months time and to maintain accurate plant population per acre.
- By adopting new technology (single node cutting) and cultivating specific varieties with high cur-cumin content the farmers of Telangana State it was estimated to save an amount of Rs. 360.00 Crores from the entire area of 1,50,000 acres on seed cost only and yield increase in double folds i.e., from 20 to 40 Qntls/acre.



Distribution of inputs under FLD in Jaggasagar Village



Distribution of Seed Material (Var. PTS-10) under FLDs

FLD : Stages of Turmeric seed preparation





Sprouted Inter nodal cuttings

Seed treatment

Inter nodal cutting

FLD : Stages of Turmeric panting and crop



Seed Material ready for plantation

Sowing of Turmeric rhizome



Turmeric Plantation with Drip & Intercrop

Stages in production of Pro-tray grown single bud rhizome Turmeric planting material







Rhizomes are cut into small pieces with single bud (5 to 7 grams)



Covering the single bud rhizome with cocopeat (0.5% humic acid treated)



Sowing of sprouted single bud rhizome in protray (Cocopeat (100 g) + Pseudomonas fluorescens (1 g)



Covering the protrays with polythene sheet (seven days)



Removal of polythene sheets after sprouting. Regular watering of protrays kept under 50% shade



Spraying of humic acid (0.5%) after emergence of leaf



Rhizome sprouts are ready for transplanting (30-35 days)

Portray grown turmeric planting material



Sowing of Turmeric Buds by Hon'ble Minister



FLD :Ready for Harvest: Turmeric crop





DoH inspecting Farmer Field at Nizamabad District



Outcome of the FLDs

- \checkmark By introducing new varieties & technologies, the existing yield has been doubled
- ✓ Resulted in increase of Yield per acre and Net returns to the farmers

Details	Traditional method	New Method	Savings / additional income per acre
Seed Material	10 to 12 Qntls. per acre. Which cost Rs.30,000/- to 40,000/-	2 Qntls per acre. Which cost around Rs.6,000/-	Savings - Rs.24,000/-
Yield	20 Qntls. Per acre, returns Rs.60,000/-	40 Qntls. Per acre, returns Rs.1,20,000/-	Addl. Income- Rs.60,000/-
Drip	Farmer practice 0.8 x 0.6 M costing Rs.65,000/- per acre.	Recommended practice 1.2x0.6 M costing Rs.48,000/- per acres	Savings- Rs.17,000/-
Input costs	Rs.8,000/- per acre	Rs.5,000/- per acre	Savings - Rs.3,000/-
Post Harvest Management for improving the quality	traditional method of curing & Improper drying	Curing and drying by using tuermic boilers, polishing drums, drying platforms/ polysheets for quality rhizomes.	Savings- Rs.20,000/-@ Rs.500/- per qtl. @Rs.0.50 per kg.

Seed multiplication in Govt horticulture farms & COE Mulugu

 Govt Horticulture Farm, Malthummeda, Kamareddy District
Centre of Excellence Mulugu, Siddipet dist

TURMERIC VARIETIES – Malthumeda Farm



Turmeric @ CoE, Mulugu Var: CIM PITAMBAR DOP: 22.7.2017
- A new variety : CIM-Pitamber
 Source : CIMAP Lucknow
- Average yield : 50 tonnes of rhizomes/ ha (more than 10 per cent curcuminoids).
- ✓ One of the super yielding varieties with expected production of 60-65 tonnes of rhizomes/ha also contains more than 12.5 per cent curcuminoids.
- \checkmark The general duration of the crop is 180-190 days.
- ✓ tolerant to the common leaf botch disease, affecting the turmeric crop.
- ✓ variety was unveiled by Hon'ble Prime Minister
 Narendra Modi on September 26 2017.

CIM -PITAMBAR DT31.1.2018

Sri. Lakshmikanth Deshmukh, Sonkedh (V), Nanded district, Maharashtra State



Best practices: raised bed cultivation, adoption of high yielding varieties like Salem, Selection from PTS -10, short duration varieties also (7.5 months), Use of micro irrigation and fertigation, Mechanized planting and harvesting, mechanized primary processing like cooking and boiling, high Curcumin content (4.33%)ASTA
 Yields: Fresh yield 200 to 300 qtl /Ac, Dry yield 35 to 45 qtl/Ac.
 Weight : 2.8 kg per clump (at random).

He has been invited to our workshops in Telangana and best Practices have been discussed in farming community.

Crop turmeric (8 ac), Salem variety, Now crop is in 7th months age

Best practices: Drip, fertigation raised bed

Consultative meting on Turmeric at COE Jeedimetla on 5.6.2018





an Principal

an an

Dr D. Prasath, Prl. Scientist

VALUE CHAIN ANALYSIS OF TURMERIC IN TELANGANA STATE DOINT OF THE OF T

Directorate of Arecanut & Spices Development, Calicut Department of Horticulture, Telangana Centre for Good Governance, Hyderabad

Value Chain Analysis of Turmeric in Telangana state on 8th September 2017 at COE Jeedimetla



Value Chain Analysis of Turmeric in Telangana state on 8th September 2017 at COE Jeedimetia



Identification of gaps in cultivation, post harvest management and marketing of Turmeric in Telangana state

VCA assignment was conducted by IISR Calicut as per MIDH Schedule



Result of FLD :Success Story- TURMERIC (RAISED BED SYSTEM)





Name of the Farmer	B.Goverdha Yadav	
Village	Dhanora	
Mandal	Bheempur	
District	Adilabad	
Сгор	Turmeric, Var :R.soni,R.sonali,Salem	
Area in Ac.	0.35+0.40+3.25 =4.00Ac	
Best Practices	Drip & Raised Bed System	
Total Expenditure (4Ac)	Rs. 4,00,000	
Wet Yield (4AC.) (R.soni & R. sonali)	100 +150=250 qtl	
DryYield (3.25 AC.) Salem	81 qtl	
Sale price (per Qtl.)wet (R.soni &R. sonali for seed purpose)	Rs 3500 /qtl	
Sale price (per Qtl.)dry Salem	Rs 7200 /qtl	
Total value of the crop	Rs.8,75,000+ 5,83,200 = 14,58,200	
Net Income (4 Ac)	Rs. 10,58,200	

Improved Curcumin c	or	ntent in Turmeric grown in `	Telar	igana	
Results visualised : Aut	hc	orized Test Reports from CF	TRI, I	Mysore	
Phone : 0821-2514972		ई-मेल	ल : E-ma	ail:csc@cftri.res.in	
	1	तन्द्रीय खाद्य प्रौद्योगिक अनुसंधान संस्थान, मैसूर – 5	570 020	FI 1	
All the alls out	- 4	Trank Technological Desearch In	stitute	rttri	
Ser Colk-Cell		I Food Technological Research Ins	Stituit	yu	
SIR INUT		Mysore - 570 020, INDIA			
		TEST REPORT		CUSTOMER SERVICE CELL	
FS AQCL/ATSF 05/CSC 349 / 2017-18		49 / 2017-18		16.04.2018	
Name & Address of the Customer	Name & Address of the : Telangana State Horticulture Developmen				
Request Reference	:	Your letter Ref No.: TSHDCL/60/2018 dated : 17.02.2018		AND	
Name of the Product/Sample ^a	:	Turmeric Samples	Certificate Nos.		
Sample Receipt Date	:	17.02.2018		T- 0379 & T- 0380	
Samples Collected from Different Districts ^(a)	:	NZB – Nizamabad, NRL – Nirmal, ADB – Adi and Siddipet		Page 1 of 4 119	

SAMPLE NOT DRAWN BY US

Curcumin Test Reports from CFTRI, Mysore

SI. No.	Samples	Samples Curcumin Content, moisture free basis, %				
1	NZB – Turmeric Variety ACC 79	4.65				
2	NZB – Turmeric Variety ACC 48	4.91	Improved			
3	NZB – Turmeric Variety Rajendra Sonia	4.92	Curcumin content from			
4	NZB – Turmeric Variety Rajendra Sonali	4.73	1.5 to 2%			
5	NZB – Turmeric Variety Rajapuri	4.60	То			
6	NRL-1 : Turmeric Variety ACC 79	4.52	3.67 to 4.91			
7	NRL-2 : Turmeric Variety ACC 79	4.34				
8	ADB-1 : Turmeric Variety ACC 48	4.37	ASTA Spectrophotometric Method (18.0) Edn., 1997			
9	ADB-2 : Turmeric Variety ACC 48	4.80				
10	ADB – Turmeric Variety ACC 79	4.15				
11	ADB – Turmeric Variety Rajendra Sonia	4.49				
12	ADB – Turmeric Variety Rajendra Sonali	4.58				
13	ADB - Turmeric Variety PTS - 10	3.67				
14	ADB-Turmeric Variety Selam	5.02				
15	Turmeric Variety Pithambar	4.28				

^wInformation as given by the customer.

Please Note: The Results contained in this Test Report relate only to the sample tested. This Report is intended only for your guidance and not valid for legal purposes or for advertisement.

Oleoresin content Test Reports from CFTRI, Mysore

SI. No.	Samples	Samples Oleoresin Content in Turmeric Powder (%)				
1	NZB – Turmeric Variety ACC 79	13.98	I manufacture of			
2	NZB – Turmeric Variety ACC 48	12.62	lmproved oleoresin			
3	NZB – Turmeric Variety Rajendra Sonia	15.16	content from			
4	NZB – Turmeric Variety Rajendra Sonali	12.34	9 to 10% To			
5	NZB – Turmeric Variety Rajapuri	11.03	11.03 to 16.47			
6	NRL-1 : Turmeric Variety ACC 79	13.17				
7	NRL-2 : Turmeric Variety ACC 79	11.37	Solvent Extraction Acetone			
8	ADB-1 : Turmeric Variety ACC 48	15.36	used as Solvent (ISI Handbook of Analysis VII,			
9	ADB-2 : Turmeric Variety ACC 48	16.47	1982, P- 145 - 147)			
10	ADB – Turmeric Variety ACC 79	13.26				
11	ADB – Turmeric Variety Rajendra Sonia	15.69				
12	ADB – Turmeric Variety Rajendra Sonali	13.33				
13	ADB - Turmeric Variety PTS - 10	14.35				
14	ADB – Turmeric Variety Selam	12.85				
15	Turmeric Variety Pithambar	13.12				

^aInformation as given by the customer.

Please Note: The Results contained in this Test Report relate only to the sample tested. This Report is intended only for your guidance and not valid for legal purposes or for advertisement.



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Plant Lipids (P) Ltd. Kolenchery, Cochin - 682 311, India. **T** +91-484 276 0395 www.plantlipids.com

Visit to Plant Lipids (P) Limited, Kolenchery, Kerala, on 20.1.2018



Ranjit Ramachandran Chief Executive Officer M +91 974 599 9848 ranjit.ramachandran@plantlipids.com

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Sunny Paul Manager - Procurement # +91 828 995 7547 sunny.paul@plantlipids.com Plant Lipids (P) Ltd. Kolenchery, Cochin - 682 311, India. T +91-484 305 1500, 309 3730 www.plantlipids.com

Dt 20.1.2018

Visit to Plant Lipids (P) Limited, Kolenchery, Kerala, on 20.1.2018





Interaction of Director of Horticulture, Telangana state with Sri J. George Nechupodam, Managing Director, Plant Lipids (P) Ltd and Sri Ranjit Ramachandran, CEO Visit of Professional Team from Plant Lipids (P) Limited, Kolenchery, Kerala, for exploring purchase of export quality of Turmeric as follow up of Visit of Director of Horticulture to the export unit in Kerala





Visit of Plant Lipids team to Medipally(V) of Nirmal district, Maggiidi (V) of Armoor (M) of Nizamabad dist for verification of Curcumin content and Oleoresins content

Workshop on Production and Export Promotion of Turmeric in Telangana



With the coordination of Spice Board, organized "Workshop on Production and Export Promotion of Turmeric in Telangana" on 18.6.2018 where in requirement of Turmeric Ryoths and buyers & sellers were called and discussed in detail under the chairpersonship of Smt. K. Kavitha Hon'ble M.P.

Visit of Processing unit in CFTRI, Mysore



- The Government of Telangana swung into action by selecting a land to an extent of 40.23 acres in Padgal(V) of Vailpoor (M) and issued G.O.Rt.No:143, Dt: 18.03.2015 permitting District Collector, Nizamabad for outright purchase of the land and released an amount of Rs. 5.00 Crores for the purpose.
- Accordingly the District Collector, Nizamabad has purchased the land required and handed over to Department of Horticulture, Nizamabad.
- The acquired land has handed over to Deputy Director, Spice Board, Warangal for further development of the facilities.

Spice Park, in Padgal(V) of Valpoor (M) of Nizamabad District



Diversification from Traditional to Market driven Crops







Study Tour : Visit to Central Institute of Sub-tropical Horticulture (CISH), Lucknow







HF, Vikarabad, dt 2.3.2014

Government of Telangana Horticulture Farmers Training School Vikarabad, Ranga Reddy District

Extent	
Varieties	
No. of Plants	
Spacing	
Date of Plantation	

Mango Scion Block

1.50 Acres

Ambika, Arunika 240

5 X 5 mtr

08-12-2014



Mango Arunika HF, Vikarabad, dt 5.5.2018





ARUNIKA (2008): AMRAPALI X VANARAJ. Dwarf and compact canopy. Fruits are smooth, orange yellow with red blush.

Mango Dasheri-35 HF, Vikarabad, dt 5.5.2018



Mango Ambika HF, Vikarabad, dt 5.5.2018

Yield : 80 kg /plant by 10 years of planting under improved cultural practices.

Field Visit to Govt Horticulture farm ,Vikarabad, RR dist : With a proposal for renovation & rejuvenation



Interactions with farmers and officials during field visit to Govt Horticulture Farm,Vikarabad



Workshop on Meadow Orchard & Thai Guava cultivation at THTI, Red Hills Hyderabad



24-07-2015



ສສົນ

R&D Centre of Jain Irrigation at Udmalpet



A team of officials from Horticulture visited Sholapur region of Maharastra from 27-12-2015 to study cultivation practices in Apple ber, Custard apple and production of plant material. Visited the National Research Centre, Pomegranate to study the technologies adopted and to promote the crops in Telangana State in view of similar climatic conditions.

Study tour of onion and NMK-1 Custard apple in Sholapur region of Maharashtra



Visit to Jain Irrigation



Visit to Raipur



Guava: One Fruit to One Branch after six leaves for better size

Dragon Fruit Cultivation of Chawada Bag, Berla On raised bed with double lateral inline drip



View of Seethaphal var. Balanagar at J. S. Farms



Dragon Fruit in Crates- Chawada Bag, Berla

Visit to Raipur

27-09-2017

CoH along with JDH, Chattisgarh observing Sweet Orange Var.KatolGold Field of Sri R. N. Singh, Karukoya

Visited Rise n' Shine Biotech, Pune


Sweet Orange Workshop at Nalgonda



Visit to Date Palm Plantation of Sri. Agamaih in Narsingbatla(V), Nalgonda District



Visit to Field of Fig & Pomegranate, Raichur



Visit to Maharastra from 22nd to 29th October 2017 to study the suitability of new varieties in sweet orange to Telangana state, cultivation practices and varieties in custard apple, fig etc, processing units of custard apple and fig in research stations, farmers fields as well as KKV dapoli to see Konkan Lemon, Suvarna Mango, Dual Bucket elevator. The experiences were shared with the farmers of the Telangana in the workshop on Sweet Orange held at Nalgonda district on 05-11-2017.

Visit to FRS, Aurangabad, Maharastra



Dragan Fruits @ Bi Hai Yun Tian Farm, China



HORTICULTURE FARM MALTHUMEDA

25.10.2015



GUAVA SCION BLOCK



HF - Garimellapadu, Small Nursery - Badradri Kothagudem



HF - CSG Aswaraopet - Badradri Kothagudem



Visit to Kapil Farm, Rangareddy District



A. Thirupataiah Yadav, S/O Buchanna, Munnanur(V), Gopalpet(M), Wanaparthy (dt) Wanaparthy Area 2.20 Ac and yielded 21 MT



Workshop on Mango at Bheemadevarpally of Karimnagar



Department Vigilance Team at Siricilla District



Dragon Fruits – Aliabad(V), Sangareddy Dist.

Sri. M. Srinivas Rao & Others Aliabad(V), Kondapur(M), Sangareddy Extent :12 Ac., Spacing: 8X10 Feet, Yield: 2Kg/Plant



Dates and Dragon Fruits Field at Sangareddy



Guava Field at Sangareddy



CHINA Visit of Director of Horticulture & Sericulture 13th – 19th September, 2018

Visit to China



Vegetables in Low Cost Poly House

DoH&S Observing Silk Bobins

Silk Re-reeling



Inside View in the Unit

Shanshui Silk Co., Sozhou

Soyabean @ Bi Hai Yun Tian Farm





SANDALWOOD



NITI Ayog Meeting, Gol, Hyderabad

Smt Kavitha Umashankar Mishra, Field Visit, Raichur

GO issued

Visit to Nalgonda, Yadadri, Suryapet

Visit to IWST, Banglore

Collection of Samples

Workshop at HTI Implementation at CoE, Mulugu

MELIA DUBIA



Smt Kavitha Umashankar Mishra, Sandalwood grower, Village : Kavital, Tq: Manvi, Dist :Raichur, Mobile no : 9481548871 / 9448777045

- Sandalwood plantation done in the year 2011, at present the age is 8 years.
- She stated that stem cracking indicates beginning of heartwood formation.
- > The Income shall be in Rupees lakhs to the farmers.
- South Indian climate is most suitable for sandalwood cultivation.
- Approximately 20 kgs heartwood can be obtained from each tree at age above 15 years.
- According to her mango, Guava, Tamarind, Jamun and curry leaf are the best primary hosts.
- Spacing adopted 12' x 12' and host plant shall be planted at 6'x6'distance which can accommodate 300 plants per acre.
- As per Smt. Kavitha the heartwood yield for tree is 20 kgs x 300 trees per acre = 6000 kgs @ Rs.8000/- per Kg = Rs.4,80,00,000/- per acre.¹⁶⁴

Smt Kavitha Umashankar Mishra, Sandalwood grower, Village : Kavital, Tq: Manvi, Dist :Raichur, Mobile no : 9481548871 / 9448777045





Team of Officers of Horticulture Department, Scientists visited the field of Smt. Kavitha Umashankar Mishra



Visit to Sri. Ch.Vidya Sagar Reddy Sandalwood Garden, Tallabavigudem Village, Kangal Mandal, Nalgonda District.

Visit to Sri. Rami Reddy, Mustipatla Village, Mothkur Mandal, Yadadri District.



Visit to Sri. Raghava Rao Sandalwood Garden, Kodada Village & Mandal, Suryapet District.



4 days classroom training on Agroforestry at Indian Wood Science & Technology, Malleswaram, Bengaluru.

> DEPARTMENT OF HEARGANA DEPARTMENT OF HORICULTURE TRAINING PROGRAMME ON "AGRO FORESTRY BASED TREE CULTIVATION" From 8th to 12th October 2018 Venue: IWST, Bangalore.





Core sample extraction from sandal wood by using Incremental borer : dt 8.10.2018





Institute Orientation Nursery, Laboratories & Museum : 1st day dt 8.10.2018 : Dr Chandrasekhar explaining heart wood formation





Demonstration steam Extraction of Sandal wood oil by Dr Soudararajan

FARMERS' TRAININGS AT THTI ON SANDALWOOD



SANDAL WOOD NURSERY AT COE MULUGU



BAMBOO MISSION





Visit to China - Road Side Bamboo Plantation



Training Programme on Agro Forestry Based Tree Cultivation, IWST, Banglore



GOVERNMENT OF TELANGANA DEPARTMENT OF HORTICULTURE

TRAINING PROGRAMME ON "AGRO FORESTRY BASED TREE CULTIVATION" From 8th to 12th October 2018 Venue: IWST, Bangalore.

Bamboo – Routed Plantlets





In vitro propagation of *Dendrocalamus stocksii :* 1. Shoot initiation ; 2,3,4 &5. Shoot multiplication 6. Simultaneously Shoot multiplication & Rooting 7. Rooted plantlets

National Level Workshop on Bamboo


National Level Workshop on Bamboo

ERALA

AMB00

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-bip KERALA BUREAU OF INDUSTRIAL PROMOTION

National Level Workshop on Bamboo





Visit to Bamboo Plantation & Bamboo Cottage Industries in Musli Village, Pune

Meeting with Sri Santosh Gondhalekar, Director Primove Engr. Pvt. Pune



Visit to Bamboo Plantation & Bamboo Cottage Industries in Musli Village, Pune



Information Technology in Horticulture Department



Information Technology in Horticulture Department



Workshop on Chaman Project : CHAMAN (Coordinated Horticulture Assessment using Management using geoiNformatics)



➤Under the Mission of Integrated Horticulture Development (MIDH), the Department of Agriculture, Cooperation and Farmers' Welfare has initiated the project CHAMAN (Coordinated Horticulture Assessment and Management using geoiNfromatics) for assessment and development of Horticulture through Remote Sensing & geo-informatics.

The project is being implemented by Mahalanobis National Crop Forecast Centre (MNCFC) in collaboration with ISRO Centres (SAC & NRSC) and 12 state horticulture departments, NHRDF, IMD, ICAR Centre and State Remote Sensing Centres.
Departmental officials have been trained on this projects at ISRO.



Workshop on HORTINET (Mango & Okra tractability system) of APEDA at THTI, Red Hills, Hyderabad on 12.8.2015

12-08-2015

Hortinet is an integrated traceability syst em developed by APEDA for providing Internet based electronic services



Capacity building of departmental officers



to the stakeholders for facilitating farm registration, testing and certification of Grape, Pomegranate and Vegetables for export from India to the European Union in compliance with standards.



RE-ORIENTATION TRAINING PROGRAMME ON GEO-TAGGING OF RKVY ASSETS TO THE OFFIGERS OF AGRICULTURE AND ALLIED SECTORS. On-19-05-2017

19-05-2017

RE-ORIENTATION TRAINING PROGRAMME ON GEO-TAGGING OF RKVY ASSETS TO THE OFFICERS OF AGRICULTURE AND ALLIED SECTORS.

Re-Orientation Training Programme on Geo-Training of RKVY Assets



Geo-Training of RKVY Assets



Commissioner of Horticulture, Telangana state addressing the trainees of Horticulture Dept,on Geo-tagging of RKVY assets on 25.5.2017 at THTI, Red Hills, Hyderabad

Training to Cluster level Horticulture & sericulture Officers and Dist Horticulture & Sericulture Officers of Telangana State on Geotagging of RKVY assets on 25.5.2017 at THTI, Red Hills, Hyderabad

Farmer Based Initiatives

- > Registration of farmers through Mee-Seva Centers (Govt. Kiosks made available all over the State).
- > Bio Metric and Aadhar seeding made mandatory.
- > Priority to farmers in selection of MI Companies (28 Nos) of their choice.
- > Online tracking of application status through Farmer Portal.
- > 5 SMS alerts to farmers at all stages i.e.,
 - ✓ Immediately after registration,
 - ✓ Preliminary Inspection,
 - ✓ About payment of Beneficiary Contribution,
 - ✓ Administrative sanction details & Trench cut,
 - ✓ Release of final payment.
- > Trainings to the farmers and after sales service.
- > Geo Fencing of each field by taking GPS coordinates in all corners of the field.





SKOCH SMART GOVERNANCE AWARD 2017



SKOCH award is received for implementation of GIS in TSMIP

Trainings on HORTNET

July, 2014





Various Trainings conducted to update the Officers

HORTNET

one stop, multitenant integrated online work flow automation

Online Support

- 1) Online Registration of application
- 2) Counseling by Horticulture Officer (HO)
- 3) Preliminary ADH Approval
- 4) Scheme Finalization by HO
- 5) Estimate Generation by HO
- 6) DHM Approval taken by Asst. Director of Horticulture (ADH) (Physical)
- 7) Verification and work stages by HOs
- 8) Financial Proceeding (Generated by ADH)
- 9) District Horticulture Mission (DHM) Approval taken by ADH (Financial)
- 10) Verification & approval at Head Office
- 11) Release subsidy online to Beneficiaries Account using DBT



http://hortnet.gov.in

KEY FEATURE:

- 1) Online filing at HORTNET Portal by Farmer directly (hortnet.gov.in)
- 2) Registration & Scheme filing from anywhere across the globe
- 3) Personal counseling is possible and reasons for rejection, if any, is recorded
- 4) Farmer can have information on entire departmental schemes
- 5) Information is instantaneous accessible to all level officers (District/ State/ NHM) of each applicant
- 6) Total transparency is possible.
- 7) Status of the application can be known by Farmer from any where
- 8) Uniform hassle-free online transfer of subsidy to Farmer's Bank Account through Electronic Fund Transfer (EFT).
- 9) Reports are available online
- 10) Enables dynamic generation of Reports
- 11) Eliminates duplicacy
- 12) HORTNET Portal is user friendly i.e. any person can see Stagewise Report without User-Id & Password.



Project Based Training HORTNET

3rd Feb to 6th Feb, 2018 @ NIC, Hyderabad











Meeting with ICICI Bank, NIC & Dept Officials

On 27th April, 2018 @ ICICI Bank Tower, Gachibowli, Hyderabad



HORTICULTURE, NIC & ICICI BANK OFFICIALS

Meeting to search alternate way to perform DBT in HORTNET better & secured manner

NATIONAL WORKSHOP ON HORTNET, PUNE



Addl. Secretary, Gol addressed to Participants

JS(MIDH) addressed to Participants



Telangana has suggested to replace eSign Server and also showed alternate way to do DBT

Shri S. K. Kaul, Asst. Commissioner, MIDH also present @ Workshop

HORTNET TRAINING TO NEW RECRUITED Hos AT NIC, HYDERABAD



WEB APPLICATION SECURITY REPORT GENERATED BY NIC FOR HORTICULTURE WEBSITES



Web Application Report

This report includes important security information about your web application.

Security Report

This report was created by IBM Security AppScan Standard 9.0.3, Rules: 1957 Scan started: 7/10/2017 10:40:32 AM

HORTICULTURE WEBSITES CLEARED THE SECURITY AUDIT AND ARE SAFE FOR HOSTING



Farmer's Feedback

Online Payment made through HORTNET Portal





My Name is Shankar Naik, S/o Valiya Naik. Kadirapad Village Pangal Mandal, Wanaparthy District I have opted for Area Expansion – Mango for 1 Ha. Previously Subsidy was released through cheque but now the Subsidy has been released directly through online transfer to my Account. This process of DBT is very much beneficial to Farming Community.





My Name is Ravinder Reddy, S/o Hanmanth Reddy. Nachanalli Village Wanaparthyl Mandal, Wanaparthy District I have opted for Area Expansion – Mango for 1 Ha. I got 40% Subsidy directly to my Account. I would like to Thank Horticulture Department. I am expecting this type of work to be encouraged here after.

Horticulture Department implemented DBT since 2013-14, Subsidy directly deposited to Farmers Accounts directly & securely.

Awards to HORTNET











Technology Sabha Award- 2018



Financial Inclusion & Payment Systems (FIPS) - Awards 2014 HORTNET Won Direct Benefit Transfer (DBT) Initiative Award 2014



