

भातेताअनुसं समाचार



IIOPR

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News



ICAR- Indian Institute of Oil Palm Research, Pedavegi - 534 450, Andhra Pradesh; Web site: <http://dopr.gov.in>

SECRETARY, DARE & DIRECTOR GENERAL, ICAR VISITS ICAR-IIOPR REGIONAL CENTRE, PALODE

Dr. Trilochan Mohapatra visited ICAR-IIOPR Regional Centre at Palode, Kerala on 20th October, 2016. He visited field gene bank and laboratories and interacted with the scientists and staff members. Dr. Mohapatra suggested making use of conserved germ plasm to develop climate resilient varieties suitable for different agroclimatic conditions and to develop strategies for doubling farmers' income.



From Director's Desk

Marching towards doubling farmers' income



Palm oil is immensely versatile, and finds use not only in foods, but also in biodiesel, lubricants and consumer products such as soaps, detergents and cosmetics. India is the only country which grows this crop under irrigated conditions because, this is the only option to lessen the gap between vegetable oil requirement and production in India. The potential of this crop has not been fully exploited in terms of FFB production as most of the farmers are new to this crop and also it requires judicious management of resources like water and nutrients. Oil palm has got the genetic potential of up to 18 tonnes of crude palm oil per hectare per year. Looking at its potentiality, Government of India is very much interested in expanding area under oil palm in order to fill the gap between consumption and domestic production of edible oil which causes a great loss to the exchequer. In case of oil palm there are well structured market facilities mainly because of its perishable nature and also involvement of processing procedures. But, unlike in other countries viz., Malaysia and Indonesia where oil palm is grown in very large areas, it is grown as small holders' crop in India. Therefore, the strategies for enhancing the income of farmers in India are definitely different from that of other countries. During the last 8 years, the area under oil palm has been increased three fold over its area before introducing Oil palm Development Programme (OPDP) and major part is contributed by Andhra Pradesh, Odisha, Mizoram, Telangana, Karnataka and Telangana. The productivity levels of Andhra Pradesh, Kerala, Telangana and Goa are encouraging whereas, rest of the states are showing either stagnant yield levels or lowered yield levels.

Oil palm being a hardy crop, can adapt to most of the adverse conditions. Being humid tropical in nature it requires higher quantities of water, temperature and humidity. The factors which influence productivity are almost similar in all the states and the site specific problems may be there with respect to water availability, pollinator survival, harvesting, soil pH, low/high temperature, poor water quality etc. The planting material used in different parts of the country consists of both indigenous and imported teneras and there is no much variation in yields of these two sources. If proper management is given under suitable climatic regime, this crop could do wonders with very good yields under irrigated conditions. Water management should be practiced judiciously by resorting to micromethods of irrigation which could save nearly 50 per cent of water. Fertilizers need to be applied through irrigation i.e., Fertigation method to reduce the investment on fertilizers and also to have reduced doses with more efficiency. Growing highly economical inter crops like cocoa, bush pepper, red ginger, *Heliconia* etc improves the net profit from oil palm plantations in a big way.

Research needs to be strengthened for enhancing the farmers' income under oil palm by focusing on climate resilient technologies, resource management techniques, farming system research and farm mechanization. In addition, oil palm farmers need to be educated about the importance of diversification, inclusion of other components of farming like cattle, goats and poultry to enhance their income levels. Farmers also have to be made aware of different options of waste utilization for productive purposes through value addition. Finally policy support has to be provided by ensuring minimum support price and also crop insurance to overcome adverse climatic/market conditions.

R.K. Mathur
R.K. Mathur

MOU SIGNED

An MOU has been signed between ICAR-IIOPR and Dr YSR Horticultural University, Venkataramanna Gudem, West Godavari District of Andhra Pradesh on 19.12.2016 with respect to All India Co-ordinated Research Project, Revolving Fund or any other such scheme sanctioned by the Council.



A collaborative programme on "Long term conservation of oil palm germplasm" has been approved between ICAR-IIOPR, Pedavegi and ICAR-NBPGR, New Delhi on 14.2.2017.



FARMERS' CORNER

1. Application of more organics help in retaining more water in the basins. It is suggested to apply FYM/vermi compost/green manure @ 50 to 100 kg per palm to help in better water holding in the palm basins.

2. Oil palm is blessed with lot of available waste in the plantation in the form of pruned fronds, male inflorescences and empty fruit bunches. Mulching with this organic waste helps in retaining more water, control of weeds, managing temperature in root zone in addition to adding organic material to the soil. And biomass of any other crop like groundnut, banana, maize, black gram, green gram etc can also be utilized for this purpose.

3. Clogging of filters is a very common problem especially during summer season. Extra care should be taken to check the filters and keep them clean to ensure proper water supply.

Research update - Achievements/ Methodologies / Innovative Technologies / Genetic stock

Nutrient management through Fertigation (B N Rao)

Oil palm requires huge quantities of nutrients for yield and maintenance. Generally fertilizers are applied through soil application in most of the locations, However, fertigation is expected to reduce the fertilizer demand because of efficient utilization. The results of experiments indicated that Fertigation with $N:P_2O_5:K_2O$ @ 600 : 300 : 600 g/palm/year at monthly intervals coupled with irrigation based on Potential Evapotranspiration (PET) resulted in higher FFB yield (>23 t/ha) in adult oil palm over recommended nutrient application through soil. Cost of expenditure on fertilizer alone could be reduced to 52 percent (Rs. 4969/- per hectare) by practicing fertigation at monthly intervals in addition to reduced application cost, minimum operator hazard, no soil compaction and reduced weeding cost.



POME as a potting mixture (Ramachandrudu K)

Significant improvement in growth and vigour of oil palm seedlings had been observed with 20% palm oil mill effluent (POME) sludge in potting mixture when compared with control. The results were found on par with chemical fertilizers. POME sludge is a palm oil mill waste which is available in huge quantity in mill premises. So, decomposed palm oil mill effluent sludge @20% can be mixed with potting soil used for raising oil palm nursery in India.

Oil palm trunk – A potential source for ethanol and lactic acid production (K Manorama)

The economic life span of oil palm is 25 to 30 years. At the time of replanting, Oil palm trunk sap could be used as a substrate for ethanol and lactic acid production through microbial conversion.



A total of 150-180 litres of sap could be extracted from a single palm. More than 50 per cent of sugars in trunk sap could be converted into ethanol within a period of 48 hours through anaerobic fermentation using *S. cereviceae* @ 10% v/v concentration at 30° C. *Lactococcus lactis* was found more effective @10% v/v for lactic acid production, under anaerobic conditions for a period of 72 hours. The dry biomass of oil palm plantation at replanting under irrigated condition is estimated at 57 - 59 t ha⁻¹. Out of this, trunk contributes about 40 - 45 t ha⁻¹.

Platform to harvest oil palm bunches (MV Prasad)

Trials conducted with 15 ft arm platform, attached to 3 point linkage of tractor for harvesting of oil palm bunches from tall palms was found satisfactory. Platform was used for harvesting oil palm bunches from tall palms by using aluminium pole attached with sickle to reach a height of 35 ft.



Germ plasm collected from Little Andaman- characterized for bunch quality (P Murugesan)

Eleven distinct germplasm collected from Little Andaman (Nigerian materials - high variability) evaluated for bunch

quality traits- one genetic stock with mantled fruit form. IC Numbers for 11 accession were received from NBPGR (IC-0621791 TO IC-0621801). Results revealed that maximum standard deviation was observed for total no. of fruits (767.07) followed by total no. of spikes (36.76), % of shell/fruit (34.51), No. of 500g fruits (33.67) and least for peduncle weight (0.16) and single kernel weight (0.95). Coefficient of variation (CV) was found maximum for % of shell/fruit (60.24) followed by total no. of fruits (55.7), total weight of fruits (49.83) and lowest for % oil/dry mesocarp (3.86). As high as 38.86 % Oil to Bunch ratio was recorded in one genetic stock.

Effect of Osmotic stress (PEG) on pollen tube growth (Sunil Kumar)

The media with BA 0.01 g + Agar 1.5 + Sugar 11 g + PEG (different concentrations) was tried and found effective in studying the effect of osmotic stress on pollen tube growth. The genotypes expressed varying response under *in vitro* stress studies. Pollen germination and pollen tube length were decreased with increased PEG concentration. Pollen from PN-66 (Pisifera) took less time (within 1 hr) for germination in stress media with a tube length growth of 59 to 755 μ m, indicating its vigour. Whereas PN-15 is the only genotype expressing higher osmotic tolerance, with pollen tube length of 1196 μ m (after 4 h) at 40% PEG.

Effect of Osmotic stress (PEG) on pollen grain size and shape (Sunil Kumar)

The oil palm pollen grains from different genotypes were directly exposed to a wide range of osmotic stress using different concentrations of PEG-6000 in cavity slides. The ratio of pollen parameters was used to determine the mechanism of osmotic adjustment (OA) in the pollen grains of different genotypes.

Out of the genotypes analysed, pollen from GB 25 (PN 335), B/A H" 1 (0.9), indicating more Intrinsic Osmotic Adjustment and thereby its drought tolerance (Sunil Kumar)

New trial planted (P Naveen Kumar)

A new research trial on development of dwarf dura has been planted at a spacing of 8m x 8m x 8m with five dwarf Dura crosses with targeted height increment of <30 cm per year and productivity of 6-7 t of oil per ha per year.

Transfer of Technology

Training Programmes organised to officers

At ICAR-IOPR, Pedavegi, 6 training programmes were organized to 139 officers belong to Mizoram, Arunachal Pradesh, Chhattisgarh, Tamil Nadu, Meghalaya and Andhra Pradesh. At IOPR-RC, Palode a one day training programme has been organized for officers of Thirunelveli district, Tamil Nadu on 12.1.2017.



Training Programmes to farmers

Organized 9 farmers training programmes to 333 farmers of Andhra Pradesh and Orissa at IOPR, Pedavegi.



Five one day on-farm farmers training programmes were conducted on "Oil Palm Cultivation" to 336 farmers of Andhra Pradesh and Mizoram.

Mera Gao Mera Gaurav Programme

Demonstration of pest management of leaf web worm and bag worm was taken



up in 15 ha oil palm plantations in Challchintalapudi village in A. P. under MGMG programme in cluster approach.

A skill demonstration and technical guidance programme on organic farming or natural farming was organized to the farmers regarding in kuchimpudi village (Pedavegi mandal) on 4.03.2017.

Collected 50 soil and leaf samples each from the oil palm plantations of Mera Gao Mera Gaurav villages in Denduluru Mandal



in West Godavari district in A. P. and distributed soil health cards to the farmers on the eve of ICAR-IOPR foundation day celebrations on February 20, 2017.



Farmers' Field School

One Farmers' field school was organized by ICAR-IOPR RC, Palode on "Improved pepper cultivation" to the

farmers of Uzhamalackal village under MGMG programme on 13.1.2017

Model Training Course

Organised Model Training Course on "Application of ICT tools for dissemination of oil palm technology for increasing area and production" to 14 officers, during December 15-22, 2016 (Coordinated by Mary Rani K L & Prasad M V).

Disseminated Technology through SMS / Voice messages

Disseminated 104 oil palm technologies through mobile services as voice calls to 6,33,933 mobile data base of oil palm stakeholders of 13 oil palm growing states in 4 vernacular languages.

Participation in Exhibition

ICAR-IOPR participated in

- Exhibition organised on the occasion of "International Agronomy congress" during 22-28 November, 2016 at IARI, New Delhi



- Exhibition organised on the occasion of Udyan Mela at Dr. Y. S. R Horticultural University, Venkataramannagudem, West Godavari District, Andhra Pradesh during 17-18 December 2016
- Exhibition on the occasion of Tuber food fest during 24-25 November, 2016 at Thiruvananthapuram, Kerala.
- Exhibition on the occasion of National Conference on Tropical Tuber Crops for the sustenance and welfare of tribal communities during 20-22 October, 2016 at CTCRI Sreekaryam, Thiruvananthapuram, Kerala.
- Exhibition on the occasion of International work shop on agro processing and value addition (VAIGA-2016), Thiruvananthapuram, Kerala during 1-5 December, 2016

Demonstration trials

Demonstration trials on chemical pesticides (viz., monocrothos, deltamethrin) and pesticide application methods (viz., stem injection, root feeding and aerial spraying) for the management of important insect pests of oil palm namely, Bag worm, *Metisa plana*, and leaf webworm, *Acria meyricki* were conducted in Challachintal-pudi village, Dwaraka Tirumula Mandal, West Godavari (Dt), Andhra Pradesh. (Prasad M V, Saravanan L, Kalidas P, Suresh K, Behera S K and Preethi P)



Diagnostic visits/visits

Mathur R K, Ravichandran G and Manorama K visited Morampudi and Rajamahendravaram Oil Palm Seed Gardens in East Godavari District of AP on 3rd March, 2017 and suggested improvement measures for both the gardens

Prasad M V and Naveen Kumar P made a diagnostic visit to farmers' fields in Kolasib district of Mizoram during 19-21st October, 2016 and demonstrated the crown surgery for the control of bud rot disease.

Manorama K undertook a diagnostic field visit to oil palm garden of Mr Chiranjeevi in Padamati Kandriga village in Nellore District of AP and suggested nutrient management strategies.

Manorama K and Ramachandrudu K made a diagnostic field visit to Mr Pandu Ranga Rao in Borrapalem village, West Godavari, AP on 28.12.2016 and suggested pest control measures to *Ganoderma* infected palms.

Sunil Kumar visited Njaval Estate, Thottilpalem, Kozhikode district of Kerala on 27.10.16 to see the unique oil palm plantation which demonstrated that oil palm comes up well in hilly area of 2000 ft

elevation above sea level. Suggested measures to reduce wind damage of leaves by establishment of wind breaks.

Sunil Kumar K visited OPDP nursery and nearby oil palm plantations at Mananthavady, Wynad District on 28.10.16 and guided the nursery in charge for improving the maintenance of nursery through regular watering, fertilizer application and to do strict culling.

Sunil Kumar made a diagnostic visit to OPIL Yeroor estate, Kollam District of Kerala on 25.1.2017 where incidence of bud rot and orange spotting were reported and control measures suggested for the same

A group of scientists (Manorama K, Ramachandrudu K, Naveen Kumar P, Saravanan L and Praveena Deepthi K) made visits to oil palm gardens in MGMG villages in T.Narsapur Mndal, West Godavari district, Andhra Pradesh and suggested the remedial measures for the problems identified during October 2016, January and March 2017. They also demonstrated recycling of garden biomass, collection of soil and leaf samples and plant protection in oil palm gardens.



Maheswarappa H P, Project Co-ordinator (Palms) visited Agriculture and Horticulture Research Station, Bavikere on 22.3.2017 and reviewed the progress made in developing land for initiating new trials and nursery raised in the centre for planting.



Publications

Research articles

Behera S K, Suresh K, Rao B N, Ramachandrudu K, Manorama K and Harinarayana P. (2017). Soil fertility and yield limiting nutrients in oil palm plantations of north-eastern state Mizoram of India. *Journal of Plant Nutrition* (In press). DOI: 10.1080/01904167.2016.1264592.

Kalyana Babu B, Mathur RK, Kumar PN, Ramajayam D, Ravichandran G, Venu MVB. (2017) Development, identification and validation of CAPS marker for SHELL trait which governs dura, pisifera and tenera fruit forms in oil palm (*Elaeis guineensis* Jacq.). *PLoS ONE* 12 (2): e0171933. doi:10.1371/journal.pone.0171933

Madhavilatha P, Kalpana M and Manorama K. (2016). Influence of plantation age on production performance of oil palm in Andhra Pradesh. *Journal of Research ANGRAU*. 44 (3&4) 99-103

Ravichandran G, Murugesan P, Naveen Kumar P, Mathur R K and Ramajayam D. (2016), Effect of chemicals on disintegration of the operculum in oil palm (*Elaeis guineensis*) seeds for early germination, *Seed Science & Technology* 44, 475-485. <http://doi.org/10.15258/sst.2016.44.3.16>

Manorama K, Mathur RK, Suresh K, Behera SK, Rao BN and Ramachandrudu K. 2016. Influence of weather parameters on fresh fruit bunch yield of oil palm (*Elaeis guineensis* Jacq.). Extended Summaries. Vol 3. 4th International Agronomy Congress. Nov. 22-26, 2016.

Kalidas P, Behera S K, Saravanan L, Deepthi K P, Suresh K, Rao B N, Prasad M V and Manorama K. (2017) Pests, diseases, nutrient deficiencies and disorders of oil palm. Technical Bulletin. ICAR- Indian Institute of Oil Palm Research, Pedavegi, West Godavari, Andhra Pradesh, India. pp. 160.

Narsimha Rao B, Suresh K, Behera S K, Ramachandrudu K and Manorama K (2016) Irrigation management in Oil Palm. ICAR-IOPR, Pedavegi, Pp1-20.

Narsimha Rao B, Suresh K, Behera S K, Ramachandrudu K and Manorama K (2017) Nutrient Management in Oil Palm. ICAR-IOPR, Pedavegi, Pp 1-28.

Popular Articles

Murugesan P, Sunil Kumar K and Mathur R K (2016) International collaboration- Enriching oil palm genetic resources in *Indian Horticulture* (July-Aug) 33-35.

Murugesan P (2017) Sustainable development of oil palm and enhancing the farmers income. www.kisangyan.in. pp25-27.

Narsimha Rao B, Chandra Surya Rao M, Manorama K and Naresh S (2017) Oil Palm Saagulo Neeti Yajamanyam - Rytulaku Soochanalu (Water management in oil palm- suggestions to farmers). *Annadata*-monthly Telugu agricultural news magazine 49(3):26-28.

Prasad MV, Ramachandrudu K and Vishala S (2017) Oil Palm Sagu – Mokkalu natuta mariyu modati moodu samvatsaralalo antara pantala pempakam-Telugu (Oil Palm cultivation-planting and cultivation of intercrops during initial three years oil palm plantations-English). *Vyavasayam* - monthly Telugu agricultural news magazine of Prof. Jayasankar Telangana State Agricultural University, February, 2017, p 26-29.

Prasad MV, Rao B N and Vishala S (2017) Oil Palm lo Sagu neeti yajamanyam – Telugu (Irrigation management in Oil Palm - English). *Vyavasayam* - monthly Telugu agricultural news magazine of Prof. Jayasankar Telangana State Agricultural University, March, 2017, p 17-18.

Sunil Kumar K, Murugesan P and Rahana S N (2016) Harvesting oil palm at right time fetched more return. *Indian Horticulture*, May June 3-9.

Book Chapters

Behera S K, Rao B N and Suresh K (2017) Soil health management in oil palm. In Maheswarappa H P, Chowdappa P (Eds.) *Soil Health Management in Plantation Crops*. pp. 115-144. Today & Tomorrow's Publishers, New Delhi, India.

Mathur R K, Naveen Kumar P and Kalyan Babu B (2016). Genetic resources and genomics of oil palm, In Chowdappa, P., Muralidharan, K., Rajesh, M. K. and Ramesh, S. V. (eds). Abstracts – PLACROSYM 22, 22nd Biennial Symposium on Plantation Crops 'Leveraging Innovation system in Plantation

Sector through Value Addition' held on December 15-17, 2016 at ICAR – CPCRI, Kasargod, Kerala, pp19-34.

Mathur R K, Sunilkumar K and Murugesan P (2016) Prospects of interspecific hybridization in oil palm. In Distant hybridization in horticultural crops. M R Dinesh and M Sankaran (eds) published by Astral International Pvt.Ltd., New Delhi. pp103-110

Murugesan P and Krishnakumar V (2016) Organic farming in oil palm. In Organic farming in plantation crops pp 250-281 Daya Publishing House A Division of Astral International Pvt. Ltd

Sunilkumar K, Mathur R K and Murugesan P (2016) Yield stability of second cycle oil palm families from Thodupuzha. In Chowdappa P, Muralidharan K, Rajesh M K and Ramesh S V. (Eds). Abstracts – PLACROSYM 22, 22nd Biennial Symposium on Plantation Crops 'Leveraging Innovation system in Plantation Sector through Value Addition' held on December 15-17, 2016 at ICAR – CPCRI, Kasargod, Kerala, pp19-34.

Sunilkumar K, Murugesan P, Rahana S N and Mathur R K (2016) Introgression of *oleifera* genes for improvement of cultivated oil palm (*E. guineensis*). in Pritam Kalia, Singh SK, Manish Srivastav, Sharma RR, Jai Prakash, Raju DVS and Goswami A K (Eds) Abstracts, 7th Indian Horticulture Congress on Doubling farmers income through horticulture, HSI, held in New Delhi, Poster No.10 pp 369-370.

Sunilkumar K, Mathur R K, Kalyana Babu B and Murugesan P (2017). Oil palm. In *Biotechnology of plantation crops*. Daya Publishing house. ISBN: 978-93-5124-836-1 Pp241-260

Suresh K, Behera S K, Manorama K, Rao, B N (2017). Oil palm. In Hebbar K B, Naresh Kumar S, Chowdappa P. (Eds.) *Impact of Climate Change on Plantation Crops*. pp. 101-122. Astral International Pvt. Ltd., New Delhi, India.

Compendium

Mary Rani K L, and Prasad M V (2016) Compendium of Lectures of Model Training Course on "Application of ICT Tools For Dissemination of Oil Palm Technology and Increasing Area And Production". ICAR-

Indian Institute of Oil Palm Research. Pedavegi. P-123.

Pamphlets

Prasad M V and Mary Rani K L (2016) Pamphlet on "Oil Palm mobile apps - Rytulu mariyu kshetra adhikarulala kosam - Telugu (Oil Palm Mobile apps for farmers and field level extension functionaries-English). ICAR-Indian Institute of Oil Palm Research, Pedavegi. P-1.

Prasad M V and Mary Rani K L (2016) Pamphlet on "Oil Palm Mobile apps for farmers and field level extension functionaries. ICAR-Indian Institute of Oil Palm Research, Pedavegi. P-1.

E-Publications (With C-DAC)

Mary Rani K L and Prasad M V (2016) Oil Palm Cultivation Telugu.

Mary Rani K L, Prasad M V and Sanjib Kumar Behera. (2016). Oil Palm Nutrients Telugu.

Mary Rani K L, Prasad M V, Kalidas P and Saravanan L (2016). Oil Palm Pests Telugu.

Mary Rani K L, Prasad M V and Praveena Deepthi K (2016) Oil Palm Diseases Telugu.

Prasad M V and Mary Rani K L (2016) Oil Palm Cultivation Hindi.

Prasad M V, Mary Rani K L and Sanjib Kumar Behera (2016) Oil Palm Nutrients Hindi.

Prasad M V, Mary Rani K L, Kalidas P and Saravanan L (2016) Oil Palm Pests Hindi.

Prasad M V, Mary Rani K L and Praveena Deepthi K (2016) Oil Palm Diseases Hindi.

Extension Bulletins

Prasad M V, Kalidas P, Narsimha Rao B, Suresh K, Ramachandrudu K, Praveena Deepthi K, Mary Rani K L, Saravanan L and Vishala S (2017) Oil Palm Sagu-Telugu (Oil Palm cultivation-English).

Prasad M V, Kalidas P, Narsimha Rao B, Suresh K, Ramachandrudu K, Praveena Deepthi K, Mary Rani K L, Saravanan L, Ravichandran G, Ramajayam D, Preethi P and Vishala S (2017) Ennai panai sagubadi - Tamil (Oil Palm cultivation-English). ICAR-Indian Institute of Oil Palm Research, Pedavegi. P-68.

Memberships in committees / expert teams

Mathur R K attended Standing Committee meeting of NMOOP at DAC, Krishi Bhawan, Government of India

Murugesan P and Sunil Kumar K – Members of Expert Committee, OPIL- for studying the Feasibility of intercropping in oil palm plantations

Murugesan P - Expert Committee Member (OPIL- Kerala Govt. Constituted committee for minimum wages for plantation workers)

Sunil Kumar - Working committee member of Indian society of plantation crops (ISPC) for the selection of research papers for oral and poster presentations in the session Genomics and genetic resources for PLACROSYM 22 on 01.11.16

Murugesan P - Member, Science council of Indian Council of Food and Agriculture (F.No.ICFA/SC/2016, dated, the 16th, October,2016) –Nominated member (Nominated by Executive Director ICFA)

Manorama K has been nominated by ASRB as External member for CTRI Assessment Committee for considering merit promotion cases of Technical Personnel w.e.f 15.12.2016 to 14.12.2017.

Rao B N - Member-IMC :ICAR-Central Island Agricultural Research Institute, Port Blair attended the meeting on 18th Oct., 2016.

Training courses attended

Kalyana Babu Attended a 21 days training programme on "Computational Approaches for Next generation Sequencing (NGS) Data Analysis in Agriculture", at IASRI, New Delhi from 08th to 28th Feb, 2017.

Preethi P attended winter School training programme on "Recent advances in post harvest management of Fruit, Vegetables and Flowers for minimization of Quantitative and Qualitative loss" at ICAR- IIHR, Bengaluru during 2nd – 22nd, November, 2016

Annual Training Programmes

Prasad M V coordinated the training program under Annual Training Programme



on "Motivation and Interpersonal relationships" during February 7-8, 2017 to 14 staff of IOPR, Pedavegi.

Ravichandran G coordinated the training programme under Annual Training Programme on "Motivation and Interpersonal relationships" during March 27-28, 2017 to the staff of IOPR-RC, Palode, Kerala.



Mary Rani K L coordinated an ATP on "MS Office and Data Entry" to technical staff during November 02-09, 2016



Meetings attended and lectures delivered / papers presented

Mathur R K participated in the Brainstorming session on "Climate Smart Technologies for enhancing Vegetable Oil Production" held at ICAR-IIOR, Hyderabad during 18-20th January, 2017.

Mathur R K visited Biovarsity International, New Delhi during 19-20th February, 2017.

Manorama K participated in two Oil palm awareness programmes of Department of Horticulture in Nellore District, conducted at Padamati Kandriga village of Sullurpet Mandal on 27.1.2017 and at Theerthampadu village of Venkatagiri Mandal on 28.1.2017 and delivered lectures.

Murugesan P participated and presented an invited lecture in Workshop conducted by NABARD at Ooty, TN on Workshop on Plantation crops -Issues and Strategies for enhancing credit flow and doubling of farmer's Income on 14th Dec, 2016

Murugesan P participated in the 24th PMC

meeting and the State level standing committee meeting on 31.3.17, at Agriculture Conference Hall, Secretariat, Chennai-9

Naveen Kumar P participated in the Meeting of Project Management Committee (PMC) of Oil Palm Development Project (OPDP) of Karnataka state on February 22, 2017 at Bengaluru

Naveen Kumar P participated in the National Round Table on Horticulture organized by ICFA on 10.01.2017 at New Delhi

Ramachandrudu K participated as a resource person in one day training programme on "Production and Protection Technology of Oil Palm" conducted by KVK, Dr.Y.S.R.H.U at Veerampalem, West Godavari district, Andhra Pradesh on 22 November 2016.

Personalia (Transfers / New appointments / superannuation)

Ganesh N V, Senior Technical Officer joined IIOPR, Pedavegi on 13.02.2017 on transfer from CIAE, Bhopal.

Ananda Rao M, Senior Technical Assistant (Lab) has been promoted to the next higher grade of Technical Officer (Lab).

Ramajayam D, Senior Scientist has been relieved on 10.03.2017 to join NRC for Banana, Tiruchirapalli on transfer

Sri M. Rambabu, Senior Technician (Field/Farm) has been promoted to the next higher grade of Technical Assistant.

Appa Rao M, SSS and Gopala Krishna B, SSS have been granted financial upgradation under MACP from 1800/- to next higher Grade Pay of Rs. 1900/- w.e.f. 18.08.2016 and 22.12.2016 respectively.

Anil Kumar P, Technician, RC, Palode has been promoted to the next higher grade of Senior Technician.

Obituary

ICAR-IIOPR mourns the sad demise of Sri S.K. Saida, LDC on 6.3.2017 due to illness.

Recognition / Awards received

Saravanan L has been awarded Fellow of Society for Plant Protection Sciences, New Delhi on February 17, 2017 during 12th National Symposium on Biotic Stress Management Strategies : Challenges and Environmental Harmonization for his

significant contributions in the field of Agricultural Entomology



Saravanan L received an Award for Excellence in Research – South Asian Education Awards 2017 presented by Educationexpo TV, Research and Branding Company, Noida.

Kalyana Babu B has been awarded Best Poster for the paper - 'Development, identification and validation of CAPS marker for shell trait governing dura, pisifera and tenera fruit forms in oil palm' authored by B. Kalyana Babu et al, presented in 1st International Agrobiodiversity Congress on Science, Technology, Policy and Partnership held on November 6-9, 2016 at New Delhi

Preethi P received Best oral presentation for paper titled "Physical and chemical properties of delignified fibre extracted from commercial banana cultivars" in International conference on "New approaches in Agriculture, Food & Environmental Sciences" at Andhra Loyola College, Vijayawada on 22-24th Dec, 2016

Others if any (Consultancy / advisory services / items not covered elsewhere etc...)

Rao B N, Kalidas P and Suresh K (2016) - Feasibility studies for oil palm cultivation in Yerpedu, Thottembedu, Srikalahasti, Nagari, Vijayapuram and KVB Puram mandals of Cittoor District, Andhra Pradesh. (Consultancy Project)

Narsimha Rao B, Ravichandran G and Behera S K (2016) - Feasibility study for oil palm cultivation in Bodoland Territorial Council area of Assam. (Consultancy Project)

Ravichandran G., Mathur R K, Narsimha Rao B and Mary Rani K L. Production of quality oil palm Hybrid Seeds and management of seed garden, Rajahmundry, Andhra Pradesh (Consultancy project)

Happenings at ICAR-IIOPR

SWACHHA BHARAT ABHIYAAN

Organized Swachha Bharat campaign at Gopannapalem, Lakshmpuram villages, MRC colony and within the institute during the month of October, 2016. Swachh Bharath Sapath was administered on 17.10.2016. Various competitions were held for school children on this occasion and prizes were distributed.



STAKEHOLDERS' CONSULTATION

A stakeholders' consultation meet was organized on 6th Oct., 2016 to discuss on developing the Indian palm oil sustainability framework to address key sustainability issues in palm oil sector in association with SOLIDARIDAD, New Delhi. All the stakeholders

AGRICULTURE EDUCATION DAY

Agriculture Education day was celebrated on 3.12.2016, by organizing competitions for school children to create awareness among them about agriculture education.

WORLD SOIL DAY

World Soil Day was celebrated on December 05, 2016 at ICAR-Indian Institute of Oil Palm Research, Pedavegi, Andhra Pradesh by conducting oil palm farmers meeting and creating awareness about soil and soil health among the students. The farmers and the students were explained about the importance of soil and maintaining soil health for sustainable crop production.



Director Dr. R. K. Mathur distributed soil health cards to the farmers. About 50 farmers and 80 students participated in the programme.



JAI KISAN JAI VIGYAN

ICAR-IIOPR celebrated Jai Kisan Jai Vigyan during last week of December, 2016.



NATIONAL PRODUCTIVITY WEEK

National productivity week was celebrated at ICAR-IIOPR during 12-18 February, 2017.



FOUNDATION DAY

On 19.2.2017, ICAR-IIOPR celebrated 23rd Foundation day by organizing day-long programmes which included lectures on various aspects of oil palm cultivation, demonstrations, interactive session and distribution of soil health cards. Farmers from MGMG villages participated.



NATIONAL SCIENCE DAY

National Science Day was celebrated at ICAR-Indian Institute of Oil Palm Research on 28.2.2017 to commemorate the great invention of 'Raman Effect' with fervour and enthusiasm.



IRC MEETING

Institute Research Committee meeting was held during 16-17th March, 2017.

DISTINGUISHED VISITORS

1. Dr.P.Rethinam, Former Director, ICAR-IIOPR visited on 6.10.2016.
2. Dr.B.Rajendar, Joint Secretary (Oil Seeds), DAC visited ICAR-IIOPR on 4.11.2016.
3. Dr A.Vishnu Vardhan Reddy, Director, ICAR-IOR visited ICAR-IIOPR on 2.2.2017

Sectoral News

Patent filed on Insect assisted pollination (G Ravichandran and L Saravanan)

A patent has been filed for the technology "A process and kit for insect facilitated controlled pollination in oil palm" which would help in reducing the drudgery of climbing three times for manual hybridization. This is expected to help in a long way for good quality seed production through controlled pollination.

Indian Patent Application Number: 201641044994 A. Published in the Patent Office Journal dated 2nd February 2017, Pp: 3952

Forth coming events

Training programme on "Oil palm Production Technology" during August, 2017

New projects

A new project entitled "Enhancing profitability of Oil palm based cropping system through resource use efficient technologies with Farmer-Scientist and Stakeholders interface" under Farmer FIRST programme component of KVK (ICAR) scheme has been sanctioned for ICAR-IIOPR (Rs. 85.54 lakh).