

**Proceedings of the National Seminar on
“Promotion of Oil Palm Cultivation in India through NMOOP”**

National Seminar on “Promotion of Oil Palm Cultivation in India through NMOOP” was organized by Oil Seeds Division of Department of Agriculture and Cooperation (DAC), Govt. of India at ICAR-Indian Institute of Oil Palm Research (IIOPR), Pedavegi, West Godavari Dt., Andhra Pradesh during February 5-6, 2015. More than 150 participants comprising Scientists from ICAR and State Agricultural Universities, Officers from State Department of Horticulture/Agriculture representing oil palm growing States of the country and Progressive Farmers from different States participated in the Seminar.

Before the inauguration of the Seminar, the Video Conferencing System installed at IIOPR with the financial support of NMOOP was inaugurated by Dr. Anupam Barik, Additional Commissioner (Oil Seeds), Department of Agriculture and Cooperation, Govt. of India in the presence of Dr. B.M.C. Reddy, Vice Chancellor, YSR Horticultural University, Andhra Pradesh, Dr. S. Arulraj, Director IIOPR and other dignitaries. The formal inauguration was followed by a video conference interaction between Scientists of IIOPR and Officers and Progressive Oil Palm Farmers of Mizoram State at Aizawl.



Inauguration of Video Conferencing System

An exhibition, organized at IIOPR Campus near the Seminar venue, was inaugurated by Dr. B.M.C. Reddy, Vice Chancellor, YSR Horticultural University, Andhra Pradesh. Both Public Sector (IIOPR, Pedavegi; CIAE, Bhopal; CPCRI, Kasaragod; IIHR, Bengaluru; DOD, Hyderabad; YSRHU, Venkataramannagudem; State Department of Agriculture/Horticulture of Andhra Pradesh and Mizoram) and Private Sector (Rallis India, Coromandel Fertilizers, Mondelez Foods, Jain Irrigation, Netafim, TAFE, Shaktiman) organizations participated in the exhibition. Latest technologies developed by the organisations on inter-cropping, micro-irrigation systems, nutrient management, plant protection, farm machinery and tools, as well as details of interventions supported under

NMOOP - MM-II (Oil Palm) were displayed. In addition to scientists, officers, processors and farmers, about 600 students from various schools of West Godavari District visited the exhibition stalls and got acquainted with different aspects of research and development in agricultural sciences.



Inauguration of Exhibition

The National Seminar was inaugurated by Dr. B.M.C.Reddy, Vice Chancellor, YSR Horticultural University, Andhra Pradesh. Dr. S. Arulraj, Director, IIOPR welcomed the participants. Dr. Anupam Barik, Additional Commissioner (Oil Seeds), Department of Agriculture and Cooperation, Govt. of India, Dr. K. S. Varaprasad, Director, Indian Institute of Oilseeds Research, Hyderabad and other dignitaries graced the occasion. During the inaugural session, a series of publications brought out by IIOPR comprising Book of Papers of the Seminar, Compendium of Lectures on “Oil Palm Production Technology”, Extension Pamphlet on “Soil Sampling in Oil Palm Plantations” (in Telugu) and Farmer Friendly Handbooks on “Oil Palm Cultivation” published in five Languages (Telugu, Kannada, Hindi, English and Mizo) were released. “Ablation Tool” developed by IIOPR was also released during the occasion. Dr. Anupam Barik, Additional Commissioner (OS), DAC, New Delhi proposed the vote of thanks.



Glimpses of Inaugural Session

The Inaugural Session was followed by three Technical Sessions viz., (i) Research on Oil Palm-Technologies and Way Forward (ii) Development Efforts on Oil Palm Cultivation (iii) Oil Palm Product Diversification and Value Addition.

Technical Session- I on “Research on Oil Palm – Technologies and Way Forward” was chaired by Dr. B.M.C.Reddy, Vice Chancellor, YSR Horticultural University, Andhra Pradesh and Co-chaired by Dr. K. S. Varaprasad, Director, IIOR, Hyderabad. Eminent subject-matter-specialists delivered presentations for the benefit of oil palm stakeholders.

The participants proceeded on a Field Visit to oil palm gardens and Oil Palm Processing Unit of M/s 3F Agrotech Ltd., Yarnagudam village, West Godavari District on 5th February, 2015 After Noon.





Visit to Oil Palm Garden and processing unit

On the second day of the Seminar (6th February, 2015), Technical Session-II on “Development Efforts on Oil Palm Cultivation” was chaired by Dr. Atanu Purkayastha IAS, Addl. Chief Secretary, Government of West Bengal. Dr. Anupam Barik, Additional Commissioner (Oil Seeds), Department of Agriculture and Cooperation, Govt. of India, Dr. S. Arulraj,

Director, IIOPR, Representatives from State Departments of Horticulture/ Agriculture and Farmer Representatives from various oil palm growing states have expressed their experiences, views, suggestions etc., on improving oil palm production and productivity through NMOOP. Technical Session-III on “Oil Palm Product Diversification and Value Addition” was chaired by Dr. Anupam Barik, Addl. Commissioner (OS), DAC. During the session, role of oil palm processors in promotion of oil palm cultivation was presented by the Representatives from Processing Industry. Suggestions for strengthening the development efforts of processing sector were offered.

Plenary Session was chaired by Dr. Atanu Purkayastha IAS, Addl. Chief Secretary, Government of West Bengal and former Joint Secretary (OS) and co-chaired by Dr. S. Arulraj, Director, IIOPR. Proceedings of the three Technical Sessions were presented by the respective Session Rapporteurs, viz., Dr. J. P. Singh, Consultant (Oil Seeds), DAC, New Delhi, Sri S. M. Kolhatkar, Director, Directorate of Oilseeds Development, Hyderabad and Dr. B. N. Rao, Principal Scientist, IIOPR, Pedavegi. In his Special Address, Dr. S. Arulraj, Director, IIOPR stressed the need for all-out efforts by all the stakeholders of oil palm sector for improving oil palm productivity as per NMOOP targets. Dr. Atanu Purkayastha IAS, Addl. Chief Secretary, Government of West Bengal, in his Valedictory Address traced the genesis of National Mission on Oilseeds and Oil Palm (NMOOP) and stressed on the expected role to be played by various stakeholders to maximize the output and outcome from NMOOP. The Plenary Session came to an end with Vote of Thanks by Dr. M. V. Prasad, Principal Scientist, IIOPR, Pedavegi.



**Valedictory Address by Dr. Atanu Purkayastha IAS,
Addl. Chief Secretary, Government of West Bengal**

Major observations/suggestions made during the two days deliberations of the Seminar are summarized as under:

- Optimum water management for oil palm is essential for improving productivity. Maximum water requirement of 220 lit/palm/day during peak summer under sandy loam soil condition was reported by IIOPR. Excess water application did not have any positive impact on yield. Drought results in production of male flowers, floral abortion and bunch failure.
- Oil palm can grow under acidic soils upto 5.0 pH and can tolerate water stagnation for a short period of 5-7 days.
- Crops like cereals (except paddy), pulses, oilseeds, vegetables, flowers, cotton, sugarcane and banana can be grown as inter crops in the juvenile oil palm plantations. Shade loving crops like cocoa, red ginger, heliconia, anthurium, long pepper and asparagus can be grown subsequently as inter crops in adult oil palm plantations.
- Highest FFB yield of 50 tonnes/ha recorded in India indicates larger scope for area expansion and productivity improvement in different states.
- Custom Hiring System may be encouraged for use of costly farm implements like hydraulic ladders and lift platform for spraying and harvesting.
- Evaluation on performance of indigenous and imported seedlings through an independent agency may be taken up.
- Processors may explore the possibility for taking the responsibility of harvesting and transport of FFBs from plantations to processing site.
- Enhanced support is required on imported sprouts by Oil Palm Processors.
- Light weight, high quality poles attached with Malaysian knife are the best option presently available for harvesting of FFBs even from tall trees (>20 ft.)
- Lack of infrastructure like link roads between the oil palm fields and the processing units is a major area of concern in NE States.
- Inclusion of oil palm under MSP could be explored.

Major Recommendations

- Thrust on oil palm plantations in NE States, wherein, tribals are the land owners, with infrastructure support for processing and connecting roads.
- Constitution of a Committee comprising Representatives from IIOPR, Oil Palm Processors, Representatives of Machinery Division of DAC, CIAE, Bhopal and Progressive Farmers for assessment of requirement of machinery and tools.

- Dovetailing of resources for development of infrastructure and setting up custom hiring centers for machineries under RKVY with PPP mode on the pattern of Custom Hiring Centres established by Andhra Pradesh for paddy plantation.
- Pest management practices should be based on the crops grown in the area of oil palm for effective management of emerging pests that are common for crops like sorghum and oil palm.
- Areas with higher rainfall/availability of natural water resources may be given priority for oil palm plantation to avoid exploitation of ground water resources. Districts with high productivity potential and low area may be given priority for area expansion.
- Strong R&D support for development of machinery and tools; studies to work out the critical stages for water requirement; development of leaf colour chart for effective INM and integrated farming (inter-crop, dairy, poultry, fishery, piggeries etc.) with oil palm plantation.
- Recommendations about inter cropping should be supported with data on cost of investment and the returns from the recommended inter crops.
- Matter relating to inclusion of oil palm under MSP may be first examined by the concerned State Governments and proposal, if any, may be submitted to Government of India.
- Documentation of success stories and preparation of video films starting from nursery to processing of FFBs.
- Separate provision for recognition/awards for States / Farmers / Entrepreneurs for oil palm.

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Participants of the National Seminar on "Promotion of Oil Palm Cultivation in India through NMOOP" during February 5-6, 2015, at IIOPR, Pedavegi, Andhra Pradesh

S. No.	Name	Address
VIPs/Dignitaries/Guests		
1	Dr. Atanu Purkayastha, Additional Chief Secretary	Govt. of West Bengal, Kolkata
2	Dr. B.M.C.Reddy, Vice Chancellor	YSRHU,VR Gudem, Andhra Pradesh
3	Dr. K.S.Vara Prasad, Director	IIOR, Hyderabad
4	Dr. H.P.Maheswarappa, Project Coordinator	CPCRI, Kasaragod
Resource Persons		
5	Dr. T.Vidhan Singh, Principal Scientist	IIRR, Hyderabad
6	Dr. S.D.Kulkarni, Principal Scientist	CIAE, Bhopal
DAC, New Delhi/ Directorate of Oilseeds Development (DOD), Hyderabad		
7	Dr. Anupam Barik, Addl Commissioner (OS)	DAC, New Delhi
8	Dr. J.P.Singh, Consultant (OS)	DAC, New Delhi
9	Dr. Manoranjan Datta, Consultant (OS)	DAC, New Delhi
10	Sri Amar Singh, Tech. Assistant	DAC, New Delhi
11	Sri S. M.Kolhatkar, Director	DOD, Hyderabad
12	Sri S. S. Kagi, Sr. Technical Assistant	DOD, Hyderabad
13	Sri G. Santhosh, Sr. Technical Assistant	DOD, Hyderabad
State Agriculture/Horticulture Department Officials		
14	Sri R.K.Nithanga, Deputy Director (OP)	Mizoram
15	Sri T. Zote, Analyst	Mizoram
16	Sri Z.Howoto Sema, Joint Director (NMOOP)	Nagaland
17	Sri Kilangchuba, Field Assistant	Nagaland
18	Sri H. S. Shiva Kumar, Addl. Director of Horticulture (OPDP)	Bangalore, Karnataka
19	Smt. D. Syngkon, Deputy Director of Horticulture	Meghalaya

20	Sri P.S.Kharnaioir, Agrl. Marketing Officer	Meghalaya
21	Sri Omprakash Rath, Deputy Director of Horticulture	Balasore, Orissa
22	Sri K.P.Srikumar, Addl. Director of Agriculture	Chennai, Tamil Nadu
23	Sri V.Vinoy Kumar, Asst. Manager	OPIL, Thodupuzha
24	Sri T. K. Das, Deputy Director of Agriculture (Oilseeds)	West Bengal
	Andhra Pradesh	
25	Sri Panduranga, Deputy Director of Horticulture	West Godavari Dt.
26	Sri K. Ajay Babu, Asst. Director of Horticulture-I	West Godavari Dt.
27	Smt. G. Vijayalakshmi, Asst. Director of Horticulture-II	West Godavari Dt.
28	Smt. N. Sujatha, Asst. Director of Horticulture-I	Krishna Dt.
	Telangana	
29	Sri K.Venkateswarlu, Asst. Director of Horticulture-I	Khammam Dt.
30	Sri .Surayanarayana, Asst. Director of Horticulture-II	Khammam Dt.
31	Sri T.Nagaraju, Asst. Director of Horticulture-II	Nalgonda Dt.
32	Sri V.Uday Kumar, Horticulture Officer	Khammam Dt.
33	Sri R. Shiva Prasad, Hort. Consultant	Khammam Dt.
Exhibitors		
34	Sri Rajesh	M/s Shaktiman, Gujarat
35	Sri K.Raja Ratnam	M/s Shaktiman, Gujarat
36	Sri Y.V.Ravi Kumar	M/s Shaktiman, Gujarat
37	Sri M. Reddy	M/s Shaktiman, Gujarat
38	Sri A.Rambabu	M/s Shaktiman, Gujarat
39	Sri V.Venkatasubbaiah	M/s Netafim
40	Sri A.S.Subba Rao	M/s Netafim

41	Sri B.Vedanayakam	M/s Netafim
42	Sri Venkatapathi Raju	M/s Netafim
43	Sri Nagamalleswara Rao	M/s Jain Irrigation
44	Sri P.Sudhakara Rao	M/s Jain Irrigation
45	Sri N.Rambabu	M/s Jain Irrigation
46	Sri V.Venkat Rao	M/s Jain Irrigation
47	Sri U.Bhaskar	M/s Jain Irrigation
48	Sri G.Shiva Kumar	M/s Mondelez India Foods Limited
49	Sri J.Vijay kumar	M/s Mondelez India Foods Limited
50	Sri V.Ayyanna Babu	M/s Mondelez India Foods Limited
51	Sri Ch.Giri Babu	M/s Rallis India Limited
52	Sri Kondal Rao	M/s Rallis India Limited
53	Sri M.S.Prasad	M/s Rallis India Limited
54	Sri Prasad	M/s Coromandel fertilizers Limited
55	Sri V.K.Rao	M/s Coromandel fertilizers Limited
56	Sri T.V.Subba Rao,	M/s Coromandel fertilizers Limited
57	Sri S.K.Maulali	M/s Coromandel fertilizers Limited
58	Sri Bhaskar	M/s Coromandel fertilizers Limited
59	Dr. D. Jaganathan Scientist	CPCRI, Vittal
60	Sri C.Purandhara, Sr. Technical Assistant	CPCRI, Vittal, Karnataka
61	Sri Thara Nath Naik, Technical Assistant	CPCRI, Vittal, Karnataka
62	Sri P.V.V.Satyanarayanamurthy	CPCRI, Vittal, Karnataka
63	Sri Mohanraj, Senior Research Fellow	CIAE Research Centre, Coimbatore
64	Sri Shrimani, Senior Research Fellow	CIAE Research Centre, Coimbatore
65	Dr. P. Sampathkumar, Principal Scientist	IIHR, Bangalore
66	Dr. Achala Paripurna, Senior Scientist	IIHR, Bangalore
67	Sri N.Jayaramaiah, Technical officer	IIHR, Bangalore

68	Sri A. Narasimha Rao	Oil Palm Development & Processors Association
69	Sri Ch.Malleswara Rao	Oil Palm Development & Processors Association
70	Sri Chennoju Sudharsan	TAFE, Chennai
71	Sri Suryanarayana Murthy	TAFE, Chennai
Indian Institute of Oil Palm Research		
72	Dr. S. Arulraj, Director	IIOPR, Pedavegi
73	Dr. P.Kalidas, Principal Scientist	IIOPR, Pedavegi
74	Dr. R.K. Mathur, Principal Scientist	IIOPR, Pedavegi
75	Dr. M. V. Prasad, Principal Scientist	IIOPR, Pedavegi
76	Dr. B. N. Rao, Principal Scientist	IIOPR, Pedavegi
77	Dr. K. Suresh, Principal Scientist	IIOPR, Pedavegi
78	Dr. K. Manorama, Principal Scientist	IIOPR, Pedavegi
79	Dr. G. Ravichandran, Senior Scientist	IIOPR, Pedavegi
80	Dr. K. Ramachandrudu, Senior Scientist	IIOPR, Pedavegi
81	Dr. P.Naveen Kumar, Senior Scientist	IIOPR, Pedavegi
82	Dr. Sanjib kumar Behera, Senior Scientist	IIOPR, Pedavegi
83	Dr. K.L.Mary Rani, Senior Scientist	IIOPR, Pedavegi
84	Dr. L. Saravanan, Scientist	IIOPR, Pedavegi
85	Dr. K. Praveena Deepthi, Scientist	IIOPR, Pedavegi
86	Dr. K. Sunil Kumar, Senior Scientist	IIOPR, Research Centre, Palode
87	Sri B.Pardhasaradhi, Sr. Technical Officer	IIOPR, Pedavegi
88	Smt. A.Bhanusri, Sr. Technical Officer	IIOPR, Pedavegi
89	Sri K.V.Rao, Technical Officer	IIOPR, Pedavegi
90	Sri J.Mohan Rao, Technical Officer	IIOPR, Pedavegi
91	Sri M.AnandaRao, Sr. Technical Assistant	IIOPR, Pedavegi
92	Sri V.V.S.Krishna Murthy, Sr. Technical Assistant	IIOPR, Pedavegi

93	Sri M.Rambabu, Technical Assistant	IIOPR, Pedavegi
94	Sri P.Anil Kumar, Technician	IIOPR, Pedavegi
95	Sri K.Ananda Rao, Technician	IIOPR, Pedavegi
Oil Palm Processors		
96	Sri K.J.Prabhakar Rao	M/S Ruchi Soya Private Limited
97	Sri Narasimha Rao	M/S Ruchi Soya Private Limited
98	Sri Pattabhi Rami Reddy	M/S Ruchi Soya Private Limited
99	Sri Ramakrishnaiah	M/S Ruchi Soya Private Limited
100	Sri G.S.Kumar	M/S Ruchi Soya Private Limited
101	Sri P.Venkata Raghava, Vice President	M/s 3F Oil palm
102	Sri P.P.Kedarnath	M/s 3F Oil palm
103	Sri P.T.Natarajan	M/s 3F Oil palm
104	Dr. R.Nagarajan	M/s 3F Oil palm
105	Sri Ranganayakulu, CEO	M/s Shivasais Oil palm Limited
106	Smt. K. Hymavathi, Divisional Officer	A P OilFed
107	Sri D.Anki Reddy, F.O	A.P.OilFed
108	Sri K.Ashok, D.M	A.P.OilFed
Farmers		
109	Sri Govindareddi Nandeppanavar	Karnataka
110	Sri K B Sidde Gowda	Karnataka
111	Sri K.Balakrishna	Telangana
112	Sri V.Bhaskar	Telangana
113	Sri Rajasekhar	Telangana
114	Sri M.Poornachandra Reddy	Telangana
115	Sri T.G.Maheswarareddy	Telangana
116	Sri R.Ramchandra Rao	Telangana
117	Sri BobbaVeera Raghava Rao	Andhra Pradesh

118	Sri. G. V. S. R. Prasad	Andhra Pradesh
119	Sri. Krantikumar Reddy	Andhra Pradesh
120	Sri. A. Ramakrishna	Andhra Pradesh
121	Sri P. Subba Rao	Andhra Pradesh
122	Sri V.Pattabhirami Reddy	Andhra Pradesh
123	Sri V.Ramakrishna Reddy	Andhra Pradesh
124	Sri A.Satyanarayana	Andhra Pradesh
125	Sri B.Rammohanrao	Andhra Pradesh
126	Sri Ramaraju	Andhra Pradesh
127	Sri G. Satyanarayana	Andhra Pradesh
128	Sri Undavalli Venkata Rao	Andhra Pradesh
129	Sri Bujji	Andhra Pradesh
130	Sri Mukesh	Andhra Pradesh
131	Sri M. Murali	Andhra Pradesh
132	Sri Seetaramudu	Andhra Pradesh
133	Sri B.Raghu	Andhra Pradesh
134	Dr. K.KrishnaRao	Andhra Pradesh
135	Sri L. Venketeswara Reddy	Andhra Pradesh
136	Sri P.Bhaskara Rao	Andhra Pradesh
137	Sri P.Sreenivasa Rao	Andhra Pradesh
138	Sri R.Nagarjuna	Andhra Pradesh
139	Sri Shiva Prasad	Andhra Pradesh
All India Coordinated Research Project on Palms – Oil palm Centres		
140	Dr. P.Madavi latha, Scientist	Vijayrai, Andhra Pradesh
141	Dr. M.Gawankar, Asst. Professor	Mulde, Maharashtra
142	Dr. G.R.Sanjeevareddi, Asst. Professor	Gangavathy, Karnataka
143	Dr. G. R. Ganesamurthy, Professor	Veppankulam, Tamil Nadu

144	Dr. Barun Singh, Asst. Professor	Pasighat, Arunachal Pradesh
145	Dr. Satish Narayan, Asst. Professor	Madhopur, Bihar
Zonal Project Directorates (ICAR)/Krishi Vigyan Kendra		
146	Dr. J.V. Prasad, Principal Scientist	ICAR Zonal Project Directorate, Hyderabad
147	Dr. B. Srihari Rao, Programme Coordinator	KVK, Visakhapatnam
148	Dr. A. Srinivas, Programme Coordinator	KVK, Pandirimamidi
149	Dr. E. Karunasree, Programme Coordinator	KVK, V.R.Gudem
150	Ms. S. Vishala, RA (Hort)	KVK, V.R.Gudem

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