

AN ENCHIRIDION OF OIL PALM CULTIVATION IN NORTH EAST INDIA



भाकृअनुप - भारतीय तेल ताड़ अनुसंधान संस्थान
ICAR - Indian Institute of Oil Palm Research

पेदेवेगी - 534 450, पश्चिम गोदावरी जिला, आन्ध्र प्रदेश
Pedavegi - 534 450, West Godavari Dt., Andhra Pradesh

Website: <https://iiopr.icar.gov.in>

2021



An enchiridion of oil palm cultivation in North East India



भाकृअनुप - भारतीय तेल ताड़ अनुसंधान संस्थान
ICAR - INDIAN INSTITUTE OF OIL PALM RESEARCH

पेदवेगि - 534 450, पश्चिम गोदावरि जिला, आन्ध्र प्रदेश
Pedavegi - 534 450, West Godavari Dt., Andhra Pradesh

October, 2021



An enchiridion of oil palm cultivation in North East India

ISBN No: 81-67561-67-X

Technical Bulletin

Published by

Dr. R. K. Mathur

Director, ICAR-Indian Institute of Oil Palm Research
Pedavegi - 534 450, West Godavari Dt., Andhra Pradesh

Phone : 08812 - 259409, 259532, 259524

Fax : 08812 - 259531

E-mail : director.iiopr@icar.gov.in

Web site : <https://iiopr.icar.gov.in>

Editors

K. Manorama

R.K. Mathur

Contributors

K Suresh

G Ravichandran

K Ramachandrudu

M V Prasad

KL Mary Rani

ARNS Subbanna

RP Premalatha

M Amrutha Lakshmi

Copy right reserved

All rights reserved. No part of this bulletin shall be reproduced or transmitted in any form by print, microfilm or any other means without written permission of the Director, ICAR-Indian Institute of Oil Palm Research, Pedavegi, Andhra Pradesh.

Year of publication: October, 2021

Printed at

M/s. Swapna Art Home, Suryaraopeta, Vijayawada 520 002

Phone : 92464 64115

डॉ. आनन्द कुमार सिंह
उपमहानिदेशक (बागवानी विज्ञान)
Dr. Anand Kumar Singh
Deputy Director General
(Hort. Sci.)



भारतीय कृषि अनुसंधान परिषद
कृषि अनुसंधान भवन - II,
पूसा, नई दिल्ली - 110 012
INDIAN COUNCIL OF AGRICULTURAL RESEARCH
KRISHI ANUSANDHAN BHAWAN - II,
PUSA, NEW DELHI - 110 012

Foreword



Touching the milestone of 75 years of independence, we are celebrating आजादी का अमृत महोत्सव (Aazadi ka Amrut Mahotsav) to build आत्म निर्भर भारत (Atma Nirbhar Bharat). Indian edible oil requirement is met largely from the imports, particularly from palm oil imports. Oil palm with a very high potential to produce the highest quantity of edible oil per unit area and time, is now well adapted to South East Asia and even under semi arid tropics with good water management. Recognising its potential, Government of India has recently announced National Mission on Edible Oils - Oil palm with a plan outlay of Rs.11,040/- crore. On the other hand, suitable areas for growing this crop have been mapped scientifically and area expansion targets have been fixed. Under this ambitious programme, a sizeable area has been selected in North East India, which needs scientific guidance with hand holding for successful establishment of this crop in the region.

I am glad that ICAR-110PR has brought out this technical bulletin on palm oil. The efforts of authors in substantiating replies with available literature are well appreciated.

The information provided in this bulletin provides answers to most of the questions that may arise in the minds of growers of North East Region, as this crop is an introduction to this area. I congratulate the authors for this timely publication and wish that this will be useful to oil palm stakeholders of NE region for successful oil palm cultivation.

Date: 28.09.2021

(A. K. Singh)

Index

S No	Topic	Page No
	Foreword	
1.	Whether oil palm can be grown anywhere in NE region?	02
2.	Whether hill slopes are suitable for oil palm cultivation? If so, up to how much slope its cultivation can be taken up?	03
3.	What is the method of planting in oil palm?	04
4.	How the hybrid seed is produced and seedlings are supplied?	04
5.	How the nursery is raised?	06
6.	What should be the size of basins around the palm?	08
7.	Can oil palm be grown entirely under rainfed condition in NER?	08
8.	What are the soils suitable for oil palm and how the required nutrients are to be supplied for oil palm?	10
9.	Whether Fertigation technique is good in oil palm?	12
10.	What are the nutrient deficiencies / disorders in oil palm?	13
11.	What are the soil and water conservation techniques in oil palm?	15
12.	What is ablation and what is its significance? Whether leaf pruning is required?	16
13.	How the weeds are to be managed in oil palm?	17
14.	Any intercropping options are available in oil palm?	17
15.	How the pollination takes place in oil palm and what is the role of pollinating weevil?	19
16.	What are the important insect pests in oil palm?	20
17.	What are the important diseases in oil palm nursery and main field?	23
18.	When the fruits are to be harvested? Are there any standards for fruit maturity?	28
19.	How the fruit bunches are to be harvested?	29
20.	How the processing of fruit bunches is done?	30
21.	How the waste recycling is to be done in oil palm?	30
22.	Are there any Mobile Apps on Oil Palm regarding management practices?	31
23.	Does cultivation of oil palm has any environmental impact?	31
24.	Consuming palm oil has any harmful impacts on human health?	32
25.	Points of essence	33
	References	34
	Annexure – I	36