



Promoting cultivation of underutilized horticultural species through a dedicated nursery: a success story from Andaman and Nicobar Islands, India Ajit Arun Waman\* and Pooja Bohra

Division of Horticulture and Forestry, ICAR- CIARI, Port Blair, Andaman and Nicobar, \*Corresponding author's email: <u>ajit.arun@icar.gov.in</u>



**HGR** 

**P05** 

## Abstract

Andaman and Nicobar Islands are bestowed with rich phyto-diversity of horticultural significance. Out of 46,000 ha of cultivable land in the Islands, area under native perennial underutilized species is abysmal mainly due to lack of awareness and availability of their planting material. A dedicated nursery *viz*. Horticultural Plants Propagation Unit (HPPU) was established during 2019 in which nursery techniques were standardized for 15 native underutilized species and 33 species (including endemic and rare) are presently being multiplied. Within two years of its existence, HPPU has been a prominent source of planting material of underutilized species for local farmers, urban gardening enthusiasts, hoteliers, government and non government agencies, educational institutions, tribal and non-tribal afforestation activities. Visitors of HPPU are apprised about cultivation and utilization aspects of underutilized species being multiplied. To enhance the reach, awareness and plantation programmes are undertaken in collaboration with various stakeholders.

## **Species being multiplied at HPPU** Introduction Family **Species (names in red indicate native species of Islands)** Anacardiaceae Spondias dulcis Standardized nursery Apiaceae Eryngium foetidum techniques for 15 native Clusiaceae Garcinia andamanica, G. celebica, G. cowa, G. underutilized species dhanikhariensis, G. dulcis, G. gummi-gutta, G. kydia, G.

- Mass multiplying 33
  underutilized species
- Source of planting material for afforestation and farming
- Facilitating

   domestication of novel
   crops identified for
   cultivation in the islands

  Site for hands on

training to island youth



A General view of Horticultural Plants Propagation Unit (HPPU) at ICAR-CIARI, Port Blair

	mangostana, <mark>G. xanthochymus</mark>
Euphorbiaceae	Baccaurea ramiflora
Lauraceae	Cinnamomum tamala, C. verum
Malpighiaceae	Malpighia punicifolia
Menispermaceae	Haematocarpus validus
Moraceae	Artocarpus camansi, A. heterophyllus
Myrtaceae	Syzygium aqueum, <mark>Syzygium malaccense</mark>
Oxalidaceae	Averrhoa bilimbi
Passifloraceae	Passiflora edulis var. flavicarpa
Piperaceae	Piper chaba, P. longum, P. pendulispicum, P. sarmentosum
Poaceae	Cymbopogon flexuosus
Rutaceae	Aegle marmelos, Citrus grandis, C. limon
Tiliaceae	Grewia calophylla
Zingiberaceae	Curcuma amada, <mark>C. mangga</mark>

