

### Coconut variety Kalpa Pratibha

Kalpa Pratibha (CCS-4) is a coconut variety developed by the Central Plantation Crops Research Institute (ICAR), Kasaragod. It is a dual-purpose variety (copra and tender nut variety) and was recommended for release by the XVII Biennial Workshop of the All India Coordinated Research Project on Palms and released by the Central Sub-committee on Crop Standards, Notification and Release of variety and notified vide Notification of Ministry of Agriculture (Department of Agriculture and Co-operation) S.O. 1714(E) dated July 18, 2008. Kalpa Pratibha (IND 016S) is essentially derived from the CPCRI accession IND 016. The population was developed at CPCRI through selection of superior high yielding palms and *inter se* mating between the selected palms in the original population. Seedling selection was made and superior seedlings were planted for evaluation. This variety gave an average yield of 4.07 tons copra/ha; 2.73 tons oil/ha; 15874 nuts/ha (under rainfed condition). The variety was found to be superior to the local control (WCT) and the estimated copra and oil yield per hectare was 40.11% and 38.05% higher than WCT respectively. The variety is relatively tolerant to drought.

The variety is recommended for cultivation in the states of Kerala, Andhra Pradesh, Tamil Nadu and Maharashtra. The recommendation is based on the superior performance of the variety at CPCRI, Kasaragod in Coastal Kerala, Ambajipeta in Andhra Pradesh, Veppankulam and Alivarnagar in Tamil Nadu, and Ratnagiri in Maharashtra. The palms are regular bearers and under rainfed conditions commence flowering 71 months after planting in the field. The palms are tall in habit with a compact spherical canopy. The fruits are large, round in shape and predominantly green in colour. However, a few palms of this variety produce brown coloured fruits. The seed nuts germinate faster with 50% nuts germinating in about 62 days after sowing.

The average weight of the fruit is around 1332g and from one fruit, on an average, 256.37g of copra (dried endosperm) can be obtained. The copra contains about 67% of oil. The oil extracted from the copra of this variety has 47.81% of lauric acid. The average quantity of tender nut water is 448ml. Based on the organoleptic test, the tender nut water is classified as "good" in taste. The nutritive value of tender nut water is: total sugars - 5.5g/100ml; free amino acids -1.1mg/100ml; Potassium - 2150 ppm and Sodium -21.7 ppm. This high yielding variety will help enhance the coconut productivity in the country. This variety has the potential to produce on an

average 23275 nuts, 5.97 tons of copra and 4.01 tons of oil per hectare.

V. Niral, B. Augustine Jerard, K. Samsudeen, V. Arunachalam, P.M. Kumaran, M.J. Ratnambal, E.V.V. Bhaskara Rao, R.V. Pillai, K. Satyabalan, K.U.K. Nampoothiri, M.K. Nair, K.V.A. Bavappa, R.V. Nair, George, V. Thomas, V.S.K. Reddy<sup>1</sup>, B. Gautam<sup>1</sup>, M. Kalpana<sup>1</sup>, D.V. Raghava Rao<sup>1</sup>, M.B. Nageswarao<sup>1</sup>, B. Srinivasulu<sup>1</sup>, R. Vaithilingam<sup>2</sup>, C. Natarajan<sup>2</sup>, M. Kumar<sup>3</sup>, N. Meenakshi Ganesan<sup>3</sup>, D.D. Nagwekar<sup>4</sup>, S. Arulraj<sup>5</sup>

Central Plantation Crops Research Institute,  
PO Kudliu, Kasaragod 671 124

<sup>1</sup>AICRP on Palms, ARS Ambajipeta;

<sup>2</sup>AICRP on Palms, CRS Veppankulam; <sup>3</sup>AICRP on Palms, CRS Aliyarnagar; <sup>4</sup>AICRP on Palms, RCRS Bhatye; <sup>5</sup>PC AICRP on Palms, Kasaragod

### Coconut variety Kalpa Mitra

Kalpa Mitra (CCS-5) is a coconut variety developed by the Central Plantation Crops Research Institute (ICAR), Kasaragod. It was recommended for release by the XVII Biennial Workshop of the All India Coordinated Research Project on Palms and released by the Central Sub-committee on Crop Standards, Notification and Release of variety and notified vide Notification of Ministry of Agriculture (Department of Agriculture and Co-operation) S.O. 1714(E) dated July 18, 2008. Kalpa Mitra (IND 022S) is essentially derived from the CPCRI accession IND 022. The population was developed at CPCRI through selection of superior high yielding palms and *inter se* mating between the selected palms in the original population. Seedling selection was made and superior seedlings were planted for evaluation. This variety gave an average yield of 3.37 tons copra/ha; 2.24 tons oil/ha; 13973 nuts/ha (under rain fed condition). The variety was found superior over local control (WCT) and the estimated copra and oil yield was 16.01% and 13.45% higher than WCT. The variety is relatively tolerant to drought.

The variety is suited for Kerala and West Bengal. The recommendation is based on the superior performance of the variety at CPCRI, Kasaragod in Coastal Kerala and the AICRP on Palms Centre Mondouri, West Bengal. The palms of this variety are tall in habit with stout trunk and spherical canopy with large number of leaves. The palms are regular bearers and commence flowering 77 months after planting in the field. The fruits are large, oval in shape and yellowish green in colour. The seed nuts of this variety are slow to