Species Datasheet

Datasheet No. A-076.006.003
(family.genus.species)

DBT- Network Programme

-

1. Taxon:

Species: *Caryota urens* L.
Subspecies
Variety
Cultivar
Hybrid
Commonly known as 'Indian sago palm', 'toddy palm', 'jaggery palm', 'fishtail palm'.

Image file

2. Synonyms:

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperm
- Clade: Monocots
- Clade: Commelinids
- Order: Arecales Bromhead
- Family: Arecaceae Bercht. & J. Presl
- Subfamily: Coryphoideae Burnett
- Genus: *Caryota* L.
- Species: *C. urens* L.

Bentham and Hooker (1862)
Kingdom: Plantae
Division: Phanerogamia
Class: Monocotyledones
Series: Calycinae
Ordo: Palmae Juss.
Genus: *Caryota* L.
Species: *C. urens* L.

4. Distribution:

Global: Bangladesh, Bonin Islands, India, Malaysia, Myanmar, Nepal, Papua New Guinea, Southern China, Sri Lanka, Thailand, Vietnam

India: Assam, Western Ghats, widely distributed

5. Indigenous/Exotic/ Endemic; Cultivated/Wild: Wild and Cultivated

6. Threat Status:

IUCN:

BSI:

7. Habit and Habitat: Tree, solitary 20 meters tall; Tropical rain forests, grows in evergreen rainforests up to 300 meters above sea level and also in plains.

8. Life Form: Phanerophyte

9. Economic Importance: It is cultivated as an ornamental plant. Leaf sheath fibers are used to make ropes, brushes and baskets. Sap is tapped from the inflorescence and then fermented into an alcoholic drink (palm wine or toddy) or boiled down to make syrup or sugar. Seeds are used to make beads.

10. Probable Progenitor of:

11. DNA

C- value	**Methodology**
4C (26.44 pg)[8]	Feulgen microdensitometry[8]

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): 2n= 32[4, 9]

2n= 34[10]

14. Gametic chromosome number(s):

15. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene chromosomes/Neocentric chromosomes):

Image file

16. Ploidy level:

Image file

17. Agametoploidy

18. Nature of polyploidy (auto, segmental, allo, autoallo):

19. Genomic formula:

20. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty): Several somatic cells with abnormal chromosomes number 2n=8[4]

21. Somatic chromosomes:

Karyotype Majority submetacentric to metacentric chromosomes[4]; Majority submetacentric to subtelocentri chromosomesc[9]

Chromosome size Small to medium[4]; Long to small[9]

NOR chromosome(s) 8 NOR[4]

Degree of asymmetry:

Image file

22. Banding pattern(s):

Image file

23. Physical mapping of chromosomes:

In situ hybridization

Image file

Fluorescent in situ hybridization

Image file

24. Genomic in situ hybridization:

Image file

25. Linkage map:

Image file

26. Chromosome associations:

Female meiosis

Male meiosis

Image file

27. Chromosome distribution at anaphase I:

28. Genetic diversity:

Chromosomal level

Image file

DNA level

29. Any other information (Apomixis; Inversion; Male sterility; Pollen grain mitosis; Pollen stainability; Translocations etc):