

Final Species Datasheet JamU+CalU+SUK-Phase I

Datasheet No. A-253.002.010
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Hopea ponga* (Dennst.) Mabb.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. Synonyms: *Artocarpus ponga* Dennst., *Hopea wightiana* Wall. ex Wight & Arn.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicot
- Clade: Rosids
- Clade: Malvids
- Order: Malvales Juss.
- Family: Dipterocarpaceae Blume
- Genus: *Hopea* Roxb.
- Species: *H. ponga* (Dennst.) Mabb.

Bentham and Hooker (1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Dicotyledons
- Subclass: Polypetalae
- Series: Thalamiflorae
- Cohors: Guttiferales
- Ordo: Dipterocarpaceae Blume
- Genus: *Hopea* Roxb.
- Species: *H. ponga* (Dennst.) Mabb.

4. Distribution:

Global: India

India: Southern Western Ghats

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

6. Threat Status:

IUCN: Vulnerable

BSI:

7. Habit and Habitat: Tree; Evergreen and semi-evergreen forests, also in the plains in sacred groves

8. Life Form: Phanerophyte

9. Economic Importance: Wood is very hard and used for construction and agricultural implements

10. Probable Progenitor of:

11. DNA

C-value

Methodology

12. Basic chromosome number(s):

13. Zygotic chromosome number(s): $2n=14^{10}$

14. Gametic chromosome number(s): $n=7^{10}$

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):

21. Somatic chromosomes:

Karyotype All are metacentric chromosomes¹⁰

Chromosome size 1.36 - 2.23 μm ¹⁰

NOR chromosome(s)

Degree of asymmetry Stebbins 1A category¹⁰

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: Normal¹⁰

28. Genetic diversity:

Chromosomal level

Image file

DNA level

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