

Final Species Datasheet JamU+CalU+SUK-Phase I

Datasheet No. A-253.001.003
(family.genus.species)

DBT- Network Programme

1. Taxon:

Species: *Dipterocarpus costatus* C.F. Gaertn.

Subspecies

Variety

Cultivar

Hybrid

Image file

2. **Synonyms:** *Dipterocarpus angustifolius* Wight & Arn., *D. artocarpifolius* Pierre ex Laness., *D. lemeslei* Vesque, *D. parvifolius* F. Heim, *Hopeascabra* Buch.-Ham.

3. Systematic Position:

APG IV (2016)

- Kingdom: Plantae
- Clade: Angiosperms
- Clade: Eudicot
- Clade: Rosids
- Clade: Malvids
- Order: Malvales Juss.
- Family: Dipterocarpaceae Blume
- Genus: *Dipterocarpus* C.F. Gaertn.
- Species: *D. costatus* C.F. Gaertn.

Bentham and Hooker (1862)

- Kingdom: Plantae
- Division: Phanerogamia
- Class: Dicotyledons
- Subclass: Polypetalae
- Series: Thalamiflorae
- Cohors: Guttiferales
- Ordo: Dipterocarpaceae Blume
- Genus: *Dipterocarpus* C.F. Gaertn.
- Species: *D. costatus* C.F. Gaertn.

4. Distribution:

Global: Bangladesh, Cambodia, India, Laos, Malaya, Myanmar, Thailand, Vietnam

India: Andaman Island, Tripura

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

6. Threat Status:

IUCN: Vulnerable

BSI:

7. **Habit and Habitat:** Tree; Occurs mixed evergreen forests at 600 - 1000 m on steep hill slopes exposed to strong winds, but nowhere common

8. **Life Form:** Phanerophyte

9. **Economic Importance:** Wood used in plywood industry, construction purposes and for making railway sleepers; an excellent fuel wood. Oleo-resin obtained from the wood is reported to be used in the treatment of ulcers

10. Probable Progenitor of:

11. DNA

C-value

Methodology

12. Basic chromosome number(s):

13. **Zygotic chromosome number(s):** $2n=20^4$

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):

21. Somatic chromosomes:

Karyotype

Chromosome size

NOR chromosome(s)

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 level⁵

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