

© Society for Promotion of Tropical Biodiversity, Jabalpur

## **ASSESSMENT OF OIL YIELD OF DIFFERENT CLONES OF *EUCALYPTUS TERITICORNIS* OBTAINED THROUGH HYDRODISTILLATION**

**MANISHA RATHI<sup>1\*</sup>, S.D. UPADHYAYA<sup>2</sup> AND ANJANA SHARMA<sup>1</sup>**

<sup>1</sup>*Department of Biological Sciences, Rani Durgavati University, Jabalpur*

<sup>2</sup>*Department of Plant Physiology,*

*Jawaharlal Nehru Krishi Vishvavidyalaya, Jabalpur – 482 004, Madhya Pradesh, India*

*\*Corresponding author: mrathi26@rediffmail.com*

**ABSTRACT:** A study was conducted for assessing essential oil yield of the different clones (numbers 10, 413, 2040 and 2151) of *Eucalyptus tereticornis* green in clayey soil at Bheraghat village of Jabalpur district. The extraction was done from the leaves through hydro-distillation in a Clevenger type apparatus for 4 hour. The extract yield was recorded after drying the extract with anhydrous sodium sulphate and finally calculated by dividing net weight of powder in gram after extraction by the total weight of leaf powder in gram taken for extraction and multiplied by 100. The yield obtained under various clones was statistically analyzed for making comparisons. The results indicated that clone number 413 was noted to be significantly superior to others in this regard.

**Keywords:** *Aromatic plants, essential oils, clayey soil*

**Citation:** Rathi M, Upadhyaya SD, Sharma A (2015) Assessment of oil yield of different clones of *Eucalyptus tereticornis* obtained through hydro-distillation. *Indian J Trop Biodiv* 23(1): 91-93

---