

SANDAL TREE

'SOMATIC EMBRYOGENESIS'

- Mutations found in natural populations can be directly micropropagated for usage, in this way one can avoid the tissue and plant aging phenomena.

- Peter M.A. Tigerstedt and Anna Maija Niskanen Dept. of Applied Biology University of Helsinki, Helsinki Finland.

- Y.P.S Bajaj Biotech in Agriculture and forestry 44 transgenic trees, New York.

Economics :

After 7 years we can expect 20 kg of heartwood from each tree. In one hectare we will get 20 x 1000 (1000 trees per hectare) 200,00 kgs of wood. At present market price is 800/- per kg. This holds good for Deccan Plateau in South India. In Australia if we take only 40% produce. It amounts to 2 million Dollars per hectare. Company will charge only 10 dollars/tree including 5 years, free care of the trees.

TISSUE CULTURED SANDAL WOOD TREE

Table shows the difference between seed propagated and tissue cultured tree

MEASUREMENT OF CORE SAMPLES

| Characters | Tissue Cultured Tree | Natural Sandal Tree |
|----------------|----------------------|---------------------|
| 1. Age | 7 years old | 50 years old |
| 2. Core Sample | 8 cm. | 11 cm. |
| 3. Heart wood | 5 cm. | 7 cm. |
| 4. Sapwood | 3 cm. | 4 cm. |
| 5. Girth | 61 cm. | 68 cm. |



Dr. S.S. Sirohi is the Managing Director of Stella Bioculture Pvt. Ltd.

A Phycian by profession Dr. Sirohi is associated with many world organizations. He has inspired thousands of people to plant trees, and to work on biotech projects

Performance of tissue culture sandal trees.

| Age (Years) | Girth (Cms.) | Height (mt.) |
|-------------|--------------|--------------|
| 2 | 23 | 3.02 |
| 4 | 48 | 4.52 |
| 7 | 61 | 6.20 |
| 8 | 66 | 7.60 |

Your Local Contact

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