

Monitoring and evaluation of tissue culture grown plants of *Dendrocalamus asper* in different Forest Divisions of Madhya Pradesh.

Funding Agency: Mission Director, M.P. State Bamboo Mission, Bhopal.

Interim Finding/Activities:

The *Dendrocalamus asper* plants were distributed to forest department in 2017 there field performance were monitored in 2018. It was noticed that the survival percent of *Dendrocalamus asper* were 12.66% in Teekamgarh, 16.88% in Raisen and 0.66% in Alirajpur

The field performance of *Dendrocalamus asper* were not recorded due to unavailability of plants under field conditions in Ujjain, Indore, North Betul and South Seoni.

5. Production of *Dendrocalamus asper* through tissue culture technique.

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- Combination of 3.0mg/lit. BAP & IAA 0.1mg/lit., excellent morphogenetic response in terms of shoot induction and shoot multiplication were observed. Other combination and concentration of BAP & IAA showed moderate to poor morphogenetic response. On MS control medium no morphogenetic response were observed.
- *In-vitro* raised shoots were harvested and separated for root induction. Profuse root induction were observed when MS culture medium was supplemented with NAA 3.0mg/lit. and IAA 1.0mg/lit. In this combination NAA helped for induction of roots from shoots while IAA helped for more elongation of healthy shoots. 5000 *In-vitro* regenerated plantlets were shifted in 1:1:1 FYM for acclimatization and hardening.
- 5000 plants were produced and distributed to forest department.

