

Description:

Casuarina is a fast growing, light demanding species. It is very sensitive to excess soil moisture, fire and frost. It comes very well under well drained sandy soil and grows poorly in heavy soils and does not tolerate clay. In general it does not coppice. Rare instances of natural regeneration and root suckers are noticed. It improves soil fertility by virtue of its vigorous root nodulation with nitrifying bacteria.

Plan of activities	Activities to be followed
Selection of	Site specific Clones/Seedlings based on soil
Clopes/Seedlings	analysis
Site development	Ruch clearing. Disc ploughing or doop ripping on
Site development	- Bush cleaning, Disc ploughing of deep ripping of
	sites and land levelling
Espacement	- 15m X 15m
Planting Season	- June to September & Dec to Jan
Pit size	- 30 cm x 30 cm x30 cm
Manuring	- 250g of Vermicompost or 500g FYM per pit
Irrigation	- For once in every 10-15 days or Drip irrigation
Ploughing	- One rotavator ploughing to suppress weed
	growth
Weeding	1 hand weeding and soil working after ploughing
Fertiliser	40 -50 kg/ ha of nitrogen can be applied in 4
management	equal splits.
	- Super Phosphate @ 150 kg / ha and Muriate of
	Potash @ 100 kg / ha can be applied in four to
	five equal splits.
Causality 🗸 💙	- Causality replacement within one month after
replacement	planting
Pruning	- Branches are pruned flush to the stem of up to
	1/3rd of the stem height 6 months after
	planting.
II year maintenance	- Branches are pruned flush to the stem of up to
	1/3rd of the stem height
	- Application of Super Phosphate @ 150 kg / Ha
	and Muriate of Potash @ 100 kg /Ha can be
	applied in four to five equal splits.
III year maintenance	- Application of Super Phosphate @ 150 kg / Ha
	and Muriate of Potash @ 100 kg /Ha can be
	applied in four to five equal splits
Intercropping	- Agricultural crops like Sesame, Ground nut, etc.,
	can be cultivated as intercrop during the first
	year

Plantation Establishment and Maintenance Plan:

Pest and Disease management	
a) Bark feeding caterpillar	 Remove the feeding galleries and apply insecticide soaked cotton (15ml of dichlorvos) in the bore holes
b) Termite	- Application for neem based pesticides 2 ml/ litre
c) Wilt disease	 Remove the infected trees immediately Digging the trenches around the infected tree. Scrap the infected portion and spray with copper oxy chloride @ 0.25 %
d) Die back	- Removal of infected plant parts and spray with mancozeb or copper oxy chloride @ 0.25 %

Silvicultural and Management System:

Clear-Felling System:

The Clear-felling system is defined as a silvicultural system in which equal or equi-productive areas of mature crop are successively clear-felled in one operation to be regenerated, most frequently, artificially but sometimes naturally also. The clear-felled coupes will regenerated by planting of seedlings or clones. After planting the tending operations like Thinning, Pruning, Fertiliser application, Pest and Disease management, etc., will be carried out for better growth of plantation

Yield:

The average yield per ha in 3years rotation is vary from 75MT to 100MT for clonal plantations as compared to seedlings origin plantation i.e., 50MT to 65MT. However the yield may vary based on the site conditions and management of plantations.



