FOREST DEPARTMENT

Ref. No. 809/81/s2, Dated: 2-3-1981. Office of the Chief Conservator of Forests, A.P. Hyderabad.

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CIRCULAR NO. 6 /81.

Sub: - Forest Department - Improvement method of raising polythene bag seedlings of Eucalyptus-Circular Instructions-Issued.

At present seedlings of Eucalyptus are being raised as bag plants using varying sizes of tabular polythene bags closed at one end, and of 150-200 guage. The Polythene bag is out open and discarded at the time of planting the seedlings in the fields.

An improvem method where a polythene sheet is used for raising Eucalyptus seedlings, appears to have been developed in Malasia in recent years. (ral communication by Dr.Y.SlRao, Regional Economic F.A.C. Bangkok) This method has several advantages ever the conventional method. The procedure for raising seedlings under the new method is described below.

A 1000 guage polythene strip of about 20 cms. width and of a convenient length (2-3 Meters) is laid flat on the under salade in the nursery. On this strip of polythene sheat, sold normally used for fillings the bags but with a slig dly higher clay contents and address the bags but with a slig dly higher clay contents. tents and adequately moistened, is sprail uniformly to a thickness of about 3 Cms. Socollings of Euclyptus raised in primary beds and ready for pricking outminto bes relaid at intervals of 6-8 cms. at right angles to the length of strip with the collar of the seedling about 1 cm. inside the cage of the strip, and the entire root haid straight on the strip. The first seedling may be laid about 4-5 cms. from on and of the strip. About 2 cms. thick layer of same soil mixture than spread uniformly on the entire width of the polythene strip to cover the root of the seedling. Thereafter the strip of polythene with the sekl and the seedlings laid on it, is carefully relied like a mat from one end to another and and then tied with a string in the middle to areto another and and then tied with a string in the middle to prevent its unrolling. Thus each roll of polythone strip will contain between 25-30 seedlings in a concentratic spiral. Such a rolled strip containing 25-30 sondlings (kept erect like a bag plant) could be conveniently watered as a whole, and also shifted as a whole from time to time without undue disturbance to the root system of the individual seedlings. In order that the roots of the seedlings do not strike ground, these multi-plant rools could be snifted from place to place every 15 days as the roots start emerging from the open bottom and, which is in contact with the ground.

Because the bottom and is open there is free drainage of water, thus
preventing damping off and other fungal discusses of the seedlings.

After a few days under shade till the seedlings are fully established, the multi-plant bag rolls could be kept in the open and are watered and maintained like individual polythene seedlings, as per the current technicuq. When the seedlings are ready for planting out with the commencement of rains, (seedlings about 45 cms. tall on an average), the multi-plant bag rolls are taken to the field intact and at the planting site the rolled strip is gradually opened (unrolled) with each seedling taken out corefully with a ball of auth surce taken to the

already dug pits. Thus transport of the bag culture also becomes easy with a number of seedlings taken together with least disturbance to the seedling root systems and thus minimising cost on transport also.

After all the seedlings in the multi-plant roal are planted out, the polythene strip is cleaned of all left over soil, rolled up, and taken back to the nursery and kept in store for use in the following year.

This method stated to have been evolved in Malaysia a few years ago has thus a number of advantages and could be followed by the D Fos with advantage whereever Eucalyptus polybag seedlings are being raised. It is therefore ordered that during 1980-81 in every division where Eucalyptus bag culture is being raised for planting in 1981 rains, atleast 3000 or 5% whichever is lower of Eucalyptus seedlings should be raised following the method described about in order to know the problems if any in adopting this method on a large scale from 1981-1982, nursery season and to develop proper consistancy of soil mixtures to be used in this new method. The ideal size of the multiplant roll containing a concentic spiral of sandlings would have between 20-30 seedlings cach for ease of shifting and carrying in field. The actual spacing between the seedlings, the thickness of the soil layers above and below the seedlings, the composition of the soil, are all to be worked out to suit local conditions to obtain the best results. All Divl. For st Officers reising Eucalyptus are therefore requested to take personal interest in implementing the above method through issue of suitable instructions to their Range Officers concerned and personally supervising atleast the stage pricking out of the socdlings in to the multi-plant polythene rolls and their subsequent maintenance. This method could also be adlopted for raising scedlings of other species which do not produce branches while in the nursery. If it is proposed as topuso this technique in raising scedlings of other species also experimentally the DFOscars most welcome to do so, raising about 1000 seedlings of each species following the above method. If the saedlings are for free distribution for public under Make India Green Scheme, one rolled strip has to be allotted in full to an individual. If necessary rolled strips containing only 10-20 seedlings each could be reised, for allotment to individual farmers requiring only small numbers of seedlings.

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Addl. Chief Conservator of Forests (DPAP).