

CHAPTER 6

GREENBELT DEVELOPMENT

Although the forest loss due to the reservoir submergence and construction of other project appurtenances have been compensated as a part of compensatory afforestation. However, in addition to above, it is proposed to develop greenbelt around the perimeter of various project appurtenances, selected stretches along reservoir periphery, etc.

The general consideration involved while developing the greenbelt are:

- Trees growing up to 10 m or above in height with perennial foliage should be planted around various appurtenances of the proposed project.
- Planting of trees should be undertaken in appropriate encircling rows around the project site.
- Generally fast growing species should be planted.
- Since, the tree trunk is normally devoid of foliage up to a height of 3 m, it may be useful to have shrubbery in front of the trees so as to give coverage to this portion.

The species recommended for greenbelt development are given below:

A. Along the Roadside

1.	<i>Alstonia scholaris</i> R. Br.	Chatin
2.	<i>Albizia chinensis</i> Merr.	Siris
3.	<i>Bauhinia purpurea</i> L.	Kanchan
4.	<i>Cassia fistula</i> L.	Honour
5.	<i>Juglans regia</i>	Walnut
6.	<i>Pinus roxburghii</i> Sarg.	Chirpine
7.	<i>Populus euphratica</i> Oliv.	Poplar
8.	<i>Prunus persica</i> (L.) Batsch.	Beach
9.	<i>Thuja orientalis</i>	Thuja

B. Along the Infrastructure

1.	<i>Aegle marmelos</i> Corrêa	Bel
2.	<i>Alnus nepalensis</i> D. Don	Utis-Ass
3.	<i>Artocarpus chaplasi</i> Roxb.	Sangri-Ass
4.	<i>Illicium griffithii</i> Hook. f. & Thomson	Lishi
5.	<i>Mangifera indica</i> L.	Aam
6.	<i>Mallotus philippensis</i> (Lam.) Muell. Arg.	Sindoori
7.	<i>Malus sylvestris</i> Mill.	Apple
8.	<i>Pieris ovalifolia</i> D. Don.	Shak sheng
9.	<i>Pyrus pashia</i> Buch.-Ham. ex D. Don	Mehal

The plantation will be at a spacing of 2.5 x 2.5 m. About 1600 trees per ha will be planted. The maintenance of the plantation area will also be done by the project proponent. The treated wastewater and the components manure generated by solids waste will be used for the greenbelt development. The cost of plantation per hectare is estimated at Rs. 40,000 per ha which includes sapling cost, nursery cost, labour cost, cost of manure, weeding etc. It is proposed to afforest about 200 ha of land as a part of Greenbelt development. The total cost works out to be Rs. 80 lakhs.