

**Project:** Upgradation of Sitapur -Pratap Nagar of NH-330D in the State of Uttar Pradesh to Two/ Four Lane with Paved Shoulder Configuration (Package-01, From Ch: 0+000 to 38+853) under Forest Division Sitapur and Forest Division Hardoi.

### Plantation scheme for Roadside Plantation

The Tree planting or arboriculture is the most important component of landscaping. Functional planting applies to such problems as protection of slopes against erosion, screening of unsightly views, reducing headlight glare, providing shade in summer and so on. In most cases, such planting also improves the appearance of the road and enhances the natural landscape, planting for aesthetic effects is also by and large functional but goes beyond that to blend the road into the surrounding countryside and enhance the overall beauty.

The plantation on the available right of way (ROW) along the project road will be carried out as per IRC: SP:21-2009 for aesthetic enhancement of the project corridor and places of importance by planting selective tree species with ornamental shrubs and turfing with grass in view of climatic conditions of the area. Suitable tree species have been mentioned in **Table-2**. The cross section of the project road has been given in the last:


Since, it is widening of the existing highway for most of the length. Therefore, no space in the existing ROW is available for plantation. However, a realignment with a length of 5.7 km is proposed for which 45m land acquisition has been done, the formation width of the proposed bypass will be 18-20m. The plantation of approx. 583 trees at each side in one kilometre length will be done per IRC: SP:21-2009. Thus, approx.1166 trees will be planted in each km for about 5.0 km length. The budget of road side plantation is given below in Table- 1:

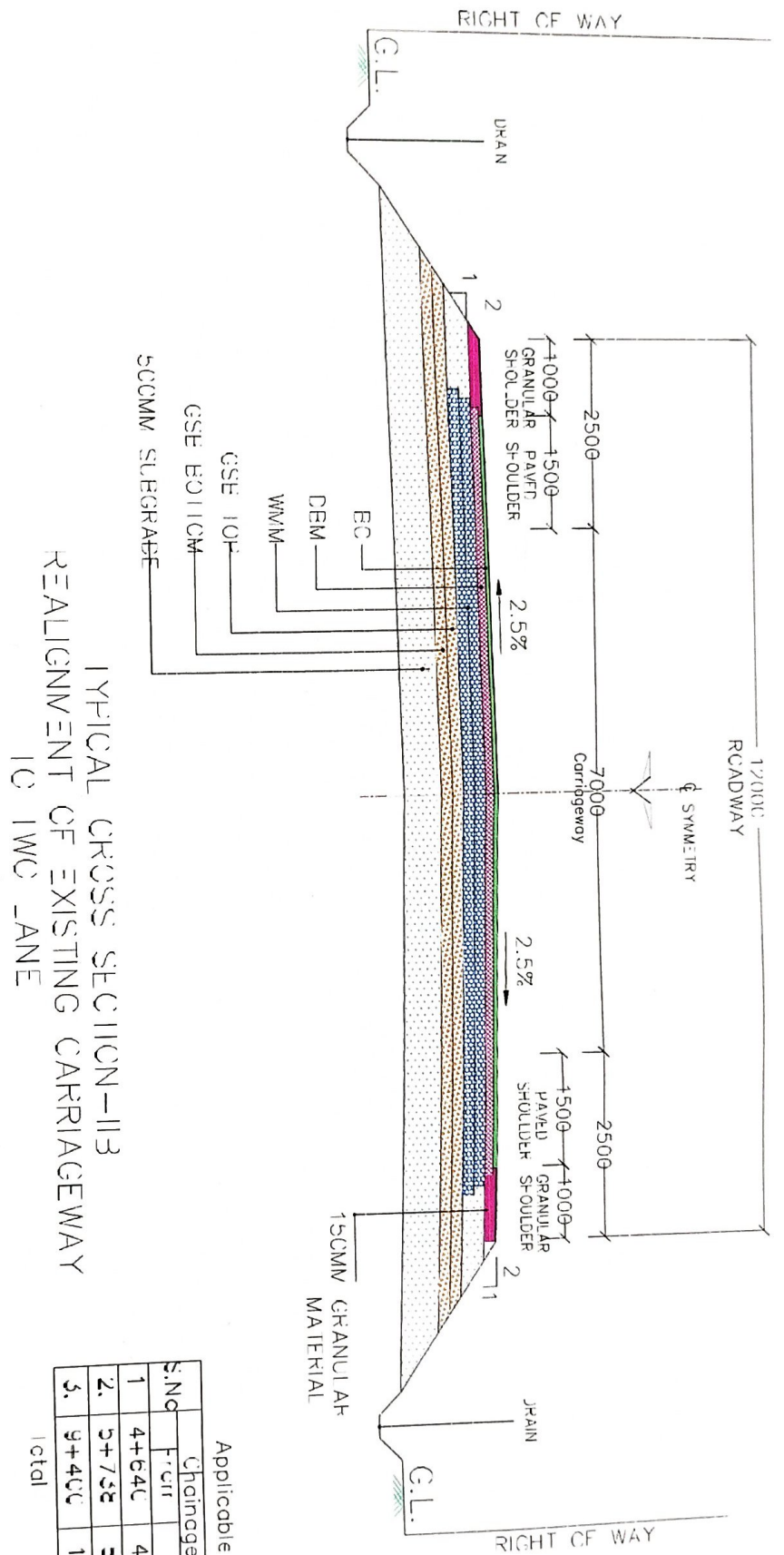
**Table-1: Budget for Road side Plantation**

S.N.	Particulars	Number	Rate (INR)	Cost (INR)
1	Sapling of trees	5830	15	87450
2	Transportation of sapling from nursery	LUMPSUM		50000
3	Labour cost for plantation	120	500	60000
4	Compost / Manure			20000
5	Tree Protection Guards	5830	1200	6996000
6	Maintenance cost including Gardener cost for 5 years	LUMPSUM		2500000
7	Miscellaneous			200000
	<b>Total</b>			<b>99,13,450</b>

**Table-2: Suitable Tree Species for Plantation**

S.N.	Botanical Name	Vernacular / Hindi Name
1	<i>Albizzia lebeck</i>	Siris
2	<i>Albizzia proeera</i>	Safed Siris
3	<i>Butea monosperma</i>	Palash
4	<i>Bauhinia variegata</i>	Kachnar (Pink)
5	<i>Cassia fistula</i>	Labernum/ Amaltash
6	<i>Cassia siamea</i>	Siamese Cassia
7	<i>Cedrela toona</i>	Toon
8	<i>Chikrassia tabularis</i>	Chikasi
9	<i>Dalbergia sissoo</i>	Sheesham
10	<i>Emblca officinalis</i>	Aonla
11	<i>Hardwickia pinnata</i>	Malabar Mahagani
12	<i>Ficus sp</i>	Peepal, Bagad, Pakur, etc
13	<i>Lagerstroemia thorii</i>	Pride of India/Jarul
14	<i>Lagerstroemea floriginea</i>	Pride of India/Jarul
15	<i>Mengifera indica</i>	Desi Mango
16	<i>Pterospermum acerifolium</i>	Kanak Champa
17	<i>Syzigium cumini</i>	Jamoon
18	<i>Polyalthea longifolia</i>	Ashok
19	<i>Gravellea robusta</i>	Silver Oak
20	<i>Terminalia belerica</i>	Bahera

  
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TYPICAL CROSS SECTION-113  
REALIGNMENT OF EXISTING CARRIAGEWAY  
TO TWO LANE

Applicable Chainage		
S.No	Chainage (Km)	
1	4+640	4+640 / 0.267
2.	5+738	5+738 / 2.562
3.	9+400	10+260 / 960
Total		2.562

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