Model estimate for Strip Plantation, Roadside & Canal Bank etc. Nature of soil = Loose & soft soil

No of seedlings/ Row Km =400 (at a spacing of 2.5 m)

No of rows/Km in each side of the road = 2

No. of seedlings required for 2 rows =400 x2 rows = 800 Nos.

No. of seedlings required for 1 Km having 2 rows in both the sides = 800Nos x 2= 1600 Species may be planted:

 Flowering trees = 40% [Casia fistula, (Sonalu), Casia simea (Minjiri), Delonex regia (Krishnachura), Alostronia scholaris (Chatian) Bahaunia species (Kanchan), Bombax cieba (Simul)]

2. Decorative plants = 20% [Anthocephalus cadamba (Kadam) , Debdaru, Casurina equsetifolia (Jhaw), Kushum]

Timber Yielding = 30 % [Dalbergia sissoo (Sissoo), Gmelina arborea (Gamar)
 Swietenia macrophylla (Mehagani) Albizzia lebbeck (Siris) , Tectona grandis (
 Segun) , Ailanthus grandis (Gakul) , Chukrasia tabularis (Chikrasi) & (Neem)

 Fruit yielding = 10% [Syzygium cumini (jam), Ziziphus jujuba (Kul) , Mangifera indica (Mango)

Sl No.	Particulars of work	Lab our required/ha of plantation (Man days for * 1600 seedlings)	Lab our required /100 seedlings (In man days)	of Lab our for 100 seedlings @ 75.00/ m.d	Cost of labour for 8000 seedlings i.e. 5.0ha
1	Survey & demarcation	1	0.0625	4.6875	375.00
2	Initial Cleaning planting site by cutting bushes, weeds & removing the same ***	16 625 m2 / m d	1.00	75.00	6000.00
3	Digging planting pits of size * 0.45 x 0.45 m x 0.30 m i.e 1.5ft x 1.5 ft x 1 ft= 2.25 cft x 1600 pits = 3600 cft/99 cft = 36 md (For loose & soft soil soil, digging earth for male 99 cft= 1 md)This is as per order No RD/P/NREGA/18-09/06 DATED 19TH October/2006	36 44 pits/ m d	2.25	168.75	13500.00
4.	Filling planting pits with basal dose application 20 days before planting (50 gram per pit)	16 100 pits/ m d	1.00	75.00	6000.00
5	Planting potted seedlings including carriage from nursery	20 80 plants/ m d	1.25	93.75	7500.00

SI No.	Particulars of work	Lab our required/ha of plantation (Man days for 1600 seedlings)	Lab our required /100 seedlings (In man days)	Total cost of Lab our for 100 seedlings @ 75.00/ m.d	Cost of labour for 8000 seedlings i.e. 5.0ha
7	Live fencing by sowing seeds of Babla/ Khair/Boga medulla/cuttings of Ipomea	12	0.75	56.25	4500.00
8	Filling up vacancies by planting potted seedlings	4	0.250	18.75	1500.00
9	1 st cleaning, mulching with fertilizer	16 100 pits/ md	1.00	75.00	6000.00
10	2 nd cleaning, mulching weeding etc.	14 114 pits/ m d	0.875	65.625	5250.00
11	3 rd cleaning, mulching weeding etc.	12 133 pits / m d	0.750	56.25	4500.00
12	Biological protection of plantation by engaging Mazdoor from August to January 6 months @ 1 labor/month **	180	11.25	843.75	67500.00
	Total labour cost =	327	20.4375	1532.8125	122625.00
	Material component		2 300 S		+
13	Cost of fertilizer N: P: K (10:26:26) @ 40 grams/pit-	64 kg			3200.00
14	Cost of insecticides	LS			2000.00
15	Cost of histories Cost of raising seedling (1600 + 10%)= 1760 x 2.0/- seedling x 5 ha				17600.00
16	Cost of seeds/ collection of Ipomea cuttings (5 ha)				2000.00
	Total=				147425.00

*Any other timber species can be planted according to the suitability & adoptability of

Cost of creation of 1.0 ha of plantation: Rs 147425/5 = 29485.00 including cost of material & cost seedlings.

*** Weeds are dense in North Bengal compare to the southern zone & central zone.

^{**} Beneficiary committee is to be formed before taking up the plantation in the proposed area & after three months the plantation is to be handed over to the beneficiary committee.

For creation of successful plantation the following are guidelines, which should be strictly followed.

- Planning for site selection & submission of initial proposal- up to February
- 2. Pit digging etc. December to March
- 3. Pit Filling- May, June after 2-3 showers.
- 4. Planting At onset Monsoon & by 31st July at the latest
- 5. 1st Mulching- after 21 days of Planting.
- 6. 2nd Mulching after 45 days of planting
- 7. 3rd Mulching after 65 days of planting
- 8. Digging well if required March to June

Precautions before application of Inorganic fertilizer/ Bio fertilizer.

- 1. Note that there is sufficient moisture in the field before applying Fertilizer.
- 2. Avoid hot hours while application of fertilizer.
- 3. Choose fair weather day for application of fertilizer.
- 4. Place fertilizer at least 8-10 cm below the soil surface.
- 5. Do not mix bio fertilizer with inorganic fertilizer.
- 6. Do not keep bio fertilizer directly in the sun keep it in cool place

The estimate is revised on the basis of Agro- Ecological classification of soil in West Bengal for digging pits for creation of plantation under NREGA & also as per schedule of rate issued from P& RD Department vide No-RD/P/NREGA/18S-09/06 dated 19th October/2006.

Technical Officer,

Panchyat & Rural Development Department