

Model Estimate for creation of 5.0 ha of Block Plantation

Nature of Soil = Loose & Soft Soil

Spacing: 2.5 m x 2.5 m .

No. of seedlings / ha : 1600 Nos.

Total area to be planted: 5.0 ha

Total No. of seedlings to be planted: 8000 Nos.

Wages of Labour : Rs 75/- per DL.

Species to be Planted: *Chukrasia tabularis* (Chikrasi) *Albizia lebbek* (Kalo siris) *Dalbergia Sissoo* (Sissoo), *Terminalia Arjuna* (Arjun), *Emblica officinalis* (Amlaki) , *Melia azadirach* (Neem), *Gmelina arborea* (Gamar), *Ailanthus grandis* (Gakul), *Casia simea* (Minjiri), *Anthocephalus cadamba* (Kadam) *Michelia champaca* (Champ) & *Swietenia macrophylla* (Mehagani) other species if any according to the suitability & adoptability of the locality.

Sl. No.	Nature of works	Lab our required/ ha of plantation (Man days for 2500 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 12500 seedlings i.e. 5.0ha
1	Survey & demarcation & Plantation of map.	1	0.0625	4.6875	375.00
2	Initial Cleaning of plantation area by cutting jungle & bushes as where necessary***	25 400 m ² / m d	1.5625	117.1875	937500
3	Alignment of pits	3	0.1875	14.0625	1125.00
4	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 19 TH October/2006	36 44 pits/ m d	2.25	168.75	13500.00
5	Filling up of planting pits with application fertilizer with mother soil (basal dose 25 gram)	16 145 pits/ m d	1.0	75.00	6000.00

Sl. No.	Nature of works	Lab our required/ha of plantation (Man days for 2500 seedlings)	Lab our required /100 seedlings (In man days)	Total cost of Lab our for 100 seedlings @ 70.00/ m.d	Cost of labour for 12500 seedlings i.e. 5.0ha
6	Live fencing by sowing seeds of Babla/ Khair/Boga medulla/cuttings of Ipomea	12	0.75	56.25	4500.00
7	Planting potted seedlings In pits including carriage of seedlings up to the site.	20 80 plants/ m d	1.25	93.75	7500.00
8	1 st time weeding cleaning & mulching including application of fertilizer (25 gram / plant)	16 100 pits/ m d	1.00	75.00	6000.00
9	2 nd time mulching including weeding cleaning properly.	14 114 pits / m d	0.875	65.625	5250.00
10	3 rd time mulching including weeding cleaning properly.	12 133 pits/ m d	0.75	56.25	4500.00
11	Filling vacancies with potted seedlings from nursery to plantation site.	2	0.125	9.375	750.00
12	Application of insecticides including carriage of water & mixing	3	0.1875	14.0625	1125.00
13	Watching over plantation ** for 6months from August to January Over 30 days @ 1 labor/ month x 6 months	180	11.25	843.75	67500.00
	Total	340	21.25	1593.75	127500.00

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

** Beneficiary committee is to be formed before taking up the plantation in the proposed area & after 6 months the plantation is to be handed over to the beneficiary committee. Cost of creation of 1.0 ha of plantation = Rs. 127500.00/5= Rs 25500.00

Material Component:

- a) Cost of fertilizer @ 40 grams per plant, the total fertilizer required over 1600 seedlings = 64 Kg.
b) Cost of fertilizer @ Rs 10.00 per Kg= 80 Kg x10.00 = Rs. 640.00
c) Cost of insecticides = Rs. 400.00
Rs 1040.00
- e) Cost of seeds for live fencing & Collection of cuttings of Ipomea = Rs 400.00

Wage Component:

- a) Number of Man days = 340
b) Cash Component = 340 X Rs. 75.00 = Rs. 25500.00
c) Material Component = Rs 1440.00
Total = Rs. 26940.00

Cost of seedlings (1600 Nos.+ 10% insurance)
= 1760 Nos @ Rs. 2.0 / seedling = Rs. 3520.00

Grand Total = 30460.00

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

1. 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.

*** The weeds are more in North Bengal compare to other districts of West Bengal

2
05/11/2008
Technical Officer,

Panchyat & Rural Development Department