Estimate and Details of CA in respect of Erect of Tubular Poles and RCC Muffs to Sling Defence Optical Fiber Cable (OFC) for Diversion of 0.8274 Ha of Forest Land under Kurseong Forest Division.

Spacing= 2 m X 2m

Species : North Bengal Hills Miscellaneous

CA Area under Kurseong Forest Division				
Sl no	Range	Beat	Block/Comptt	Area in Ha
1	Sevoke	Kalijhora	Mahaldiram-IV	0.8274
			Total	**0.8274**

(I) Advance Work

Sl no	Particulars of works	Period	Labour	Materials
1	Preparation of Mother bed	Dec	1	
2	Collection of seeds/Purchase of seeds	Dec-June	5	
3	cost of big polypots in field nurseries/extra hycopots in central nurseries.			1250
4	Cost of sand,compost and top soil			7500
5	sowing of seeds in mother bed	Dec-June	5	
6	Transplanting of seedlings to polypots/hycopots	Jan-Jul	15	
7	weeding,forking,sorting,shifting,watering,pesticide and nutrients application	17 months	51	2500
	Total Labour Component @ Rs 257/-		**19789**	
	Total Material Component			**11250**
	Total for Advance Work / Ha			**31039**

(II) Creation of Plantation

S.No	Particulars of works	Period	Labour (md)	Material cost(Rs.)
1	Survey and Demarcation of plantation area including GPS survey	Nov-Dec	1	
2	Making soil profile for 2 ft X2 ftX 5 ft at a random point,collection of soil samples for the analysis of	Nov-Dec	3	
3	Preparation of site and 1st round of preparatory cleaning of all weeds(controlled burning/ manual and mechanical Cleaning and burial for composting/spraying of non selective systemic herbicides)	Dec-Jan	30	
4	Alignment of planting lines and stacking the pit position	Mar-Apr	4	
5	Cost of digging pits	Mar-Apr	33	
6	Maintenance of seedlings in nursery (sorting,shifting, weeding,forking, hardening, spraying of	Mar-May	4	
7	Cost of carriage of seedlings from nursery to plantation site	Mar-May	18	
8	2nd round of preparatory Cleaning of all weeds(controlled burning/ manual and mechanical	Apr-May	8	
9	Filling of pits with application of organic manures,biofertilizers and biocontrol agents inside the pits	Apr-May	4	1200
10	Planting of seedlings with staking/Dibbling of Sal seeds,seed cost with cleaning of weeds	May-Jun	18	
11	1st time cleaning with soil mulching/earthing up with min 1 ft radius earth basins with application	May-Jun	18	
12	Spraying of Pesticides and nutrients on the plants	May-Jun	1	1000
13	2nd time cleaning with soil mulching/earthing up with min 1 ft radius earth basins with application	Jul-Aug	15	800
14	3rd time cleaning with soil mulching/earthing up with min 1 ft radius earth basins with application	Sep-Oct	12	600
15	4th time cleaning with soil mulching/earthing up with min 1 ft radius earth basins	Dec-Jan	8	
16	5th time cleaning with soil mulching/earthing up with min 1 ft radius earth basins	Feb-Mar	6	
17	Watch and ward	Jun-Mar	18	
18	Creation of fireline-min 1.5 m all along the periphery and 1.2 m within the plantation	Dec-Jan	5	
19	Signages			1000
20	Other contingencies			52
	Total Labour Component @ Rs 257		**52942**	
	Total Material Component			**4652**
	Total for Creation Work / Ha			**57594**

1st year maintenance of Plantation

S.No	Particulars of works	Period	Labour (md)	Material cost(Rs.)
1	Infilling with 2 years old tall seedlings including transportation cost	Apr-May	10	
2	1st time cleaning with soil mulching/earthing up with min 1 ft radius earth basins with application	May-Jun	20	
3	Spraying of Pesticides and nutrients on the plants	May-Jun	3	1000
4	2nd time cleaning with soil mulching/earthing up with min 1 ft radius earth basins with application	Jul-Aug	12	1000
5	3rd time cleaning with soil mulching/earthing up with min 1 ft radius earth basins with application	Sep-Oct	8	1000
6	4th time cleaning with soil mulching/earthing up with min 1 ft radius earth basins	Dec-Jan	8	
7	Watch and ward	Apr-Mar	24	
8	Creation of fireline-min 1.5 m all along the periphery and 1.2 m within the plantation	Dec-Jan	4	
9	Repair of Signages			1000
10	Other contingencies			159
	Total Labour Component @ Rs 295/-		**26255**	
	Total Material Component			**4159**
	Total for 1st year Maint Work / Ha			**30414**

2nd Year maintenance of Plantation

	Particulars of works	Period	Labour (md)	Material cost(Rs.)
1	Infilling with 2 years old tall seedlings including transportation cost	Apr-May	5	
2	1st time cleaning with soil mulching/earthing up	May-Jun	20	
3	2nd time cleaning with soil mulching/earthing up	Sep-Oct	12	
4	3rd time cleaning with soil mulching/earthing up	Dec-Jan	8	
5	Watch and ward	Apr-Mar	24	
6	Fireline-min 1.5 m all along the periphery and 1.2 m within the plantation	Dec-Jan	4	
7	Other contingencies			908
	Total Labour Component @ Rs 339/-		**24747**	
	Total Material Component			**908**
	Total for 2nd year Maint Work / Ha			**25655**

3rd Year maintenance of Plantation

S.No	Particulars of works	Period	Labour (md)	Material cost(Rs.)
1	Infilling with 2 years old tall seedlings including transportation cost	Apr-May	5	
2	1st time cleaning with soil mulching/earthing up	May-Jun	15	
3	2nd time cleaning with soil mulching/earthing up	Dec-Jan	15	
4	Watch and ward	Apr-Mar	18	
5	Fireline-min 1.5 m all along the periphery and 1.2 m within the plantation	Dec-Jan	4	
6	Other contingencies			667
	Total Labour Component @ Rs 390/-		**22230**	
	Total Material Component			**667**
	Total for 3rd year Maint Work / Ha			**22897**

4th Year maintenance of Plantation

S.No	Particulars of works	Period	Labour (md)	Material cost(Rs.)
1	Infilling with 2 years old tall seedlings including transportation cost	Apr-May	5	
2	1st time cleaning with soil mulching/earthing up	May-Jun	15	
3	2nd time cleaning with soil mulching/earthing up	Dec-Jan	15	
4	Watch and ward	Apr-Mar	12	
5	Fireline-min 1.5 m all along the periphery and 1.2 m within the plantation	Dec-Jan	4	
6	Other contingencies			686
	Total Labour Component @ Rs 448/-		**22848**	
	Total Material Component			**686**
	Total for 4th year Maint Work / Ha			**23534**

5th Year maintenance of Plantation				
S.No	Particulars of works	Period	Labour (md)	Material cost(Rs.)
1	Infilling with 2 years old tall seedlings including transportation cost	Apr-May	5	
2	1st time cleaning with soil mulching/earthing up	May-Jun	15	
3	2nd time cleaning with soil mulching/earthing up	Dec-Jan	15	
4	Watch and ward	Apr-Mar	12	
5	Fireline-min 1.5 m all along the periphery and 1.2 m within the plantation	Dec-Jan	4	
6	Other contingencies			788
	Total Labour Component @ Rs 515/-		**26265**	
	Total Material Component			**788**
	Total for 5th year Maint Work / Ha			**27053**

6th Year maintenance of Plantation				
S.No	Particulars of works	Period	Labour (md)	Material cost(Rs.)
1	Fire protection (Fire watcher)	Jan-Mar	30	
2	Mulching and repairing of fench etc	Dec-May	5	
3	Other contingencies			165
	Total Labour Component @ Rs 592/-		**20720**	
	Total Material Component			**622**
	Total for 6th year Maint Work / Ha			**21342**

7th Year maintenance of Plantation				
S.No	Particulars of works	Period	Labour (md)	Material cost(Rs.)
1	Fire protection (Fire watcher)	Jan-Mar	30	
2	Mulching and repairing of fench etc	Dec-May	5	
3	Other contingencies			714
	Total Labour Component @ Rs 680/-		**23800**	
	Total Material Component			**714**
	Total for 7th year Maint Work / Ha			**24514**

8th Year maintenance of Plantation				
S.No	Particulars of works	Period	Labour (md)	Material cost(Rs.)
1	Fire protection (Fire watcher)	Jan-Mar	30	
2	Mulching and repairing of fench etc	Dec-May	5	
3	Other contingencies			821
	Total Labour Component @ Rs 782/-		**27370**	
	Total Material Component			**821**
	Total for 8th year Maint Work / Ha			**28191**

9th Year maintenance of Plantation				
S.No	Particulars of works	Period	Labour (md)	Material cost(Rs.)
1	Fire protection (Fire watcher)	Jan-Mar	30	
2	Mulching and repairing of fench etc	Dec-May	5	
3	Other contingencies			944
	Total Labour Component @ Rs 899/-		**31465**	
	Total Material Component			**944**
	Total for 9th year Maint Work / Ha			**32409**

10th Year maintenance of Plantation				
S.No	Particulars of works	Period	Labour (md)	Material cost(Rs.)
1	Fire protection (Fire watcher)	Jan-Mar	30	
2	Mulching and repairing of fence etc	Dec-May	5	
3	Other contingencies			1086
	Total Labour Component @ Rs 1034/-		**36190**	
	Total Material Component			**1086**
	Total for 10th year Maint Work / Ha			**37276**

ABSTRACT				
Sl No	Particulars of Work	Ha	@	Amount(Rs)
1	Advance Work	0.8274	31039	25,682
2	Creation Work	0.8274	57594	47,653
3	SMC work within the CA area@ 15% of Creation Amount	0.8274	8639.1	7,148
4	1st Year Maint Work	0.8274	30414	25,165
5	2nd Year Maint Work	0.8274	25655	21,227
6	3rd Year Maint Work	0.8274	22897	18,945
7	4th Year Maint Work	0.8274	23534	19,472
8	5th Year Maint Work	0.8274	27053	22,384
9	6th Year Maint Work	0.8274	21342	17,658
10	7th Year Maint Work	0.8274	24514	20,283
11	8th Year Maint Work	0.8274	28191	23,325
12	9th Year Maint Work	0.8274	32409	26,815
13	10th Year Maint Work	0.8274	37276	30,842
14	Cost of barbed wire fence	LS		3,16,080
15	Development or Improvement of Nursery	LS		5,00,000
Total				11,22,679

Rupees Eleven Lakhs Twenty Two Thousand Six Hundred Ninety Nine

Divisional Forest Officer
Kurseong Division