

Estimate and Details of CA for Construction of Sivoke-Rangpoo New BG Railway Line Project for Diversion of 0.1863 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	Ghoshpur	Phansidewa	Pathar Hirhira	0.3726
Total				0.3726

(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 284/-		21868	
	Total Material Component			11250
	Total for Advance Work / Ha			33118

(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 soil quality	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 nutrients and	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 Cleaning and burial for	Apr-May	8	
9	Filling of pits with application of organic manures,biofertilizers and biocontrol agents inside the pits with top soil	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 of organic	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 of organic	Jul-Aug	15	800
14	3rd time cleaning with soil mulching/earthing up with min 1 ft radius earth basins with application of organic	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 284		58504	
	Total Material Component			4652
	Total for Creation Work / Ha			63156

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 of organic	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 of organic	Jul-Aug	12	1000
5	3rd time cleaning with soil mulching/earthing up with min 1 ft radius earth basins with application of organic	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 327/-		29103	
	Total Material Component			4159
	Total for 1st year Maint Work / Ha			33262

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 376/-		27448	
	Total Material Component			908
	Total for 2nd year Maint Work / Ha			28356

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 432/-		24624	
	Total Material Component			667
	Total for 3rd year Maint Work / Ha			25291

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 497/-		25347	
	Total Material Component			686
	Total for 4th year Maint Work / Ha			26033

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 572/-		29172	
	Total Material Component			788
	Total for 5th year Maint Work / Ha			29960

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 658/-		23030	
	Total Material Component			622
	Total for 6th year Maint Work / Ha			23652

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 757/-		26495	
	Total Material Component			714
	Total for 7th year Maint Work / Ha			27209

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 871/-		30485	
	Total Material Component			821
	Total for 8th year Maint Work / Ha			31306

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 1002/-		35070	
	Total Material Component			944
	Total for 9th year Maint Work / Ha			36014

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 1152/-		40320	
	Total Material Component			1086
	Total for 10th year Maint Work / Ha			41406

ABSTRACT				
SI No	Particulars of Work	Ha	@	Amount(Rs)
1	Advance Work	0.3726	33118	12,340
2	Creation Work	0.3726	63156	23,532
3	SMC work within the CA area@ 15% of Creation Amount	0.3726	9473.4	3,530
4	1st Year Maint Work	0.3726	33262	12,393
5	2nd Year Maint Work	0.3726	28356	10,565
6	3rd Year Maint Work	0.3726	25291	9,423
7	4th Year Maint Work	0.3726	26033	9,700
8	5th Year Maint Work	0.3726	29960	11,163
9	6th Year Maint Work	0.3726	23652	8,813
10	7th Year Maint Work	0.3726	27209	10,138
11	8th Year Maint Work	0.3726	31306	11,665
12	9th Year Maint Work	0.3726	36014	13,419
13	10th Year Maint Work	0.3726	41406	15,428
14	Cost of barbed wire/energized fence	LS		1,75,000
15	Development or Improvement of Nursery	LS		2,00,000
Total				5,27,109

Rupees Five Lakh Twenty Seven Thousand One Hundred Nine) only

Haari 22/08/22
 Divisional Forest Officer
 Kurseong Division