

**Estimate and Details of CA for Installation of Mobile Tower in favour of Reliance Jio Infocom Ltd for
Diversion of 0.0144 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	Kurseong	Dow-Hill	Dhobijhora	0.0288
Total				0.0288

(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 271/-		20867	
	Total Material Component			11250
	Total for Advance Work / Ha			32117

(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	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	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	Apr-May	8	
9	Filling of pits with application of organic manures,biofertilizers and biocontrol agents inside the pits with	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	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	Jul-Aug	15	800
14	3rd time cleaning with soil mulching/earthing up with min 1 ft radius earth basins with application of	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 271		55826	
	Total Material Component			4652
	Total for Creation Work / Ha			60478

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	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	Jul-Aug	12	1000
5	3rd time cleaning with soil mulching/earthing up with min 1 ft radius earth basins with application of	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 312/-		27768	
	Total Material Component			4159
	Total for 1st year Maint Work / Ha			31927

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 359/-		26207	
	Total Material Component			908
	Total for 2nd year Maint Work / Ha			27115

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 413/-		23541	
	Total Material Component			667
	Total for 3rd year Maint Work / Ha			24208

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 475/-		24225	
	Total Material Component			686
	Total for 4th year Maint Work / Ha			24911

<u>5th Year maintenance of Plantation</u>				
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 546/-		27846	
	Total Material Component			788
	Total for 5th year Maint Work / Ha			28634

<u>6th Year maintenance of Plantation</u>				
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 628/-		21980	
	Total Material Component			622
	Total for 6th year Maint Work / Ha			22602

<u>7th Year maintenance of Plantation</u>				
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 722/-		25270	
	Total Material Component			714
	Total for 7th year Maint Work / Ha			25984

<u>8th Year maintenance of Plantation</u>				
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 830/-		29050	
	Total Material Component			821
	Total for 8th year Maint Work / Ha			29871

<u>9th Year maintenance of Plantation</u>				
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 955/-		33425	
	Total Material Component			944
	Total for 9th year Maint Work / Ha			34369

<u>10th Year maintenance of Plantation</u>				
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 1098/-		38430	
	Total Material Component			1086
	Total for 10th year Maint Work / Ha			39516

Sl No	Particulars of Work	Ha	@	Amount(Rs)
1	Advance Work	0.0288	32117	925
2	Creation Work	0.0288	60478	1,742
3	SMC work within the CA area@ 15% of Creation Amount	0.0288	9071.7	261
4	1st Year Maint Work	0.0288	31927	919
5	2nd Year Maint Work	0.0288	27115	781
6	3rd Year Maint Work	0.0288	24208	697
7	4th Year Maint Work	0.0288	24911	717
8	5th Year Maint Work	0.0288	28634	825
9	6th Year Maint Work	0.0288	22602	651
10	7th Year Maint Work	0.0288	25984	748
11	8th Year Maint Work	0.0288	29871	860
12	9th Year Maint Work	0.0288	34369	990
13	10th Year Maint Work	0.0288	39516	1,138
14	Cost of barbed wire/energized fence	LS		1,00,000
15	Development or Improvement of Nursery	LS		1,00,000
Total				2,11,255

Rupees Two Lakh Eleven Thousand Two Hundred Fifty Five) only

Hare 18/07/22
Divisional Forest Officer
Kurseong Division