

**Estimate and Details of CA for Laying of OFC 4G Services in favour of Reliance Jio Infocom Ltd for
Diversion of 0.224 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	Ghoshpu ur	Phanside wa	Pathar Hirhira	0.4500
Total				0.4500

(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	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	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

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 546/-		27846	
	Total Material Component			788
	Total for 5th year Maint Work / Ha			28634

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 fence 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

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 fence 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

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 fence 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

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 fence 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

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 1098/-		38430	
	Total Material Component			1086
	Total for 10th year Maint Work / Ha			39516

ABSTRACT				
Sl No	Particulars of Work	Ha	@	Amount(Rs)
1	Advance Work	0.45	32117	14,453
2	Creation Work	0.45	60478	27,215
3	SMC work within the CA area@ 15% of Creation Amount	0.45	9071.7	4,082
4	1st Year Maint Work	0.45	31927	14,367
5	2nd Year Maint Work	0.45	27115	12,202
6	3rd Year Maint Work	0.45	24208	10,894
7	4th Year Maint Work	0.45	24911	11,210
8	5th Year Maint Work	0.45	28634	12,885
9	6th Year Maint Work	0.45	22602	10,171
10	7th Year Maint Work	0.45	25984	11,693
11	8th Year Maint Work	0.45	29871	13,442
12	9th Year Maint Work	0.45	34369	15,466
13	10th Year Maint Work	0.45	39516	17,782
14	Cost of barbed wire/energized fence	LS		1,75,000
15	Development or Improvement of Nursery	LS		2,90,000
Total				6,40,862

Rupees Six Lakh Forty Thousand Eight Hundred Sixty Two) only

Hani 28/06/22
 Divisional Forest Officer
 Kurseong Division