

**Estimate and Details of CA for Laying of OFC 4G Services in favour of Reliance Jio Infocom Ltd for  
Diversion of 0.764 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	Phansidawa	Pathar Hirhira	1.5300
<b>Total</b>				<b>1.5300</b>

**(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
	<b>Total Labour Component @ Rs 271/-</b>		<b>20867</b>	
	<b>Total Material Component</b>			<b>11250</b>
	<b>Total for Advance Work / Ha</b>			<b>32117</b>

**(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
	<b>Total Labour Component @ Rs 271</b>		<b>55826</b>	
	<b>Total Material Component</b>			<b>4652</b>
	<b>Total for Creation Work / Ha</b>			<b>60478</b>



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
	<b>Total Labour Component @ Rs 312/-</b>		<b>27768</b>	
	<b>Total Material Component</b>			<b>4159</b>
	<b>Total for 1st year Maint Work / Ha</b>			<b>31927</b>

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
	<b>Total Labour Component @ Rs 359/-</b>		<b>26207</b>	
	<b>Total Material Component</b>			<b>908</b>
	<b>Total for 2nd year Maint Work / Ha</b>			<b>27115</b>

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
	<b>Total Labour Component @ Rs 413/-</b>		<b>23541</b>	
	<b>Total Material Component</b>			<b>667</b>
	<b>Total for 3rd year Maint Work / Ha</b>			<b>24208</b>

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
	<b>Total Labour Component @ Rs 475/-</b>		<b>24225</b>	
	<b>Total Material Component</b>			<b>686</b>
	<b>Total for 4th year Maint Work / Ha</b>			<b>24911</b>



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
	<b>Total Labour Component @ Rs 546/-</b>		<b>27846</b>	
	<b>Total Material Component</b>			<b>788</b>
	<b>Total for 5th year Maint Work / Ha</b>			<b>28634</b>

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
	<b>Total Labour Component @ Rs 628/-</b>		<b>21980</b>	
	<b>Total Material Component</b>			<b>622</b>
	<b>Total for 6th year Maint Work / Ha</b>			<b>22602</b>

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
	<b>Total Labour Component @ Rs 722/-</b>		<b>25270</b>	
	<b>Total Material Component</b>			<b>714</b>
	<b>Total for 7th year Maint Work / Ha</b>			<b>25984</b>

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
	<b>Total Labour Component @ Rs 830/-</b>		<b>29050</b>	
	<b>Total Material Component</b>			<b>821</b>
	<b>Total for 8th year Maint Work / Ha</b>			<b>29871</b>

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
	<b>Total Labour Component @ Rs 955/-</b>		<b>33425</b>	
	<b>Total Material Component</b>			<b>944</b>
	<b>Total for 9th year Maint Work / Ha</b>			<b>34369</b>

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
	<b>Total Labour Component @ Rs 1098/-</b>		<b>38430</b>	
	<b>Total Material Component</b>			<b>1086</b>
	<b>Total for 10th year Maint Work / Ha</b>			<b>39516</b>



ABSTRACT				
Sl No	Particulars of Work	Ha	@	Amount(Rs)
1	Advance Work	1.53	32117	49,139
2	Creation Work	1.53	60478	92,531
3	SMC work within the CA area@ 15% of Creation Amount	1.53	9071.7	13,880
4	1st Year Maint Work	1.53	31927	48,848
5	2nd Year Maint Work	1.53	27115	41,486
6	3rd Year Maint Work	1.53	24208	37,038
7	4th Year Maint Work	1.53	24911	38,114
8	5th Year Maint Work	1.53	28634	43,810
9	6th Year Maint Work	1.53	22602	34,581
10	7th Year Maint Work	1.53	25984	39,756
11	8th Year Maint Work	1.53	29871	45,703
12	9th Year Maint Work	1.53	34369	52,585
13	10th Year Maint Work	1.53	39516	60,459
14	Cost of barbed wire/energized fence	LS		5,00,000
15	Development or Improvement of Nursery	LS		5,00,000
Total				15,97,930

Rupees Fifteen Lakh Ninety Seven Thousand Nine Hundred Thirty) only

*Hari* 28/06/22  
 Divisional Forest Officer  
 Kurseong Division