

**Summary of Plantation & Nursery Cost for 600 trees / 0.6 Ha of Road Side  
Plantation for Optical Fibre Cable laying from Samanda to Nengkhra via  
Williamnagar through Rongrenggiri Reserve Forest by diverting 0.333 Ha -  
FP/ML/OFC/50391/2020**

Items	Quantity	Unit
Area of Plantation	0.6	Ha
No of Saplings to be planted	600	Saplings
Approved Plantation & Nursery CA Scheme	2564	Mandays Per Ha
Laying of Grazing proof bamboo basket around the saplings to protect the Road Side plantations, inclusive of material cost	2	Mandays per Saplings
Wage Rate	₹ 343	
Total Cost	₹ 9,39,272	

  
 Divisional Forest Officer  
 East & North Carol Hill (F) Division  
 Williamnagar

## NORMS FOR UNDERTAKING COMPENSATORY AFFORESTATION SCHEMES

**Wage Rate = Current Wage Rate (notified wage rate by labour department on  
the date of payment by User Agency)**

### **PRELIMINARY WORKS**

Sl. No.	Item of works	Mandays	Mandays considering annual increase of 12% in wage rate
1	Survey and demarcation including fixing of boundary marks at strategic points	2.00	2.00
2	Jungle clearance, burning, land preparation including staking, pit digging, hoeing, etc	24.00	24.00
3	<b><u>Fencing</u></b> With 3 strand barbed wire and wooden fencing posts including cost of staples, fixing, fitting, etc, complete	64.00	64.00
4	Cost of collection of seeds	5.00	5.00
5	Construction of camp hut and inspection paths	4.00	4.00
6	Purchase of tools and plants	2.00	2.00
7	Supervisory staff to be engaged on casual basis from amongst the local people	12.00	12.00
8	Raising of polypot nursery for 2 beds per hectare to cover for mortality rate of plants in the plantation site	61.00	61.00
9	Provision for signboards, documentation, upkeep of records and other miscellaneous works	30.00	30.00
	<b>Sub Total in the Preliminary year</b>	<b>204.00</b>	<b>204.00</b>
10	<b>Soil &amp; Moisture conservation measures in the plantation area @ 15%</b>	<b>30.60</b>	<b>30.60</b>
11	<b>Monitoring &amp; Evaluation @ 2%</b>	<b>4.08</b>	<b>4.08</b>

12	Adding 15% contingency due to escalation cost and revision of wages rate etc.	35.80	35.80
	<b>Total in the preliminary year</b>	<b>274.48</b>	<b>274.48</b>

**CREATION AND 1<sup>ST</sup> YEAR MAINTENANCE**

**Wage Rate is**

**1.12 times current wage  
rate**

Sl. No.	Item of works	Mandays	Mandays considering annual increase of 12% in wage rate
1	Planting of nursery seedlings including carriage from nursery centres to plantation sites and proper ramming after planting etc.	20.00	22.40
2	Cost of manure and bio- fertilizer	40.00	44.80
3	Mulching and 3 times weeding	50.00	56.00
4	Fire protection during dry and windy season (i) Wages of fire watchers from November of the creation year to April of the following year	10.00	11.20
	(ii) Fire line clearance including controlled burning form November in the creation year to April of the following year	10.00	11.20
5	2 <sup>nd</sup> year maintenance of poly pot nursery	3.20	3.58
6	Maintenance of camp hut, signboard, documentation, protection from grazing, upkeep of records and other miscellaneous works	30.00	33.60
7	Supervision cost	12.00	13.44
	<b>Sub total</b>	<b>175.20</b>	<b>196.22</b>

8	Soil & Moisture conservation measures in the plantation area @ 15% of total cost of 1 <sup>st</sup> year creation	26.28	29.43
9	Monitoring & Evaluation @ 2%	3.50	3.92
10	Adding 8.5% being contingency due to escalation cost of materials etc. after ascertaining the rate of interest due to accrue from CA money to be deposited by User Agency.	17.42	19.51
	Total for 1 <sup>st</sup> year creation and maintenance	222.41	249.10

### SECOND YEAR OF PLANTATION

Wage Rate is

1.26 times current wage rate

Sl. No.	Item of works	Mandays	Mandays considering annual increase of 12% in wage rate
1	Vacancy filling by one year old seedlings in mortality areas	5.00	6.30
2	Climber cutting and weedings 3 times	45.00	56.70
3	Fire Protection	10.00	12.60
	(i) Wages of fire watchers (ii) Fire line clearance including controlled burning	10.00	12.60
4	Maintenance of camp hut, signboard, inspection paths, fencing, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	37.80
5	Supervision cost	12.00	15.12
	<b>Sub total</b>	<b>112.00</b>	<b>141.12</b>
6	Provision for soil & moisture conservation measures in the plantation area @ 15%	16.80	21.17

7	Monitoring & Evaluation @ 2%	2.24	2.82
	<b>Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accrue from CA money to be deposited by User Agency.</b>	11.14	14.03
	<b>Total in the 2<sup>nd</sup> year</b>	142.18	179.14

### THIRD YEAR OF PLANTATION

Wage Rate is

**1.41 times current wage rate**

Sl. No.	Item of works	Mandays	Mandays considering annual increase of 12% in wage rate
1	Vacancy filling wherever necessary	4.00	5.64
2	Climber cutting and weeding 3 times	45.00	63.45
3	<b><u>Fire Protection</u></b>		
	(i) Wages of fire watchers	10.00	14.10
	(ii) Fire line clearance including controlled burning	10.00	14.10
4	Maintenance of camp hut, signboard, fencing, inspection paths, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	42.30
5	Supervision cost	12.00	16.92
	<b>Sub total</b>	<b>111.00</b>	156.51
6	Provision for soil & moisture conservation measures in the plantation area @ 15%	16.65	23.48
7	Monitoring & Evaluation @ 2%	2.22	3.13
8	<b>Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accrue from CA money to be deposited by User Agency.</b>	11.04	15.56

<b>Total in the 3<sup>rd</sup> year</b>	140.91	198.68
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#### **FOURTH YEAR OF PLANTATION**

**Wage Rate is**

**1.58 times current wage  
rate**

<b>Sl. No.</b>	<b>Item of works</b>	<b>Mandays</b>	<b>Mandays considering annual increase of 12% in wage rate</b>
1	Vacancy filling wherever necessary	2.00	3.16
2	Climber cutting and three times weeding	45.00	71.10
3	(i) Wages of fire watchers	10.00	15.80
	(ii) Fireline clearance including controlled burning, etc	10.00	15.80
4	Maintenance of camp hut, signboard, fencing, inspection paths, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	47.40
5	Supervision cost	12.00	18.96
	<b>Sub total</b>	<b>109.00</b>	<b>172.22</b>
6	Provision for soil & moisture conservation measures in the plantation area @ 15%	16.35	25.83
7	Monitoring & Evaluation @ 2%	2.18	3.44
8	<b>Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accrue from CA money to be deposited by User Agency.</b>	10.84	17.13
	<b>Total in the 4<sup>th</sup> year</b>	138.37	218.62

### FIFTH YEAR OF PLANTATION

**Wage Rate is**

**1.77 times current wage  
rate**

Sl. No.	Item of works	Mandays	Mandays considering annual increase of 12% in wage rate
	Climber cutting including silvicultural works and two times weedings	30.00	53.10
2	(i) Wages of fire watchers	10.00	17.70
	(ii) Maintenance of fireline including controlled burning etc	10.00	17.70
3	Maintenance of camp hut, signboard, fencing, inspection paths, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	53.10
4	Supervision cost	12.00	21.24
	<b>Sub total</b>	92.00	162.84
5	Provision for soil & moisture conservation measures in the plantation area @ 15%	13.80	24.43
6	Monitoring & Evaluation @ 2%	1.84	3.26
			0.00
	<b>Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accrue from CA money to be deposited by User Agency.</b>	9.15	16.19
	<b>Total in the 5<sup>th</sup> year</b>	116.79	206.72

### SIXTH YEAR OF PLANTATION

**Wage Rate is**

**1.98 times current wage  
rate**

Sl. No.	Item of works	Mandays	Mandays considering annual increase of 12% in wage rate
1	Climber cutting including silvicultural works	20.00	39.60
2	(i) Wages of fire watchers	10.00	19.80
	(ii) Maintenance of fireline including controlled burning etc	10.00	19.80
3	Maintenance of camp hut, signboard, fencing, inspection paths, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	59.40
4	Supervision cost	12.00	23.76
	<b>Sub total</b>	<b>82.00</b>	162.36
	Provision for soil & moisture conservation measures in the plantation area @ 15%	12.30	24.35
	Monitoring & Evaluation @ 2%	1.64	3.25
	<b>Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accrue from CA money to be deposited by User Agency.</b>	8.15	16.15
	<b>Total in the 6<sup>th</sup> year</b>	104.09	206.11

### SEVENTH YEAR OF PLANTATION

Wage Rate is

2.22 times current wage rate

Sl. No.	Item of works	Mandays	Mandays considering annual increase of 12% in wage rate
1	Climber cutting including silvicultural works	16.00	35.52



2	(i) Wages of fire watchers	10.00	22.20
	(ii) Maintenance of fireline including controlled burning etc	10.00	22.20
3	Maintenance of camp hut, signboard, fencing, inspection paths, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	66.60
4	Supervision cost	12.00	26.64
	<b>Sub total</b>	<b>78.00</b>	<b>173.16</b>
	Provision for soil & moisture conservation measures in the plantation area @ 15%	<b>11.70</b>	25.97
	Monitoring & Evaluation @ 2%	1.56	3.46
	<b>Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accrue from CA money to be deposited by User Agency.</b>	7.76	17.22
	<b>Total in the 7<sup>th</sup> year</b>	99.02	219.82

### **EIGHT YEAR OF PLANTATION**

**Wage Rate is** **2.49 times current wage rate**

Sl. No.	Item of works	Mandays	Mandays considering annual increase of 12% in wage rate
1	Climber cutting including silvicultural works	14.00	34.86
2	(i) Wages of fire watchers	10.00	24.90
	(ii) Maintenance of fireline including controlled burning etc	10.00	24.90
3	Maintenance of camp hut, signboard, fencing, inspection paths, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	74.70
4	Supervision cost	12.00	29.88

	<b>Sub total</b>	<b>76.00</b>	189.24
5	Provision for soil & moisture conservation measures in the plantation area @ 15%	11.40	28.39
6	Monitoring & Evaluation @ 2%	1.52	3.78
	<b>Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accrue from CA money to be deposited by User Agency.</b>	7.56	18.82
	<b>Total in the 8<sup>th</sup> year</b>	96.48	240.23

### **NINTH YEAR OF PLANTATION**

**Wage Rate is** **2.79 times current wage rate**

<b>Sl. No.</b>	<b>Item of works</b>	<b>Mandays</b>	<b>Mandays considering annual increase of 12% in wage rate</b>
1	Climber cutting including silvicultural works	12.00	33.48
2	(i) Wages of fire watchers	10.00	27.90
	(ii) Maintenance of fireline including controlled burning etc	10.00	27.90
3	Maintenance of camp hut, signboard, fencing, inspection paths, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	83.70
4	Supervision cost	12.00	33.48
	<b>Sub total</b>	<b>74.00</b>	206.46
5	Provision for soil & moisture conservation measures in the plantation area @ 15%	11.10	30.97
6	Monitoring & Evaluation @ 2%	1.48	4.13
7	<b>Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accrue from CA money to be deposited by User Agency.</b>	7.36	20.53
	<b>Total in the 9<sup>th</sup> year</b>	93.94	262.09

**TENTH YEAR OF PLANTATION**

**Wage Rate is**

**3.12 times current wage  
rate**

Sl. No.	Item of works	Mandays	Mandays considering annual increase of 12% in wage rate
1	Climber cutting including silvicultural works	10.00	31.20
2	(i) Wages of fire watchers	10.00	31.20
	(ii) Maintenance of fireline including controlled burning etc	10.00	31.20
3	Maintenance of camp hut, signboard, inspection paths, protection from grazing, documentation, upkeep of records and other miscellaneous works		
		30.00	93.60
4	Supervision cost	12.00	37.44
5	Misc. expenditure e.g. salvaging of fencing materials from the plantation center wherever fencing is no longer necessary		
		6.00	18.72
	<b>Sub total</b>	<b>78.00</b>	<b>243.36</b>
5	Provision for soil & moisture conservation measures in the plantation area @ 15%	11.70	36.50
6	Monitoring & Evaluation @ 2%	1.56	4.87
			0.00
	<b>Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accrue from CA money to be deposited by User Agency.</b>	7.76	24.20
	<b>Total in the 10<sup>th</sup> year</b>	<b>99.02</b>	<b>308.93</b>

**COST ABSTRACT FOR COMPENSATORY SCHEMES**

<b>Sl. No.</b>	<b>Year</b>	<b>Man Days</b>	<b>Mandays considering annual increase of 12% in wage rate</b>
1	Preliminary year	274.48	274.48
2	First year creation & maintenance	222.41	249.10
3	Second year maintenance	142.18	179.14
4	Third year maintenance	140.91	198.68
5	Fourth year maintenance	138.37	218.62
6	Fifth year maintenance	116.79	206.72
7	Sixth year maintenance	104.09	206.11
8	Seventh year maintenance	99.02	219.82
9	Eight year maintenance	96.48	240.23
10	Ninth year maintenance	93.94	262.09
11	Tenth year maintenance	99.02	308.93
	<b>Grand total per hectare</b>	<b>1527.68</b>	<b>2563.93</b>

<b>Grand total per hectare is</b>	<b>2564 man days</b>
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