Summary of Plantation & Nursery Cost for 100 saplings of Road Side Plantation including camp hut for laying of Overhead Optical Fibre Cable by BSNL through Rongrenggre, Songsak & Darugre Reserve Forest by diverting 0.765 Ha

Proposal No	FP/ML/OFC/157594/2022
Area Diverted	0.765 Ha

Plantation & Nurse	ry Su	mmary	
Items	Q	uantity	Unit
No of Saplings to be planted		100	Saplings
Approved Plantation & Nursery CA Norms with 10 years of maintenance		2275	Mandays Per Ha or per
		2375	1000 Saplings
Laying of Grazing proof bamboo basket around			
the saplings to protect the Road Side plantations,		2	Mandays per Saplings
inclusive of material cost			
Minimum spacing for Road side plantation		4	Metre
Wage Rate	₹	373	
Total CA Cost	₹	1,63,188	

Rupees One Lakh Fifty Six Thousand Five Hundred and Forty Six Only

Divisional Forest Officer
East & North Garo Hills(T) Division

Williamnagar



Note: Wage Rate is the notified minimum wage rate for unskilled labour by Labour Department as on the date of payment by User Agency

#### PRELIMINARY WORKS

stra 2 Jun pre digg 3 Wit wood cost com 4 Cost 5 Con inspe 6 Purc 7 Supe on c local 8 Raisi beds mort plant 9 Provi docum and c	rvey and demarcation including ing of boundary marks at ategic points agle clearance, burning, land paration including staking, pit ging, hoeing, etc  Fencing  h 3 strand barbed wire and oden fencing posts including of staples, fixing, fitting, etc. applete t of collection of seeds  struction of camp hut and ection paths  chase of tools and plants  ervisory staff to be engaged asual basis from amongst the people ing of polypot nursery for 2	3 2.00 24.00 64.00 5.00 4.00 2.00	2.00  24.00  64.00  5.00  4.00  2.00  12.00	Rs. 343/- 5 686/- 8232/- 21952/- 1715/- 1372 686/-
stra 2 Jun pre digg 3 Wit wood cost com 4 Cost 5 Con inspe 6 Purc 7 Supe on c local 8 Raisi beds mort plant 9 Provi docum and c	ategic points agle clearance, burning, land paration including staking, pit ging, hoeing, etc  Fencing  h 3 strand barbed wire and oden fencing posts including of staples, fixing, fitting, etc. aplete t of collection of seeds  struction of camp hut and ection paths chase of tools and plants ervisory staff to be engaged asual basis from amongst the people ing of polypot nursery for 2	24.00 64.00 5.00 4.00 2.00	2.00 24.00 64.00 5.00 4.00 2.00	8232/- 21952/- 1715/- 1372/- 686/-
yre digg  Wit wood cost com  Cost com  Cost com  Cost com  Purce  Supe on c local  Raisi beds morts plant  Providecur and courand course	Fencing  h 3 strand barbed wire and oden fencing posts including of staples, fixing, fitting, etc. aplete  t of collection of seeds  struction of camp hut and ection paths  chase of tools and plants  ervisory staff to be engaged asual basis from amongst the people  ing of polypot nursery for 2	5.00 4.00 2.00	5.00 4.00 2.00	21952/- 1715 - 1372 - 686/-
Wit wood cost com  4 Cost  5 Con inspector on concellocal  8 Raisi beds mortal plant  9 Provide courand of	h 3 strand barbed wire and oden fencing posts including of staples, fixing, fitting, etc. uplete to of collection of seeds struction of camp hut and ection paths chase of tools and plants ervisory staff to be engaged asual basis from amongst the people ing of polypot nursery for 2	5.00 4.00 2.00	5.00 4.00 2.00	1715'- 1372'- 686'-
5 Con inspector on concept local 8 Raisi beds morting plant 9 Providucing and concept local concept	struction of camp hut and ection paths  thase of tools and plants  ervisory staff to be engaged asual basis from amongst the people  ing of polypot nursery for 2	4.00	4.00 2.00	1372
6 Purc 7 Supe on c local 8 Raisi beds mort plant 9 Providocur and c	chase of tools and plants ervisory staff to be engaged asual basis from amongst the people ing of polypot nursery for 2	2.00	2.00	1372
7 Supe on c local 8 Raisi beds mort plant 9 Providocurand c	asual basis from amongst the people			
8 Raisi beds mort: plant 9 Provi	people assume amongst the people ng of polypot nursery for 2	12.00		
mort: plant  Provi  document	ing of polypot nursery for 2			4116 -
docur and o	ality rate of plants in the	61.00	61.00	20923 -
Sui	mentation, upkeep of records other miscelianeous works	30.00	30.00	10290
	Total in the Preliminary year	204.00	204.00	69972/-
meas	& Moisture conservation sures in the plantation area	30.60	30.60	10495.8/-
Moi	nitoring & Evaluation @ 2%	4.08	4.08	1399.44/-
	Sub Total	238.68	238.68	
to esc	ng 15% contingency due alation cost and revision of wages rate etc.	35.8	35.8	12279.4
Total				

# CREATION AND 1<sup>ST</sup> YEAR MAINTENANCE OF PLANTATION



#### Wage Rate is Rs 1.08 times the present wage rate

SI. No		Mandays per hectare	Mandays per hectare considering annual increase in wage rate for first	Illustration Amount when wage rate is Rs. 343/-
1		3	year	1(3. 343/-
	including carriage from nursery centres to plantation sites and proper ramming after planting etc.	20.00	21.6	7408.8/-
2	Cost of manure and bio- fertilizer	40.00	43.2	14817.6/-
	Mulching and 3 times weeding	50.00		
4	windy season  (i) Wages of fire watchers from November of the creation year to	10.00	10.8	3704.4/-
	April of the following year  (ii) Fire line clearance including controlled burning form November in the creation year to April of the following year	10.00	10.8	3704.4/-
5	2 <sup>nd</sup> year maintenance of poly pot nursery	3.20	3.456	1185.4/-
6	Maintenance of camp hut, signboard, documentation, protection from grazing, upkeep of records and other miscellaneous works	30.00	32.4	11113.2/-
7	Supervision cost	12.00	12.96	1115 20
8	Sub total	175.20		4445.28/-
9	Soil & Moisture conservation measures in the plantation area @ 15% of total cost of 1st year creation	26.28	28.38	9734.34
V	Monitoring & Evaluation @ 2%	3.50	3.78	1307 54
i	Sub total	204.98	221.38	1296.54
1 - 1	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	18.82	75932
	Total for 1 <sup>st</sup> year creation and maintenance	222.41	240.20	82387/-

## SECOND YEAR MAINTENANCE OF PLANTATION

#### Wage Rate is 1.17 times the present wage rate

Sl. No.	Item of works	Mandays per hectare	Mandays per hectare considering annual increase in wage rate for second year	Illustration Amount when wage rate is Rs. 343/-
1	Vacancy filling by one year old	3	4	
2	seedlings in mortality areas  Climber cutting and weedings 3	5.00	5.85	<u>5</u> 2006.55/-
3	umes	45.00	52.65	18058.95/-
	(i) Wages of fire watchers	10.00	11.7	4013/-
4	(ii) Fire line clearance including controlled burning  Maintenance of camp by	10.00	11.7	4013/-
5	signboard, inspection paths, fencing, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	35.1	12039/-
	Supervision cost	12.00	14.04	4815.72/-
6	Sub total  Provision for soil & moisture	112.00	131.04	44946/-
	conservation measures in the plantation area @ 15%	16.80	19.66	6743.38/-
<u> </u>	Monitoring & Evaluation @ 2%	2.24	2.62	898.66-
	Sub total	131.04	153.32	52588
1	Adding 8.5% being contingency duc to escalation cost of materials etc. after ascertaining the rate of interest due to accrue from CA money to be deposited by User Agency.	11.14	13.03	4470:-
	Total for 2 <sup>nd</sup> year	142.18	166.35	57058/-

## THIRD YEAR MAINTENANCE OF PLANTATION



#### Wage Rate is 1.27 times the present wage rate

SI. No.		Mandays per hectare	Mandays per hectare considering annual increase in wage rate for third	Illustration Amount when wage rate is
1	2	3	year	Rs. 343/-
	Vacancy filling wherever necessary	4.00	5.00	5
2	Climber cutting and weedings 3 times	45.00	57.15	1742.44/-
	Fire Protection		57.15	19002.43/-
3	(i) Wages of fire watchers  (ii) Fire line clearance including	10.00	12.7	4356,-
4	controlled burning	10.00	12.7	4356/-
5	Maintenance of camp hut, signboard, inspection paths, fencing, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	38.1	13068.3/-
	Supervision cost	12.00	15.24	5005.00
	Sub total	111.00	15.24	5227.32/-
6	Provision for soil & moisture	111.00	140.97	48352/-
=	conservation measures in the plantation area @ 15%	16.65	21.14	7251/-
/ <del>-</del>	Monitoring & Evaluation @ 2%	2.22	2.82	967
	Sub total	129.9	164.93	56570
	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.	11.04	14.02	4809
	Total for 3 <sup>rd</sup> year	140.94	178.95	61379/-

## FOURTH YEAR MAINTENANCE OF PLANTATION

#### Wage Rate is 1.4 times the present wage rate

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Sl. No.		Mandays per hectare	Mandays per hectare considering annual increase in wage rate for fourth	Illustration Amount when wage rate is Rs. 343/-
1	2	3	year 4	
	Vacancy filling wherever necessary	2.00		5
2	Climber cutting and weedings 3 times	45.00	2.8	960.4/-
3	Fire Protection		0.5	21609/-
4	(i) Wages of fire watchers (ii) Fire line clearance including controlled burning	10.00 10.00	14 14	4802/- 4802/-
7	Maintenance of camp hut, signboard, inspection paths, fencing, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	42	14406/-
5	Supervision cost	12.00	16.8	5762.4/-
-	Sub total	109.00		
6	Provision for soil & moisture conservation measures in the plantation area @ 15%	16.35	22.9	<b>52341.8</b> /-
7 I	Monitoring & Evaluation @ 2%	2.10		
	Sub total	2.18	3.05	1046
		127.53	178.55	61242,5
1	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.	10.84	15.17	5203/-
	Total for 4th year	138.37		
	•	130.37	193.72	66445/-

## FIFTH YEAR MAINTENANCE OF PLANTATION

#### Wage Rate is 1.56 times the present wage rate

6.	i		Man		
S1. No.	ltem of works	Mandays per hectare	Mandays per hectare considering annual increase in wage rate for fifth	Illustration Amount when wage rate is	
·- <u>-</u>	2	3	<u>year</u>	Rs. 343/-	
1	Climber cutting including silvicultural works and two times weedings		4	5	
2	Fire Protection	30.00	46.8	16052.4/-	
	(i) Wages of fire watchers	10.00	15.6	5350.8/-	
3	(ii) Maintenance of Fire line including controlled burning	10.00	15.6	5350.8/-	
:	Maintenance of camp hut, signboard, inspection paths, fencing, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	46.8	16052.4/-	
4	Supervision cost	12.00	18.72	(42)	
	Sub total	92.00		6421	
	Provision for soil & moisture conservation measures in the plantation area @ 15%	13.80	21.53	49227/- 7385/-	
	Monitoring & Evaluation @ 2%	1.84			
!	Sub total		2.87	984 -	
	Adding 8.5% being contingency	107.64	167.92	57596	
i	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.	9.15	14.27	4895:-	
1	Total for 5th year	116.79	182.19	62491/-	

## SIXTH YEAR MAINTENANCE OF PLANTATION

#### Wage Rate is 1.74 times the present wage rate

SI. No.	ltem of works	Mandays per hectare	Mandays per hectare considering annual increase in wage rate for sixth year	Illustration Amount when wage rate is Rs. 343/-
	Climbor and	3	4	5
· 2	Climber cutting including silvicultural works	20.00	34.8	11936.4/-
-	(i) Wages of fire watchers	10.00	17.4	5968.2/-
3	(ii) Maintenance of fireline including controlled burning etc.	10.00	17.4	5968.2/-
4	Maintenance of camp hut, signboard, inspection paths, fencing, protection from grazing, documentation, upkeep of records and other miscellaneous works  Supervision cost	30.00	52.2	17904.6/-
		12.00	20.88	7161.84/-
5	Provision for soil & moisture	82.00	142.68	48939
	conservation measures in the plantation area $\widehat{a}$ 15%	12.30	21.4	7340/-
5 	Monitoring & Evaluation @ 2%	1.64	2.85	978'-
	Sub total	95.94	166.93	57257
	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.	8.15	14.18	4863/-
	Total for 6th year	104.09	181.11	62120/-

#### SEVENTH YEAR MAINTENANCE OF PLANTATION

#### Wage Rate is 1.97 times the present wage rate

Sl. No.	Item of works	Mandays per hectare	Mandays per hectare considering annual increase in wage rate for seventh year	Illustration Amount when wage rate is Rs. 343/-
1	Climbon	3	4	5
-	Climber cutting including silvicultural works	16.00	31.52	10811.36/-
2	(i) Wages of fire watchers (ii) Maintenance of fireline including controlled burning etc.	10.00	19.7 19.7	6757/-
, 	Maintenance of camp hut, signboard, inspection paths, fencing, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	59.1	20271.3/-
4	Supervision cost	12.00	23.64	9100.50
	Sub total	78.00		8108.52/-
5	Provision for soil & moisture conservation measures in the plantation area @ 15%	11.70	<b>153.66</b> 23.05	<b>52705</b> /-
	Monitoring & Evaluation @ 2%	1.56	3.07	1053/-
	Sub total	91.26	179.78	
	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.	7.76	15.29	5244/-
į	Total in 7th year	99.02	195.07	66908/-

#### EIGHT YEAR MAINTENANCE OF PLANTATION

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#### Wage Rate is 2.25 times the present wage rate

Sl. No.	Item of works	Mandays per hectare	Mandays per hectare considering annual increase in wage rate for eight year	Illustration Amount when wage rate is Rs. 343/-
1	2	3	4	5
l	Climber cutting including silvicultural works	16.00	36	12348/-
2	(i) Wages of fire watchers (ii) Maintenance of fireline including controlled burning etc.	10.00	22.5 22.5	7717.5/- 7717.5/-
3	Maintenance of camp hut, signboard, inspection paths, fencing, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	67.5	23152.5/-
4	Supervision cost	12.00	27	9261/-
	Sub total	78.00	175.5	60196/-
5	Provision for soil & moisture conservation measures in the plantation area @ 15%	11.70	26.32	9028/-
6	Monitoring & Evaluation @ 2%	1.56	3.51	1204/-
	Sub total	91.26	205.33	70428
	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.	7.76	17.46	5989;-
	Total in 8th year	99.02	222.8	76417/-

#### NINTH YEAR MAINTENANCE OF PLANTATION

#### Wage Rate is 2.58 times the present wage rate

Sl. No.	Item of works	Mandays per hectare	Mandays per hectare considering annual increase in wage rate for ninth year	Illustration Amount when wage rate is Rs. 343/-
1		3	4	5
2	Climber cutting including silvicultural works	12.00	30.96	10619.3/-
3	<ul><li>(i) Wages of fire watchers</li><li>(ii) Maintenance of fireline including controlled burning etc.</li><li>Maintenance of camp hut, signboard.</li></ul>	10.00 10.00	25.8 25.8	8849.4/- 8849.4/-
	inspection paths, fencing, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	77.4	26548.2/-
4	Supervision cost	12.00	30.96	10(10.0
	Sub total	74.00		10619.3/-
5	Provision for soil & moisture	74.00	190.92	65486/-
	conservation measures in the plantation area @ 15%	11.10	28.64	9823/-
5 ;	Monitoring & Evaluation @ 2%	1.48	3.82	1310/-
	Sub total	86.6	223.38	
	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.	7.36	18.99	<b>76619</b> 6513/-
i	Total in 9th year	93.96	242.37	83132/-



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#### TENTH YEAR MAINTENANCE OF PLANTATION

#### Wage Rate is 3.0 times the present wage rate

	Probable wage rate			
ltem of works	Mandays per hectare	Mandays per hectare considering annual increase in wage rate for tenth	Illustration Amount when wage rate is Rs. 343/-	
	3		5	
works	10.00	·		
	10.00	30	10290	
(ii) Maintenance of fireline including controlled burning etc.	10.00 10.00	30 30	10290	
Maintenance of camp hut, signboard, inspection paths, fencing, protection from grazing, documentation, upkeep of records and other miscellaneous works	30.00	90	30870	
Supervision cost	12.00			
Misc. expenditure e.g. salvaging of	12.00	36	12348	
fencing materials from the plantation centre wherever fencing is no longer necessary	6.00	18	6174	
Sub total	78.00	234		
Provision for soil & moisture conservation measures in the plantation area @ 15%	11.70	35.1	<b>80262</b> 12039	
	1.56	4.60		
Sub total			1605	
Adding 8.5% being contingency	71.2	273.8	93906	
due to escalation cost of materials etc. after ascertaining the rate of interest due to accrue from CA noney to be deposited by User Agency.	7.76	23.27	7982	
Total in 10 <sup>th</sup> year				
	Climber cutting including silvicultural works  (i) Wages of fire watchers  (ii) Maintenance of fireline including controlled burning etc.  Maintenance of camp hut, signboard, inspection paths, fencing, protection from grazing, documentation, upkeep of records and other miscellaneous works  Supervision cost  Misc. expenditure e.g. salvaging of fencing materials from the plantation centre wherever fencing is no longer necessary  Sub total  Provision for soil & moisture conservation measures in the plantation area @ 15%  Monitoring & Evaluation @ 2%  Sub total  Adding 8.5% being contingency due to escalation cost of materials etc. after ascertaining the rate of nterest due to accrue from CA noney to be deposited by User	Climber cutting including silvicultural works  (i) Wages of fire watchers (ii) Maintenance of fireline including controlled burning etc.  Maintenance of camp hut, signboard, inspection paths, fencing, protection from grazing, documentation, upkeep of records and other miscellaneous works  Supervision cost  Misc. expenditure e.g. salvaging of fencing materials from the plantation centre wherever fencing is no longer necessary  Sub total  Provision for soil & moisture conservation measures in the plantation area @ 15%  Monitoring & Evaluation @ 2%  Sub total  Adding 8.5% being contingency due to escalation cost of materials etc. after ascertaining the rate of nterest due to accrue from CA noney to be deposited by User	Item of works   Mandays per hectare   hectare   manual increase in wage rate for tenth year	





Sl. No.	Year	Mandays	Mandays per hectare considering annual increase in wage rate	Illustration Amount wher wage rate is Rs. 343/-
1	Preliminary year	274.48	274.40	at grade beato
2	First year creation & maintenance	222.41	274.48	94147
3	Second year maintenance		240.20	82387
4	Third year maintenance	142.18	166.35	57058
5	Fourth year maintenance	140.94	178.95	61379
6	Fifth year maintenance	138.37	193.72	66445
7	Sixth year maintenance	116.79	182.19	62491
8	Sixth year maintenance	104.09	181.11	
	Seventh year maintenance	99.02	195.07	62120
9	Eight year maintenance	99.02		66908
10	Ninth year maintenance	93.96	222.8	76417
11	Tenth year maintenance		242.37	83132
Grand total per hectare		99.06	297.07	101888
	1530.32	2374.31	814372/-	

East & North Garo Hills (T) Division
Williamnagar.

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