

Norms for undertaking compensatory Afforestation scheme for planting 100 nos of tall seedlings at Upper Shillong PF, Compartment 5 for Diversion of 0.145 ha of forest land for renewal of leased land of Lumparing Vidyapith Secondary School, Laitkor Protected Forest, Shillong.

Creation and 1st Year Maintenance of Plantation

Sl.no	Item of Work	Mandays per Hectare	Mandays per hectare considering annual increase in wage rate for first year	Amount when wage rate is 373
Wage rate is Rs.1.08 times the present wage rate				
1	2	3	4	5
1	Plantation of nursery seedling including carriage from nursery centres to plantation sites and proper ramming after planting etc.	20	21.60	8056.80
2	Cost of manure and bio-fertilizer	40	43.20	16113.60
3	Mulching and 3 times weeding	50	54.00	20142.00
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	10.80	4028.40
	ii) Fireline clearance including controlled burning from November in the creation year to April of the following year	10	10.80	4028.40
6	Maintenance of camp hut, signboard, documentation, protection from grazing, upkeep of records and other miscellaneous works	30	32.40	12085.20
7	Supervision cost	12	12.96	#REF!
	Sub Total	172	185.76	69288.48
8	Soil & Moisture conservation measures in the plantation area @15% of the total cost of 1st year creation.	26.28	28.38	#REF!
9	Monitoring & Evaluation @2%	3.5	3.78	1409.94
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	18.81	7017.47
	Total for 1st Year creation and maintenance	219.20	236.74	88302.53

Second Year Maintenance of Plantation

Wage rate is Rs.1.17 times the present wage rate

Sl.no	Item of Work	Mandays per Hectare	Mandays per hectare considering annual increase in wage rate	Amount when wage rate is 373
1	2	3	4	5
1	Vacancy filling by one year old seedlings in mortality areas	5	5.85	2182.05
2	Climber cutting and weedings 3 times	45	52.65	19638.45
3	Fire Protection	10	11.70	4364.10
	ii) Fire line clearance including controled burning	10	11.70	4364.10
4	Maintenance of cramp hut, signboard, inspection paths fencing protection from grazing documentation upkeep of records and other miscellaneous works.	30	35.10	13092.30
5	Supervision cost	12	14.04	5236.92
	Sub total	112	131.04	48877.92
6	Provision for soil & moisture conservation measures in the plantation area @15%	16.8	19.66	7331.69
7	Monitoring & Evaluation @2 %	2.24	2.62	977.56
	Adding 8.5% being contingency due to escalation cost ets.after ascertaining the rate of interest due to accrue from CA money to be deposit by user agency	11.14	13.03	4861.61
	Total in the 2nd year	142.18	166.35	62048.7738

Third Year Maintenance of Plantation

Wage rate is Rs.1.27 times the present wage rate

Sl.no	Item of Work	Mandays per Hectare	Mandays per hectare considering annual increase in wage rate	Amount when wage rate is 373
1	2	3	4	5
1	Vacancy filling wherever necessary	4	5.08	1894.84
2	Climber cutting and weedings 3 times	45	57.15	21316.95
3	Fire protection i) Wages of Fire watchers	10	12.70	4737.10
	ii) Fire line clearance including controlled burning	10	12.70	4737.10
4	Maintenance of cramp hut, signboard, fencing inspection paths, protection from grazing, documents upkeep of records and other miscellaneous works	30	38.10	14211.30
5	Supervision cost	12	15.24	5684.52
	Sub Total	111	140.97	52581.81
6	Provision for soil & moisture conservation measures in the plantation area @ 15%	16.65	21.15	7887.27
7	Monitoring & evaluation @2%	2.22	2.82	1051.64
8	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	11.04	14.02	5229.76
	Total in the 3rd year	140.91	178.96	66750.48

Fourth Year Maintenance of Plantation

Wage rate is Rs.1.4 times the present wage rate

Sl.no	Item of Work	Mandays per Hectare	Mandays per hectare considering annual increase in wage rate	Amount when wage rate is 373
1	2	3	4	5
1	Vacancy filling wherever necessary	2	2.80	1044.40
2	Climber cutting and three times weeding	45	63.00	23499.00
3	i) Wages of Fire watchers	10	14.00	5222.00
	ii) Fireline clearance including controlled burning, etc	10	14.00	5222.00
4	Maintenance of cramp hut, signboard, fencing, inspection paths protection from	30	42.00	15666.00
5	Supervision cost	12	16.80	6266.40
	Sub total	109	152.60	56919.80
6	Provision for soil & moisture conservation measures in the plantation area @ 15%	16.35	22.89	8537.97
7	Monitoring & evaluation @2%	2.18	3.05	1138.40
8	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	10.84	15.18	5660.65
	Total in the 4th year	138.37	193.72	72256.814

Fifth Year Maintenance of Plantation

Wage rate is Rs.1.56 times the present wage rate

Sl.no	Item of Work	Mandays per Hectare	Mandays per hectare considering annual increase in wage rate for first year	Amount when wage rate is 373
1	Climber cutting including silvicultural works	30	46.80	17456.40
2	i) Wages of fire watchers	10	15.60	5818.80
	ii) Maintenance of Fireline including controlled burning etc	10	15.60	5818.80
3	Maintenace of cramp hut, signborad, fencing, inspection paths, protection from	30	46.80	17456.40
4	Supervision cost	12	18.72	6982.56
	sub total	92	143.52	53532.96
5	Provision for soil & moisture conservation measures in the plantation area @ 15%	13.8	21.53	8029.94
6	Monitoring & Evaluation @ 2%	1.84	2.87	1070.66
	Adding 8.5% being contingency due to escalationcost etc.after ascertaining the rate of interest due to accure from CA money to be deposited by User agency	9.15	14.27	5324.20
	Total in the 5th year	116.79	182.19	67957.77

Sixth Year Maintenance of Plantation

Wage rate is Rs.1.74 times the present wage rate

Sl.no	Item of Work	Mandays per Hectare	Mandays per hectare considering annual increase in wage rate for first year	Amount when wage rate is 373
1	Climber cutting including silvicultural works	20	34.80	12980.40
2	i) wages of faire watcher	10	17.40	6490.20
	ii) maintenace of fireline including controlled burning etc.	10	17.40	6490.20
3	Maintenace of cramp hut, signborad, fencing, inspection paths, protection from grazing, documentation, upkeep of records and other miscellaneous works.	30	52.20	19470.60
4	Supervision Cost	12	20.88	7788.24
	Sub Total	82	142.68	53219.64
	Provision for soil & moisture conservation measures in the plantation area @ 15%	12.3	21.40	7982.95
	Monitoring & evaluation @ 2%	1.64	2.85	1064.39
	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 the user agency.	8.15	14.18	5289.51
	Total in the 6th Year	104.09	181.12	67556.49

Seventh Year Maintenance of Plantation

Wage rate is Rs.1.97 times the present wage rate

Sl.no	Item of Work	Mandays per Hectare	Mandays per hectare considering annual increase in wage rate for first year	Amount when wage rate is 373
1	Climber cutting including silviculture works	16	31.52	11756.96
2	i) Wages of fire watcher	10	19.70	7348.10
	ii) Maintenance of fireline including controlled burning etc.	10	19.70	7348.10
3	Maintenace of cramp hut, singborad, fencing, inspection paths, protection from grazing, documentation, upkeep of records and othe miscellaneous works.	30	59.10	22044.30
4	supervision Cost	12	23.64	8817.72
	Sub total	78	153.66	57315.18
	Provision for soil & moisture conservation measures in the plantation area @ 15%	11.7	23.05	8597.28
	Monitoring & Evaluation @ 2%	1.56	3.07	1146.30
	Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accre from CA money to be deposited by user agency.	7.76	15.29	5702.13
	Total in the 7th year	99.02	195.07	72760.8862

Eight year maintenace of Plantation				
Wage rate is Rs.2.25 times the present wage rate				
Sl.no	Item of Work	Mandays per Hectare	Mandays per hectare considering annual increase in wage rate for first year	Amount when wage rate is 373
1	climber cutting including silivicultural works	16	36.00	13428.00
2	i) wage of fire watchers	10	22.50	8392.50
	ii) maintenace of Fireline including controlled burning etc	10	22.50	8392.50
3	Maintenace of cramp hut, signboard, fencing, inspection paths, protetion from grazing, documentation, upkeep of records and other miscellaneous	30	67.50	25177.50
4	Supervision cost	12	27.00	10071.00
	Sub total	78	175.50	65461.50
5	Provision for soil & moisture conservation measures in the plantation area @ 15%	11.7	26.33	9819.23
6	Monitoring & Evaluation area @ 15%	1.56	3.51	1309.23
	Adding 8.5% being contingel due to escalation cost after ascertaining the rate of interest due to accrue from CA money to be deposited by the user agency	7.76	17.46	6512.58
	Total in he 8th year	99.02	222.80	83102.535

Ninth year maintenace of Plantation

Wage rate is Rs.2.58 times the present wage rate

Sl.no	Item of Work	Mandays per Hectare	Mandays per hectare considering annual increase in wage rate for first year	Amount when wage rate is 373
1	Climber cutting including siliviculture works	12	30.96	11548.08
2	i) Wages of fire watchers	10	25.80	9623.40
	ii) Maintenace of fireline including	10	25.80	9623.40
3	Maintenace of cramp hut, signboard, fencing, inspection paths, protection fromgrazing, documentation, upkeep of records and other miscellaneous	30	77.40	28870.20
4	Supervision cost	12	30.96	11548.08
	Sub Total	74	190.92	71213.16
5	Provision for soil & Moisture conservation	11.1	28.64	10681.97
6	Monitoing & evaluation @ 2%	1.48	3.82	1424.26
7	Adding 8.5% being contingency due to	7.36	18.99	7082.82
	Total in the 9th year	93.94	242.37	90402.2196

Tenth year maintenace of Plantation

Wage rate is Rs.3 times the present wage rate

Sl.no	Item of Work	Mandays per Hectare	Mandays per hectare considering annual increase in wage rate for first year	Amount when wage rate is 373
1	climber cutting siliviculture works	10	30.00	11190.00
2	i) wages of fire watchers	10	30.00	11190.00
	ii) maintenace of fireline including controlled burning etc.	10	30.00	11190.00
3	Maintenace of cramp hut, signboard, inspection paths, protection from grazing, documentation, upkeep of records and other miscellaneous works	30	90.00	33570.00
4	Supervision cost	12	36.00	13428.00
5	Misc.expenditure e.g salvaging of fencing materials from the plantation centre wherever fencing is no longer necessary	6	18.00	6714.00
	Sub Total	78	234.00	87282.00
6	Provision for soil & moisture conservation measures in the plantation area @15%	11.7	35.10	13092.30
7	Monitoring & evaluation @ 2%	1.56	4.68	1745.64
	Adding 8.5% being contingency due to escalation cost etc. after ascertaining the rate of interest due to accure from cA money to be deposited by the user Agency	7.76	23.28	8683.44
	Total in the year 10th Year	99.02	297.06	110803.38

Cost Abstract for Compensatory Afforestation Scheme

Sl.No	Year	Mandays	Mandays per considering annual increse in wage rate	Amount when wage rate is 373
1	First year creation and maintenace	219.20	236.74	88302.528
2	Second year maintenace	142.18	166.35	62048.7738
3	Third Year maintenace	140.91	178.96	66750.4761
4	Fourth year maintenace	138.37	193.72	72256.814
5	Fifth Year Maintenace	116.79	182.19	67957.7652
6	Sixth Year maintenace	104.09	181.12	67556.4918
7	Seventh Year maintenace	99.02	195.07	72760.8862
8	Eight year maintenace	99.02	222.80	83102.535
9	Ninth Year maintenace	93.94	242.37	90402.2196
10	Tenth year maintenace	99.02	297.06	110803.38
	Grand total per hectare	1252.54	2096.36	781941.9

Cost for raising compensatory afforsation for 1 Ha for tall seedlings= Rs 781941.9

Area for planting 1000 trees = 1.00ha

Area for planting 100 trees= 0.10ha

Hence cost for rasing 100 tall seedlings= Rs 78,194.19

Purchase cost of 100 numbers tall seedlings= Rs 10,000.00

Total= Rs 88,194.19

Say Rs 88,194.00

Rupees Eighty Eight Thousand One Hundred Ninety Four only


Divisional Forest Officer

East Khasi Hills & Ri Bhoi (T) Division
Shillong