

NORMS FOR 21 ha BLOCK PLANTATION

Area (Ha)	21
Spacing (mXm)	2X2
Number of Saplings/ha	2500
Length of JFence (RM)	2140
Wage rate for the 1 st year (Rs.)	152
Increase in wage for subsequent years by a factor	1.1
Application of material costs by a factor	1.1

Sl No.	Particulars of works	Units	Qty./ ha	Total Qty.	Rate/Unit	Amount (Rs.)
A	ERECTION FENCING					
	(a) Cost of full Chain-linked Goat Proof fencing (4' ht. with 10 Gauge, 3" dia link) to be fitted on Pre-cast RCC pillars* at 1.8 mt. apart including transportation I of fencing materials to site for 2140 RM! @ RS. 800 per RM as per estimate	RMs		2140	800	17,12,000/-
	(b) Wages of DLs for carrying, fitting, fixing etc. of fencing materials @ 20 DLs/ 100 RM	DLs		428	240	1,02,720/-
	Sub Total					18,14,720/-
B	INFRASTRUCTURE IN PLANTATION AREA					
	Construction of camp but (at least one upto 25 ha & thereafter one per every 25 ha) as per estimate	nos		1		1,50,000
	Installation of ring/tube well (atleast one upto 10 ha & thereafter two per every 25 ha)	nos		2		1,00,000
	Irrigation facility with Diesel generator and hose pipes for watering the nursery and plantation (during dry spells)	nos		2		1,00,000
	Cost of tools & implements (One unit upto 25 ha & thereafter one unit per every 25 ha)	nos		1		10,000
	Cost of RCC signboard & Gate including fitting and fixing of the same (atleast one upto 25 ha & thereafter one per every 25 ha)	nos		1		60,000
	Camp accessories @ Rs. 10,001V per camp	nos		1		10,000
	Construction of Inspection Path 1800 RM @ Rs. 50/- RM	RMs				90,000
	Construction of Staff quarter. as per estimate (One unit for 10 to 50 ha & thereafter one unit per every 50 ha)	nos		1		8,00,000
	Provision of Solar energy for stall' quarters includint installation	nos		1		70,000
	Sub Total					13,90,000
C	ADVANCE WORK					
	Site selection, surveying, demarcation, jungle cutting, burning etc. 20 DLs/ha	DLs	20	420	240	1,00,800
	Preparation and acquisition of polypot saplings in the field nursery for planting 2500 Nos. Seedlings/ ha @ R.,6/- per polypot	nos	2500	52500	6	3,15,000

	Preparation of polypot saplings in the field nursery for vacancy filling					
	a) 25% mortality expected during 1st year (to be planted in the field during the 2nd year) ,i.e., 625 Seedlings/ ha (i.e, Rs 6.5/- per polypot	nos	625	13125	6.5	85,312
	b) 20% mortality expected during 2nd year (to be planted in the field during the 3rd year) ,i.e., 500 Seedlings/ ha 4. Rs.7/- per polypot	nos	500	10500	7	73,500
	c) 15% mortality expected during 3rd year (to be planted in the field during the 4th year),i.e., 375 Seedlings/ ha @ Rs.7.5/- per polypot	nos	375	7875	7.5	59062
	d) 10% mortality expected during 4th year (to be planted in the field during the 5th year),i.e., 250 Seedlings/ ha @ Rs.8/- per polypot	nos	250	5250	8	42,000
	Cost of Bamboo, making of stacking & transportation etc	nos	625	13125	1	13125
	Line alignment, carriage of stacking materials and fixing the stacking (4) 5 DLs/ha	DLs	5	105	240	25,200
	Supervision and Monitoring	L.S				
	Sub total					7,13,999
D.	CREATION & 1st YEAR MAINTENANCE			@ 240/DL		
	Soil working, carnage of stumps, polypot seedling and planting at the plantation site including. dibbling of seeds wherever necessary to complete raising of plantation with all necessary operation @ 40 DLs/ ha	DLs	40	840	240	2,01,600
	5 weedings, mulching and fire protection works @ 18 DLs/ha/weeding	DLs	90	1890	240	4,53,600
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	105	240	25,200
	Maintenance and protection of field nursery and watch and ward for the plantation area(2DL for 365 days).	DLs		730	240	1,75,200
	Maintenance of camp huts, implements, ring/tube- well, upkeepment of plantation, signboard, documentation, . upkeepment of records and other misc. work	L.S				10,000
	Awareness & Monitoring @, Rs. 800/ha	L.S	21	800		16,800
	Sub total					8,82,400
E.	2ND YEAR MAINTENANCE			@ 264/DL		
	5 weedings, fire protection works @ 15 DLs/ha/weeding	DLs	75	1575	264	4,15,800
	25% Vacancy filling by 1 year old seedlings from nursery@ IODLs/ha		10	210	264	55,440
	Upkeepment of plantation, and making of	DLs	5	105	264	27,720

	inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha					
	Maintenance and protection of field nursery and watch and ward for the plantation area (2DL for 365 days).	DLs		730	264	1,92,720
	Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records etc.	L.S				22,000
	Supervision Cost	L.S				8,000
	Contingency L.S.	L.S				2500
	Sub total					7,24,180
F.	3RD YEAR MAINTENANCE			@ 290/DL		
	4 weedings, fire protection works @15 DLs/ha/weeding	DLs	60	1260	290	3,65,400
	20% Vacancy filling by 2 year old seedlings from nursery @ 8DLs/ha	DLs	8	168	290	48,720
	Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day @ 5 DLs/ha	DLs	5	105	290	30,450
	Maintenance and protection of held nursery and watch and ward for the plantation area (2 DL for 365 days).	DLs		730	290	2,11,700
	Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records	L.S				24,200
	Supervision Cost	L.S				8,000
	Contingency @ 15 % over previous year	L.S				2,875
	Sub Total					6,91,345
G.	4th YEAR MAINTENANCE			@ 319/DL		
	4 weedings, fire protection works @15 dls/ha/weeding	DLs	60	1260	319	4,01,940
	15% Vacancy filling by 2 year old seedlings from nursery @6DLs/ha	DLs	6	126	319	40,194
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis a. 5 DLs/ha	DLs	5	105	319	33,495
	Maintenance and protection of field nursery and watch and ward for the plantation area (2DL for 365 days)	DLs		730	319	2,32,870
	Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records etc.	L.S			319	26,620
	Supervision Cost	L.S				8000
	Contingency @ 15 % over previous year	L.S				3306
	Sub Total					7,46,425

H	5th YEAR MAINTENANCE			@351DL		
	Climber cutting, weeding & other silvicultural works and fire protection works (@ 15DLs/ha)	DLs	15	315	351	1,10,565
	10% Vacancy filling by 2 year old seedlings from nursery @ 4DLs/ha	DLs	4	84	351	29,484
	Maintenance & fencing post replacement @ 3% initial cost of material	DLs	0.03		18,14,720	54,442
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 4 DLs/ha	DLs			351	29,484
	Watch and ward for the plantation area(1DL for 365 days).	L.S	84		351	2,56,230
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S	365		351	29,282
	Supervision Cost	L.S				8,000
	Contingency @ 15 % over previous year					3802
	Sub Total					5,21,289
I.	6th Year Maintenance			@ 386/DL		
	Climber cutting, other silvicultural works and fire protection works 415 DLs/ha	DLs	15	315	386	1,21,590
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @, 4 DLs/ha	DLs	4	84	386	32,424
	Watch and ward for the plantation area (2DL for 365 days).	DLs		730	386	2,81,780
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S				32,210
	Supervision Cost	L.S				8000
	Contingency @ 15 % over previous year	L.S				4373
	Sub total					4,80,377
J.	7th Year Maintenance			@ 425/DL		
	Climber cutting, other silvicultural works and fire protection works @ 12 DLs/ha	DLs	12	252	425	1,07,100
	Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs / ha	DLs	5	105	425	44625
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S				35,432
	Supervision Cost	L.S				8000
	Contingency @ 15 % over previous year	L.S				5028
	Sub-Total					2,00,185

K.	8 th Year maintenance				
	Climber cutting, other silvicultural works and fire protection works @ 8 DLs/ha	DLs	8	@ 468/DL	
	Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs	DLs	5	168	78,624
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S		105	49,140
	Supervision Cost			468	38,974
	Contingency @ 15 % over previous year	L.S			
	<i>Sub Total</i>	L.S			8000
L	9 th YEAR MAINTENANCE				5783
	Climber cutting, other silvicultural works and fire protection works (0), 7 DLs/ha		7	@ 515/DL	1,80,521
	Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ ha		5	147	75,705
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.			105	54,075
	Supervision Cost			515	42,872
	Contingency @, 15 % over previous year				8000
	<i>Sub Total</i>				6650
M	10 th YEAR MAINTENANCE				1,87,302
	Climber cutting, other silvicultural works, fire protection works (0), 6 DLs/ha		6	@ 567/DL	
	Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 4 DLs /ha		4	126	71,442
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.			84	47,628
	Supervision Cost			567	47,158
	Contingency @ 15 % over previous year				8000
	<i>Sub-Total</i>				7648
	Over head expenditure @ 50% of the total cost of scheme				1,81,876
	<i>Grand Total</i>				43,57,309
					1,30,71,929

(Rupees One crore thirty lacs seventy one thousand nine hundred twenty nine) only.

Note : Cost escalation of 10% annually has been considered for wages
The norms should be revised annually based on wage rate & cost of materials
Pre-cast RCC pillar with 5"x5" cross-section-of 6 ft height (1.5 below ground 4.5 ft above ground) with readymade concrete base 1 ft width for fixing



Technically approved

Divisional Forest Officer
Dima Hasao Forest Division (West),
Haflong

Chief Conservator of Forests,
Dima Hasao District, Assam.