

CA Schemes for 12 ha. Plantation against Bhomoraguri RF Land Diversion proposal

Area (ha)	=	12
Spacing (m X m)	=	2 X 2
Number of Saplings/ ha	=	2500
Length of Fence (RM)	=	2130
Wage rate for the 1st year(Rs.)	=	240
Increase in wage rate for subsequent years by a factor	=	1.1
Appreciation of material costs by a factor	=	1.1

S. No.	Particulars of works	Units	Qty./ ha	Total Qty.	Rate / Unit	Amount (Rs.)
A	ERCTION OF FENCING	@Rs.		240	/DL	
	(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 of fencing materials to site for 2130 RM @ Rs. 800 per RM as per estimate	RMs		2130	800	1704000
	(b) Wages of DLs for carrying, fitting, fixing etc. of fencing materials @ 20 DLs/ 100 RM	DLs		426	240	102240
	<i>Sub-total</i>					1806240
B	INFRASTRUCTURE IN PLANTATION AREA					
	Construction of camp hut (atleast one upto 25 ha & thereafter one per every 25 ha) as per estimate	nos.		1	150,000	150000
	Installation of ring/tube well (atleast one upto 10 ha & thereafter two per every 25 ha)	nos.		2	50,000	100000
	Irrigation facility with Diesel generator and hose pipes for watering the nursery and plantation (during dry spells)	nos.		1	50,000	50000
	Cost of tools & implements (One unit upto 25 ha & thereafter one unit per every 25 ha)	nos.		1	10,000	10000
	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	60000
	Camp accessories @ Rs. 10,000/ per camp	nos.		1	10,000	10000
	Construction of Inspection Path 3360 RM @ Rs. 50/- RM	RMs		3360	50	168000
	<i>sub total</i>					548000
C	ADVANCE WORK	@Rs.		240	/DL	
	Site selection, surveying, demarcation, jungle cutting, burning etc. 20 DLs/ha	DLs	20	240	240	57600
	Preparation and acquisition of polypot saplings in the field nursery for planting 2500 Nos. Seedlings/ ha @ Rs.6/- per polypot	nos.	2500	30000	6	180000
	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 @ Rs.6.5/- per polypot	nos.	625	7500	6.5	48750
	b) 20% mortality expected during 2nd year (to be planted in the field during the 3rd year),i.e., 500 Seedlings/ ha @ Rs.7/- per polypot	nos.	500	6000	7	42000
	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	4500	7.5	33750
	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	3000	8	24000
	Cost of Bamboo, making of stacking & transportation etc	nos.	625	7500	1	7500
	Line alignment, carriage of stacking materials and fixing the stacking @ 5 DLs/ha	DLs	5	60	240	14400
	Supervision and Monitoring	L.S.				20000
	<i>Sub total</i>					428000

D CREATION & 1st YEAR MAINTENANCE				@Rs.	240 /DL
Soil working, carriage 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	480	240
5 weedings, mulching and fire protection works @ 18 DLs/ha/weeding	DLs	90	1080	240	259200
Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	60	240	14400
Maintenance and protection of field nursery and watch and ward for the plantation area(1DL for 365 days).	DLs		365	240	87600
Maintenance of camp huts, implements, ring/tube- well, upkeepment of plantation, signboard, documentation, upkeepment of records and other misc. work	L.S.				10000
Awareness & Monitoring @ Rs. 800/ha	L.S.		12	800	9600
					496000
E 2nd YEAR MAINTENANCE				@ Rs.	264 /DL
5 weedings, fire protection works @ 15 DLs/ha/weeding	DLs	75	900	264	237600
25% Vacancy filling by 1 year old seedlings from nursery@ 10DLs/ha	DLs	10	120	264	31680
Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	60	264	15840
Maintenance and protection of field nursery and watch and ward for the plantation area(1DL for 365 days).	DLs		365	264	96360
Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records etc.	L.S.				11000
Supervision Cost	L.S.		1		9600
Contingency L.S.	L.S.				2500
					404580
F 3rd YEAR MAINTENANCE				@ Rs.	290 /DL
4 weedings, fire protection works @15 DLs/ha/weeding	DLs	60	720	290	208800
20% Vacancy filling by 2 year old seedlings from nursery@ 8DLs/ha	DLs	8	96	290	27840
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	60	290	17400
Maintenance and protection of field nursery and watch and ward for the plantation area(1DL for 365 days).	DLs		365	290	105850
Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records	L.S.				12100
Supervision Cost	L.S.		1		9600
Contingency @ 15 % over previous year	L.S.				2875
					384465
G 4th YEAR MAINTENANCE				@ Rs.	319 /DL
4 weedings, fire protection works @15 dls/ha/weeding	DLs	60	720	319	229680
15% Vacancy filling by 2 year old seedlings from nursery@ 6DLs/ha	DLs	6	72	319	22968
Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	60	319	19140
Maintenance and protection of field nursery and watch and ward for the plantation area(1DL for 365 days).	DLs		365	319	116435
Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records etc.	L.S.				13310
Supervision Cost	L.S.		1		9600
Contingency @ 15 % over previous year	L.S.				3306
					414439

H	5th YEAR MAINTENANCE	@ Rs. 351 /DL				
	Climber cutting, weeding & other silvicultural works and fire protection works @ 15DLs/ha	DLs	15	90	351	31590
	10% Vacancy filling by 2 year old seedlings from nursery @ 4DLs/ha	DLs	4	48	351	16848
	Maintenance & fencing post replacement @ 3% initial cost of material			0.03	1704000	51120
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 4 DLs/ha	DLs	4	48	351	16848
	Watch and ward for the plantation area(1DL for 365 days).	DLs		365	351	128115
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S.				14641
	Supervision Cost	L.S.		1		9600
	Contingency @ 15 % over previous year	L.S.				3802
<i>sub total</i>						272564
I	6th YEAR MAINTENANCE	@ Rs. 387 /DL				
	Climber cutting, other silvicultural works and fire protection works @15 DLs/ha	DLs	15	180	386	69480
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 4 DLs/ha	DLs	4	48	386	18528
	Watch and ward for the plantation area(1DL for 365 days).	DLs		365	386	140890
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S.				16105
	Supervision Cost	L.S.				9600
	Contingency @ 15 % over previous year	L.S.				4373
	<i>sub total</i>					258976
	7th YEAR MAINTENANCE	@ Rs. 425 /DL				
J	Climber cutting, other silvicultural works and fire protection works @ 12 DLs/ha	DLs	12	144	425	61200
	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	60	425	25500
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S.				17716
	Supervision Cost	L.S.				9600
	Contingency @ 15 % over previous year	L.S.				5028
	<i>sub total</i>					119044
	8th YEAR MAINTENANCE	@ Rs. 468 /DL				
	Climber cutting, other silvicultural works and fire protection works @ 8 DLs/ha	DLs	8	96	468	44928
	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	60	468	28080
K	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S.				19487
	Supervision Cost	L.S.				9600
	Contingency @ 15 % over previous year	L.S.				5783
	<i>sub total</i>					107878

I 9 th YEAR MAINTENANCE		@ Rs.		514 /DL	
Climber cutting, other silvicultural works and fire protection works @ 7 DLs/ha	DLs	7	84	515	43260
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	60	515	30900
Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S.				21436
Supervision Cost	L.S.				9600
Contingency @ 15 % over previous year	L.S.				6650
<i>sub total</i>					111846
M 10 th YEAR MAINTENANCE		@ Rs.		566 /DL	
Climber cutting, other silvicultural works, fire protection works @ 6 DLs/ha	DLs	6	72	567	40824
Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 4 DLs / ha	DLs	4	48	567	27216
Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S.				23579
Supervision Cost	L.S.				9600
Contingency @ 15 % over previous year	L.S.				7648
<i>sub total</i>					108867
Total					5460899
and 50% overhead cost					= 2730449
GRAND TOTAL					= 8191348
(Rupees eighty one lakhs ninety one thousand three hundred forty eight) 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 ft below ground & 4.5 ft above ground) with readymade concrete base of 1 ft width for fixing.


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