

Estimate for the creation and maintenance of 5.0 Ha. Compensatory Afforestation at Karea Pahar in lieu of of the Quarry namely Nakkati Hill Stone Quarry No. 2 under Aie Valley Division, Bongaigaon


Area(Ha.)	-	5.0 Ha.
Species (m X m)	-	2x2
Number of saplings/Ha.	-	2500
Length of Fence (R.M)	-	550
Wage Rate for the 1st year (Rs.)	-	250
Increase in wage rate for subsequent years by a		1.1
Appreciation of material costs by a factor		1.1


Sl. No.	Particulars of works	Units	Qty/ Ha.	Total Qty	Rate / Unit	Amount (Rs.)
A.	ERECTION OF FENCING		@Rs. 250/DL			
	a) Cost of full chain -linked Goat Proofing 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 550 RM @ 800 per RM as per estimate.	RMs		550	800	440,000
	b) Wages of DLS for carrying, fitting, fixing etc. of fencing materials @ 20 DLs/100RM	DLs		110	250	27,500
	Sub-Total =					467,500
B.	INFRASTRUCTURE IN PLANTATION AREA					
	Construction of camp hut	Nos.		1	50,000	50,000
	Installation of ring/tube well (at least one upto 10 ha. & thereafter two per every 25 ha.).	Nos.		1	50,000	50,000
	Cost of tools & implements (One unit upto 25 ha. & thereafter one unit per every 25 Ha.)	nos.		1	10,000	10,000
	Camp accessories @Rs.10,000/- per camp.	nos.		1	10,000	10,000
	Construction of Inspection Path 250 RM @Rs.50/- RM	RMs		250	50	12,500
	Sub-Total =					132,500
C.	ADVANCE WORK					
	Site selection, surveying, demarcation, jungle cutting, burning etc. @ 20 DLs/Ha	DLs	20	100	250	25,000
	Preparation and acquisition of polypot saplings in the field nursery for planting 2500 nos. seedling/ha. @ Rs. 6/- per polypot.	nos.	2500	12500	6	75,000
	Preparation of polypot saplings in the field nursery for vacancy filling.					0
	a) 25% mortality expected during 1st year (to be planted in the field during the 2nd year) i.e. 625 seedling/ha. @ 6.5/per polypot.	nos.	625	3125	6.5	20,313
	b) 20% mortality expected during 2nd year (to be planted in the field during the 3rd year) i.e. 500 seedlings/ha.@ 7/- polypot.	nos.	500	2500	7	17,500
	c) 15% mortality expected during 3rd year (to be planted in the field during the 4th year) i.e. 375 seedlings/ha.@ 7.5/polypot.	nos.	375	1875	7.5	14,063
	Cost of Bamboo, making of stacking & transportation etc.	LS				5,000
	Line alignment, carriage of stacking materials and fixing the stacking @ 5 DLs/ha.	DLs	5	25	250	6,250
	Sub-Total =					163,125
D.	CREATION & 1ST YEAR MAINTENANCE					
	Soil working, carriage of stumps, polypot seedlings & 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	200	250	50,000
	5 weeding, mulching and fire protection works @ 18 DLs ha/weeding	DLS	90	450	250	112,500
	Maintenance and protection of field nursery and watch and ward for the plantation area (1 DL for 365 days)	DLS	1	365	250	91,250
	Sub-Total =					253,750

E.	<u>2ND YEAR MAINTENANCE</u>	@Rs. 264/DL				
	5 weeding, fire protection works @ 10 DLs ha/weeding.	DLs	50	250	264	66,000
	25% vacancy filling by 1 year old seedlings from nursery @ 10 DLs/ha.	DLs	10	50	264	13,200
	Maintenance and protection of field nursery and watch and ward for the plantation area (1 DL for 365 days)	DLs		365	264	96,360
	Sub-Total =					175,560
F.	<u>3RD YEAR MAINTENANCE</u>	@Rs. 290/DL				
	4 wedding, fire protection works @ 8 DLs ha/weeding.	DLS	8	160	290	2,320
	20% vacancy filling by 2 year old seedlings from nursery @ 8 DLs/ha.	DLs	8	40	290	2,320
	Maintenance and protection of field nursery and watch and ward for the plantation area (1 DL for 365 days)	LS		365	290	105,850
	Sub-Total =					110,490
G.	<u>4TH YEAR MAINTENANCE</u>	@Rs. 319/DL				
	4 weeding, fire protection works @ 8 DLs ha/weeding.	DLS	8	160	319	2,552
	15% vacancy filling by 2 year old seedlings from nursery @ 6 DLs/ha.	DLs	6	30	319	1,914
	Maintenance and protection of field nursery and watch and ward for the plantation area (1 DL for 365 days)	DLs		365	319	116,435
	Sub-Total =					120,901
H.	<u>5TH YEAR MAINTENANCE</u>	@Rs. 350/DL				
	Climber cutting, weeding and other silvicultural works and fire protection works @ 5 DLs / ha.	DLs	5	25	350	8,750
	Maintenance of camp huts, implements, ring/tube well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	Ls				15,000
	Watch and ward for the plantation area (1DL for 365 days)	DLs		365	350	127,750
	Sub-Total =					151,500
I.	<u>6TH YEAR MAINTENANCE</u>	@Rs. 385/DL				
	Climber cutting, other silvicultural works and fire protection works @ 5 DLs / ha.	DLs	5	25	385	9,625
	Contingency	Ls				5,000
	Sub-Total =					14,625
J.	<u>7TH YEAR MAINTENANCE</u>	@Rs. 423/DL				
	Climber cutting, other silvicultural works and fire protection works @ 5 DLs / ha.	DLs	5	25	423	10,575
	Maintenance of camp huts, implements, ring/tube well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	Ls				15,000
	Contingency	Ls				5,000
	Sub-Total =					30,575
K.	<u>8TH YEAR MAINTENANCE</u>	@Rs.465/DL				
	Climber cutting, other silvicultural works and fire protection works @ 5 DLs / ha.	DLs	5	25	465	11,625
	Contingency	Ls				5,000
	Sub-Total =					16,625
L.	<u>9TH YEAR MAINTENANCE</u>	@Rs.511/DL				
	Climber cutting, other silvicultural works and fire protection works @ 5 DLs / ha.	DLs	5	25	511	12,775
	contingency	LS				724
	Sub-Total =					13,499
M.	<u>10TH YEAR MAINTENANCE</u>	@Rs. 562/DL				
	Climber cutting, other silvicultural works and fire protection works @ 5 DLs / ha.	DLs	5	25	562	14,050
	Sub-Total =					14,050
	Total =					1,664,700

Abstract

Erection of fencing	-	467,500
Infrastructure in Plantation Area	-	132,500
Advance works	-	163,125
Creation & 1st year maint.	-	253,750
2nd year maintenance	-	175,560
3rd year maintenance	-	110,490
4th year maintenance	-	120,901
5th year maintenance	-	151,500
6th year maintenance	-	14,625
7th year maintenance	-	30,575
8th year maintenance	-	16,625
9th year maintenance	-	13,499
10th year maintenance	-	14,050
	<i>Total</i>	1,664,700
50% Over Head Cost of Compensatory Afforestation	-	832,350
	<i>Grand Total</i>	2,497,050


Technically approved
Joint Assam Social Forestry Circle
Panbazar, Assam

Submitted

Divisional Forest Officer
Aie valley Division
Bongaigaon