

Estimate for the creation and maintenance of 5.0 Ha. Compensatory Afforestation at Karea Pahar in lieu of of the Quarry namely Bhairab Hill Stone Quarry 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
Annreciation 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, pollypot seedlings & Planting at the plantation site including dibbling of seeds wherever neccessaary 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 by
Joint Assam Social Forestry Circle
Panbaisan, Assam

Submitted

Divisional Forest Officer
Aie valley Division
Bongaigaon