

Estimate for the creation and maintenance of 5.0 Ha. Compensatory Afforestation at Dakhin Mandakata of district Kamrup, Assam against diversion of forest land for Kumnagar Stone Quarry Area no. 2 Mahal under North Kamrup

Division

Area(Ha.)	-	5.0 Ha.
Species (m X m)	-	2x2
Number of saplings/Ha.	-	2500
Length of Fence (R.M)	-	625
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.	<u>ERECTION OF FENCING</u>		@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 625 RM @ 800 per RM as per estimate.	RMs		625	800	5,00,000
	b) Wages of DLS for carrying, fitting, fixing etc. of fencing materials @ 20 DLS/100RM	DLS		125	250	31,250
	Sub-Total =					5,31,250
B.	<u>INFRASTRUCTURE IN PLANTATION AREA</u>					
	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 =					1,32,500
C.	<u>ADVANCE WORK</u>					
	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 =					1,63,125

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	1,12,500
	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 =					2,53,750
E.	2ND YEAR MAINTENANCE	@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 =					1,75,560
F.	3RD YEAR MAINTENANCE	@Rs. 290/DL				
	4 wedding, fire protection works (@ 8 DLs ha/weeding.	DLS	8	160	290	46,400
	20% vacancy filling by 2 year old seedlings from nursery (@ 8 DLs/ha.	DLs	8	40	290	11,600
	Maintenance and protection of field nursery and watch and ward for the plantation area (1 DL for 365 days)	LS		365	290	1,05,850
	Sub-Total =					1,63,850
G.	4TH YEAR MAINTENANCE	@Rs. 319/DL				
	4 weeding, fire protection works (@ 8 DLs ha/weeding.	DLS	8	160	319	51,040
	15% vacancy filling by 2 year old seedlings from nursery (@ 6 DLs/ha.	DLs	6	30	319	9,570
	Maintenance and protection of field nursery and watch and ward for the plantation area (1 DL for 365 days)	DLs		365	319	1,16,435
	Sub-Total =					1,77,045
H.	5TH YEAR MAINTENANCE	@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	1,27,750
	Sub-Total =					1,51,500
I.	6TH YEAR MAINTENANCE	@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.	7TH YEAR MAINTENANCE	@Rs. 423/DL				
	Climber cutting, other silvicultural works and fire protection works (@ 5 DLs / ha.	DLs	5	25	423	10,575

J.	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 =						18,37,954

Abstract

Erection of fencing	-	5,31,250
Infrastructure in Plantation Area	-	1,32,500
Advance works	-	1,63,125
Creation & 1st year maint.	-	2,53,750
2nd year maintenance	-	1,75,560
3rd year maintenance	-	1,63,850
4th year maintenance	-	1,77,045
5th year maintenance	-	1,51,500
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
	Total	18,37,954
50% Over Head Cost of Compensatory Afforestation	-	9,18,977
	Grand Total	27,56,931

Technically approved.
10.12.18

Submitted
Divisional Forest Officer