

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 Gopeswar East Stone Quarry No.1 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.	<b><u>ERECTION OF FENCING</u></b>	<b>@Rs. 250/DL</b>				
	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	500,000
	b) Wages of DLS for carrying, fitting, fixing etc. of fencing materials @ 20 DLS/100RM	DLS		125	250	31,250
	<b>Sub-Total =</b>					<b>531,250</b>
B.	<b><u>INFRASTRUCTURE IN PLANTATION AREA</u></b>					
	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
	<b>Sub-Total =</b>					<b>132,500</b>
C.	<b><u>ADVANCE WORK</u></b>					
	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
	<b>Preparation of polypot saplings in the field nursery for vacancy filling.</b>					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
	<b>Sub-Total =</b>					<b>163,125</b>



D.	<b>CREATION &amp; 1ST YEAR MAINTENANCE</b>					
	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
	<b>Sub-Total =</b>					<b>2,53,750</b>
E.	<b>2ND YEAR MAINTENANCE</b>	@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
	<b>Sub-Total =</b>					<b>1,75,560</b>
F.	<b>3RD YEAR MAINTENANCE</b>	@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
	<b>Sub-Total =</b>					<b>1,63,850</b>
G.	<b>4TH YEAR MAINTENANCE</b>	@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
	<b>Sub-Total =</b>					<b>1,77,045</b>
H.	<b>5TH YEAR MAINTENANCE</b>	@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
	<b>Sub-Total =</b>					<b>1,51,500</b>
I.	<b>6TH YEAR MAINTENANCE</b>	@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
	<b>Sub-Total =</b>					<b>14,625</b>
J.	<b>7TH YEAR MAINTENANCE</b>	@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, upkeep of plantation, signboard, documentation & upkeep of records etc.	Ls				15,000
	Contingency	Ls				5,000
	Sub-Total =					30,575
K.	8TH YEAR MAINTENANCE	@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.	9TH YEAR MAINTENANCE	@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.	10TH YEAR MAINTENANCE	@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
	<b>Total</b>	<b>18,37,954</b>
50% Over Head Cost of Compensatory Afforestation	-	9,18,977
	<b>Grand Total</b>	<b>27,56,931</b>

Technically Approved

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10.12.18  
Chief Conservator  
Central Area  
Guwahati

Submitted

Divisional Forest Officer