

## **SCHEME FOR COMPENSATORY AFFORESTATION**

Detail scheme for Compensatory Afforestation to be carried out in lieu of **0.71 ha** of forest area to be diverted for **Construction of New BG Railway Line from New Maynaguri to Jogighopa in Parbatjhora** Division in **Kokrajhar** District.

### **1. Detail of degraded forest land /non-forest land:-**

District: **Kokrajhar** Name of Division: **Parbatjhora Division**

Range: **Khoraghat** RF: **Mahamaya** Compartment No. **Nil**

Area to be afforested: **1.42 ha (twice the area proposed to be diverted)**

### **2. Description of Area**

i. Topography: a. Plain land

b. Slope: Gentle.

ii. Whether the area is bearing any root stock of vegetation: Barren land

### **3. Technical details**

Technical details of Compensatory Afforestation Scheme are as follows:-

(a) Spacing: 2m X 2m

(b) Species: *Shorea robusta*, *Gmelina arborea*, *Michaelia champaka*, *Amlokhi*, *Bohera* etc.

(c) Plantation Method: Planting through Seedlings

### **4. Plantation Scheme:**

Area (ha)	=	1.42
Spacing (m X m)	=	2 X 2
Number of Saplings/ ha	=	2500
Length of Fence (RM)	=	507
Wage rate for the 1st year(Rs.)	=	179
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.)
<b>A</b>	<b>ERECTION OF FENCING</b>			<b>@Rs.</b>	<b>179</b>	<b>/DL</b>
	(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 <b>507</b> RM @ Rs. 800 per RM as per estimate	RMs		507	800	405600
	(b) Wages of DLs for carrying, fitting, fixing etc. of fencing materials @ 20 DLs/ 100 RM	DLs		101	179	18151
	<b>Sub-total</b>					<b>423751</b>
<b>B</b>	<b>INFRASTRUCTURE IN PLANTATION AREA</b>			-	-	
	Construction of camp hut (atleast one upto 25 ha & thereafter one per every 25 ha) as per estimate	nos.		1	1,50,000	150000
	Installation of ring/tube well (atleast one upto 10 ha & thereafter two per every 25 ha)	nos.		1	50,000	50000
	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 1400 RM @ Rs. 50/- RM	RMs		253.5	50	12675
	<b>sub total</b>					<b>342675</b>
<b>C</b>	<b>ADVANCE WORK</b>			<b>@Rs.</b>	<b>179</b>	<b>/DL</b>
	Site selection, surveying, demarcation, jungle cutting, burning etc. 20 DLs/ha	DLs	20	28.4	179	5084
	Preparation and acquisition of polypot saplings in the field nursery for planting 2500 Nos. Seedlings/ ha @ Rs.6/- per polypot	nos.	2500	3550	6	21300
	<b>Preparation of polypot saplings in the field nursery for vacancy filling</b>					
	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	887.5	6.5	5769
	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	710	7	4970
	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	532.5	7.5	3994
	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	355	8	2840
	Cost of Bamboo, making of stacking & transportation etc	nos.	625	887.5	1	888
	Line alignment, carriage of stacking materials and fixing the stacking @ 5 DLs/ha	DLs	5	7.1	179	1271
	Supervision and Monitoring	L.S.				10000
	<b>Sub total</b>					<b>56115</b>

S.No.	Particulars of works	Units	Qty./ha	Total Qty.	Rate / Unit	Amount (Rs.)
<b>D</b>	<b>CREATION &amp; 1<sup>st</sup> YEAR MAINTENANCE</b>	<b>@Rs. 179 /DL</b>				
	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	57	179	10167
	5 weedings, mulching and fire protection works @ 18 DLs/ha/weeding	DLs	90	128	179	22876
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	7	179	1271
	Maintenance and protection of field nursery and watch and ward for the plantation area(1DL for 365 days).	DLs		365	179	65335
	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.		1.42	800	1136
	<b>Sub total</b>					<b>110785</b>
<b>E</b>	<b>2<sup>nd</sup> YEAR MAINTENANCE</b>	<b>@ Rs. 197 /DL</b>				
	5 weedings, fire protection works @ 15 DLs/ha/weeding	DLs	75	107	197	20970
	25% Vacancy filling by 1 year old seedlings from nursery@ 10DLs/ha	DLs	10	14	197	2796
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	7.1	197	1398
	Maintenance and protection of field nursery and watch and ward for the plantation area(1DL for 365 days).	DLs		365	197	71869
	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		1136
	Contingency L.S.	L.S.				2500
	<b>sub total</b>					<b>111668</b>
<b>F</b>	<b>3<sup>rd</sup> YEAR MAINTENANCE</b>	<b>@ Rs. 217 /DL</b>				
	4 weedings, fire protection works @15 DLs/ha/weeding	DLs	60	85	217	18453
	20% Vacancy filling by 2 year old seedlings from nursery@ 8DLs/ha	DLs	8	11	217	2460
	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	7.1	217	1538
	Maintenance and protection of field nursery and watch and ward for the plantation area(1DL for 365 days).	DLs		365	217	79055
	Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records	L.S.				12100
	Supervision Cost	L.S.		1		1136
	Contingency @ 15 % over previous year	L.S.				2875
	<b>Sub total</b>					<b>117618</b>

S.No.	Particulars of works	Units	Qty./ha	Total Qty.	Rate / Unit	Amount (Rs.)
<b>G</b>	<b>4<sup>th</sup> YEAR MAINTENANCE</b>	<b>@ Rs. 238 /DL</b>				
	4 weedings, fire protection works @15 dls/ha/weeding	DLs	60	85	238	20299
	15% Vacancy filling by 2 year old seedlings from nursery@ 6DLs/ha	DLs	6	9	238	2030
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	7.1	238	1692
	Maintenance and protection of field nursery and watch and ward for the plantation area(1DL for 365 days).	DLs		365	238	86961
	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		1136
	Contingency @ 15 % over previous year	L.S.				3306
	<b>sub total</b>					<b>128733</b>
<b>H</b>	<b>5<sup>th</sup> YEAR MAINTENANCE</b>	<b>@ Rs. 262 /DL</b>				
	Climber cutting, weeding & other silvicultural works and fire protection works @ 15DLs/ha	DLs	15	28	262	7443
	10% Vacancy filling by 2 year old seedlings from nursery@ 4DLs/ha	DLs	4	6	262	1489
	Maintenance & fencing post replacement @ 3% initial cost of material			0.03	405600	12168
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 4 DLs/ha	DLs	4	5.68	262	1489
	Watch and ward for the plantation area(1DL for 365 days).	DLs		365	262	95657
	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		1136
	Contingency @ 15 % over previous year	L.S.				3802
	<b>sub total</b>					<b>137824</b>
<b>I</b>	<b>6<sup>th</sup> YEAR MAINTENANCE</b>	<b>@ Rs. 288 /DL</b>				
	Climber cutting, other silvicultural works and fire protection works @15 DLs/ha	DLs	15	21	288	6140
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 4 DLs/ha	DLs	4	5.68	288	1637
	Watch and ward for the plantation area(1DL for 365 days).	DLs		365	288	105223
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S.				16105
	Supervision Cost	L.S.				1136
	Contingency @ 15 % over previous year	L.S.				4373
	<b>sub total</b>					<b>134614</b>

S.No.	Particulars of works	Units	Qty./ha	Total Qty.	Rate / Unit	Amount (Rs.)
<b>J</b>	<b>7<sup>th</sup> YEAR MAINTENANCE @ Rs. 317 /DL</b>					
	Climber cutting, other silvicultural works and fire protection works @ 12 DLs/ha	DLs	12	17	317	5404
	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	7.1	317	2251
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S.				17716
	Supervision Cost	L.S.				1136
	Contingency @ 15 % over previous year	L.S.				5028
	<b>sub total</b>					<b>31535</b>
<b>K</b>	<b>8<sup>th</sup> YEAR MAINTENANCE @ Rs. 349 /DL</b>					
	Climber cutting, other silvicultural works and fire protection works @ 8 DLs/ha	DLs	8	11	349	3963
	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	7.1	349	2477
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S.				19487
	Supervision Cost	L.S.				1136
	Contingency @ 15 % over previous year	L.S.				5783
	<b>sub total</b>					<b>32845</b>
<b>l</b>	<b>9<sup>th</sup> YEAR MAINTENANCE @ Rs. 384 /DL</b>					
	Climber cutting, other silvicultural works and fire protection works @ 7 DLs/ha	DLs	7	10	384	3814
	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	7.1	384	2724
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S.				21436
	Supervision Cost	L.S.				1136
	Contingency @ 15 % over previous year	L.S.				6650
	<b>sub total</b>					<b>35760</b>
<b>M</b>	<b>10<sup>th</sup> YEAR MAINTENANCE @ Rs. 422 /DL</b>					
	Climber cutting, other silvicultural works, fire protection works @ 6 DLs/ha	DLs	6	9	422	3596
	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	5.68	422	2397

S.No.	Particulars of works	Units	Qty./ha	Total Qty.	Rate / Unit	Amount (Rs.)
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S.				23579
	Supervision Cost	L.S.				1136
	Contingency @ 15 % over previous year	L.S.				7648
	<i>sub total</i>					38356
<b>Total Cost of Plantation</b>						<b>1702280</b>
<b>Overhead Expenditure (50 % of the Plantation Cost)</b>						<b>851140</b>
<b>Grand Total Cost (Plantation + Overhead Expenditure)</b>						<b>2553420</b>

Say Rs. 25.53 Lakhs

*(Rupees Twenty Five Lakh Fifty Three Thousand)*

*Submitted,*

*Technically Approved by,*

Additional Principal Chief Conservator of Forests &  
Council Head of Department, Forests  
Bodoland Territorial Council, Kokrajhar

Divisional Forest Officer,  
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