

**Annexure I Detail Scheme for Compensatory Afforestation
to be carried out in lieu of 23.547 ha of Forest Land to be diverted for Construction of
4 Laning work from Gohpur to Holongi(NH52A) in Gohpur RF**

1 Detail of degraded forest land/non-forest land:

- a) District Sonitpur,
- b) Name of Division Sonitpur
- c) Range Borgang Range, Gohpur Beat.
- d) Reserved Forest Gohpur RF
- e) Compartment No. Nil.
- f) Area to be afforested 47.094 ha (twice the area proposed to be diverted).

Say :

48 Ha.

4100.00 RM

Length of Fencing

2 Description of area:

i) Topography:

- ii) Whether the area is bearing any root stock of vegetation

- a) Plain Land.
- b) Slope: Gentle.

Barren land.

NORM FOR 48 ha BLOCK PLANTATION

Area (ha)	=	48
Spacing (in X m)	=	2 X 2
Number of Saplings/ ha	=	2500
Length of Fence (RM)	=	4100
Wage rate for the 1st year(Rs.)	=	240
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 (@Rs.)	Amount (Rs.)
A ERECTION OF FENCING						
(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 4100 RM (@ Rs. 800 per RM as per estimate	RMS		4100	800	3280000	
(b) Wages of DLs for carrying, fitting fixing etc. of fencing materials @ 20 DLS/100 RM	DLS		820	240	196800	
B INFRASTRUCTURE IN PLANTATION AREA						
Construction of camp hut (atleast one upto 25 ha & thereafter one per every 25 ha) as per estimate	nos.		2	1,50,000	300000	
Installation of ring/tube well (atleast one upto 10 ha & thereafter two per every 2.5 ha)	nos.		4	50,000	200000	
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.		2	10,000	20000	

Cost of RCC signboard & Gate including fitting and fixing of the same (atleast one upto 25 ha & thereafter one per every 25 ha)	nos.	2	60,000	120000
Camp accessories @ Rs. 10,000/ per camp	nos.	2	10,000	20000
Construction of Inspection Path 1400 RM @ Rs. 50/- RM	RMS	2050	50	102500
Construction of Staff quarters as per estimate (One unit for 10 to 50 ha & thereafter one unit per every 50 ha)	nos.	1	8,00,000	800000
Provision of Solar energy for staff quarters including installation	nos.	1	70,000	70000
	<i>Sub total</i>			1682500
C ADVANCE WORK				
Site selection, surveying, demarcation, jungle cutting, burning etc. 20 DLs/ha	DLs	20	960	240 /DL
Preparation and acquisition of polypot saplings in the field nursery for planting 2500 Nos. Seedlings/ ha @ Rs.6/- per polypot	nos.	2500	120000	6 /DL
Preparation of polypot saplings in the field nursery for vacancy filling				
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	30000	6.5 /DL
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	24000	7 /DL
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	18000	7.5 /DL
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	12000	8 /DL
Cost of Bamboo, making of stacking & transportation etc	nos.	625	30000	1 /DL
Line alignment, carriage of stacking materials and fixing the stacking @ 5 DLs/ha	DLs	5	240	240 /DL
Supervision and Monitoring	L.S.			20000
	<i>Sub total</i>			1652000
D CREATION & 1st YEAR MAINTENANCE				
	<i>Sub total</i>		<i>@RS.</i>	240 /DL

Soil working, carriage of stumps, poly pot 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					
5 weedings, mulching and fire protection works @ 18 DLs/ha/weeding	DLs	40	1920	240	460800
Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	240	240	1036800
Maintenance and protection of field nursery (1 DL for 365 days) and watch and ward for the plantation area(2 DL for 365 days).	DLs	1095	240	262800	
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.	48	800	38400	
E 2nd YEAR MAINTENANCE					
Sub total				1866400	
5 weedings, fire protection works @ 15 DLs/ha/weeding	DLs	75	3600	264	950400
25% Vacancy filling by 1 year old seedlings from nursery@ 10DLs/ha	DLs	10	250	264	66000
Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	240	264	63360
Maintenance and protection of field nursery (1 DL for 365 days) and watch and ward for the plantation area(2 DL for 365 days).	DLs	1095	264	289080	
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		38400	
Contingency L.S.	L.S.			5000	
Sub total				1423240	
F 3rd YEAR MAINTENANCE					
4 weedings, fire protection works @15 DLs/ha/weeding	DLs	60	2880	290	835200
20% Vacancy filling by 2 year old seedlings from nursery@ 8DLs/ha	DLs	8	384	290	111360

Protection work, cattle watching, upkeep of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	240	290	69600
Maintenance and protection of field nursery (1 DL for 365 days) and watch and ward for the plantation area(2 DL for 365 days).	DLs		1095	290	317550
Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of record	L.S.				12100
Supervision Cost	L.S.		1		38400
Contingency @ 15 % over previous year	L.S.				5750
					Sub total
					1389960
G 4th YEAR MAINTENANCE				@ RS.	319 /DL
4 weedings, fire protection works @15 dls/ha/weeding	DLs	60	2880	319	918720
15% Vacancy filling by 2 year old seedlings from nursery@ 6DLs/ha	DLs	6	288	319	91872
Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	240	319	76560
Maintenance and protection of field nursery (1 DL for 365 days) and watch and ward for the plantation area(2 DL for 365 days).	DLs		1095	319	349305
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		38400
Contingency @ 15 % over previous year	L.S.				6613
					sub total
					1494780
H 5th YEAR MAINTENANCE				@ RS.	351 /DL
Climber cutting, weeding & other silvicultural works and fire protection works @ 15DLs/ha	DLs	15	960	351	336960
10% Vacancy filling by 2 year old seedlings from nursery@ 4DLs/ha	DLs	4	192	351	67392
Maintenance & fencing post replacement @ 3% initial cost of material			0.03	3280000	98400
Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 4 DLs/ha	DLs	4	192	350	67200

Watch and ward for the plantation area(2 DL for 365 days).	DLs	730	351	256510
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		38400
Contingency @ 15 % over previous year	L.S.			7604
	<i>sub total</i>			887108
I 6th YEAR MAINTENANCE		<i>@ Rs.</i>	<i>387 /DL</i>	
Climber cutting, other silvicultural works and fire protection works @15 DLs/ha	DLs	15	720	387
Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 4 DLs/ha	DLs	4	192	387
Watch and ward for the plantation area(2 DL for 365 days).	DLs	730	387	282510
Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S.			16105
Supervision Cost	L.S.			38400
Contingency @ 1.5 % over previous year	L.S.			8745
	<i>sub total</i>			698704
J 7th YEAR MAINTENANCE		<i>@ Rs.</i>	<i>425 /DL</i>	
Climber cutting, other silvicultural works and fire protection works @ 12 DLs/ha	DLs	12	576	425
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	240	425
Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S.			17716
Supervision Cost	L.S.			38400
Contingency @ 15 % over previous year	L.S.			10057

K	8 th YEAR MAINTENANCE	sub total	@ Rs.		412972 /DL
			DLs	8	
Climber cutting, other silvicultural works and fire protection works @ 8 DLs/ha	DLs	8	384	468	179712
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	240	468	112320
Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S.				19487
Supervision Cost	L.S.				38400
Contingency @ 15 % over previous year	L.S.				11565
	<i>sub total</i>				361484
I 9 th YEAR MAINTENANCE		@ Rs.		514 /DL	
Climber cutting, other silvicultural works and fire protection works @ 7 DLs/ha	DLs	7	336	514	172704
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	240	514	123360
Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S.				21436
Supervision Cost	L.S.				38400
Contingency @ 15 % over previous year	L.S.				13300
	<i>sub total</i>				369200
M 10 th YEAR MAINTENANCE		@ Rs.		566 /DL	
Climber cutting, other silvicultural works, fire protection works @ 6 DLs/ha	DLs	6	288	566	163008
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	192	566	108672
Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S.				23579

Supervision Cost	L.S.	38400
Contingency @ 15 % over previous year	L.S.	15295
	<i>sub total</i>	34895
Grand Total		
Total Overhead expenditure 50% Total		16064103
TOTAL		8032051
		24096154

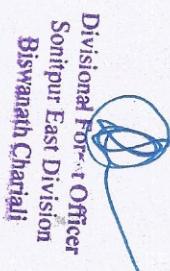
**Rs 2,40,96,154.00 (Rupees Two crore forty lakhs
ninety six thousand one hundred fifty four only)**

NOTE:

Cost escalation of 10 % annually has been considered for wages

The norms should be revised annually based on wage rate & cost of materials

*Pre-cast RCC pillar with 5"x5" cross-section- of 6 ft height (1.5 ft below ground & 4.5 ft above ground) with ready-made concrete base of 1 ft width for fixing.



Divisional Forest Officer
Sonipur East Division
Biswanath Chariali