

**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 Lining work from Gohpur to Holongli(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). |

Length of Fencing

Say : 48 Ha.
 : 4100.00 RM

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. |

NORM FOR 48 ha BLOCK PLANTATION

Area (ha)	=	48
Spacing (m 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	Amount (Rs.)
A	ERECTION OF FENCING			@Rs.	240	/DL
	(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
	<i>Sub-total</i>					3476800
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 25 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

C	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	
	sub total				1682500	
C	ADVANCE WORK			@Rs.	240 /DL	
	Site selection, surveying, demarcation, jungle cutting, burning etc. 20 Dls/ha	Dls	20	960	240	230400
	Preparation and acquisition of polypot saplings in the field nursery for planting 2500 Nos. Seedlings/ ha @ Rs.6/- per polypot	nos.	2500	120000	6	720000
	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	195000
	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	168000
D	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	135000
	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	96000
	Cost of Bamboo, making of stacking & transportation etc	nos.	625	30000	1	30000
	Line alignment, carriage of stacking materials and fixing the stacking @ 5 Dls/ha	Dls	5	240	240	57600
	Supervision and Monitoring	L.S.				20000
	Sub total					1652000
D	CREATION & 1 st YEAR MAINTENANCE			@Rs.	240 /DL	

E	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	1920	240	460800
	5 weeding, mulching and fire protection works @ 18 DLs/ha/weeding	DLs	90	4320	240	1036800
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	240	240	57600
	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
	Sub total					1866400
	2nd YEAR MAINTENANCE			@ Rs.	264	/DL
	5 weeding, 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
F	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
	3rd YEAR MAINTENANCE			@ Rs.	290	/DL
	4 weeding, 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

G	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	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 records	L.S.				12100
	Supervision Cost	L.S.		1		38400
	Contingency @ 15 % over previous year	L.S.				5750
	Sub total					1389960
	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
H	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
	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	@ Rs. 387 /DL				
	Climber cutting, other silvicultural works and fire protection works @15 DLs/ha	DLs	15	720	387	278640
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 4 DLs/ha	DLs	4	192	387	74304
	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 @ 15 % over previous year	L.S.				8745
	<i>sub total</i>					698704
J	7th YEAR MAINTENANCE	@ Rs. 425 /DL				
	Climber cutting, other silvicultural works and fire protection works @ 12 DLs/ha	DLs	12	576	425	244800
	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	102000
	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

									412972
K	8 th YEAR MAINTENANCE			@ Rs.	468	/DL			
	Climber cutting, other silvicultural works and fire protection works @ 8 Dls/ha	DLS	8	384	468	177912			
	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.							
Contingency @ 15 % over previous year		L.S.							38400
									15295
									348955
Grand Total									16064103
Total Overhead expenditure 50% Total									8032051
TOTAL									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 readymade
concrete base of 1 ft width for fixing.

Divisional Engineer
Sonitpur East Division
Biswanath Chariati