

## Compensatory Afforestation 86.00 Ha Block Plantation of L.K.H.E.P. A. of APGCL



Aran (Un)	
Area (Ha)	86
Spacing (mXm)	2X2
Number of Saplings/ha	2500
Length of JFence (RM)	4228
Wage rate for the 1 <sup>st</sup> year (Rs.)	240
Increase in wage for subsequent years by a factor	1.1
Appreciation of material costs by a factor	1.1

SI No.	Particulars of works	Units	Qty./ ha	Total Qty.	Rate/Unit	Amount
Α	ERECTION OF FENCING		1	0.0	101-1	(Rs.
	(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 I of fencing materials to site for	RMs		@ Rs. 2	800	33,82,400
h	4228 RM! @ RS. 800 per RM as per estimate  (b) Wages of DLs for carrying, fitting, fixing etc.	DLs		0.15	Special Control of the Control of th	
,	of fencing materials @ 20 DLs/ 100 RM	DLS		846	240	2,03,040
D	Sub Total					35,85,440
В	INFRASTRUCTURE IN PLANTATION AREA					33,03,440
	Construction of camp hut (at least one upto 25 ha & thereafter one per every 25 ha) as per estimate	Nos.		4	1,50,000	6,00,000
	Installation of ring/tube well (atleast one upto 10 ha & thereafter two per every 25 ha)	Nos.		7	50,000	3,50,000
	Irrigation facility with Diesel generator and hose pipes for watering the nursery and plantation (during dry spells)	Nos.		2	50,000	1,00,000
1-	Cost of tools & implements (One unit upto 25 ha & thereafter one unit per every 25 ha)	Nos.		4	10,000	40,000
	Cost of RCC signboard & Gate including fitting and fixing of the same (atleast one upto 25 ha & thereafter one per every 25 ha)	Nos.		4	60,000	2,40,000
	Camp accessories @ Rs. 10,001 per camp	Nos.	- 1	4	10,000	40,000
	Construction of Inspection Path 1400 RM @ Rs. 50/- RM	RMs		3526	50	1,76,300
	Construction of Staff quarter. as per estimate (One unit for 10 to 50 ha & thereafter one unit per every 50 ha)	Nos.		2	8,00,000	16,00,000
H T	Provision of Solar energy for staff quarters including installation	Nos.		2	70,000	1,40,000
	Sub Total	7			¥4,	32,86,300
2	ADVANCE WORK	Y		@	Rs. 240/ DL	1000
j	Site selection, surveying, demarcation, jungle cutting, burning etc. 20 DLs/ha	DLs	20	1720	240	4,12,800
	Preparation and acquisition of polypot saplings in the field nursery for planting 2500 Nos. Seedlings/ ha @ R,.6/- per polypot	Nos.	2500	2,15,000	6	12,90,000
	Preparation of polypot saplings in the field nursery for vacancy filling			e agus		
	a) 25% mortality expected during 1st year (to be planted in the field during the 2nd year) ,i.e., 625 Seedlings/ @ (i.e, Rs 6.5/- per polynot	Nos.	625	53,750	6.5	3,49,375

Scanned by CamScanner

D. (c) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	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 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 during 4th year (to be planted in the field during the 5th year), i.e., 250 Seedlings/ ha @ Rs.8/- per polypot Cost of Bamboo, making of stacking & transportation etc cine alignment, carriage of stacking materials and fixing the stacking @ 5 DLs/ha Supervision and Monitoring  Sub total CREATION & 1st YEAR MAINTENANCE  Soil working, carriage of stumps, polypot seedling and planting at the plantation site including. dibbling of seeds wherever necessary ocomplete raising of plantation with all necessary operation @ 40 DLs/ ha weedings, mulching and fire protection works and the plantation works are the plantation with all the plantation of the protection works are the plantation with all the plantation of the protection works are the plantation with all the plantation and planting and fire protection works are the plantation with all the plantation of the protection works are the plantation with all the plantation and planting and fire protection works are the plantation with all the plantation and planting and fire protection works are the plantation works.	Nos.  Nos.  DLs  L.S	500 375 250 625 5	43,000 32,250 21,500 53,750 430	7.5 8 1 240  @ Rs. 240/ DL	3,01,00 2,41,87 1,72,00 53,750 1,03,200 30,000 29,54,000		
D. (3)	be Planted in the field during the 4th year), i.e., and in the field during the 4th year), i.e., and in the field during the 4th year), i.e., and in the field during the 4th year (to be planted in the field during the 5th year), i.e., and in the field during the 5th year), i.e., and in the field during the 5th year), i.e., and in the field during the 5th year), i.e., and for the field during the 5th year), i.e., and for the field during the 5th year), i.e., and for the field during the 5th year), i.e., and for the field during the 5th year), i.e., and fixing the stacking of stacking & stacking & stacking & stacking and fixing the stacking of 5 DLs/ha supervision and Monitoring  Sub total content of the field during the plantation site including. dibbling of seeds wherever necessary occumplete raising of plantation with all the field during the protection weeks to be seedings, mulching and fire protection weeks.	Nos.  Nos.  DLs  L.S	250 625 5	21,500 53,750 430	8 1 240 @ Rs. 240/ DL	1,72,00 53,750 1,03,200 30,000 29,54,000		
D. (3)	Sub total  CREATION & 1st YEAR MAINTENANCE  Soil working, carriage of stumps, polypot  Cost of Bamboo, making @ 5 DLs/ha  Supervision and Monitoring  CREATION & 1st YEAR MAINTENANCE  Soil working, carriage of stumps, polypot  seedling and planting at the plantation site including. dibbling of seeds wherever necessary o complete raising of plantation with all necessary operation @ 40 DLs/ ha is weedings, mulching and fire protection weekle	Nos.  DLs  L.S  I	625 5	53,750 430	1 240 240 Rs. 240/ DL	53,750 1,03,200 30,000 29,54,000		
D. (S. S. S	Sub total  CREATION & 1 <sup>st</sup> YEAR MAINTENANCE  Soil working, carriage of stumps, polypot seedling and planting at the plantation site including. dibbling of seeds wherever necessary o complete raising of plantation with all necessary operation @ 40 DLs/ ha	DLs L.S  I DLs	5	430	240 240 @ Rs. 240/ DL	1,03,200 30,000 29,54,000		
D. (9)	Sub total  Sub total  CREATION & 1 <sup>st</sup> YEAR MAINTENANCE  Soil working, carriage of stumps, polypot seedling and planting at the plantation site including. dibbling of seeds wherever necessary o complete raising of plantation with all necessary operation @ 40 DLs/ has be weedings, mulching and fire protection weeks.	L.S		(6)	@ Rs. 240/ DL	30,000		
D. (S. S. S	Sub total CREATION & 1 <sup>st</sup> YEAR MAINTENANCE Soil working, carriage of stumps, polypot seedling and planting at the plantation site including, dibbling of seeds wherever necessary o complete raising of plantation with all necessary operation @ 40 DLs/ ha is weedings, mulching and fire protection weeks	DLs	40			29,54,000		
S   S   i   t   r	CREATION & 1 <sup>st</sup> YEAR MAINTENANCE Soil working, carriage of stumps, polypot seedling and planting at the plantation site including. dibbling of seeds wherever necessary o complete raising of plantation with all inecessary operation @ 40 DLs/ has be weedings, mulching and fire protection weeks.	DLs	40					
S   S   i   t   r	Soil working, carriage of stumps, polypot seedling and planting at the plantation site ncluding. dibbling of seeds wherever necessary o complete raising of plantation with all necessary operation @ 40 DLs/ has been weeken and fire protection weeken.		40					
i t r	nceding and planting at the plantation site ncluding. dibbling of seeds wherever necessary o complete raising of plantation with all necessary operation @ 40 DLs/ has been seedings, mulching and fire protection weeks.		40	3440	240	9.75.600		
1 6	and the protection works					0,25,600		
l	2 18 DLs/ha/weeding  Jpkeepment of plantation, and making of	DLs	90	7740	240	18,57,600		
to	o day basis @ 5 DLs/ha	DLs	5	430	240	1,03,200		
p	Maintenance and protection of field nursery (2 DL 365 Days)and watch and ward for the lantation area(2DL for 365 days).	DLs		1460	240	3,50,400		
si re	Maintenance of camp huts, implements, ing/tube- well, upkeepment of plantation, ignboard, documentation, upkeepment of ecords and other misc. work	L.S				20,000		
	wareness & Monitoring @, Rs. 800/ha	L.S		86	800	68,800		
-	YEAR MAINTENANCE					32,25,600		
			@ Rs. 264/ DL					
_ DI	weedings, fire protection works @ 15 Ls/ha/weeding 5% Vacancy filling by 1 year old seedlings from	DLs	75	6450	264	17,02,800		
III	irsery@ 100DLs/ha  bkeepment of plantation, and making of	DLs	10	860	264	2,27,040		
to	spection path, repairing of fence etc. on day day basis @ 5 DLs/ha	DLs	5	430	264	1,13,520		
pla	aintenance and protection of field nursery (2 365 days)and watch and ward for the intation area(2DL for 365 days).	DLs		1460	264	3,85,440		
sign reco	nintenance of camp hut, implements, g/tube- well upkeepment of plantation, aboard, documentation, upkeepment of ords etc.	L.S				22,000		
	pervision Cost	L.S		1		50,000		
Con	atingency L.S.	L.S		*		8,000		
	Sub total					25,08,800		

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1	3RD YEAR MAINTENANCE		@	Rs. 290/ DL	The same section of the section of t	
	4 weedings, fire protection works @15 DLs/ha/weeding	DLs	60	5160	290	14,96,400
	20% Vacancy filling by 2 year old seedlings from nursery@ 8DLs/ha	DLs	8	688	290	1,99,520
	Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day @ 5 DLs/ha	DLs	5	430	290	1,24,700
	DL 365 days)and watch and ward for the plantation area(2DL for 365 days)	DLs	4	1460	290	4,23,400
	Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records	L.S				24,200
7	Supervision Cost	L.S		1		50,000
	Contingency @ 15 % over previous year	L.S				9,200
-	Sub Total					23,27,420
G.	4 <sup>th</sup> YEAR MAINTENANCE		@ Rs. 31	.9/ DL		
	4 weedings, fire protection works @15 dls/ha/weeding	DLs	60	5160	319	16,46,040
	15% Vacancy filling by 2 year old seedlings from nursery @6DLs/ha	DLs	6	516	319	1,64,604
-	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis a. 5 DLs/ha	DLs	5	430	319	1,37,170
-	Maintenance and protection of field nursery (2 DL 365 days) and watch and ward for the plantation area (2DL for 365 days).	DLs	4.	1460	319	4,65,740
- 1 1	Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records etc.	L.S				26,620
	Supervision Cost	L.S		1		50,000
	Contingency @ 15 % over previous year	L.S		¥		10,580
	Sub Total					25,00,754

Н	5 <sup>th</sup> YEAR MAINTENANCE			@ Rs. 351	/ DL	
1	Climber cutting, weeding & other silvicultural works and fire protection works (@ 15DLs/ha)	DLs	15	1290	351	4,52,790
	10% Vacancy filling by 2 year old seedlings from nursery@ 4DLs/ha	DLs	4	344	351	1,20,744
	Maintenance & fencing post replacement @ 3% initial cost of material			0.03	33,82,400	1,01,472
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 4 DLs/ha	DLs	4	344	351	1,20,744
	Watch and ward for the plantation area(3DL for 365 days).	DLs		730	351	2,56,230
1	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S				29,282

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	LS		1	T torms	50,000
Contingency @ 15 % over previous year		2 NOVEL 1	ert en grit fan it grûdt ût nep teanwir second	hindrope Chillery is a remaining	12,167
Sub Total	Na te of the least of the	india a	and the state of t	of the designation of the	11,43,429
The same of the sa		0	Rs. 386/ DL	to make the man	and the second s
tire protection works @15 DLs/ha	DLs	15	1290	386	4,97,940
inspection path, repairing of fence etc. on day to day basis @, 4 DLs/ha	DLs	4	344	386	1,32,784
305 days).	DLs		730	386	2,81,780
Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation &upkeepment of records etc.	t.s	No. of the last of	Total Selection of the consequence		32,210
Supervision Cost	L.S		1		50,000
Contingency @ 15 % over previous year	L.S	AND DESCRIPTION OF THE PARTY OF			13,992
Sub total	and the standard lead of the standard	-	tina dia pina mpina mpina dia mpina mpina dia mpin	er et soon en eeu en operaties over deschet	10,08,706
7 <sup>th</sup> Year Maintenance		@	Rs. 425/ DL		and the second second or other the
Climber cutting, other silvicultural works and fire protection works @ 12 DLs/ha	DLS	12	1032	425	4,38,600
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	430	425	1,82,750
ring/tube- well, upkeepment of plantation, signboard, documentation &upkeepment of records etc.	L.S	Million and the Million and the	\$4.00 to \$1.00 to \$1.	The second secon	35,431
Supervision Cost	1S	ON A STREET STREET, ST	1		50,000
Contingency @ 15 % over previous year	L.S				16,091
Sub-Total			and the second of the second or the second o		7,22,872
	Climber cutting, other silvicultural works and fire protection works @15 DLs/ha  Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @, 4 DLs/ha  Watch and ward for the plantation area(3DL for 365 days).  Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.  Supervision Cost  Contingency @ 15 % over previous year  Sub total  7th Year Maintenance  Climber cutting, other silvicultural works and fire protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs / ha  Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.  Supervision Cost  Contingency @ 15 % over previous year	Sub Total  6th Year Maintenance  Climber cutting, other silvicultural works and fire protection works @15 DLs/ha  Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @, 4 DLs/ha  Watch and ward for the plantation area(3DL for 365 days).  Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.  Supervision Cost  Contingency @ 15 % over previous year  L.S  Sub total  7th Year Maintenance  Climber cutting, other silvicultural works and fire protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5  DLs / ha  Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.  Supervision Cost  L.S  Contingency @ 15 % over previous year  L.S  Contingency @ 15 % over previous year  L.S	Sub Total  6th Year Maintenance  Climber cutting, other silvicultural works and fire protection works @15 DLs/ha  Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @, 4 DLs/ha  Watch and ward for the plantation area(3DL for 365 days).  Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.  Supervision Cost  Contingency @ 15 % over previous year  Climber cutting, other silvicultural works and fire protection works @ 12 DLs/ha  Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5  DLs / ha  Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.  Supervision Cost  L.S  L.S  L.S  L.S  L.S  L.S  L.S  L.	Sub Total  6th Year Maintenance  Climber cutting, other silvicultural works and fire protection works @15 DLs/ha  Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @, 4 DLs/ha  Watch and ward for the plantation area(3DL for 365 days).  Maintenance of camp hut, implements, ring/tube-well, upkeepment of plantation, signboard, documentation & Supkeepment of records etc.  Supervision Cost  Contingency @ 15 % over previous year  Climber cutting, other silvicultural works and fire protection works @ 12 DLs/ha Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs / ha  Maintenance of camp hut, implements, ring/tube-well, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs / ha  Maintenance of camp hut, implements, ring/tube-well, upkeepment of plantation, signboard, documentation & L.S.  L	Sub Total  6th Year Maintenance  Climber cutting, other silvicultural works and fire protection works @15 DLs/ha  Upkeepment of plantation, and making of inspection path, repairing of fence etc on day to day basis @, 4 DLs/ha  Watch and ward for the plantation area(3DL for 365 days).  Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.  Supervision Cost  Contingency @ 15 % over previous year  LS  Sub total  7** Year Maintenance  Climber cutting, other silvicultural works, and fire protection works @ 12 DLs/ha  Protection work @ 12 DLs/ha  Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs / ha  Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs / ha  Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.  Supervision Cost  Contingency @ 15 % over previous year  L.S  I L.S  I Contingency @ 15 % over previous year  L.S  I L.S  I Contingency @ 15 % over previous year  L.S  I L.S  I Contingency @ 15 % over previous year  L.S  I L.S  I Contingency @ 15 % over previous year  L.S  I L.S

	8 <sup>th</sup> Year maintenance			@ Rs.	468/ DL	to an internal of differences in the second section of the second section is a second section of the section of the second section of the second section of the second section of the section of th
	Climber cutting, other silvicultural works and fire protection works (a) 8 DLs/ha	DLs	8	688	468	3,21,984
	Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs	DLs	5	-130	468	2,01,240
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation &upkeepment of records etc.	L.S		COLOR OF THE SECRETARY AND ADDRESS OF THE SECRETARY ADDRESS OF THE SECRETARY AND ADDRESS OF THE SECRETARY ADDRESS OF THE SECRETARY AND ADDRESS OF THE SECRETARY ADDRESS OF THE	The same of the sa	38,974
	Supervision Cost	L.S	No.	1	Constitution and proceedings to the constitution of the constituti	50,000
	Contingency @ 15 % over previous year	1S	Elline in anches i de natago rado.	710.100 to 100.000 to 100.000 to 100.000	ा वा व्यापालक कर तथ ने महिल्ला देशों के प्राप्त करें । श्री व्यापालक स्व	18,505
,	Sub Total	***			where the same of the same	6,30,703

ber cutting, other silvicultural works and rotection works 7 DLs/ha ction work, cattle watching, upkeepment of ation, and making of inspection path, ring of fence etc. on day to day basis (a) 5 ha tenance of camp hut, implements, ring/tube-upkeepment of plantation, signboard, mentation & upkeepment of records etc.	DLs Dls LS	5	0 Rs. 515/ DL 602 430	515			
ction work. attle watching, upkeepment of ation, and making of inspection path, ring of fence etc. on day to day basis (a) 5 ha  tenance of camp hut, implements, ring/tube-upkeepment of plantation, signboard, mentation & upkeepment of records etc.	DIS				3,10,030 2,21,450 42,871		
tenance of camp hut, implements, ring/tube-upkeepment of plantation, signboard, mentation & upkeepment of records etc.	LS	5	430	515			
upkeepment of plantation, signboard, mentation & upkeepment of records etc.	1				42,871		
	LS			E.	,		
ngeney (0): 15 9/ average	100	,	1		50,000		
agency (b., 15 % over previous year					21,281		
Sub Total					6,45,632		
EAR MAINTENANCE	@ Rs. 567/ DL						
per cutting, other silvicultural works, fire ction works 6 DLs/ha	DLs	6	516	567	2,92,572		
etion work, cattle watching, upkeepment of ation, and making of inspection path, ring of fence etc. on day to day basis @ 4 ha	DLs	4	344	567	1,95,048		
enance of camp hut, implements, ring/tube- upkeepment of plantation, signboard, nentation &upkeepment of records etc.	LS				47,158		
vision Cost	LS			- 20	50,000		
ngency @ 15 % over previous year	LS				24,473		
Sub-Total	<del></del>				6,09,251		
Total	-						
head expenditure @ 50% of the total cost eme	-				2,51,48,907		
Grand Total					3,77,23,360		
	der cutting, other silvicultural works, fire ection works 6 DLs/ha  ection work, cattle watching, upkeepment of ection, and making of inspection path, ing of fence etc. on day to day basis @ 4 has enance of camp hut, implements, ring/tube-upkeepment of plantation, signboard, nentation & upkeepment of records etc.  evision Cost  figency @ 15 % over previous year  Sub-Total  Total  finead expenditure @ 50% of the total cost eeme	Sub Total  YEAR MAINTENANCE  Der cutting, other silvicultural works, fire etion works 6 DLs/ha  Etion work, cattle watching, upkeepment of ation, and making of inspection path, ing of fence etc. on day to day basis @ 4 ha  enance of camp hut, implements, ring/tube-upkeepment of plantation, signboard, mentation & upkeepment of records etc.  Vision Cost  I.S  Sub-Total  Total  Total  Total  Tead expenditure @ 50% of the total cost etc.	Sub Total  ZEAR MAINTENANCE  Der cutting, other silvicultural works, fire etion works 6 DLs/ha  Etion work, cattle watching, upkeepment of thion, and making of inspection path, ing of fence etc. on day to day basis @ 4 ha  Enance of camp hut, implements, ring/tube-tupkeepment of plantation, signboard, mentation & upkeepment of records etc.  Wision Cost  Ingency @ 15 % over previous year  Sub-Total  Total  Total  Tead expenditure @ 50% of the total cost teeme	Sub Total  TEAR MAINTENANCE  The cutting, other silvicultural works, fire extion works 6 DLs/ha  Total  Total	Sub Total  /EAR MAINTENANCE  per cutting, other silvicultural works, fire etion works 6 DLs/ha  per cutting, other silvicultural works, fire etion works 6 DLs/ha  per cutting, other silvicultural works, fire etion works 6 DLs/ha  per cutting, other silvicultural works, fire etion works 6 DLs/ha  DLs  6  516  567  DLs  4  344  567  Total  Total  Total  Total  LS  LS  Sub-Total  Total  Total  Total  Total  Total  Total		

(Rupees Three crore seventy seven lakh twenty three thousand three hundred sixty) 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 below ground 4.5 ft above ground) with readymade concrete base 1 ft width for fixing.

Divisional Fo Dima, Hasao Forest Vivision(West) Division Haflongs Officer,

Dima Hasao Forest Divn. (W) Haflong.

Chief Conservator of Forests Dima Hasao Dist., Assam, Haflong

#### ANNEXTURE -IV-B

## Compensatory Afforestation 87.00 Ha Block Plantation of L.K.H.E.P. A. of APGCL



Area (Ha) 87
Spacing (mXm) 2X2
Number of Saplings/ha 2500
Length of JFence (RM) 3808
Wage rate for the 1<sup>st</sup> year (Rs.) 240
Increase in wage for subsequent years by a factor
Appreciation of material costs by a factor 1.1

SI No.	Particulars of works	Units	Qty./ ha	Total Qty.	Rate/Unit	Amount
Α	ERECTION OF FENCING					(Rs.
	(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 I of fencing materials to site for 3808 RM! @ RS. 800 per RM as per estimate	RMs		@ Rs. 240/ D	800	30,46,400
	(b) Wages of DLs for carrying, fitting, fixing etc. of fencing materials @ 20 DLs/ 100 RM	DLs		762	240	1,82,880
В	Sub Total	_				32,29,280
	INFRASTRUCTURE IN PLANTATION AREA			•		1 1 1
	Construction of camp hut (at least one upto 25 ha & thereafter one per every 25 ha) as per estimate	Nos.		4	1,50,000	6,00,000
	installation of ring/tube well (atleast one upto 10 ha & thereafter two per every 25 ha)	Nos.		7	50,000	3,50,000
	Irrigation facility with Diesel generator and hose pipes for watering the nursery and plantation (during dry spells)	Nos.		2	50,000	1,00,000
	Cost of tools & implements (One unit upto 25 ha & thereafter one unit per every 25 ha )	Nos.		4	10,000	40,000
	Cost of RCC signboard & Gate including fitting and fixing of the same (atleast one upto 25 ha & thereafter one per every 25 ha)	Nos.		4	60,000	2,40,000
	Camp accessories @ Rs. 10,001 per camp	Nos.		4	10,000	40,000
,	Construction of Inspection Path 1400 RM @ Rs. 50/-RM	RMs		3567	50	1,78,350
	Construction of Staff quarter. as per estimate (One unit for 10 to 50 ha & thereafter one unit per every 50 ha)	Nos.		2	8,00,000	16,00,000
	Provision of Solar energy for staff quarters including installation	Nos.		2	70,000	1,40,000
	Sub Total					32,88,350
C	ADVANCE WORK			(	Rs. 240/ DL	32,00,330
	Site selection, surveying, demarcation, jungle cutting, burning etc. 20 DLs/ha	DLs	20	1740	240	4,17,600
	Preparation and acquisition of polypot saplings in the field nursery for planting 2500 Nos. Seedlings/ ha @ R,.6/- per polypot	Nos.	2500	2,17,500	6	13,05,000



	reparation of polypot saplings in the field nursery for vacancy filling					
1	a) 25% mortality expected during 1st year (to be planted in the field during the 2nd year) ,i.e., 625 Seedlings/ ha (i.e., Rs 6.5/- per polypot	Nos.	625	54,375	6.5	3,53,438
1	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	43,500	7	3,04,500
	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	32,625	7.5	2,44,688
	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	21,750	8	1,74,000
TA A CARLES	Cost of Bamboo, making of stacking & transportation etc	Nos.	625	54,375	1	54,375
	Line alignment, carriage of stacking materials and fixing the stacking (4) 5 DLs/ha	DLs	5	435	240	1,04,400
	Supervision and Monitoring	L.S				30,000
	Sub total					29,88,001
D.	CREATION & 1 <sup>st</sup> YEAR MAINTENANCE				□ Rs. 240/ D	L
	Soil working, carnage 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	3480	240	8,35,200
	5 weedings, mulching and fire protection works @ 18 DLs/ha/weeding	DLs	90	7830	240	18,79,200
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	435	240	1,04,400
	Maintenance and protection of field nurseryand watch and ward for the plantation area(3DL for 365 days).	DLs		1460	240	3,50,400
,	Maintenance of camp huts, implements, ring/tube- well, upkeepment of plantation, signboard, documentation, .upkeepment of records and other misc. work	L.S		87		20,000
	Awareness & Monitoring @, Rs. 800/ha	L.S			800	69,600
	Sub total					32,58,800
E.	2 <sup>ND</sup> YEAR MAINTENANCE		@	Rs. 264/ DL		
	5 weedings, fire protection works @ 15 DLs/ha/weeding	DLs	75	6525	264	17,22,600
	25% Vacancy filling by 1 year old seedlings from nursery@ IOODLs/ha	DLs	10	870	264	2,29,680
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	435	264	1,14,840
	Maintenance and protection of field nursery (2 DL 365 dayd) and watch and ward for the plantation area (2DL for 365 days).	DLs		1460	264	3,85,440
	Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records etc.	L.S				22,000



	Supervision Cost	L.S	50,000
1	Contingency L.S.	L.S	8,000
-	9	Sub total	25,32,560

F.	3 <sup>RD</sup> YEAR MAINTENANCE					
	4 weedings, fire protection works @I5 DLs/ha/weeding	DLs	60	5220	290	15,13,800
	20% Vacancy filling by 2 year old seedlings from nursery@ 8DLs/ha	DLs	8	696	290	2,01,840
	Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day @ 5 DLs/ha	DLs	5	435	290	1,26,150
	Maintenance and protection of field nursery (2 DL 365 dayd) and watch and ward for the plantation area(2DL for 365 days).	DLs		1460	290	4,23,400
	Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records	L,S				24,200
	Supervision Cost	L.S		1		50,000
	Contingency @ 15 % over previous year	L.S				9,200
	Sub Total					23,48,590
G.	4 <sup>th</sup> YEAR MAINTENANCE	@ Rs. 319/ DL				
	4 weedings, fire protection works @15 dls/ha/weeding	DLs	60	5220	319	16,65,180
	15% Vacancy filling by 2 year old seedlings from nursery @6DLs/ha	DLs	6	522	319	1,66,518
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis a, 5 DLs/ha	DLs	5	435	319	1,38,765
	Maintenance and protection of field nursery (2 DL 365 dayd)and watch and ward for the plantation area(2DL for 365 days).	DLs		1460	319	4,65,740
	Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records etc.	L.S				26,620
	Supervision Cost	L.S		1		50,000
· 1	Contingency @ 15 % over previous year	L.S				10,580
	Sub Total				-	25,23,403

H —	5 <sup>th</sup> YEAR MAINTENANCE	@ Rs. 351/ DL					
	Climber cutting, weeding & other silvicultural works and fire protection works (@ 15DLs/ha)	DLs	15	1305	351	4,58,055	
	10% Vacancy filling by 2 year old seedlings from nursery@ 4DLs/ha	DLs	4	348	351	1,22,148	
	Maintenance & fencing post replacement @ 3% initial cost of material			0.03	30,46,400	91,392	
*****	Upkeepment of plantation, and making of Inspection path, repairing of fence etc. on day to day basis @ 4 DLs/ha	DLs	4	348	351	1,22,148	



1	watch and ward for the plantation area(3DL for 365 days).	DLs		730	351	2,56,230
1	Maintenance of camp hut, implements, ring/tube- well, upleepment of plantation, signboard, documentation &upkeepment of records etc.	L.S				29,282
	Supervision Cost	L.S		1		50,000
	Contingency @ 15 % over previous year					12,167
	Sub Total					11,41,422
1.	6th Year Maintenance			@ Rs. 386/ Di		,,
	Climber cutting, other silvicultural works and fire protection works @15 DLs/ha	DLs	15	1305	386	5,03,730
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @, 4 DLs/ha	DLs	4	348	386	1,34,320
	Watch and ward for the plantation area(2DL for 365 days).	DLs		730	386	2,81,780
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation &upkeepment of records etc.	L.S				32,210
	Supervision Cost	L.S		1		50,000
	Contingency @ 15 % over previous year	L.S				13,992
	Sub total	-				10,16,040
J.	7 <sup>th</sup> Year Maintenance	@ Rs. 425/ DL				
	Climber cutting, other silvicultural works and fire protection works @ 12 DLs/ha	DLs	12	1044	425	4,43,700
	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	435	425	1,84,875
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation &upkeepment of records etc.	L.S				35,431
	Supervision Cost	L.S		. 1		50,000
	Contingency @ 15 % over previous year	L.S				16,091
	Sub-Total			-		7,30,097
К.	8 <sup>th</sup> Year maintenance	@ Rs. 4	168/ DL			7,50,077
	Climber cutting, other silvicultural works and fire protection works @ 8 DLs/ha	DLs	8	696	468	3,25,728
	Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs	DLs	5	435	468	2,03,580
2	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation &upkeepment of records etc.	L.S		7		38,974
	Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs	DLs	5	435	468	2,03,580

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	(Maintanna C					
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation &upkeepment of records etc.	L.S				38,974
	Supervision Cost					
1	A STATE OF THE STA	L.S		1		50,000
	Contingency @ 15 % over previous year	L.S				
	Sub Total					18,505
L	9 <sup>TH</sup> YEAR MAINTENANCE			31		6,36,787
-			(	@ Rs. 515/ [	DL	
	Climber cutting, other silvicultural works and fire protection works 7 DLs/ha		7	609	515	3,13,635
	Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ ha		5	435	515	2,24,025
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	LS	The second second second second			42,871
	Supervision Cost	LS		1		
	Contingency @.; 15 % over previous year			1		50,000
	over previous year			7 1		21,281
	Sub Total					
M	10th YEAR MAINTENANCE				,	6,51,812
			@ Rs.	567/ DL		
	Climber cutting, other silvicultural works, fire protection works @ 6 DLs/ha		6	522	567	2,95,974
	Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 4 DLs/ha		4	348	567	1,97,316

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1	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation &upkeepment of records etc.	LS	Control of the second		47,158
	Supervision Cost	LS			50,000
	Contingency @ 15 % over previous year				30,000
	terming the second sear		127		24,473
	Sub-Total	-		6,	6,14,921
	Total	-		- Andrews	2,49,60,063
	Over head expenditure @ 50% of the total cost of scheme				1,24,80,032
_	Grand Total		-	~	3,74,40,094

(Rupees Three crore seventy four lakh forty thousand ninety 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 below ground 4.5 ft above ground) with readymade concrete base 1 ft width for fixing.

Technically approved

Divisional Forest Officer
Dima, Hasao Forest Division(West)

Divisional Firest Officer, Dima Hasao Forest Divn. (W) Haflong.

Chief Conservator of Forests Dima Hasao Dist., Assam, Haflong



ANNEXTURE -IV-C

Compensatory Asforestation 63.00 Ha Block Plantation of L.K.H.E.P. of APGCL
Area (Ha)

Area (Ha) 63
Spacing (mXm) 2X2
Number of Saplings/ha 2500
Length of JFence (RM) 3342
Wage rate for the 1<sup>st</sup> year (Rs.) 240
Increase in wage for subsequent years by a factor
Appreciation of material costs by a factor 1.1

SI No.	Particulars of works	Units	Qty./ ha	Total Qty.	Rate/Unit	Amount (Rs.
A	ERECTION OF FENCING		F 1			
	(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 I of fencing materials to site for 3342 RMI @ RS. 800 per	RMs		@ Rs. 240/ DL	800	26,73,600
	RM as per estimate (b) Wages of DLs for carrying, fitting, fixing etc. of	DLs		668	240	1,60,320
	fencing materials @ 20 DLs/ 100 RM	-	-			28,33,920
B	Sub Total INFRASTRUCTURE IN PLANTATION AREA					
	Construction of camp hut (at least one upto 25 ha &	Nos.		3	1,50,000	4,50,000
	thereafter one per every 25 ha) as per estimate Installation of ring/tube well (atleast one upto 10 ha &	Nos.		5	50,000	2,50,000
	thereafter two per every 25 ha) Irrigation facility with Diesel generator and hose pipes for watering the nursery and plantation (during dry spells)	Nos.		2	50,000	1,00,000
	Cost of tools & implements (One unit upto 25 ha & thereafter one unit per every 25 ha )	Nos.		3	10,000	30,000
	Cost of RCC signboard & Gate including fitting and fixing of the same (atleast one upto 25 ha & thereafter	Nos.		3	60,000	1,80,000
-	one per every 25 ha) Camp accessories @ Rs. 10,001 per camp	Nos.		3	10,000	30,000
-	Construction of Inspection Path 1400 RM @ Rs. 50/-	RMs	1 1	2583	63	1,29,150
	Construction of Staff quarter, as per estimate (One unit for 10 to 50 ha & thereafter one unit per every 50	Nos.		2	8,00,000	16,00,000
	Provision of Solar energy for staff quarters including	Nos.	1	2	70,000	1,40,000
-	installation  Sub Total	4				29,09,150
		-			@ Rs. 240/ [	)L
C	ADVANCE WORK					
	Site selection, surveying, demarcation, jungle cutting, burning etc. 20 DLs/ha	DLs	20	1260	240	3,02,400
12	Preparation and acquisition of polypot saplings in the field nursery for planting 2500 Nos. Seedlings/ ha @	Nos.	2500	1,57,500	6	9,45,000
	Preparation of polypot saplings in the field nursery for vacancy filling	1,1				
	a) 25% mortality expected during 1st year (to be planted in the field during the 2nd year) ,i.e., 625 Seedlings/ ha (i.e., Rs 6.5/- per polypot	Nos.	625	39,375	6.5	2,55,938
	b) 20% mortality expected during 2nd year (to be planted in the field during the 3rd year), i.e., 500 Seedlings/ @ Rs.7/- per polypot	Nos.	500	31,500	7	2,20,500



	500 Seedlings/ @ Rs.7/- per polypot					
1	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	23,625	7.5	1,77,188
	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	15,750	8	1,26,000
	Cost of Bamboo, making of stacking & transportation etc	Nos.	625	39,375	1	39,375
	Line alignment, carriage of stacking materials and fixing the stacking 5 DLs/ha	DLs	5	315	240	75,600
	Supervision and Monitoring	L.S				25,000
	Sub total					21,67,001
D.	CREATION & 1 <sup>st</sup> YEAR MAINTENANCE			(	P Rs. 240/ DI	
	Soil working, cariage 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	2520	240	6,04,800
	5 weedings, mulching and fire protection works @ 18 DLs/ha/weeding	DLs	90	5670	240	13,60,800
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	315	240	75,600
	Maintenance and protection of field nursery (2 DL 365 days) and watch and ward for the plantation area (2DL for 365 days).	DLs		1460	240	3,50,400
a U	Maintenance of camp huts, implements, ring/tube- well, upkeepment of plantation, signboard, documentation, .upkeepment of records and other misc. work	L.S		,		15,000
	Awareness & Monitoring @, Rs. 800/ha	L.S		63	800	50,400
	Sub total					24,57,000
E.	2 <sup>ND</sup> YEAR MAINTENANCE		@	Rs. 264/ DL		
	5 weedings, fire protection works @ 15 DLs/ha/weeding	DLs	75	4725	264	12,47,400
	25% Vacancy filling by 1 year old seedlings from nursery@ 100/ha	DLs	10	630	264	1,66,320
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	315	264	83,160
	Maintenance and protection of field nursery (2 DL 365 days) and watch and ward for the plantation area (3DL for 365 days).	DLs		1460	264	3,85,440
	Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records etc.	L.S				16,500
	Supervision Cost	L.S	1.3			45,000
	Contingency L.S.	L.S				6,000
	Sub total		-			

1	3 <sup>RD</sup> YEAR MAINTENANCE		@ Rs. 290/ DL					
	4 weedings, fire protection works @15 DLs/ha/weeding	DLs	60	3780	290	10,96,200		
	20% Vacancy filling by 2 year old seedlings from nursery@ 8DLs/ha	DLs	8	504	290	1,46,160		
	Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day @ 5 DLs/ha	DLs	5	315	290	91,350		
	DL 365 days) and watch and ward for the plantation area(3DL for 365 days)	DLs	* State of S	1460	290	4,23,400		
	Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records	L.S				18,150		
	Supervision Cost	L.S			1	45,000		
	Contingency @ 15 % over previous year	L.S				6,900		
	Sub Total					18,27,160		
G.	4 <sup>th</sup> YEAR MAINTENANCE	@ Rs. 319/ DL						
	4 weedings, fire protection works @15							
	dls/ha/weeding	DLs	60	3780	319	12,05,820		
	15% Vacancy filling by 2 year old seedlings from nursery @6DLs/ha	DLs	6	378	319	1,20,582		
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis a. 5 DLs/ha	DLs	5	315	319	1,00,485		
-	Maintenance and protection of field nursery and watch and ward for the plantation area(3DL for 365 days)	DLs	la P	1460	319	4,65,740		
	Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records etc.	L.S				19,965		
	Supervision Cost	L.S		I		45,000		
	Contingency @ 15 % over previous year	L.S				7,935		
	Sub Total					19,65,527		

Н	5 <sup>th</sup> YEAR MAINTENANCE	@ Rs. 351/ DL					
	Climber cutting, weeding & other silvicultural works and fire protection works (@ 15DLs/ha)	DLs	15	945	351	3,31,695	
	10% Vacancy filling by 2 year old seedlings from nursery@ 4DLs/ha	DLs	4	252	351	88,452	
	Maintenance & fencing post replacement @ 3% initial cost of material			0.03		80,208	
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 4 DLs/ha	DLs	4	252	351	88,452	
	Watch and ward for the plantation area(3DL for 365 days).	DLs		730	351	2,56,230	
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S				21,962	

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	Supervision Cost		personal and personal devices in			
1		L.S		1		45,000
1	Contingency @ 15 % over previous year					9,125
1	Sub Total		4			100
1.	6th Year Maintenance			@ Rs. 386/ [		9,21,124
	Climber cutting, other silvicultural works and				DL	
	protection works 15 Dic/ha	DLs	15	945	386	3,64,77
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @, 4 DLs/ha	DLs	4	252	386	97,27
	Watch and ward for the plantation area (and	r DLs				F 17
none ne de	100 00/3/	DLS	-	730	386	2,81,78
*	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S				24,15
	Supervision Cost	L.S	-		1.1 11	
	Contingency @ 15 % over previous year					45,00
	A CONTRACTOR OF THE PROPERTY O	L.S				10,49
Ι.	Sub total					8,23,474
•	7 <sup>th</sup> Year Maintenance			Rs. 425/ DL		
	Climber cutting, other silvicultural works and fire protection works @ 12 DLs/ha	DLs	12	756	425	3,21,300
	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	315	425	1,33,875
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation &upkeepment of	L.S				26,574
-	records etc.	4				
	Supervision Cost	L.S		1	7	45,000
	Contingency @ 15 % over previous year	L.S				
1	Sub-Total	·····				12,068
	540-10101					5,30,017

K.	8th Year maintenance			@ Rs. 4	68/ DL	
	Climber cutting, other silvicultural works and fire protection works @ 8 DLs/ha	DLs	8	504	468	2,35,872
	Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs	DLs	5	315	468	1,47,420
	Maintenance of camp hut, implements, ring/tube-well, upkeepment of plantation, signboard, documentation &upkeepment of records etc.	L.S	Typyki)			29,231
	Supervision Cost	L.S	9	1		45,000
	Contingency @ 15 % over previous year	L.S				13,878
	Sub Total					4,71,401

A	9 <sup>TH</sup> YEAR MAINTENANCE	@ Rs. 515/ DL						
	Climber cutting, other silvicultural works and fire protection works 7 DLs/ha	DLs	7	441	515	2,27,115		
	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	315	515	1,62,225		
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	LS			and the same of the same of	32,154		
	Supervision Cost	LS		1	-	45,000		
	Contingency @.; 15 % over previous year					15,960		
	Sub Total			<del> </del>	7	4,52,454		
M	10th YEAR MAINTENANCE	@ Rs. 567/ DL						
,	Climber cutting, other silvicultural works, fire protection works 6 DLs/ha	DLs	6	378	567	2,14,326		
	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	252	567	14,28,884		
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation &upkeepment of records etc.	LS				35,369		
	Supervision Cost	LS			<u> </u>	45,000		
	Contingency @ 15 % over previous year	LS				18,354		
	Sub-Total					4,55,933		
	Total					1,98,02,781		
	Over head expenditure @ 50% of the total cost of scheme					99,01,391		
	Grand Total					2,97,04,172		

(Rupees Two crore ninety seven lakh four thousand one hundred seventy two) 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 below ground 4.5 ft above ground) with readymade concrete base 1 ft width for fixing.

Technically approved

Chief Conservator of Forests Dima Hasao Dist., Assam, Haflong Divisional Porest Officer
Dima, Hasao Porest Division(West)

Divisional afformat Officer,
Dima Hasao Forest Divn. (W)

Haflong.

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#### **ANNEXTURE -IV-D**

### Compensatory Afforestation 75.00 Ha Block Plantation of L.K.H.E.P. A. of APGCL



Area (Ha) 75
Spacing (mXm) 2X2
Number of Saplings/ha 2500
Length of Fence (RM) 3492
Wage rate for the 1<sup>st</sup> year (Rs.) 240
Increase in wage for subsequent years by a factor 1.1
Appreciation of material costs by a factor 1.1

SI No.	Particulars of works	Units	Qty./ ha	Total Qty.	Rate/Unit	Amount
Α	ERECTION OF FENCING			@ Rs. 240/	/ DI	(Rs.
	(a) Cost of full Chain-linked Goat Proof fencing (4' ht. with 10 Gauge, 3" dia link) to be fitted on Precast RCC pillars* at 1.8 mt. apart including transportation I of fencing materials to site for 3492 RM! @ RS. 800 per RM as per estimate	RMs		3492	800	27,93,600
	(b) Wages of DLs for carrying, fitting, fixing etc. of fencing materials @ 20 DLs/ 100 RM	DLs		698	240	1,67,520
	Sub Total			_		29,61,120
В	INFRASTRUCTURE IN PLANTATION AREA					
	Construction of camp hut (at least one upto 25 ha & thereafter one per every 25 ha) as per estimate	Nos.		3	1,50,000	4,50,000
	Installation of ring/tube well (atleast one upto 10 ha & thereafter two per every 25 ha)	Nos.		6	50,000	3,00,000
	Irrigation facility with Diesel generator and hose pipes for watering the nursery and plantation (during dry spells)	Nos.		2	50,000	1,00,000
	Cost of tools & implements (One unit upto 25 ha & thereafter one unit per every 25 ha )	Nos.		3	10,000	30,000
	Cost of RCC signboard & Gate including fitting and fixing of the same (atleast one upto 25 ha & thereafter one per every 25 ha)	Nos.		3	60,000	1,80,000
-	Camp accessories @ Rs. 10,001 per camp	Nos.		3	10,000	30,000
	Construction of Inspection Path 3075 RM @ Rs. 50/- RM	RMs		3075	50	1,53,750
	Construction of Staff quarter. as per estimate (One unit for 10 to 50 ha & thereafter one unit per every 50 ha)	Nos.		2	8,00,000	16,00,000
žs.	Provision of Solar energy for staff quarters including installation	Nos.		2	70,000	1,40,000
	Sub Total					29,83,750
С	ADVANCE WORK				@ Rs. 240/ D	L
	Site selection, surveying, demarcation, jungle cutting, burning etc. 20 DLs/ha	DLs	20	1500	240	3,60,000
-	Preparation and acquisition of polypot saplings in the field nursery for planting 2500 Nos. Seedlings/ha @ R,.6/- per polypot	Nos.	2500	1,87,500	6	11,25,000
	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 (i.e, Rs 6.5/- per polypot	Nos.	625	46,875	6.5	3,04,688

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	A bl 20% martalla					
1	b) 20% mortality expected during 2nd year (to be planted in the field during the 3rd year) ,i.e., 500 Seedlings/ @ Rs.7/- per polypot	Nos.	500	37,500	7	2,62,500
1	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 polynot	Nos.	375	28,125	7.5	2,10,938
	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	18,750	8	1,50,000
	Cost of Bamboo, making of stacking & transportation etc	Nos.	625	46,875	1	46,875
	Line alignment, carriage of stacking materials and fixing the stacking @ 5 DLs/ha Supervision and Monitoring	DLs	5	375	240	90,000
	Supervision and Monitoring	L.S				30,000
	Sub total					25,80,001
D.	CREATION & 1 <sup>st</sup> YEAR MAINTENANCE			(	P Rs. 240/ D	
	Soil working, carriage of stumps, polypot seedling	DLs	40	3000	240	7,20,000
	dibbling of seeds wherever necessary to complete raising of plantation with all necessary operation @ 40 DLs/ ha					7,20,000
	5 weedings, mulching and fire protection works @ 18 DLs/ha/weeding	DLs	90	6750	240	16,20,000
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	375	240	90,000
	Maintenance and protection of field nursery (2 DL 365 dayd)and watch and ward for the plantation area(2DL for 365 days).	DLs		1460	240	3,50,400
	Maintenance of camp huts, implements, ring/tube- well, upkeepment of plantation, signboard, documentation, .upkeepment of records and other misc. work	L.S				15,000
	Awareness & Monitoring @, Rs. 800/ha	L.S		756	800	60,000
:	Sub total				-	28,55,400
E.	2 <sup>ND</sup> YEAR MAINTENANCE		@	Rs. 264/ DL		
	5 weedings, fire protection works @ 15 DLs/ha/weeding	DLs	75	5625	264	14,85,000
	25% Vacancy filling by 1 year old seedlings from nursery@ IOODLs/ha	DLs	10	750	264	1,98,000
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	375	264	99,000
	Maintenance and protection of field nursery (2 DL 365 dayd)and watch and ward for the plantation area(2DL for 365 days).	DLs		1460	264	3,85,440
	Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records etc.	L.S	Á			16,500
	Supervision Cost	L.S		1		50,000
2	Contingency L.S.	L.S	0			7,000
	Sub total				_	22,40,940
						-2,10,740

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4 weedings, fire protection works @IS DLs/ha/weeding 20% Vacancy filling by 2 year old seedlings from nurse y@ 8DLs/ha Protection work, cattle watching, upkeepment of plantation, and making of inspection path,  @ Rs. 290/ DL 4500	13,05,000 1,74,000 1,08,750
20% Vacancy filling by 2 year old seedlings from DLs 8 600 290  Protection work, cattle watching unkeepment of DLs 8 375 200	1,74,000
Protection work, cattle watching unkeepment of Dis 5	
Protection work, cattle watching, upkeepment of DLs 5 375 290	1,08,750
repairing of fence etc. on day to day @ 5 DI s/ha	
Maintenance and protection of field nursery (2 DL 365 dayd)and watch and ward for the plantation area(2DL for 365 days).	4,23,400
Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records	18,150
Supervision Cost L.S 1	50,000
Contingency @ 15 % over previous year L.S	8,050
Sub Total	20,87,350
G. 4 <sup>th</sup> YEAR MAINTENANCE @ Rs. 319/ DL	
4 weedings, fire protection works @15 dls/ha/weeding  DLs 60 4500 319	14,35,500
15% Vacancy filling by 2 year old seedlings from nursery @6DLs/ha  DLs 6 450 319	1,43,550
Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis a. 5 DLs/ha	1,19,625
Maintenance and protection of field nursery (2 DL 365 dayd)and watch and ward for the plantation area(2DL for 365 days).	4,65,740
Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records etc.	19,965
Supervision Cost L.S 1	50,000
Contingency @ 15 % over previous year L.S	9,258
Sub Total	22,43,638

Н	5 <sup>th</sup> YEAR MAINTENANCE			@ Rs. 351	/ DL	
	Climber cutting, weeding & other silvicultural works and fire protection works (@ 15DLs/ha)	DLs	15	1125	351	3,94,875
	10% Vacancy filling by 2 year old seedlings from nursery@ 4DLs/ha	DLs	4	300	351	1,05,300
	Maintenance & fencing post replacement @ 3% initial cost of material			0.03	29,93,600	83,808
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 4 DLs/ha	DLs	4	300	351	1,05,300
	Watch and ward for the plantation area(3DL for 365 days).	DLs		730	351	2,56,230
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation &upkeepment of records etc.	L.S				21,962

24/

A	Supervision Cost						
1	Contingency @ 15 % over previous year	L.S		1		50,000	
8 80	Sub Total					10,647	
I.	6th Year Maintenance					10,28,122	
				@ Rs. 386/ D	L		
	Climber cutting, other silvicultural works and fire protection works @15 DLs/ha	DLs	15	1125	386	4,34,250	
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @, 4 DLs/ha	DLs	4	300	386	1,15,800	
	Watch and ward for the plantation area(3DL for 365 days).	DLs		730	386	2,81,780	
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation &upkeepment of records etc.	L.S				24,158	
	Supervision Cost	L.S		1		50,000	
	Contingency @ 15 % over previous year	L.S				12,244	
	Sub total					9,18,232	
J.	7 <sup>th</sup> Year Maintenance		@ Rs. 425/ DL				
	Climber cutting, other silvicultural works and fire protection works @ 12 DLs/ha	DLs	12	900	425	3,82,500	
	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	375	425	1,59,375	
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation &upkeepment of records etc.	L.S				26,574	
	Supervision Cost	L.S		I		50,000	
	Contingency @ 15 % over previous year	L.S		-			
	Sub-Total		+			14,081	
						6,32,530	

K.	8 <sup>th</sup> Year maintenance	@ Rs. 468/ DL				
	Climber cutting, other silvicultural works and fire protection works @ 8 DLs/ha	DLs	8	600	468	2,80,800
	Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs	DLs	5	375	468	1,75,500
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation &upkeepment of records etc.	L.S				29,231
	Supervision Cost	L.S	-	1		50,000
	Contingency @ 15 % over previous year	L.S				16,193
	Sub Total					5,51,724



6									
L	9 <sup>11</sup> YEAR MAINTENANCE	@ Rs. 515/ DL							
	Climber cutting, other silvicultural works and fire protection works 7 DLs/ha	DLs	7	525	515	2,70,375			
	Projection 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	375	515	1,93,125			
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	LS				32,154			
	Supervision Cost	LS		1		50,000			
	Contingency @.; 15 % over previous year					18,622			
	Sub Total					5,64,276			
M	10th YEAR MAINTENANCE	@ Rs. 567/ DL							
	Climber cutting, other silvicultural works, fire protection works @ 6 DLs/ha	DLs	6	450	567	2,55,150			
	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	300	567	1,70,100			
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation &upkeepment of records etc.	LS				35,369			
	Supervision Cost	LS	, ,			50,000			
	Contingency @ 15 % over previous year	7	1			21,415			
	Sub-Total	r .		_		5,32,034			
	Total					2,21,79,117			
	Over head expenditure @ 50% of the total cost of scheme					1,10,89,559			
	Grand Total					3,32,68,676			

(Rupees Three crore thirty two lakh sixty eight thousand six hundred seventy six) 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 below ground 4.5 ft above ground) with readymade concrete base 1 ft width for fixing.

Technially approved

Divisional Brest Officer Dima, Hasao Forest Division(West)

Division Inflantst Officer, Dima Hasao Forest Divn. (W) Haflong.

Chief Conservator of Forests
Dima Hasao Dist., Assam, Haflong



# Compensatory Afforestation 83.00 Ha Block Plantation of L.K.H.E.P. A. of APGCL



Area (Ha) 83
Spacing (mXm) 2X2
Number of Saplings/ha 2500
Length of JFence (RM) 3808
Wage rate for the 1<sup>st</sup> year (Rs.) 240
Increase in wage for subsequent years by a factor 4.1
Appreciation of material costs by a factor 1.1

SI No.	Particulars of works	Units	Qty./ ha	Total Qty.	Rate/Unit	Amount (Rs.
Α	ERECTION OF FENCING	•		@ Rs. 240,	/ DL	1 (1.51
	(a) Cost of full Chain-linked Goat Proof fencing (4' ht. with 10 Gauge, 3" dia link) to be fitted on Precast RCC pillars* at 1.8 mt. apart including transportation I of fencing materials to site for 3808 RM! @ RS. 800 per RM as per estimate	RMs		3808	800	30,46,400
	(b) Wages of DLs for carrying, fitting, fixing etc. of fencing materials @ 20 DLs/ 100 RM	DLs		762	240	1,82,880
D	Sub Total					32,29,280
В	INFRASTRUCTURE IN PLANTATION AREA			eta i d	•	
	Construction of camp hut (at least one upto 25 ha & thereafter one per every 25 ha) as per estimate	Nos.		4	1,50,000	6,00,000
	Installation of ring/tube well (atleast one upto 10 ha & thereafter two per every 25 ha)	Nos.		7	50,000	3,50,000
	Irrigation facility with Diesel generator and hose pipes for watering the nursery and plantation (during dry spells)	Nos.		2	50,000	1,00,000
	Cost of tools & implements (One unit upto 25 ha & thereafter one unit per every 25 ha )	Nos.		4	10,000	40,000
	Cost of RCC signboard & Gate including fitting and fixing of the same (atleast one upto 25 ha & thereafter one per every 25 ha)	Nos.		4	60,000	2,40,000
	Camp accessories @ Rs. 10,000/ per camp	Nos.		4	10,000	40,000
	Construction of Inspection Path 1400 RM @ Rs. 50/- RM	RMs		3403	50	1,70,150
	Construction of Staff quarter. as per estimate (One unit for 10 to 50 ha & thereafter one unit per every 50 ha )	Nos.		2	8,00,000	16,00,000
	Provision of Solar energy for staff quarters including installation	Nos.		2	70,000	1,40,000
,	Sub Total					32,80,150
C	ADVANCE WORK		•	œ.	Rs. 240/ DL	
	Site selection, surveying, demarcation, jungle cutting, burning etc. 20 DLs/ha	DLs	20	1660	240	3,98,400
	Preparation and acquisition of polypot saplings in the field nursery for planting 2500 Nos. Seedlings/ ha @ Rs.6/- per polypot	Nos.	2500	2,07,500	6	12,45,000
	Preparation of polypot saplings in the field nursery for vacancy filling		,	P	A	
	a) 25% mortality expected during 1st year (to be planted in the field during the 2nd year) ,i.e., 625 Seedlings/ ha (i.e, Rs 6.5/- per polypot	Nos.	625	51,875	6.5	3,37,188



				4		
	Seedlings/ ha @ Rs.7/- per polypot					
	c) 13% HIOITality expected during			7/2		
1		Nos.	375	31,125	7.5	2,33,43
1		-			7.7	
	I I I I I I I I I I I I I I I I I I I		- Agentina			
	The first including the Eth	Nos.	250	20,750	8	1,66,00
	1 W NS.0/- Der nolynet			1		_,_,,,,,,
	Cost of Bamboo, making of stacking &			de la		
	transportation etc	Nos.	625	51,875	1	51,875
100	Line alignment carriage of			1	1 -	51,675
	Line alignment, carriage of stacking materials and fixing the stacking @ 5 DLs/ha	DLs	5	415	240	00.000
Miss	Supervision and Monitoring			1 - 2	240	99,600
18	oupervision and Monitoring	L.S				30.000
	Cultura					30,000
D.	Sub total					28,52,001
D.	CREATION & 1 <sup>st</sup> YEAR MAINTENANCE					
	Soil working corriers			(	🖗 Rs. 240/ DL	
	Soil working, carriage of stumps, polypot seedling	DLs	40	3320	240	7.00.000
	and planting at the plantation site including		-		240	7,96,800
	dibbling of seeds wherever necessary to complete			£ _ (%)	.	
	I ruising or plantation with all necessary operation @		7. "		-	
	1 40 023/ 114			1 1		1
	5 weedings, mulching and fire protection works @	DLs	90	7470	240	
	18 DES/Ha/ weeding	523	50	7470	240	17,92,800
	Upkeepment of plantation, and making of	DLs	5	415		
	inspection path, repairing of fence etc. on day to	J 223	3	415	240	99,600
	day basis @ 5 DLs/ha			CR -		
	Maintenance and protection of field nursery (2 DL	DLs		1100		
	365 dayd)and watch and ward for the plantation	DLS		1460	240	3,50,400
	area(2DL for 365 days).					
	Maintenance of camp huts, implements, ring/tube-	1.6	y/ale			
	well, upkeepment of plantation, signboard,	L.S				20,000
	documentation, .upkeepment of records and other			, t		
	misc. work	- 21			y. " = "3	
	Awareness & Monitoring @, Rs. 800/ha	L.S	1			
		L.S		50	800	66,400
	Sub total					
E.	2 <sup>ND</sup> YEAR MAINTENANCE					31,26,000
~	2 TEAR WAITE WAITE		@	Rs. 264/ DL		
	5 weedings, fire protection works @ 15	DLs	75			
	DLs/ha/weeding	DLS	75	6225	264	16,43,400
	25% Vacancy filling by 1 year old seedlings from					
	nursery@ IOODLs/ha	DLs	10	830	264	2,19,120
	Upkeepment of plantation, and making of					-,13,120
-	inspection path, repairing of	DLs	5	415	264	1,09,560
	inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha					1,05,360
	Maintenance and and a first first					
	Maintenance and protection of field nursery (2 DL	DLs		1460	264	2.05.445
	365 dayd)and watch and ward for the plantation				204	3,85,440
-	area(2DL for 365 days).					1 -
	Maintenance of camp hut, implements, ring/tube-	L.S			-	
	well upkeepment of plantation, signboard.					22,000
	documentation, upkeepment of records etc.					-21 "
	Supervision Cost					_
	~ "Pot 1131011 CU31	L.S		1		50,000
						30.000
	Continue I C					30,000
	Contingency L.S.	L.S			-	8,000
	Continue I C					

F.	3 <sup>KD</sup> YEAR MAINTENANCE	@ Rs. 290/ DL



1	4 weedings, fire protection works @15 DLs/ha/weeding	DLs	60	4980	290	14,44,200
	20% Vacancy filling by 2 year old seedlings from nursery@ 8DLs/ha	DLs	8	664	290	1,92,560
	Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day @ 5 DLs/ha	DLs	5	415	290	1,20,350
	Maintenance and protection of field nursery (2 DL 365 dayd)and watch and ward for the plantation area(2DL for 365 days).	DLs		1460	290	4,23,400
	Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records	L.S				24,200
	Supervision Cost	L.S		1		50,000
	Contingency @ 15 % over previous year	L.S				9,200
	Sub Total					22,63,910
G.	4 <sup>th</sup> YEAR MAINTENANCE		@ Rs.	319/ DL		!
	4 weedings, fire protection works @15 dls/ha/weeding	DLs =	60	4980	319	15,88,620
	15% Vacancy filling by 2 year old seedlings from nursery @6DLs/ha	DLs	6	498	319	1,58,862
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis a. 5 DLs/ha	DLs	5	415	319	1,32,385
	Maintenance and protection of field nursery (2 DL 365 dayd) and watch and ward for the plantation area(2DL for 365 days).	DLs	, e -	1460	319	4,65,740
	Maintenance of camp hut, implements, ring/tube well upkeepment of plantation, signboard, documentation, upkeepment of records etc.	L.S				26,620
	Supervision Cost	L.S		1	7	50,000
	Contingency @ 15 % over previous year	L.S				10,580
	Sub Total					24,32,807
						1

Н	5 <sup>th</sup> YEAR MAINTENANCE			@ Rs. 351	/ DL	
T.	Climber cutting, weeding & other silvicultural works and fire protection works (@ 15DLs/ha)	DLs	15	1245	351	4,36,995
	10% Vacancy filling by 2 year old seedlings from nursery@ 4DLs/ha	DLs	4	332	351	1,16,532
	Maintenance & fencing post replacement @ 3% initial cost of material			0.03	30,46,400	91,392
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 4 DLs/ha	DLs	4	332	351	1,16,532
	Watch and ward for the plantation area(2DL for 365 days).	DLs		730	351	2,56,230
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S				29,282

	Campiola C					
A	Supervision Cost  Contingency @ 15 0	L.S		1		50,000
A	Contingency @ 15 % over previous year	LS				12,167
1.	6th Year Maintenance					11,09,130
			0	Rs. 386/ DL		
	Climber cutting, other silvicultural works and fire protection works @15 DLs/ha	DLs	15	1245	386	4,80,570
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @, 4 DLs/ha	DLs	4	332	386	1,28,152
	Watch and ward for the plantation area(3DL for 365 days).	DLs		730	386	2,81,780
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S				32,210
	Supervision Cost	L.S		1		50,000
	Contingency @ 15 % over previous year	L.S				13,992
	Sub total					9,86,704
J.	7 <sup>th</sup> Year Maintenance		(	② Rs. 425/ DL		
	Climber cutting, other silvicultural works and fire protection works @ 12 DLs/ha	DLs	12	996	425	4,23,300
	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	415	425	1,76,375
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S		zi	37	35,431
	Supervision Cost	L.S		Ī		50,000
	Contingency @ 15 % over previous year	L.S				16,091
	Sub-Total					7,01,197

K.	8 <sup>th</sup> Year maintenance	@ Rs. 468/ DL						
	Climber cutting, other silvicultural works and fire protection works @ 8 DLs/ha	DLs	8	664	468	3,10,752		
	Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs	DLs	5	415	468	1,94,220		
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation &upkeepment of records etc.	L.S				38,974		
	Supervision Cost	L.S		1		50,000		
	Contingency @ 15 % over previous year	L.S				18,505		
	Sub Total		. **			6,12,451		

1	9 <sup>TH</sup> YEAR MAINTENANCE		@	Rs. 515/ DL	545		
A	Climber cutting. other silvicultural works and fire protection works 7 DLs/ha	DLs	7	581	515	2,99,215	
	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	415	515	2,13,725	
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	LS		77		42,871	
	Supervision Cost	LS		1		50,000	
	Contingency @.; 15 % over previous year				1	21,281	
	Sub Total					6,27,092	
M	10 <sup>th</sup> YEAR MAINTENANCE	@ Rs. 567/ DL					
	Climber cutting, other silvicultural works, fire protection works 6 DLs/ha	DLs	6	498	567	2,82,.366	
	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	332	567	1,88,244	
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation &upkeepment of records etc.	LS				47,158	
	Supervision Cost	LS				50,000	
	Contingency @ 15 % over previous year					24,473	
	Sub-Total			-	This is	5,92,241	
	Total					2,42,50,483	
	Over head expenditure @ 50% of the total cost of scheme		,	4		1,21,25,242	
	DLs /ha  Maintenance of camp hut, implements, ring/tubewell, upkeepment of plantation, signboard, documentation & upkeepment of records etc.  Supervision Cost  Contingency @ 15 % over previous year  Sub-Total  Total  Over head expenditure @ 50% of the total cost			_(4		3,63,75,725	

(Rupees Three crore sixty three lakh seventy five thousand seven hundred twenty five) 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 below ground 4.5 ft above ground) with readymade concrete base 1 ft width for fixing.

> Divisional Edits Officer Dima, Hasao Forest Division(West)

Divisiondiaflongt Officer, Dima Hasao Forest Divir. (W) Haflong. \_

Chief Conservator of Forests

Dima Hasao Dist., Assam, Haflong



#### ANNEXTURE -IV-F

Compensatory Afforestation 23.00 Ha Block Plantation of L.K.H.E.P. of APGCL



23
2X2
2500
1938
240
1.1
1.1

SI No.	Particulars of works	Units	Qty./ ha	Total Oty	Data /III-it	T
A	EDECTION OF THE	Oilles	Qty./ IIa	Total Qty.	Rate/Unit	Amount (Rs.
<u> </u>	ERECTION OF FENCING			@ Rs. 240	/ DI	I (ns.
	(a) Cost of full Chain-linked Goat Proof fencing (4' ht. with 10 Gauge, 3" dia link) to be fitted on Precast RCC pillars* at 1.8 mt. apart including transportation of fencing materials to site for 1938 RM! @ RS. 800 per RM as per estimate	RMs		1938	800	15,50,400
	(b) Wages of DLs for carrying, fitting, fixing etc. of fencing materials @ 20 DLs/ 100 RM  Sub Total	DLs		388	240	93,120
В						16,43,520
	INFRASTRUCTURE IN PLANTATION AREA			18 <sup>23</sup>		10,43,320
	Construction of camp Hut (at least one upto 25 ha & thereafter one per every 25 ha) as per estimate	Nos.	,	1	1,50,000	1,50,000
	Installation of ring/tube well (atleast one upto 10 ha & thereafter two per every 25 ha)	Nos.		2	50,000	1,00,000
	Irrigation facility with Diesel generator and hose pipes for watering the nursery and plantation (during dry spells)	Nos.		2	50,000	1,00,000
	Cost of tools & implements (One unit upto 25 ha & thereafter one unit per every 25 ha )	Nos.		1	10,000	10,000
	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	60,000
	Camp accessories @ Rs. 10,000/ per camp	Nos.		1	10,000	10,000
	Construction of Inspection Path 1400 RM @ Rs. 50/- RM	RMs		1400	50	70,000
	Construction of Staff quarter. as per estimate (One unit for 10 to 50 ha & thereafter one unit per every 50 ha)	Nos.		1	8,00,000	8,00,000
	Provision of Solar energy for staff quarters including installation	Nos.		1	70,000	70,000
. 7	Sub Total					12 70 000
С	ADVANCE WORK	.2.	<u></u>	(6)	Rs. 240/ DL	13,70,000
	Site selection, surveying, demarcation, jungle cutting, burning etc. 20 DLs/ha	DLs	20	460	240	1,10,400
13/13	Preparation and acquisition of polypot saplings in the field nursery for planting 2500 Nos. Seedlings/ha @ R,.6/- per polypot	Nos.	2500	57,500	6	3,45,000

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	Preparation of polypot saplings in the field nursery for vacancy filling					a commenter and addition	
	a) 25% mortality expected during 1st year (to be planted in the field during the 2nd year) ,i.e., 625 Seedlings/ ha (i.e., Rs 6.5/- per polypot	Nos.	625	14,375	6.5	93,438	
	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	11,500	7	80,500	
	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	8,625	7.5	64,688	
	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	5,750	8	46,000	
	Cost of Bamboo, making of stacking & transportation etc	Nos.	625	14,375	1	14,375	
	Line alignment, carriage of stacking materials and fixing the stacking @ 5 DLs/ha	DLs	5	115	240	27,600	
	Supervision and Monitoring	L.S				10,000	
	Sub total					7,92,001	
).	CREATION & 1 <sup>st</sup> YEAR MAINTENANCE	@ Rs. 240/ DL					
	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	920	240	2,20,800	
	5 weedings, mulching and fire protection works @ 18 DLs/ha/weeding	DLs	90	2070	240	4,96,800	
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	115	240	27,600	
	Maintenance and protection of field nursery (2 DL 365 dayd)and watch and ward for the plantation area(2DL for 365 days).	DLs	2	730	240	1,75,200	
	Maintenance of camp huts, implements, ring/tube- well, upkeepment of plantation, signboard, documentation, .upkeepment of records and other misc. work	L.S				10,000	
	Awareness & Monitoring @, Rs. 800/ha	L.S	23		800	18,400	
	Sub total					9,48,800	
E.	2 <sup>ND</sup> YEAR MAINTENANCE		(	® Rs. 264/ DL			
	5 weedings, fire protection works @ 15 DLs/ha/weeding	DLs	75	1725	264	4,55,400	
	25% Vacancy filling by 1 year old seedlings from nursery@ IOODLs/ha	DLs	10	230	264	60,720	
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	115	264	30,360	
	Maintenance and protection of field nursery (2 DL 365 dayd)and watch and ward for the plantation area(2DL for 365 days).	DLs	2	730	264	1,92,720	



1	Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard,	L.S				11,000
	documentation, upkeepment of records etc.		i je gin			
	Supervision Cost	L.S	The same of the below to the tension of the same of th	1		20,000
	Contingency L.S.	L.S				2,500
	Sub total	· ·				7,72,700
F.	3 <sup>RD</sup> YEAR MAINTENANCE		@	Rs. 290/ DL		
	4 weedings, fire protection works @I5 DLs/ha/weeding	DLs	60	1380	290	4,00,200
	20% Vacancy filling by 2 year old seedlings from nursery@ 8DLs/ha	DLs	8	184	290	53,360
	Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day @ 5 DLs/ha	DLs	5	115	290	33,350
	Maintenance and protection of field nursery (2 DL 365 dayd)and watch and ward for the plantation area(2DL for 365 days).	DLs	2	730	290	2,11,700
1	Maintenance of camp hut, implements, ring/tubewell upkeepment of plantation, signboard, documentation, upkeepment of records	L.S		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		12,100
			-		•	
	Supervision Cost	L.S		1		20,000
	Contingency @ 15 % over previous year	L.S				2,875
	Sub Total		- 5			7,33,585
G.	4 <sup>th</sup> YEAR MAINTENANCE		@ Rs. 3	319/ DL		
	4 weedings, fire protection works @15 dls/ha/weeding	DLs	60	1380	319	4,40,220
	15% Vacancy filling by 2 year old seedlings from nursery @6DLs/ha	DLs	6	138	319	44,022
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis a. 5 DLs/ha	DLs	5	115	319	36,685
	Maintenance and protection of field nursery (2 DL 365 dayd)and watch and ward for the plantation area(2DL for 365 days).	DLs		730	319	2,32,870
	Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records etc.	L.S				13,310
7	Supervision Cost	L.S		1		20,000
	Contingency @ 15 % over previous year	L.S				3,306
	Sub Total					7,90,413

Н	5 <sup>th</sup> YEAR MAINTENANCE	@ Rs. 351/ DL						
	Climber cutting, weeding & other silvicultural works and fire protection works (@ 15DLs/ha)	DLs	15	345	351	1,21,095		
	10% Vacancy filling by 2 year old seedlings from nursery@ 4DLs/ha	DLs	4	92	351	32,292		
	Maintenance & fencing post replacement @ 3% initial cost of material			0.03	15,50,400	46,512		

	LINE MADE OF DISHALL					
	Upkeepment of plantation, and making of	Dia		-		
	inspection path, repairing of force	DLs	4	92	351	32,292
						,
	Watch and ward for the plantation area(3DL for 365 days).				74	
		DLs		365	351	1,28,115
(5,1%)	Maintenance of camp hut, implements,				331	1,20,115
	ring/tube- well, upkeepment of plantation,	L.S				14.544
	signboard documentation,					14,641
	signboard, documentation & upkeepment of records etc.					
	Supervision Cost					
	Subervision Cost	L.S				
	Contingency @ 15 % over previous year			1		20,000
	over previous year					3 903
	Cub T I					3,802
	Sub Total					3,98,749
l.	6th Year Maintenance	-		0.0. 205/5		
	Climber cutting all			@ Rs. 386/ D	L	
	Climber cutting, other silvicultural works and	DLs	15	345	386	1,33,170
	fire protection works @15 DLs/ha			3 13	300	1,33,170
	Upkeepment of plantation, and making of	DLs	4	92	386	25.542
	inspection path, repairing of fence etc. on day			32	300	35,512
	to day basis @, 4 DLs/ha					
	Watch and ward for the plantation area(3DL for	DLs		265		
	305 days).	DLS		365	386	1,40,890
	Maintenance of committee in the					
	wide that the of Camp his implements	110				
	Maintenance of camp hut, implements,	L.S				16,105
	ring/tube- well, upkeepment of plantation	L.S				16,105
	ring/tube- well, upkeepment of plantation, signboard, documentation &upkeepment of records etc.	L.S				16,105
	ring/tube- well, upkeepment of plantation, signboard, documentation &upkeepment of	L.S				16,105
	ring/tube- well, upkeepment of plantation, signboard, documentation &upkeepment of	L.S				
	ring/tube- well, upkeepment of plantation, signboard, documentation &upkeepment of records etc.  Supervision Cost	L.S				20,000
	ring/tube- well, upkeepment of plantation, signboard, documentation &upkeepment of records etc.					20,000
	ring/tube- well, upkeepment of plantation, signboard, documentation &upkeepment of records etc.  Supervision Cost  Contingency @ 15 % over previous year	L.S				20,000
	ring/tube- well, upkeepment of plantation, signboard, documentation &upkeepment of records etc.  Supervision Cost  Contingency @ 15 % over previous year  Sub total	L.S				20,000
J.	ring/tube- well, upkeepment of plantation, signboard, documentation &upkeepment of records etc.  Supervision Cost  Contingency @ 15 % over previous year  Sub total  7th Year Maintenance	L.S	(6)	P Rs. 425/ DL		20,000
J.	ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.  Supervision Cost  Contingency @ 15 % over previous year  Sub total  7th Year Maintenance  Climber cutting, other silvicultural works and	L.S	<u>@</u>	P Rs. 425/ DL		20,000 4,373 3,50,050
J.	ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.  Supervision Cost  Contingency @ 15 % over previous year  Sub total  7 <sup>th</sup> Year Maintenance  Climber cutting, other silvicultural works and fire protection works @ 12 DLs/ha	L.S L.S			425	20,000
J.	ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.  Supervision Cost  Contingency @ 15 % over previous year  Sub total  7 <sup>th</sup> Year Maintenance  Climber cutting, other silvicultural works and fire protection works @ 12 DLs/ha  Protection work, cattle watching, upkeepment	L.S L.S		276	425	20,000 4,373 3,50,050
J.	ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.  Supervision Cost  Contingency @ 15 % over previous year  Sub total  7 <sup>th</sup> Year Maintenance  Climber cutting, other silvicultural works and fire protection works @ 12 DLs/ha	L.S L.S	12			20,000 4,373 3,50,050
J.	ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.  Supervision Cost  Contingency @ 15 % over previous year  Sub total  7 <sup>th</sup> Year Maintenance  Climber cutting, other silvicultural works and fire protection works @ 12 DLs/ha  Protection work, cattle watching, upkeepment	L.S L.S	12	276	425	20,000 4,373 3,50,050
J.	ring/tube- well, upkeepment of plantation, signboard, documentation &upkeepment of records etc.  Supervision Cost  Contingency @ 15 % over previous year  Sub total  7th Year Maintenance  Climber cutting, other silvicultural works and fire protection works @ 12 DLs/ha  Protection work, cattle watching, upkeepment of plantation, and making of inspection path,	L.S L.S	12	276	425	20,000 4,373 3,50,050
J.	ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.  Supervision Cost  Contingency @ 15 % over previous year  Sub total  7 <sup>th</sup> Year Maintenance  Climber cutting, other silvicultural works and fire protection works @ 12 DLs/ha  Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs / ha	L.S L.S DLs	12	276	425	20,000 4,373 <b>3,50,050</b> 1,17,300 48,875
J.	ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.  Supervision Cost  Contingency @ 15 % over previous year  Sub total  7 <sup>th</sup> Year Maintenance  Climber cutting, other silvicultural works and fire protection works @ 12 DLs/ha  Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs / ha  Maintenance of camp hut, implements,	L.S L.S	12	276	425	20,000 4,373 3,50,050
J.	ring/tube- well, upkeepment of plantation, signboard, documentation &upkeepment of records etc.  Supervision Cost  Contingency @ 15 % over previous year  Sub total  7 <sup>th</sup> Year Maintenance  Climber cutting, other silvicultural works and fire protection works @ 12 DLs/ha  Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs / ha  Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation,	L.S L.S DLs	12	276	425	20,000 4,373 <b>3,50,050</b> 1,17,300 48,875
J.	ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.  Supervision Cost  Contingency @ 15 % over previous year  Sub total  7 <sup>th</sup> Year Maintenance  Climber cutting, other silvicultural works and fire protection works @ 12 DLs/ha  Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs / ha  Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of	L.S L.S DLs	12	276	425	20,000 4,373 3,50,050 1,17,300 48,875
J.	ring/tube- well, upkeepment of plantation, signboard, documentation &upkeepment of records etc.  Supervision Cost  Contingency @ 15 % over previous year  Sub total  7 <sup>th</sup> Year Maintenance  Climber cutting, other silvicultural works and fire protection works @ 12 DLs/ha  Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs / ha  Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation,	L.S L.S DLs DLs	12	276	425	20,000 4,373 3,50,050 1,17,300 48,875
J.	ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.  Supervision Cost  Contingency @ 15 % over previous year  Sub total  7th Year Maintenance  Climber cutting, other silvicultural works and fire protection works @ 12 DLs/ha  Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs / ha  Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.  Supervision Cost	L.S L.S DLs L.S L.S	12	276	425	20,000 4,373 3,50,050 1,17,300 48,875
J.	ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.  Supervision Cost  Contingency @ 15 % over previous year  Sub total  7 <sup>th</sup> Year Maintenance  Climber cutting, other silvicultural works and fire protection works @ 12 DLs/ha  Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs / ha  Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S L.S DLs DLs	12	276	425	20,000 4,373 3,50,050 1,17,300 48,875

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K	8th Year maintenance			@ Rs. 4	68/ DL		
	Climber cutting, other silvicultural works and fire protection works @ 8 DLs/ha	DLs	8	184	468	86,112	
	Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs	DLs	5	115	468	53,820	
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation &upkeepment of records etc.	L.S	· · · · · · · · · · · · · · · · · · ·			19,488	
	Supervision Cost	L.S		, -		20,000	
	Contingency @ 15 % over previous year	L.S				5,783	
	Sub Total				-	1,85,203	
L	9 <sup>TH</sup> YEAR MAINTENANCE	@ Rs. 515/ DL					
	Climber cutting. other silvicultural works and fire protection works 7 DLs/ha	DLs	7	161	515	82,915	
	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	115	515	59,225	
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	LS	4		= 3	21,437	
	Supervision Cost	LS		,		20,000	
	Contingency @.; 15 % over previous year				16 '	6,650	
	Sub Total					1,90,227	

M	10 <sup>th</sup> YEAR MAINTENANCE	@ Rs. 567/ DL				4
	Climber cutting, other silvicultural works, fire protection works @ 6 DLs/ha	DLs	6	138	567	78,246
	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	92	567	52,164

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188	Maintenance of camp hut, implements, ring/tube-well, upkeepment of planter					
	well, upkeepment of plantation, signboard,	LS	70	7 (11)		23,581
	eupkeepment of records etc.				7	4
	Supervision Cost	-		1 2	a agent	
	Contingency @ 15 % over previous year	LS	. S. 18 . 1		3,3	20,000
					1	7,648
	Sub-Total				1	1,81,639
	Over head own P		· 10.22			85,65,806
	Over head expenditure @ 50% of the total cost of scheme		1,40	= = = = = = = = = = = = = = = = = = =		42,82,903
	Grand Total	u 7.				
	1		,	the given		1,28,48,709

(Rupees one crore twenty eight lakh forty eight thousand seven hundred nine) 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 below ground 4.5 ft above ground) with readymade concrete base 1 ft width for fixing.

Technially

Divisional Forest Officer Dima, Hasao Forest Division(West)

Divisional affonst Officer, Dima Hasao Forest Haflong. Divn. (W)

Chief Conservator of Forests Dima Hasao Dist., Assam, Heffong



Compensatory Afforestation 63.00 Ha Block Plantation of L.K.H.E.P. of APGCL



Area (Ha)	63
Spacing (mXm)	63
Number of S. W.	2X2
Number of Saplings/ha	2500
Length of JFence (RM)	3493
Wage rate for the 4st	
Increase in wage for subsequent years by a factor	240
Appreciation of sector	1.1
Appreciation of material costs by a factor	1.1

SI	Particulars of works		· or material	costs by a fac	ctor	1.1
No.	ERECTION OF FENCING	Units	Qty./ ha	Total Qty.	Rate/Unit	Amount
	(a) Cost of full Chair II			0.0-	240/5	(Rs.
	(a) Cost of full Chain-linked Goat Proof fencing	RMs		3493	240/ DL	
	Pre-cast RCC pillars* at 1.8 mt. apart including transportation I/ of fencing materials to site for 3493 RM! @ RS. 800 per RM.			3493	800	27,94,400
	of fencing materials @ 20 DLs/100 PM	DLs		699	240	1,67,760
	Sub Total					
В	INFRASTRUCTURE IN PLANTATION AREA					29,62,160
	Construction of camp hut (at least one upto 25			- Jakov		
	estimate	Nos.		3	1,50,000	4,50,000
	Installation of ring/tube well (atleast one upto 10 ha & thereafter two per every 25 ha)	Nos.	,	5	50,000	2,50,000
	pipes for watering the nursery and plantation (during dry spells)	Nos.	1	2	50,000	1,00,000
	Cost of tools & implements (One unit upto 25 ha & thereafter one unit per every 25 ha )	Nos.		3	10,000	30,000
	Cost of RCC signboard & Gate including fitting and fixing of the same (atleast one upto 25 ha & thereafter one per every 25 ha)	Nos.		3	60,000	1,80,000
	Camp accessories @ Rs. 10,001 per camp	Nos.		3	10,000	30,000
	Construction of Inspection Path 2542 RM @ Rs. 50/- RM	RMs		2542	50	1,27,100
	Construction of Staff quarter. as per estimate (One unit for 10 to 50 ha & thereafter one unit per every 50 ha)	Nos.		2	8,00,000	16,00,000
	Provision of Solar energy for staff quarters including installation	Nos.		2	70,000	1,40,000
	Sub Total					29,07,100
C	ADVANCE WORK			@	Rs. 240/ DL	
	Site selection, surveying, demarcation, jungle cutting, burning etc. 20 DLs/ha	DLs	20	1260	240	3,02,400
	Preparation and acquisition of polypot saplings in the field nursery for planting 2500 Nos. Seedlings/ ha @ R,.6/- per polypot	Nos.	2500	1,57,500	6	9,45,000
	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/ @ (i.e, Rs 6.5/- per polypot	Nos.	625	39,375	6,5	2,55,938

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	The state of the s					
1	b) 20% mortality expected during 2nd year (to	-		x 9		
1		Nos.	500	31,500	7	
1	500 Seedlings/ ha Rs.7/- per polypot			32,300	'	2,20,500
198	CI 1370 MORTALITY AVPOCED A					
		Nos.	375	22.625		
	375 Seedlings/ ha @ Rs.7.5/- per polypot		3/3	23,625	7.5	1,77,188
100	d) 10% mortality			1		
	TO TO THE PROPERTY OF THE PROP	No				
		Nos.	250	15,750	8	1,26,000
	250 Seedlings/ ha @ Rs.8/- per polypot					2,20,000
	dost of ballipoo, making of stratic					
		Nos.	625	39,375	1	20 275
	Line alignment, carriage of stacking materials			10,0,0	1	39,375
	and fixing the stacking @ 5 DLs/ha	DLs	5	315	240	75.505
	Supervision and Monitoring	1		313	240	75,600
	oupervision and Monitoring	L.S		_		
						25,000
	Sub total					21 (7 001
).	CREATION & 1st YEAR MAINTENANCE			le le		21,67,001
					@ Rs. 240/ D	)I
	Soil working, carriage of stumps, polypot	D:				_
	securing and planting at the plantation of	DLs	40	2520	240	6,04,800
	including, dibbling of seeds wherever necessary		-			
	to complete raising of plantation with all					4
	necessary operation @ 40 DLs/ ha					
	5 weedings mulching 40 DLs/ ha					
	5 weedings, mulching and fire protection works	DLs	90	5670	240	13,60,800
	@ 18 DLs/ha/weeding				1	13,00,000
	Upkeepment of plantation, and making of	DLs	5	315	240	75.600
	inspection path, repairing of fence etc. on day			313	240	75,600
	to day basis @ 5 DLs/ha				1	
	Maintenance and protection of field nursery (2	DLs		1460	240	
	DL for 365 days)and watch and ward for the	OLS		1460	240	3,50,400
	plantation area(2DL for 365 days).		-			
	Maintenance of camp huts, implements,	L.S	-			
	ring/tube- well, upkeepment of plantation,	L.3		1		15,000
	signboard, documentation, .upkeepment of				7	
	records and other misc. work				r.	
	Awareness & Monitoring @, Rs. 800/ha	1.6	-			
	Workers & Workfording W, Rs. 800/11a	L.S		63	800	50,400
	Sub total					
	ND					24,57,000
E.	2 <sup>ND</sup> YEAR MAINTENANCE		<u>a</u>	Rs. 264/ DL		
	5 woodings fire protection weeks C 45					
	5 weedings, fire protection works @ 15	DLs	75	4725	264	12,47,400
	DLs/ha/weeding			1		, , , , , ,
	250/ \/200 6:11:				200	1,66,320
	25% Vacancy filling by 1 year old seedlings from	DLs	10	630	264	-,00,020
	nursery@ /ODLs/ha			630	264	
	nursery@ /ODLs/ha Upkeepment of plantation, and making of	DLs	5	630 315		82 160
	nursery@/ODLs/ha Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day				264	83,160
	nursery@/ODLs/ha Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha					83,160
	nursery@ /ODLs/ha  Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha  Maintenance and protection of field nursery (2	DLs		315	264	
	nursery@/ODLs/ha  Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha  Maintenance and protection of field nursery (2 DL for 365 Days)and watch and ward for the					83,160 3,85,440
	nursery@/ODLs/ha  Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha  Maintenance and protection of field nursery (2 DL for 365 Days)and watch and ward for the	DLs		315	264	
	nursery@/ODLs/ha  Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha  Maintenance and protection of field nursery (2 DL for 365 Days)and watch and ward for the plantation area(2DL for 365 days).	DLs		315	264	3,85,440
	nursery@/ODLs/ha  Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha  Maintenance and protection of field nursery (2 DL for 365 Days)and watch and ward for the plantation area(2DL for 365 days).  Maintenance of camp hut, implements,	DLs		315	264	
	nursery@/ODLs/ha  Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha  Maintenance and protection of field nursery (2 DL for 365 Days)and watch and ward for the plantation area(2DL for 365 days).  Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation,	DLs		315	264	3,85,440
	nursery@/ODLs/ha  Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha  Maintenance and protection of field nursery (2 DL for 365 Days)and watch and ward for the plantation area(2DL for 365 days).  Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of	DLs		315	264	3,85,440
	nursery@/ODLs/ha  Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha  Maintenance and protection of field nursery (2 DL for 365 Days)and watch and ward for the plantation area(2DL for 365 days).  Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records etc.	DLs		315	264	3,85,440
	nursery@/ODLs/ha  Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha  Maintenance and protection of field nursery (2 DL for 365 Days)and watch and ward for the plantation area(2DL for 365 days).  Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of	DLs		315	264	3,85,440
	nursery@/ODLs/ha  Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha  Maintenance and protection of field nursery (2 DL for 365 Days)and watch and ward for the plantation area(2DL for 365 days).  Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records etc.  Supervision Cost	DLs  L.S		315	264	3,85,440
	nursery@/ODLs/ha  Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha  Maintenance and protection of field nursery (2 DL for 365 Days)and watch and ward for the plantation area(2DL for 365 days).  Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records etc.	DLs DLs		315	264	3,85,440 16,500 45,000
	nursery@/ODLs/ha  Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha  Maintenance and protection of field nursery (2 DL for 365 Days)and watch and ward for the plantation area(2DL for 365 days).  Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records etc.  Supervision Cost	DLs  L.S		315	264	3,85,440



1	3RD YEAR MAINTENANCE					
1			@	Rs. 290/ DL	Market (Securitive) and Assess reduced (1997) (1984) Market (1997)	nacembal extended to the second to the
	4 weedings, fire protection works @15 DLs/ha/weeding	DLs	60	3780	290	10,96,200
	20% Vacancy filling by 2 year old seedlings from nursery@ 8DLs/ha	DLs	8	504	290	1,46,160
	Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day @ 5 DLs/ha	DLs	5	315	290	91,350
	DL for 365 Days)and watch and ward for the plantation area(2DL for 365 days)	DLs		1460	290	4,23,400
	ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records	L.S				18,150
	Supervision Cost	L.S			1	45,000
	Contingency @ 15 % over previous year	L.S		-		6,900
	Sub Total		-			18,27,160
G.	4 <sup>th</sup> YEAR MAINTENANCE	@ Rs. 319/ DL				
	4 weedings, fire protection works @15 dls/ha/weeding	DLs	60	3780	319	12,05,820
	15% Vacancy filling by 2 year old seedlings from nursery @6DLs/ha	DLs	6	378	319	1,20,582
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis a. 5 DLs/ha	DLs	5	315	319	1,00,485
	Maintenance and protection of field nursery and watch and ward for the plantation area(3DL for 365 days)	DLs	<i>y</i>	1460	319	4,65,740
	Maintenance of camp hut, implements, ring/tube- well upkeepment of plantation, signboard, documentation, upkeepment of records etc.	L.S				19,965
	Supervision Cost	L.S		1		45,000
	Contingency @ 15 % over previous year	L.S				7,935
	Sub Total					19,65,527

Н	5 <sup>th</sup> YEAR MAINTENANCE	@ Rs. 351/ DL					
	Climber cutting, weeding & other silvicultural works and fire protection works (@ 15DLs/ha)	DLs	15	945	351	3,31,695	
	10% Vacancy filling by 2 year old seedlings from nursery@ 4DLs/ha	DLs	4	252	351	88,452	
	Maintenance & fencing post replacement @ 3% initial cost of material			0.03		83,832	
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 4 DLs/ha	DLs	4	252	351	88,452	
	Watch and ward for the plantation area(3DL for 365 days).	DLs		730	351	2,56,230	
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S				21,962	



				1				
	Supervision Cost			1				
1	Contingency @ 15 % over previous year	L.S		1		45,000		
1						9,125		
	Sub Total					9,24,748		
1.	6th Year Maintenance							
	Climber cutting, other silvicultural works and	@ Rs. 386/ DL						
	ine protection works @15 Dic/ba	DLs	15	945	386	3,64,770		
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @, 4 DLs/ha	DLs	4	252	386	97,272		
	Watch and ward for the plantation area(3DL for 365 days).	DLs		730	386	2,81,780		
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation &upkeepment of records etc.	L.S				24,158		
	Supervision Cost	L.S				45,000		
	Contingency @ 15 % over previous year	L.S				10,494		
	- Sub total					8,23,474		
J.	7 <sup>th</sup> Year Maintenance	@ Rs. 425/ DL						
	Climber cutting, other silvicultural works and fire protection works @ 12 DLs/ha	DLs	12	756	425	3,21,300		
	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	315	425	1,33,875		
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	L.S				26,574		
	Supervision Cost	L.S		1		45,000		
	Contingency @ 15 % over previous year	L.S				12,068		
	Sub-Total					5,38,817		

K.	8 <sup>th</sup> Year maintenance	@ Rs. 468/ DL				
	Climber cutting, other silvicultural works and fire protection works @ 8 DLs/ha	DLs	8	504	468	2,35,872
	Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs	DLs	5	315	468	1,47,420
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation &upkeepment of records etc.	L.S				29,231
	Supervision Cost	L.S		1		45,000
	Contingency @ 15 % over previous year	L.S	-		407	13,878
	Sub Total					4,71,401

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F	9 <sup>TH</sup> YEAR MAINTENANCE	@ Rs. 515/ DL					
	Climber cutting. other silvicultural works and fire protection works, 7 DLs/ha	(P)	7	441	515	2,27,115	
	Protection work. cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ ha		5	315	515	1,62,225	
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	LS				32,154	
	Supervision Cost	LS		1		45,000	
	Contingency @.; 15 % over previous year					15,960	
	Sub Total					4,82,454	
M	10th YEAR MAINTENANCE	@ Rs. 567/ DL					
	Climber cutting, other silvicultural works, fire protection works 6 DLs/ha		6	378	567	2,14,326	
	Protection work, cattle watching, upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 4 DLs /ha		4	252	567	1,42,884	
	Maintenance of camp hut, implements, ring/tube- well, upkeepment of plantation, signboard, documentation &upkeepment of records etc.	LS				35,369	
	Supervision Cost	LS				45,000	
	Contingency @ 15 % over previous year					18,354	
	Sub-Total					4,55,933	
	Total					1,99,32,595	
	Over head expenditure @ 50% of the total cost of scheme					99,66,298	
	Grand Total					2,98,98,893	

(Rupees Two crore ninety eight lakh ninety eight thousand eight hundred ninety three) 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 below ground 4.5 ft above ground) with readymade concrete base 1 ft width for fixing.

Technially approved

Divisional Expert Officer
Dima, Hasao Forest Division (West)

Dima, Hasao Forest Division (West)

Haffieng Officer,

Dima Hasao Forest Divn. (W)

Haflong.

Chief Conservator of Forests Dima Hasao Dist., Assam, Haflona