

NORM FOR 6.69 HA BLOCK PLANTATION AGAINST ONGC DRILLING LOCATION KHDF

Area: 6.69 Ha.

Spacing (m x m) : 2 x 2

Number of Sapling/Ha: 2500

Length of Fence (RM) : 1129m

Wage rate for the 1st year (Rs.) : 250.00

Increase in wage rate for subsequent years by a factor: 1.1

Appreciation of material costs by a factor: 1.1

Sl	Particulars of works	Unit	Qty/ Ha	Total Qty	Rate/ Unit	Amount (in Rs)
A. FRECTION OF FENCING		@Rs.250/Dls.				
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 of fencing materials to site for 720 RM @Rs.800 per RM as per estimate.	RMS		1129	800	903200.00
2	(b) Waes of DLs for carrying, fitting, fixing etc of fencing materials @ 20 Dls/100 RM	Dls		226	250	56500.00
Sub-Total						959700.00
B. INFRASTRUCTURE IN PLANTATION AREA		@Rs.250/Dls.				
1	Construction of camp hut (atleast one upto 25Ha & thereafter one per every 25ha) as per estimate	Nos		1	150000	150000.00
2	Installation of ring/tube well (atleast one upto 25Ha & thereafter one per every 25ha)	Nos		1	50000	50000.00
3	Irrigation facility with Diesel generator and hose pipes for watering the nursery and plantation (during dry spells)	Nos		1	50000	50000.00
4	Cost of tolls & implements (one unit upto 25 Ha & thereafter one unit per every 25 Ha)	Nos.		1	10000	10000.00
5	Cost of RCC signboard & Gate*including fitting and fixing of the same (atleast one upto 25Ha & thereafter one per every 25ha)	Nos.		1	60000	60000.00
6	Camp accessories @ Rs.10,000/per camp	Nos.		1	10000	10000.00
7	Construction of Inspection Path 565 Rm @Rs.50/- RM	RMS		565	50	28250.00
Sub Total						358250.00
C. ADVANCE WORK		@Rs.250/Dls.				
1	site selection, surveying, demarcation, jungle cutting, burning etc 20 Dls/ha	Dls	20	134	250	33500.00

2	Preparation and acquisition of polypot saplings in the field nursery for planting 2500 Nos. Seedlings/Ha @Rs.6/- per polypot.	Nos.	2500	16725	6	100350.00
					Sub Total	133850.00
1	Preparation of polypot saplings in the field nursery for vacancy filling.					
2	a) 25% mortality expected during 1st year (to be planted in the field during the 2nd year), i.e. 625 seedlings/ha @rs.6.5/- per polypot.	Nos.	625	4181.25	6.5	27178.13
3	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	3345	7	23415.00
4	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	2509	7.5	18817.50
5	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	1673	8	13384.00
6	Cost of Bamboo, making of stacking & transportation etc.	Nos.	625	4182	1	4182.00
7	Line alignment, carriage of stacking materials and fixing the stacking @ 5 Dls/ha	Dls	5	34	250	8500.00
8	Supervision and Monitoring	L.S.				10000.00
	Sub Total					105476.63
	D) CREATION & 1ST YEAR MAINTENANCE				@Rs.250/Dls.	
1	Soil working carriage of stumps, polypot seedling and planting at the plantation site including, dibbing of seeds wherever necessary to complete raising of plantation with all necessary operation @ 40 Dls/ha.	Dls	40	268	250	67000.00
2	5 weeding, mulching and fire protection works @ 18 Dls/ha/weeding	Dls	90	602	250	150500.00
3	Upkeepment of plantation and making of inspection path, repairing of fence etc on day to day basis @ 5Dls/ha	Dls	5	34	250	8500.00
4	Maintenance and protection of field nursery and watch and ward for the plantation area (Dls for 365 days)	Dls		365	250	91250.00

5	Maintenance of camp huts, implements, ring/tube well upkeepment of plantation, signboard, documents, upkeepment of records and other misc work.	L.S.				10000.00
6	Awareness & monitoring @Rs.800/ha	L.S.		6.69	800	5352.00
					Sub Total	332602.00
	E. 2nd YEAR MAINTENANCE				@Rs.275/Dls.	
1	5 weedings, fire protection works @ 15 Dls/ha/weeding	Dls	75	502	275	138050.00
2	25% Vacancy filling by 1 year old seedlings from nursery @ 10 Dls/ha	Dls	10	67	275	18425.00
3	Upkeepment of plantation and making of inspection path, repairing of fence etc on day to day basis @ 5Dls/ha	Dls	5	34	275	9350.00
4	Maintenance and protection of field nursery and watch and ward for the plantation area (Dls for 365 days)	Dls		365	275	100375.00
5	Maintenance of camp huts, implements, ring/tube well upkeepment of plantation, signboard, documents, upkeepment of records etc.	L.S.				11000.00
6	Supervision Cost	L.S.				8000.00
7	Contingency L.S	L.S.				2500.00
					Sub Total	287700.00
	F) 3rd YEAR MAINTENANCE				@Rs.302.5/Dls.	
1	4 weedings, fire protection works @ 15 Dls/ha/weeding	Dls	60	401.4	302.5	121423.50
2	20% Vacancy filling by 2 year old seedlings from nursery @ 8 Dls/ha	Dls	8	53.52	302.5	16189.80
3	Protection work, cattle, watering, upkeepment of plantation and making of inspection path, repairing of fence etc. on day to day basis @ 5 Dls/ha.	Dls	5	33.45	302.5	10118.63
4	Maintenance and protection of field nursery and watch and ward for the plantation area (Dls for 365 days)	Dls		365	302.5	110412.50
5	Maintenance of camp huts, implements, ring/tube well upkeepment of plantation, signboard, documents, upkeepment of records etc.	L.S.				12100.00
6	Supervision Cost	L.S.				8000.00
7	Contingency @ 15% over previous year	L.S.				2875.00
					Sub Total	281119.43

4th YEAR MAINTENANCE			@Rs.332.75/Dls.			
1	4 weedings, fire protection works @ 15 Dls/ha/weeding	Dls	60	401.4	332.75	133565.85
2	15% Vacancy filling by 2 year old seedlings from nursery @ 6 Dls/ha	Dls	6	40.14	332.75	13356.59
3	Upkeepment of plantation and making of inspection path, repairing of fence etc on day to day basis @ 5Dls/ha	Dls	5	33.45	332.75	11130.49
4	Maintenance and protection of field nursery and watch and ward for the plantation area (Dls for 365 days)	Dls		365	332.75	121453.75
5	Maintenance of camp huts, implements, ring/tube well upkeepment of plantation, signboard, documents, upkeepment of records etc.	L.S.				10211.00
6	Supervision Cost	L.S.				4000.00
7	Contingency @ 15% over previous year	L.S.				3306.00
Sub Total						297023.67
5th YEAR MAINTENANCE			@Rs.336.025/Dls.			
1	Climber cutting, fire protection and other silvicultural works 15 Dls/Ha	Dls	15	100.35	336.025	33720.11
2	10% Vacancy filling by 2 year old seedlings from nursery @ 4 Dls/ha	Dls	4	26.76	336.025	8992.03
3	Maintenance & fencing post replacement @3% initial cost of materials			3	903200	27096.00
4	Upkeepment of plantation and making of inspection path, repairing of fence etc on day to day basis @ 4Dls/ha	Dls	4	26.67	336.025	8961.79
5	Watch and ward for the plantation area (1DL for 365 days)	Dls		365	336.025	122649.13
6	Maintenance of camp huts, implements, ring/tube well upkeepment of plantation, signboard, documents, upkeepment of records etc.	L.S.				14641.00
7	Supervision Cost	L.S.				8000.00
8	Contingency @ 15% over previous year	L.S.				3802.00
Sub Total						227862.05
6 th YEAR MAINTENANCE			@Rs.402.62/Dls			
1	Climber cutting, fire protection and other silvicultural works 15 Dls/Ha	Dls	15	100.35	402.62	40402.92
2	Upkeepment of plantation and making of inspection path, repairing of fence etc on day to day basis @ 4Dls/ha	Dls	4	26.76	402.62	3920.00

3	Watch and ward for the plantation area (1DL for 365 days)	Dls		365	402.62	146956.30
4	Maintenance of camp huts, implements, ring/tube well upkeepment of plantation, signboard, documents, upkeepment of records etc.	L.S.				12356.00
5	Supervision Cost	L.S.				8000.00
6	Contingency @ 15% over previous year	L.S.				4373.00
Sub Total						216008.22
7th YEAR MAINTENANCE						@Rs.442.88/Dls.
1	Climber cutting, fire protection and other silvicultiural works 12 Dls/Ha	Dls	12	80.28	442.88	35554.41
2	Protection work, cattle, watering, upkeepment of plantation and making of inspection path, repairing of fence etc. on day to day basis @ 5 Dls/ha.	Dls	5	33.45	442.88	5380.00
3	Maintenance of camp huts, implements, ring/tube well upkeepment of plantation, signboard, documents, upkeepment of records etc.	L.S.				13592.00
4	Supervision Cost	L.S.				8000.00
5	Contingency @ 15% over previous year	L.S.				5028.00
Sub Total						67554.41
8th YEAR MAINTENANCE						@Rs.487.16/Dls.
1	Climber cutting, fire protection and other silvicultiural works 10 Dls/Ha	Dls	8	53.52	487.16	26072.80
2	Protection work, cattle, watering, upkeepment of plantation and making of inspection path, repairing of fence etc. on day to day basis @ 5 Dls/ha.	Dls	5	33.45	487.16	16295.50
3	Maintenance of camp huts, implements, ring/tube well upkeepment of plantation, signboard, documents, upkeepment of records etc.	L.S.				14950.00
4	Supervision Cost	L.S.				8000.00
5	Contingency @ 15% over previous year	L.S.				5783.00
Sub Total						71101.31
9th YEAR MAINTENANCE						@Rs.535.87/Dls.
1	Climber cutting, fire protection and other silvicultiural works 10 Dls/Ha	Dls	7	46.83	535.87	25094.79
2	Protection work, cattle, watering, upkeepment of plantation and making of inspection path, repairing of fence etc. on day to day basis @ 5 Dls/ha.	Dls	5	33.45	535.87	17924.85


3	Maintenance of camp huts, implements, ring/tube well upkeepment of plantation, signboard, documents, upkeepment of records etc.	L.S.				16446.00
4	Supervision Cost	L.S.				4000.00
5	Contingency @ 15% over previous year	L.S.				6650.00
TOTAL						70115.64
10th YEAR MAINTENANCE @Rs.589.45/Dls.						
1	Climber cutting, fire protection and other silvicultiural works 10 Dls/Ha	Dls	6	40.14	589.45	23660.52
2	Protection work, cattle, watering, upkeepment of plantation and making of inspection path, repairing of fence etc. on day to day basis @ 5 Dls/ha.	Dls	4	26.76	589.45	15773.68
3	Maintenance of camp huts, implements, ring/tube well upkeepment of plantation, signboard, documents, upkeepment of records etc.	L.S.				18090.00
4	Supervision Cost	L.S.				4000.00
5	Contingency @ 15% over previous year	L.S.				7648.00
Sub Total						69172.21
Total						3477535.55
Overhead cost @ 50% of total estimate						1738767.77
GRAND TOTAL FOR RAISING 3.836 Ha						5216303.32

Cost escalation of 10% annually has been considered for wages.

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

Pre-cast RCC pillar with 5" x 5" cross-section of 6ft height (1.5 below ground ^

Technically Approved


Conservator of Forests
Eastern Assam Circle
Jorhat


Divisional Forest Officer
Golaghat Division
Golaghat