

NORM FOR 41.44 HA BLOCK PLANTATION AGAINST ONGC DRILLING LOCATION 6 TRUNK PIPELINE REPLACEMENT PROJECT

Area: 41.44 Ha.

Spacing (m x m): 2 x2

Number of Sapling/Ha: 2500 Lengh of Fence (RM): 2643

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 facor: 1.1

SI	Particulars of works	Unit	Qty/ Ha	Total Qty	Rate/ Unit	Amount (in Rs)	
A. F	RECTION 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 2643 RM @Rs.800 per RM as per estimate.	RMS		2643	800	2114400.00	
2	(b) Waes of DLs for carrying, fitting, fixing etc of fencing materials @ 20 Dls/100 RM	Dls	1250	610	250	152500.00	
	it out of Bambao, making of stacking is			1,2500	Sub-Total	2266900.00	
B. I	NFRASTRUCTURE IN PLANTATION AREA		. @	Rs.250	/Dls.		
1	Construction of camp hut (atleast one upto 25Ha & therafter one per every 25ha) as per estimate	Nos		1	150000	150000.00	
2	Installation of ring/tube well (atleast one upto 25Ha & therafter 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 & therafter one per every 25ha)	Nos.	loo	1	60000	60000.00	
6	Camp accessories @ Rs.10,000/per camp	Nos.		1	10000	10000.00	
7	Construction of Inspection Path 1300 Rm @Rs.50/-RM	RMS		1300	50	65000.00	
	Maint regace and protection of field aurabry an				Sub Total	395000.00	
C. A	ADVANCE WORK	11218	_	@R	s.250/Dls.		
1	site selection, surveying, demarcation, jungle cutting, burning etc 20 Dls/ha	DIs	20	828.8	250	207200.00	



2	Preparation and acquisition of polypot saplings in the field nursery for planting 2500 Nos. Seedlings/Ha @Rs.6/- per polypot.	Nos.	2500	103600	6	621600.00
	was next 5 incultoring 9/8s 800/8a			41.44	Sub Total	828800.00
1	Preparation of polypot saplings in the field nursery for vacancy filling.			建筑	Sub Yeşeri 25/Dis	797890 53
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	103600	6.5	673400.00
3	b) 20% mortally 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	20720	7	145040.00
4	c) 15% mortally 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	15540	7.5	116550.00
5	d) 10% mortally 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	10360	8	82880.00
6	Cost of Bamboo, making of stacking & transportation etc.	Nos.	625	25900	1	25900.00
7	Line alignment, carriage of stacking materials and fixing the stacking @ 5 Dls/ha	DIs	5	207.2	250	51800.00
8	Supervision and Monitoring	L.S.				10000.00
	Sub Total			2900.0	-04.9	1105570.00
	D) CREATION & 1ST YEAR MAINTENANCE			@Rs.2	50/Dls.	
	Soil working carriage of stumps, polypot seedling and planting at the plantaton site including, dibbing of seeds wherever necessary to complete raising of plantation with all necessary operation @ 40 Dls/ha.	Dls	40	1657.6	250	414400.00
2	5 weeding, mulching and fire protection works @ 18 Dls/ha/weeding	DIs	90	745.99	250	186497.50
	Upkeepment of plantation and making of nspection path, repairing of fence etc on day to day basis @ 5Dls/ha	Dls	5	207.2	250	51800.00
4	Maintenance and protection of field nursery and watch and ward for the plantation area (DIs for 365 days)	Dls		365	250	91250.00

1	Maintenance of camp huts, implements,			上一位背	337.J. Di	
	ring/tube well upkeepment of plantation, signboard, documents, upkeepment of records	L.S.	iss.	7616.4	302,75	10000.00
_	and other misc work. Awareness & monitoring @Rs.800/ha	L.S.		41.44	800	33152.00
5	Awareness & Monitoring @ks.800/11a	2.5.		1	Sub Total	787099.50
_	E. 2nd YEAR MAINTENANCE	Dis	15	@Rs.2	275/Dls.	68945.1
L	5 weedings, fire protection works @ 15 Dls/ha/weeding	Dls	75	3108	275	854700.00
2	25% Vacancy filling by 1 year old seedlings from nursery @ 10 Dls/ha	Dls	10	414.4	275	113960.00
3	Upkeepment of plantation and making of nspection path, repairing of fence etc on day to day basis @ 5Dls/ha	Dls	5	207.2	275	56980.00
4	Maintenance and protection of field nursery and watch and ward for the plantation area (DIs for	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.		621.1	136,023	11000.00
6	Supervision Cost	L.S.		1 455 7		8000.00
7	Contigency L.S	L.S.				2500.00
	Assertance & fearing poor replacement & *				Sub Total	1147515.00
1	F) 3rd YEAR MAINTENANCE			@Rs	.302.5/Dls.	
1	4 weedings, fire protection works @ 15 Dls/ha/weeding	Dls	60	2468.4	302.5	746691.00
2	20% Vacancy filling by 2 year old seedlings from nursery @ 8 Dls/ha	Dls	8	331.52	302.5	100284.80
3	Protection work, cattle, watering, upkeepment of plantation and making of inspection path, reparing of fence etc. on day to day basis @ 5 Dls/ha.	Dls	5	207.2	302.5	62678.00
4	Maintenance and protection of field nursery and watch and ward for the plantation area (DIs for 365 days)	Dls		365	302.5	110412.5
5	Maintenance of camp huts, implements, ring/tube well upkeepment of plantation, signboard, documents, upkeepment of records	L.S.		5 623	6.6Z	12100.0
6	etc. Supervision Cost	L.S.	5	1165	16 457 b	8000.0
7	Contigency @ 15% over previous year	L.S.				2875.0
/	Contigency of 13/0 over previous year				Sub Total	1043041.3

	4th YEAR MAINTENANCE			@Rs	.332.75/Dls.	· · · · · · · · · · · · · · · · · · ·
1	4 weedings, fire protection works @ 15	DIs	60	2486.4	332.75	827349.60
_	Dls/ha/weeding	0.0	100	1210011	002.70	
2	15% Vacancy filling by 2 year old seedlings from	DIs	6	248.64	332.75	82734.96
	nursery @ 6 Dls/ha		1			
	Upkeepment of plantation and making of					
3	nspection path, repairing of fence etc on day to	DIs	5	207.2	332.75	68945.80
,I	day basis @ 5Dls/ha					
-	Maintenance and protection of field nursery and					
4	watch and ward for the plantation area (DIs for	DIs		365	332.75	121453.75
	365 days)					
	Maintenance of camp huts, implements,	1000		201		
5	ring/tube well upkeepment of plantation,	L.S.				10211.00
•	signboard, documents, upkeepment of records	2.0.		1		10211.00
	etc. Into fence str. on day to day basis to 5	100		EU/.2	447.3	•
6	Supervision Cost	L.S.	-			4000.00
7	Contigency @ 15% over previous year	L.S.				3306.00
					Sub Total	1118001.11
	5th YEAR MAINTENANCE	,		@Rs.	336.025/DIs	
1	Climber cutting, fire protection and other	DIs	15	621.6	336.025	208873.14
	silvicultiural works 15 Dls/Ha		-	022.0	550.025	
2	10% Vacancy filling by 2 year old seedlings from	Dls -	4	165.76	336.025	55699.50
	nursery @ 4 Dls/ha	0.13	1	103.70	330.023	33033.30
3	Maintenance & fencing post replacement @3%,			3	2114400	63432.00
	initial cost of materials				2114400	05432.00
	Upkeepment of plantation and making of					
4	nspection path, repairing of fence etc on day to	Dls	4	165.76	336.025	55699.50
	day basis @ 4Dls/ha	43				
5	Watch and ward for the plantation area (1DL for	Dls		365	336.025	122649.13
5	365 days)	013		303	330.023	122043.13
	Maintenance of camp huts, implements,					
6	ring/tube well upkeepment of plantation,	L.S.				14641.00
٥	signboard, documents, upkeepment of records	L.J.				14041.00
	etc.					
7	Supervision Cost	L.S.				8000.00
8	Contigency @ 15% over previous year	L.S.				3802.00
					Sub Total	532796.27
	6 th YEAR MAINTENANCE			@Rs.40	2.62/Dls	
1	Climber cutting, fire protection and other	Dls -	15	621.6	402.62	250268.59
Т	silvicultiural works 15 Dls/Ha	ב פוט	13	021.0	402.02	230208.39
	Upkeepment of plantation and making of		Section 1			
2	nspection path, repairing of fence etc on day to	Dls	4	165.76	402.62	66738.29
	day basis @ 4Dls/ha				235 82	

de

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.		Grand State Commence		8000.00
6	Contigency @ 15% over previous year	L.S.		State of the State		4373.00
	Climber cutting, line grotection and other				Sub Total	488692.18
	7th YEAR MAINTENANCE		10	@R	s.442.88/Dls.	
1	Climber cutting, fire protection and other silvicultiural works 12 Dls/Ha	DIs	12	80.28	442.88	35554.41
2	Protection work, cattle, watering, upkeepment of plantation and making of inspection path, reparing of fence etc. on day to day basis @ 5 Dls/ha.	Dls	5	207.2	442.88	91764.73
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.		Anni Salan Salan ya Maria	er er eller Grenner transpagning og er	8000.00
5	Contigency @ 15% over previous year	L.S.				5028.00
	Overs			17112 8.58	Sub Total	153939.14
	8 th YEAR MAINTENANCE			@Rs.	487.16/Dls.	
1	Climber cutting, fire protection and other silvicultiural works 10 Dls/Ha	DIs	8	331.52	487.16	161450.24
2	Protection work, cattle, watering, upkeepment of plantation and making of inspection path, reparing of fence etc. on day to day basis @ 5 Dls/ha.	Dls -	5	207.2	487.16	100939.55
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	Contigency @ 15% over previous year	L.S.				5783.00
					Sub Total	291122.79
	9 th YEAR MAINTENANCE @Rs.535.87/DIs.					
L	Climber cutting, fire protection and other	Dls	7	290.08	535.87	155445.17
2	Protection work, cattle, watering, upkeepment of plantation and making of inspection path	Dls	5	207.2	535.87	111032.26

100

0	Maintenance of camp huts, implements,	Γ		Π		
3	ring/tube well upkeepment of plantation, signboard, documents, upkeepment of records etc.	L.S.	INCON DIECT	1.80.00	CATION 61	16446.00
4	Supervision Cost	L.S.				4000.00
5	Contigency @ 15% over previous year	L.S.				6650.00
					TOTAL	293573.43
	10 th YEAR MAINTENANCE			@Rs.	589.45/Dls	
1	Climber cutting, fire protection and other silvicultiural works 10 Dls/Ha	DIs	6	248.64	589.45	146560.85
2	Protection work, cattle, watering, upkeepment of plantation and making of inspection path, reparing of fence etc. on day to day basis @ 5 Dls/ha.	Dls	4	165.76	589.45	97707.23
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	Contigency @ 15% over previous year	L.S.				7648.00
Sub Total						
Total						10726056.80
	Overh	ead co	st @ 50	0% of tota	al estimate	5363028.40
	GRAND TOTAL FOR RAISING 41.44 Ha					

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

Jorhan

Divisional Forest Officer
DivGolaghat Division
Golaghat