

Estimate for Compensatory Afforestation in 5.194 HA Block against diversion proposal of 2.597 HA Forest Land for ONGC Development Drilling Location -DPDA

1	AREA (HA)	5.194				
2	Dimensions of the block in m		415	101	445	143
3	PERIMETER	1104				
4	SPACING	2*2	Name of species to be planted			
5	NUMBER OF SAPLINGS/HA	2500				
6	LENGTH OF FENCE(RM)	1104				
7	WAGE RATE FOR FIRST YEAR	240				
8	INCREASE In wage rate for subsequent year by a factor	1.1	Holak,Holong, Mekai,Khokona,Morhat, Hingori,Titachopa,Panchopa,Gahorichapa, Syamkothal, Bandardima, Nahar, Moz, Kadam,Hilikha			
9	Appreciation of material cost by a factor	1.1				
10	Compartment number	2				
11	Location of plantation:	lower Doigrung Wild Life Sanctury				
12	GPS co-ordinates	26 ⁰ 25'57.602" N; 93 ⁰ 47'50.316" E 26 ⁰ 25'53.068" N; 93 ⁰ 47'49.198" E 26 ⁰ 25'53.395" N; 93 ⁰ 48'05.249" E 26 ⁰ 25'56.682" N; 93 ⁰ 48'05.248" E				

SL NO	Particulars of work	units	Qty/ha	Total qty	Rate Rs	Amount in Rs
A	ERECTION OF FENCING					
	Cost of full chained linked goat proof fencing (4*ht with 10 gauge 3 dla link) to be fitted on pre-cost RCC pillars at 1.8 mt apart including transportation of fencing materials to site for 4330 RM@800 per RM as per estimating	RM		1104	800	883200
	(b)wages for DLS foe carrying ,fitting,fixing,etc of fencing materials @ 20 DL /100 RM	DL		220.8	240	52992
	SUB TOTAL					936192
B	INFRASTRUCTURE IN PLANTATIONS AREA					
	Construction of camp hut as per estimate	Nos		1	150000	150000
	Installations of ring tube wells	Nos		2	50000	100000

Irrigation facility with diesel generation and host pipes for watering the nursery and plantation (during dry spells)	Nos		1	50000	50000
Cost of tools & implements	Nos		1	10000	10000
Cost of rccsignboard&gate including fitting and fixing of the same	Nos		1	60000	60000
Camp accessories@Rs 10000 per camp	Nos		1	10000	10000
Construction of inspection path@rs 50 –RM	RM		552	50	27600
Construction OF STAFF QUARTERS AS PER ESTIMATE	NO		0	800000	0
Provisions of solar energy foe staff quarters including installations	NO		1	70000	70000
Sub total					477600
C ADVANCE WORK					
SITE selection ,surveying,demarcation jungle cutting, burning etc 20DLs ha	DLS	20	103.88	240	24931.2
Preparation and acquisition of polypot sapling in the field nursery for planting 2500 nos seedlings ha@Rs 6 per polypot	NO	2500	12985	6	77910
Preparation of polypot sapling in the field nursery for vacancy filling					
(a) 25% mortality expected during 1 st year to be planted in the field the 2 nd year i.e 625 seedlings ha @Rs 6.5 per polyplot	NO	625	3246.25	6.5	21100.63
(B) 20% mortality expected during 2 nd year (to be planted in the field the 3 rd year)i.e 500 seedlings ha @Rs 7 per polyplot	NO	500	2597	7	18179
(C) 15% mortality expected during 3 rd year (to be planted in the field the 4 th year)i.e 375 seedlings ha @Rs 7.5 per polyplot	NO	375	1947.75	7.5	14608.13
(D) 10% mortality expected during 4 th year (to be planted in the field the 5 th year)i.e 250 seedlings ha @Rs 8 per polyplot	NO	250	1298.5	8	10388
Cost of bamboo ,making of stacking and transportation etc	NO	625	3246.25	1	3246.25

	Line alignment ,carriage of stacking materials and fixing the stacking @ 5 DLs ha	DLS	5	25.97	240	6232.8
	Supervising and monitoring	LS				10000
	Sub total					186596
D	Creation & 1st year maintenance	Wage rate		240		
	Soil working,carriage of stumps, poypotseedlings,and planting at the plantation site including dibbling of seeds wherever necessary to complete raising of plantations with all necessary option @40 DL s	DLS	40	207.76	240	49862.4
	5 weedings,mulching,and fire protection works @18 DLs/ha weeding	DLS	90	467.46	240	112190.4
	Upkeepment of plantation and making of inspection path repairing of fence etc on day to day basis @5DLs ha	DLS	5	25.97	240	6232.8
	Maintenance and protection of field nursery for 1DLs for 365 days	DLS	1	365	240	87600
	Watch and ward for the plantations area for 365 days	DLS		0	152	0
	Maintenance of camp huts implements ring/tube well,upkeepment of plantation ,signboard documentation upkeepment of records and other mise work	LS				10000
	Awareness & monitoring @Rs 800 ha	DLS	1	5.194	800	4155.2
	Sub total					270041
E	2nd year maintenance	WAGE RATE		264		
	5 weedings, fire protection works @15 DLs/ha weeding	DLS	75	389.55	264	102841.2
	25% vacancy filling by 1 year old seedlings from nursery @10 DLs ha	DLS	10	51.94	264	13712.16
	Upkeepment of plantation and making of inspection path repairing of fence etc on day to day basis @5DLs ha	DLS	5	25.97	264	6856.08
	Maintenance and protection of field nursery for 1DLs for 365 days	DLS		365	264	96360
	Watch and ward for the plantations area for 365 days	DLS		0	264	0

	Maintenance of camp huts implements ring/tube well,upkeepment of plantation ,signboard documentation upkeepment of records and other mise work	LS				11000
	Supervision cost	LS				3024
	Contingent L S	LS				2500
	SUB TOTAL					236293
F	3 RD YEAR MAINTENANCE	WAGE RATE		290		
	4 weedings, fire protection works @15 DLs/ha weeding	DLS	60	311.64	290	90375.6
	20% vacancy filling by 2 year old seedlings from nursery @8 DLs ha	DLS	8	41.552	290	12050.08
	Protection work,cattle watching Upkeepment of plantation and making of inspection path repairing of fence etc on day to day basis @5DLs ha	DLS	5	25.97	290	7531.3
	Maintenance and protection of field nursery for 1DLs for 365 days	DLS		365	290	105850
	Watch and ward for the plantations area for 365 days	DLS		0	290	0
	Maintenance of camp huts implements ring/tube well,upkeepment of plantation ,signboard documentation upkeepment of records and other mise work	LS				12100
	Supervision cost	LS				3024
	contingency@15% over previous year	LS	0.15			2875
	Sub total					233806
G	4 TH YEAR MAINTENANCE	WAGE RATE		319		
	4 weedings, fire protection works @15 DLs/ha weeding	DLS	60	311.64	319	99413.16
	15% vacancy filling by 2 year old seedlings from nursery @6DLs ha	DLS	6	31.164	319	9941.316
	UPKEEPMENT OF PLANTATION AND MAKING INSPECTION PATH repairing of fence etc on day to day basis @5 DLs ha	DLS	5	25.97	319	8284.43
	Maintenance and protection of field nursery for 1DLs for 365 days	DLS		365	319	116435

	Watch and ward for the plantations area for 365 days	DLS	.	0	319	0
	Maintenance of camp huts implements ring/tube well,upkeepment of plantation ,signboard documentation upkeepment of records and other mise work	LS				13310
	Supervision cost	LS				3024
	contingency@15% over previous year	LS	0.15			3306.25
	Sub total					253714
H	5 TH YEAR MAINTENANCE	WAGE RATE		351		
	CLIMBER CUTTING WEEDING & OTHER SILVICULTURAL WORKS AND FIRE PROTECTION WORKS @15 dls ha	DLs	15	77.91	351	27346.41
	10 % vacancy filling by 2 year old seedlings from nursery @4DLs ha	DLs	4	20.776	351	7292.376
	Maintenance & fencing post replacement @ 3% initial cost of material		0.03	883200	0	26496
	UPKEEPMENT OF PLANTATION AND MAKING INSPECTION PATH repairing of fence etc on day to day basis @4 DLs ha	DLs	4	20.776	351	7292.376
	Watch and ward for the plantations area for 365 days	DLs		0	351	0
	Maintenance of camp huts implements ring/tube well,upkeepment of plantation ,signboard documentation upkeepment of records and other mise work	Ls				14641
	Supervision cost	Ls				3024
	contingency@15% over previous year	Ls	0.15			3802.188
	Sub total					89894
I	6 TH YEAR MAINTENANCE	WAGE RATE		386		
	CLIMBER CUTTING WEEDING & OTHER SILVICULTURAL WORKS AND FIRE PROTECTION WORKS @15 dls ha	DLs	15	77.91	386	30073.26

	UPKEEPMENT OF PLANTATION AND MAKING INSPECTION PATH repairing of fence etc on day to day basis @4 DLs ha	DLs	4	20.776	386	8019.536
	Watch and ward for the plantations area for 365 days	DLs		0	386	0
	Maintenance of camp huts implements ring/tube well,upkeepment of plantation ,signboard documentation upkeepment of records and other mise work	Ls				16105.1
	Supervision cost	Ls				3024
	contingency@15% over previous year	Ls	0.15			4372.52
	SUB TOTAL					61594.4
J	7 TH YEAR MAINTENANCE	WAGE RATE		425		
	CLIMBER CUTTING WEEDING & OTHER SILVICULTURAL WORKS AND FIRE PROTECTION WORKS @12 dls ha	DLs	12	62.328	425	26489.4
	Protection work,cattle watching Upkeepment of plantation and making of inspection path repairing of fence etc on day to day basis @5DLs ha	DLs	5	25.97	425	11037.25
	Maintenance of camp huts implements ring/tube well,upkeepment of plantation ,signboard documentation upkeepment of records and other mise work	Ls				17715.61
	Supervision cost					3024
	contingency@15% over previous year	Ls	0.15			5028.39
	SUB TOTAL					63294.65
K	8 TH YEAR MAINTENANCE	WAGE RATE		468		
	CLIMBER CUTTING WEEDING & OTHER SILVICULTURAL WORKS AND FIRE PROTECTION WORKS @8 dls ha	DLs	8	41.552	468	19446.34
	Protection work,cattle watching Upkeepment of plantation and making of inspection path repairing of fence etc on day to day basis @5DLs ha	DLs	5	25.97	468	12153.96

	Maintenance of camp huts implements ring/tube well,upkeepment of plantation ,signboard documentation upkeepment of records and other mise work	Ls				19487.17
	Supervision cost	Ls				3024
	contingency@15% over previous year	Ls	0.15			5782.652
	SUB TOTAL					59894.12
L	9 TH YEAR MAINTENENCE	WAGE RATE		515		
	CLIMBER CUTTING WEEDING & OTHER SILVICULTURAL WORKS AND FIRE PROTECTION WORKS @7dIS ha	DLs	7	36.358	515	18724.37
	Protection work,cattle watching Upkeepment of plantation and making of inspection path repairing of fence etc on day to day basis @5DLs ha	DLs	5	25.97	515	13374.55
	Maintenance of camp huts implements ring/tube well,upkeepment of plantation ,signboard documentation upkeepment of records and other mise work	Ls				21435.89
	Supervision cost	Ls				3024
	contingency@15% over previous year	Ls	0.15			6650.05
	SUB TOTAL					63209
M	10 TH YEAR MAINTENANCE	WAGE RATE		567		
	CLIMBER CUTTING WEEDING & OTHER SILVICULTURAL WORKS AND FIRE PROTECTION WORKS @7dIS ha	DLs	6	31.164	567	17669.99
	Protection work, cattle watching Upkeepment of plantation and making of inspection path repairing of fence etc on day to day basis @5DLs ha	DLs	4	20.776	567	11779.99
	Maintenance of camp huts implements ring/tube well, upkeepment of plantation ,signboard documentation upkeepment of records and other mise work	Ls				23579.48
	Supervision cost	Ls				3024

contingency@15% over previous year	Ls	0.15			7647.557
SUB TOTAL					63701
		TOTAL			2995830

Compensatory Afforestation Scheme for 10 years in 4.48 Ha Block

Compensatory Afforestation Scheme for 10 years in 4.48 Ha Block

Particulars of work	Amount
Erection of fencing	936192
Infrastructure in plantation area	477600
Advance Work	186596
Creation & 1 st year maintenance	270040.8
2 nd year maintenance	236293
3 rd year maintenance	233806
4th year maintenance	253714
5th year maintenance	89894
6th year maintenance	61594
7 th year maintenance	63294.65
8 th year maintenance	59894
9 th year maintenance	63209
10th year maintenance	63701
Total	2995830
Overhead cost @50% on total cost	1497915
Grand total	4493745
Rate per Ha plantation	865180

Technically Approved

**Conservator of Forests
Eastern Assam Circle
Jorhat**

Prepared by

24.01.2020

Divisional Forest Officer
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