## Estimate for Comapensatory Aforestation in 2.88 HA Block against diversion proposal of 1.44 Ha Forest Land for ONGC Exploratory Drilling Location -KSAG to KSAB

1	AREA (HA)	2.88	Dimensions	of the Block	c in m			
2			160	208	120			
3	PERIMETER	705		217				
4	SPACING	2 X 2	Name	e of Speceis				
5	NUMBER OF SAPLINGS / HA	2500	to b					
6	LENGTH OF FENCE (RM)	. 705	Holak, Holong		Khokan,			
7	WAGE RATE FOR FIRST YEAR	240		Morhal, Hingori, Titachopa,				
8	Increase in wage rate for subsequent year by a factor	1.1	Gahorichopa,		yamkothal,			
9	Appreciation of material cost by a factor	1.1	Bandardima, Nahar, Moz		Kadam,			
10	Compartment Number	116	Hilikha.					
11	Location of plantation: Upper Dehing Reserved Forest (WE)	110						
12	GPS: Co-ordinates: :							
	27° 26′ 40.77" N ; 95° 44′ 30.13" E							
	27° 26′ 43.00" N ; 95° 44′ 35.25" E							
	27° 26′ 47.79" N ; 95° 44′ 29.95" E							

27° 26′ 46.64" N; 95° 44′ 25.76" E 13 Name of Range: Digboi Range

SI. No.	Particulars of works`	Units	Qty/	Total	Rate	Amoun
A	ERECTION OF FENCING		ha	Qty.	Rs	R
	(a) Cost of full Chain-linked Goat Proof fencing (4' ht. with 10 Gauge,3" dia link) to be fitted on Pre-cost RCC pillars* at 1.8 mt. apart including transportation of fencing materials to site for 4330 RM @ Rs. 800 per RM as per estimate	RM		705	800	564000
	(b) Wages of DLS for carrying, fitting, fixing etc. of fencing materials @ 20 DLs/100 RM	DL		141	240	33840
	Sub-total					597840
В,	INFRASTRUCTURE IN PLANTATION AREA					
	Construction of camp hut as per estimate.	Nos.		1	150000	150000
	Installation of ring/tube well	Nos.		1	50000	100000
	Irrigation facility with Diesel generation and hose pipes for watering the nursery and plantation ( during dry spells)	Nos.		1	50000	50000
	Cost of tools & implements	Nos		1	10000	10000
	Cost of RCC signboard & Gate including fitting and fixing of the same	Nos		1	60000	60000
	Camp accessories @ Rs. 10,000/- per camp	Nos		1	10000	10000
	Construction of Inspection Path @ Rs. 50/- RM	RM		368	50	18400
	Construction of Staff quarters as per estimate.	No.		0	800000	0
	Provision of Solar energy for staff quarters including installation.	No.		1	70000	70000
	Sub-total Sub-total	333			10000	468400
C	ADVANCE WORK					400400
	Site selection, surveying, demarcation, jungle cutting, burning etc.20 DLs/ha	DLS	20	57.6	: 240	13824
	Preparation and acquisition of polypot sapling in the field nursery for planting 2500 Nos. Seedling/ha @ Rs. 6/- per polypot	No.	2500	7200	6	43200
	Preparation 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 @ Rs.6.5/- per polypot.	No.	625	1800	6.5	11700
t	b)20% mortality expected during 2nd year (to be planted in the field during the 3rd year), i.e., 500 Seedlings/ha @ 7/- per polypot.	No.	500	1440	7	10080
t	c) 15% mortality expected during 3rd year (to be planted in the field during the 4th year),i.e., 375 Seedlings/ha @ 7.5/- per polypot.	No.	375	1080	7.5	8100
t	<ol> <li>10% mortality expected during 4th year (to be planted in the field during the 5th year), i.e., 250 Seedlings/ha @ 8/- per polypot.</li> </ol>	No.	250	720	8	5760
	Cost of Bamboo, making of stacking & transportation etc.	No.	625	1800	l l	1800
I	Line alignment, carriage of stacking materials and fixing the satacking @ 5  DLs/ha	DLS	5	14.4	240	3456
S	Supervision and Monitoring.	LS				10000
S	Sub-total					107920

SI.	Particulars of works`	Units	Qty/ ha	Total	Rate	Amount
No.	CREATION & 1st YEAR MAINTENANCE	3375	Rate	Qty. 240	Rs	Rs
D	THE CONTROL OF THE CO	DLS	40	115.2	240	27648
	Soil working, carriage of stumps, popypot seedlings and planting ar the plantation site including, dibbling of seeds wherever necessary to complete raising of plantation with all necessary operation @ 40 DLs/ha	DLS	40	113.2	240	27040
	5 weedings, mulching and fire protection works @ 18 DLs/ha/weeding	DLS	90	259.2	240	62208
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 5 DLs/ha.	DLS	5	14.4	240	3456
	Maintenance and protection of field nursery for 1 DLs for 365 days	DLs		365	240	87600
	Watch and ward for the plantation 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		2.88	800	2304
	Sub total					193216
E	2nd YEAR MAINTENANCE	Wage	Rate	264		
	5 weedings, fire protection woks @15 DLs/ha weeding	DLs	75	216	264	57024
	25% Vacancy filling by 1 year old seedlings from nursery @ 10 DLs/ha	DLs	10	28.8	264	7603.2
	Upkeepment of plantation, and making of inspection path, repariring of fence etc on day to day basis @ 5 DLs/ha	DLs	5	14.4	264	3801.6
	Maintenance and protection of field nursery for 1 DLs for 365 days	DLs		365	264	96360
	Watch and ward for the plantation area for 365 days	DLS		0	264	0
	Maintenance of camp hut, implements, ring/tube-well upkeepment of plantation, signboard, documentation, upkeepment of records etc.	LS				11000
	Supervision Cost	LS				2304
	Contingency L.S.	LS				2500
	Sub total					180593
F	3rd YEAR MAINTENANCE	Wage	Rate	290		
	4 weedings, fire protection works @ 15 DLs/ha/weeding	DLs	60	172.8	290	50112
	20% Vacancy filling by 2 year old seedlings from nursery @ 8DLs/ha	DLs	8	23.04	290	6681.6
	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	14.4	290	4176
	Maintenance and protection of field nursery for 1 DLs for 365 days	DLs		365	290	105850
	Watch and ward for the plantation area for 365 days	DLs		0	290	0
	Maintenance of camp hut, implements, ring/tube-well upkeepment of plantation, signboard, documentation, upkeepment of records.	LS				12100
	Supervision Cost	LS				2304
	Contingency @ 15% over previous year	LS	0.15			2875
	Sub total					184099
G	4th YEAR MAINTENANCE	Wage	Rate	319		
	4 weedings, fire protection woks @ 15 dls/ha/weeding	DLs	60	172.8	319	55123.2
	15% Vacancy filling by 2 year old seedlings from nursery @ 6DLs/ha	DLs	6	17.28	319	5512.32
	Upkeepment of plantation, and making of inspection path,repairing of fence etc. on day to day basis @ 5 DLs/ha	DLs	5	14.4	319	4593.6
	Maintenance and protection of field nursery for 1 DLs for 365 days	DLS		365	319	116435
	Watch and ward for the plantation area for 365 days	DLs		0	319	C
	Maintenance of camp hut, implements, ring/tube-well upkepment of plantation, signboard, documentation, upkeepment of records etc.	LS				13310
	Supervision Cost	LS				2304
	Contingency @ 15% over previous year.	LS	0.15			3306.25
	Sub total					200584

SI. No.	Particulars of works`	Units	Qty/	Total Qty.	Rate Rs	
Н	5th YEAR MAINTENANCE	Wag	e Rate	351		
	Climber cutting, weeding & other silvicultural works and fire protection works @ 15DLs/ha	DLs	15	43.2	351	15163.2
	10% Vacancy filling by 2 year old seedlings from nursery @ 4 DLs/ha	DLs	4	11.52	351	4043.52
	Maintenance & fencing post replacement @ 3% initial cost of material.		0.03	564000		16920
	Upkeepment of plantation and making of inspection path, repairing of fence etc. on day to day basis @ 4 DLs/ha.	DLs	4	11.52	351	4043.52
	Watch and ward for the plantation area for 365 days	DLs		0	351	0
	Maintenance of camp hut, implements, ring/tube-well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	LS				14641
	Supervision Cost	LS				2304
	Contingency @ 15% over previous year.	LS	0.15			3802.188
	Sub total					60917
I	6th YEAR MAINTENANCE	Wage	Rate	386		
	Climber cutting, other silvicultural works and fire protection works @ 15DLs/ha	DLs	15	43.2	386	16675.2
	Upkeepment of plantation, and making of inspection path, repairing of fence etc. on day to day basis @ 4 DLs/ha.	DLs	4	11.52	386	4446.72
	Watch and ward for the plantation area for 365 days	DLs		0	386	0
	Maitenance of camp hut, implements, ring/tube-well upkeepment of plantation, signboard, documentation & upkeepment of records etc.	LS				16105.1
_	Supervision Cost	LS				2304
_	Contingency @ 15% over previous year.	LS	0.15			4372.516
	Sub total Sub total					43904
J	7th YEAR MAINTENANCE	Wage		425		
	Climber cutting, other silvicultural works and fire protection works @ 12DLs/ha.	DLs	12	34.56	425	14688
	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	14.4	425	6120
	Maintenance of camp hut implements, ring/tube-well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	LS				17715.61
	Supervision Cost	- m & 1	1201.0			2304
	Contingency @ 15% over previous year.	LS	0.15			5028.393
	Sub total					45856
_	8th YEAR MAINTENANCE	Wage		468		10220 22
	Climber cutting, other silvicultural works and fire protection works @ 8DLs/ha.	DLs	8	23.04	468	10782.72
	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	14.4	468	6739.2
	Maintenance of camp hut implements, ring/tube-well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	LS				19487.17
	Supervision Cost	LS				2304
_	Contingency @ 15% over previous year.	LS	0.15			5782.652
;	Sub total					45096
L	9th YEAR MAINTENANCE	Wage	Rate	515		
	Climber cutting, other silvicultural works and fire protection works @ 7DLs/ha.	DLs	7	20.16	515	10382.4
	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	14.4	515	7416
	Maintenance of camp hut implements, ring/tube-well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	LS				21435.89
_	Supervision Cost	LS				2304
_	Contingency @ 15% over previous year.	LS	0.15			6650.05
	Sub total					48188

SI. No.	Particulars of works`	Units	Qty/	Total Qty.	Rate Rs	Amount
М	10th YEAR MAINTENANCE	Wag	Rate	567	113	113
	Climber cutting, other silvicultural works and fire protection works @ 6DLs/ha.	DLs	6	17.28	567	9797.76
	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	11.52	567	6531.84
	Maintenance of camp hut implements, ring/tube-well, upkeepment of plantation, signboard, documentation & upkeepment of records etc.	LS		1.0		23579.48
	Supervision Cost	LS				2304
	Contingency @ 15% over previous year.	LS	0.15			7647.557
	Sub total					49861
		Total				2226474

## Compensatory Affrorestation Scheme for 10 Years in

## 2.88 Ha Block

Particulars of Works	Amount (Rs.)
Erection pf Fencing	597840
Infrastructure in Plantation Area	468400
Advance Work	107920
Creation & 1 <sup>st</sup> Year Maintenance	193216
2 <sup>nd</sup> Year Maintenance	180593
3 <sup>rd</sup> Year Maintenance	184099
4 <sup>th</sup> Year Maintenance	200584
5 <sup>th</sup> Year Maintenance	60917
6 <sup>th</sup> Year Maintenance	43904
7th Year Maintenance	45856
8th Year Maintenance	45096
9th Year Maintenance	48188
10thYear Maintenance	49861
Total	2226474
Overhead cost @ 50% on total cost	1113237
Grand Total	3339711
Rate Per Ha Plantation	1159622

## 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 ft height (1.5 ft below ground & 4.5 ft above ground) with

Technicaly Approved

Chief Conservator of Forests Eastern Assam Circle, Jorhat Submitted

Divisional Forest Officer Digboi Forest Division