

MODEL COST ESTIMATE FOR COMPENSATORY AFFORESTATION					
ON DEGRADED FOREST LAND					
“Laying of Underground Optical Fiber Cable Along the NH-21(old NH11) Road Within the Existing Row from Mahuwa to Via Halena -Bharatpur.					
Proposal no. - FP/RJ/OFC/47243/2020					
LABOUR RATE:		Rs. 252/Day			
Name of Site		Kair			
COST ESTIMATE:		in Rs./Ha.			
0 YEAR (ADVANCE ACTION)					
S.No..	ITEM OF WORK	RATE (Rs.)	LABOUR	MATERIAL	TOTAL
1	Collection of Basic Datas for Microplanning and carrying out joint forest managment activities.	575/ ha.	588	50	638
2	Survey of area,layout of contour trenches, burrow pits and making of segments / plots	463 / ha.	463	50	513
3	Fencing by stone wall and or by ditch.				
	a.) Stone wall fencing 1.20 m high 0.80 m at base & 0.60 at top (on an average 30 m/ha.)	225 / rmt	7560	0	7560
	b.) Ditch fencing 1.20m deep,1.50m wide at top & 0.90m at bottom (on an average 30m/ha.)	245.2 / rmt	8238	0	8238
4	Cost of raising 770 seedlings	3.93/ plant	2158	1105	3263
5	Digging up 300 rmt Staggered Contour Trenches 45x45cm cross section on middle slopes and V-ditch as per site requirement	28.28 / rmt	9505	0	9505
6	Digging of 300 pits size: 0.45x(0.4+0.5/2)2 cum	17.6 / pit	5913	0	5913
7	Cost of collection and purchase of grass and other seeds of trees and shrubs	Prorata	0	196	196
8	Treatment of Nallas by constructing series of Checkdams of dry ramdom trubble / earthan / brushwood	Prorata	735	0	735
9	Construction of Thatched cattle guard hut	Prorata	136	78	214
10	Purchase or construction of water storage tank.	Prorata	79	48	127
11	Labour aminities	Prorata	92	86	178
12	Watch and ward for 4 months @16188 per month	Prorata	1450	0	1450
13	Purchase of Tools and Plants		0	110	110
14	Construction of 50 mt. long contour dykes of 30X30 cm. cross section on upper slopes and sowing of suitable thorny shrub species seeds along its innerside	30.46 / rmt.	1706	0	1706
15	Construction of the pillars of appropriate size for gate.	Prorata	80	97	178
16	Purchase of signboards & fixing at site	Prorata	32	92	124
17	Misc. and unforeseen expenses including POL for vehicles	Prorata	280	108	388
	TOTAL YEAR 0		39016	2021	41037
19	Administrative charges 10%				4104
				TOTAL	45141
	YEAR I (PLANTING YEAR)				

1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0	73	73
2	Maintenance of 770 seedling in nursery	2.11 / plant	1674	134	1808
3	Digging of 400 pits of size 0.45 (4+5/2)*2 Cum	17.73/ pit	7884	0	7884
4	In situ soil and moisture conservation measures like check dam, nadies, earthen bunds etc.	Prorata	2864	243	3107
5	Digging of 30cmX30 cm cross section trench along inner side of stone wall fencing and seed sowing (60 mt./ ha.)	12.43 per m	814	19	833
6	Sowing/dibbling of seeds of grass /thorny trees species on the mounds of contour trench and ditch fencing etc. (370 m / ha.)	0.59/m	231	13	244
7	Purchase of insecticide and Fertilizers.	0.82/ plant	0	577	577
8	Sowing of pellats of grass/piece of seed mud cakes of grass seeds between row of pits by ploughing and furrowing.	Prorata	570	0	570
9	Transportation of 700 plants from nursery to planting site	1.41 / plant	1060	45	1105
10	Planting of 700 seedlings including Refilling of pits	4.09	3213	0	3213
11	Watering (if sufficient rains are not there) & application of insecticide in 700 plants at the time of planting.	3.16/ plant	2485	0	2485
12	Restoration of natural regeneration by making crescent shapad mounds on the lower slopes of seedling and sapling and making ring tranches around the natural trees / shrubs. (150 plants / ha)	4.10 / plant	689	0	689
13	Making of crescent shaped mounds below planted sapling after planting and dibbing of 3 seeds of thorny tree species. (700 plants / ha)	3.58 / plant	2807	0	2807
14	Weeding and hoeing of 700 plants in 2 time. Repairing of plants mound	3.57/ plant	5598	0	5598
15	Weeding on contour trenches and "V" ditches and spacement / singling.	Prorata	592	0	592
16	Raising of 70 seedilings in nursery for casualty replacement in year-2 (10% of 700)	3.94 / seedli	196	101	297
17	Watch and ward for 12 months @16188 per month	prorata	4551	0	4551
18	Labour aminties and hut repair.	Prorata	364	49	414
19	Construction of approach road / inspection path	Prorata	428	0	428
20	Construction of gate and fixing of sign board	Prorata	570	80	651
21	Micellaneous and unforeseen expenditure.	Prorata	174	32	206
	TOTAL YEAR 1		36566	1365	37931
22	Administrative charges 10%				3793
				TOTAL	41274
	FIRST YEAR MAINTENANCE (YEAR 2)				

1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0	73	73
2	Maintenance of 70 Seedling in nursery for casualty replacement in year-2	2.11/ plant	143	20	163
3	Repair of fencing	Prorata	252	0	252
4	Casualty replacement 70 plants including redigging of pits, transportation planting, watering and application of insecticides	11.55 / plant	862	39	901
5	Weeding and Hoeing in 700 plants in pits two times	3.57 / Plant	5598	0	5598
6	Watch and ward for 12 months @16188 per month	prorata / ha	4351	0	4351
7	Misc. and unforeseen expences including (additional watering and forest protection measures etc.	prorata	380	238	617
	TOTAL YEAR 2		11587	369	11956
8	Administrative Charges 10%				1196
	TOTAL				13152
	SUBSEQUENT MAINTENANCE (YEAR 3 TO 12)				
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0	73	73
2	Watch and ward for 12 months @16188 per month	prorata	4351	0	4351
3	Misc.and unforeseen expenditure including (repairing of fencing / structures pruning etc.	prorata	776	289	1065
4	TOTAL YEAR 3.		5128	362	5489
5	Administrative charges 10%				549
Total					6038

Grand Total	Rate per ha.	DFL Area in ha.	Total amount for CA in rupees
0Year	45141	4.9194	Total Amount for CA will be : 160400 X 4.9194 = 7,89,072/- (Seven Lakh Eighty Nine thousand Seventy two Rupees only)
First Year	41724	4.9194	
Second Year	13152	4.9194	
Third Year	6038	4.9194	
Fourth Year	6038	4.9194	
Fifth Year	6038	4.9194	
Sixth year	6038	4.9194	
Seventh year	6038	4.9194	
Eighth year	6038	4.9194	
Ninth Year	6038	4.9194	
Tenth Year	6038	4.9194	
Eleventh Year	6038	4.9194	
Twelfth Year	6038	4.9194	
TOTAL	160397	4.9194	
SAY	160400	4.9194	
Deputy Conservator Of Forest Bharatpur			