

CHECK LIST SERIAL NUMBER- 18
SCHEME FOR COMPENSATORY AFFORESTATION.

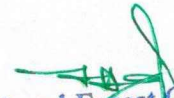
Detail scheme for Compensatory Afforestation to be carried out in lieu of 4.7503. of forest land to be diverted for construction of link road from Chicham road to Village Chikzar UNDER SECTION 2 OF FCA,1980 H.P within the jurisdiction of Spiti Wildlife Division.

1. Details of degraded forest land/non forest land:- UPF Thanga Chenmo =9.00 hac.
 District:- **Lahaul Spiti**
 Tehsil :- **Kaza**
 Name of Forest Division :- **Spiti Wildlife Division, at Kaza**
 Range: - **Kaza**
 Block/Compartment/Survey No: **I43X15.**
2. Description of area:-
 - 1) Whether the site selected for Compensatory Afforestation is a land bank or not:- **Yes**
 - 2) If the CA site is other than the land bank, reasons be given:- **Not applicable.**
 - 3) In case of non-forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary:- **Not applicable.**
 - 4) Soil type:- **Sandy loam to Sandy Clay loam..**
 - 5) Topography :- **a. Hilly/undulating/plain. b. Slope: Steep/Medium/Gentle.**
 - 6) Whether the area is bearing any root stock of vegetation:- **Sporadic growth of salix & Popular.**
3. **Plantation Model:-**
 Copy of the approved compensatory afforestation scheme/model showing component wise physical and financial break up is enclosed.
4. **Schedule of plantation programme:-**
 Detail of year wise break-up of requirement of funds attached.
5. **Technical details:-**
 Technical details of Compensatory Afforestation scheme are as follows:-
 - (a) General details: - An area of the 9.00 ha. will be taken up for planting under Compensatory Afforestation scheme in UF: Thanga Chenmo. The area will be protected by Barbed wire fencing in RCC fence posts in four strands and a mixture of Popular and Salix species will be planted. 1100 plants will be planted per hectare.
 - (b) Spacement:- **3 mtr X 3 mtr**
 - (c) Species:- **Popular & Salix species.**
 - (d) **Plantation Method:-** Nursery grown 1½ to 2½ year old plants (in Polythene bags as well as naked root) will be planted in 30 X 30 X 30 cm and 45 X45 X 45 cm pits in the selected area. Bush cutting will be done only in the infested area. The plantation will be maintained for subsequent 10 years in which beating up of failures will be done. The plantation will be through watering.
 - (e) **Soil and Moisture Conservation Works:-** Contour trenching will be done over the entire area to conserve the available moisture during rainy season so that moisture regime in the area is improved. Minor Soil Conservation Works like gully plugging, check walls be done where ever required.
 - (f) **Protection (Fencing, Watch man, People's Participation etc.):-** Area will be protected from grazing by erecting barbed wire fencing at all vulnerable places around the plantation. Further watch and ward as also fire protection will be ensured through regular department staff.
 - (g) **Proposed monitoring Mechanism:-** The plantation will be monitored as per existing monitoring mechanism in the forest department. The plantation will also be monitored by GOI representatives as per instructions. The plantation site will be approachable from motorable roads.
 - (h) **Any other information: - Nil**

BILL FOR COMPENSATORY AFFORESTATION SCHEME OVER 9.5006 HACTARE FOREST LAND IN LIEU OF DIVERSION OF 4.7503 HECTARE OF FOREST LAND FOR C/O OF LINK ROAD FROM CHICHAM TO CHIKZAR VILLAGE WITHIN THE JURISDICTION OF SPITI WILD LIFE DIVISION KAZA DISTT. LAHOUL & SPITI H.P.

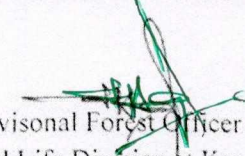
Norms of plantation and maintenance of old plantation for Non - Tribal and Tribal Area for the year 2021-2022 applicable vide Pr.CCF (HoFF)
H.P. Shimla memo. No. Ft. State CAMPA/20210/Norms/Vol.III dated 21.06.2021

Particulars of work	Area (in Hect.)	Plantation Norm per Hect.	Plantation cost	Plants to be planted per hec.	Total no of plants to be planted	Nursery cost per plant	Total Nursery Cost	Plantation cost+Total nursery cost (Col. 4+8)	Year of Execution of Works	Add10% Escalation for undertaking works in	Total Amout (Col. 9+11)
<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>
A. Initial cost for raising compensatory afforestation over an area of 39.02 Hectare :-											
0 Year/new plantation	9.5006	98785	938517	1100	10451	22.14	231378	1169894	2022-23	116989	1286884
soil & Moisture Coservation Work @25 % of Planting Cost											321721
Total -A											1608605
B. Maintenance Cost for raising Compensatory Afforestation :-											
1st year maintenance	9.5006	11380	108117	330	3135	22.14	69413	177530	2023-24	35506	213036
2nd year maintenance	9.5006	7680	72965	220	2090	22.14	46276	119240	2024-25	35772	155012
3rd year maintenance	9.5006	3975	37765	110	1045	22.14	23138	60903	2025-26	24361	85264
4th year maintenance	9.5006	3975	37765	110	1045	22.14	23138	60903	2026-27	30451	91354
5th year maintenance	9.5006	3975	37765	110	1045	22.14	23138	60903	2027-28	36542	97444
6th year maintenance	9.5006	3975	37765	110	1045	22.14	23138	60903	2028-29	42632	103534
7th year maintenance	9.5006	3975	37765	110	1045	22.14	23138	60903	2029-30	48722	109625
8th year maintenance	9.5006	3975	37765	110	1045	22.14	23138	60903	2030-31	54812	115715
9th year maintenance	9.5006	3975	37765	110	1045	22.14	23138	60903	2031-32	60903	121805
10th year maintenance	9.5006	3975	37765	110	1045	22.14	23138	60903	2032-33	66993	127896
Total-B											1220685
Total -A+B											2829290
Add Contigencies Charges @5%											141465
Total											2970755
Add Departmental Charges of Supervision @17.5%											495126
Grand Total											3465880


 Divisional Forest Officer
 Spiti Wild Life Division
 Kaza L&S (H.P.)

NORM FOR COMPENSATORY AFFORESTATION-FENCING WITH RCC FENCE POSTS						
NORMS FOR NEW PLANTATION IN TRIBAL AREAS FOR THE YEAR 2021-22						
(MODEL: 1100 Pplants per Hectare-Activity-wise calculations)						
Sr. No.	Particulars of Works	Unit	Qty.	Rate per Unit at the wage reate of Rs. 150/-	Mandays involved	Amount at wage rate of Rs. 375- for Tribal areas.
A Survey, Demarcation & Fencing						
1	Survey and demarcation of plantation area.	ha.	1	101	0.67	253.76
2	Preparation Purchase of RCC fence post.	Nos.	50	358	0	17900.00
3	Carriage of RCC Fence Post upto 165 cm	Nos.	50	33.5	22.33	8373.75
4	Preparation Digging of holes of 20x30x50Cm	Nos.	50	9.06	3.02	1132.50
5	Fixing of RCC fence posts i.e strutting.	Nos.	50	7.16	2.39	896.25
6	Carriage of B wire over distance 2Km	Per Km per	0.75	73.65	0.74	277.50
7	Stretching and fixing of Barbed wire in 4	Rmt	600	4.8	19.2	7200.00
8	Interlacing of thorny bushes along the fence.	Rmt	150	4.09	4.09	1533.75
9	Cost of Barbed wire.	Qtl	0.75	6510	0	4882.00
Total-A-Survey, Demarcation & Fencing						42449.51
Or Say						42445
B Planting						
1	Bush cutting in strip (3mX3m)	ha.	1	1192.8	7.95	2981.3
2	Digging of pits of 45x45x45cm size	Nos.	1100	9.54	69.96	26235.0
3	Filling of pits of 45x45x45cm size	Nos.	1100	2.72	19.95	7481.3
4	Carriage of plants in P bags over distance 2	Nos.	1100	1.9	27.87	10451.3
5	Planting of plants raised in P bags	Nos.	1100	2.18	15.99	5996.3
6	Construction of Inspection Path	Rmt	100	11	7.33	2748.8
7	Cost of Sign Board, Carriage & Fixing	Nos.	1	LS	0	450
Total:- B						56343.75
Or Say						56340
Total (A+B)						98785
1st year maintenance (30% Beating up)						
1	Re-digging of pits 45x45x45cm	Nos.	330	4.77	10.49	3933.8
2	Filling of pits 45x45x45cm	Nos.	330	2.72	5.98	2242.5
3	Carriage of plants in P/bags over distance of	Nos.	330	2.18	4.8	1800.0
4	Planting of plants raised in P/bags	Nos.	330	1.9	8.36	3135.0
5	Repair of fencing	Km/No.	60	1.8	0.72	270.0
Total						11381.25
Or Say						11380.00
G. Total 1st year maintenance						11380.00
2nd year maintenance (20% Beating up)						
1	Re-digging of pits 45x45x45cm	Nos.	220	4.77	7	2625.00
2	Filling of pits 45x45x45cm	Nos.	220	2.72	3.99	1496.25
3	Carriage of plants in P/bags over distance of	Nos.	220	2.18	3.2	1200.00
4	Planting of plants raised in P/bags	Nos.	220	1.9	5.57	2088.75
5	Repair of fencing	Km/No.	60	1.8	0.72	270.00
Total						7680.00

						Or Say	7675.00
						G. Total 2nd year maintenance	7675.00
						3rd to 10th year Maintenance (10% Beating up)	
1	Re-digging of pits 45x45x45cm	Nos.	110	4.77	3.5	1312.5	
2	Filling of pits 45x45x45cm	Nos.	110	2.72	1.99	746.3	
3	Carriage of plants in P/bags over distance of	Nos.	110	2.18	1.6	600.0	
4	Planting of plants raised in P/bags	Nos.	110	1.9	2.79	1046.3	
5	Repair of fencing	Km/No.	60	1.8	0.72	270.0	
						Total	3975
						Or Say	3975.00
						Total 3rd to 10th year maintenance	3975.00


Divisional Forest Officer
Wild Life Division at Kaza