

CHECK LIST NO: - 27

“SCHEME FOR COMPESATORY AFFORTATION”

Detail scheme for compensatory Afforestation to be carried out over 3.6172 hectare of forest land for the construction of DIVERSION OF FOREST LAND FOR THE CONSTRUCTION LINK ROAD GAHAR DA GHATTU TO LANOIL. Within the jurisdiction of Dalhousie Forest Division.

The detail of CA scheme for on 3.6172 Ha is as under:-

a) District	Chamba
b) Village (Name of land Bank)	Sundla DPF
c) Tehsil	Bhattiyat
d) Name of Forest Division	Dalhousie
e) Range	Chowari
f) Scale	1.50000
g) Block/Compartment/Survey No.	143W3
h) Area to be afforested	3.6172 hectare

2). Description of Area:-

a) Whether the site selected for compensatory afforestation is a land bank or not:

Yes. The selected site is a land bank.

b) If the CA site is other than the land bank reason be given:

Not applicable as the site selected is a land bank.

c) In the case of non-forest area identified for CA, then what is the distance of CA site from adjoining forest boundary?

Not applicable as the site selected is a forest area.

d) Aspect: *Sorth-estern*

e) Topography: *Hilly*

f) Slope: *Moderate*

g) Soil Type: *Sandy loamy*

h) Soil depth: *Deep soil*

i) Area Dimensions: *3.6172 ha*

f) Whether the area is bearing any root stock of vegetation: *Area comprises of bushes of, Berberis, Lantana (Lantana camara), Tirmur (Zanthoxylum armatum), and Kari Patta (Murraya koenigii). Adjoining area consists of trees of Chil (Pinus roxburgii) etc.*

3) Plantation Model:-

Compensatory afforestation over an area of 3.6172 ha of degraded forest land is proposed to be raised. The area selected for this purpose is in Sundla DPF (3.6172 Ha), which is a degraded forest area and has been a land bank. Whole of the plantation of 3.6172 Ha will be raised in a single compact block inside the degraded forest for such purpose. The area identified for plantation has also been shown on the attached map. Plants @1100 plants per hectare i.e. 800 normal plants & 300 tall plant per hectare will be planted. Thus 3979 plants under this diversion proposal will be planted in the land bank. The species to be planted will be mainly broad leaved. The plantation will be raised in the following year after the approval of FCA proposal and further maintenance and beating up of failures will be done for the subsequent ten years. The scheme will be implemented by Forest Department through DFO, Dalhousie. Total financial outlay for compensatory plantation scheme is Rs.14,41,825/- . Certificate of the DFO Dalhousie regarding suitability of area identified for compensatory plantation is attached. The monitoring will be done as per existing monitoring mechanism in the Forest Department at present and also as per G.O.I. instructions.

(D) Scheduled of Maintenance Planting								
A	B	C	D	E	F		G	H
Year wise maintenance	Unit in ha	Number of Plants	Cost of Plant	Total cost plant	Rate per hact.		Total amount of column E+F	Total Amount including escalation
1st year Maintenance	3.6172	1194	75	29842	12540	45359.7	75201.588	90242
2nd Year Maintenance	3.6172	796	75	19895	8470	30637.7	50532.284	65692
3rd Year Maintenance	3.6172	398	75	9947.3	4290	15517.8	25465.088	35651
4th year Maintenance	3.6172	398	75	9947.3	4290	15517.8	25465.088	35651
5th year Maintenance	3.6172	398	75	9947.3	4290	15517.8	25465.088	35651
6th Year Maintenance	3.6172	398	75	9947.3	4290	15517.8	25465.088	35651
7th Year Maintenance	3.6172	398	75	9947.3	4290	15517.8	25465.088	35651
8th Year Maintenance	3.6172	398	75	9947.3	4290	15517.8	25465.088	35651
9th Year Maintenance	3.6172	398	75	9947.3	4290	15517.8	25465.088	35651
10th year Maintenance	3.6172	398	75	9947.3	4290	15517.8	25465.088	35651
Total Cost of 10 years Maintenance								441143

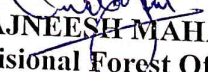
(E) Scheduled of Maintenance lantana/Eupatorium								
A	B	C	D	E	F		G	H
Year wise maintenance	Unit in ha				Rate per hact.			Total Amount
1st year Maintenance	1.5	0	0	0	5600		0	8400
2nd Year Maintenance	1.5	0	0	0	2200		0	3300
3rd Year Maintenance	1.5	0	0	0	2200		0	3300
Total Cost of 3 years Maintenance								15000

5). Technical details:-

Technical details of Compensatory Afforestation Scheme are as follows:-

- (a) **General Details:** - An area of **3.6172 ha** will be taken up for planting under compensatory afforestation scheme in **Sundla DPF** in a single compact block. The area will be protected by Barbed wire fencing and a mixture of broad leaved species with wild fruit bearing plants will be planted. Plants will be planted @ 1100 plants per hectare.
- (b) Spacement:- $3m \times 3m$
1. Species:- Broad Leaved plants i.e, Ban oak (*Quercus leucotrycophora*), Akhrot (*Juglans regia*), Kainth (*Pyrus pashia*), Chuli (*Prunus armeniaca*), Khirak (*Celtis australis*), Dhamman (*Grewia optiva*), Daru (*Punica granatum*),etc.
- (c) **Plantation Method:-** Nursery grown one and half year to two and half year old seedlings of Mixed species of Broad Leaved and wild fruit plants in Polythene bags will be planted in 45cm×45cm×45cm for normal sized seedlings and 60cm×60cm×60cm pits for tall sized seedlings in the selected area. Bush cutting will be done around the pits and as per minimum requirement but, Eupatorium weed will be removed being exotic, species and infestation is upto 25% in 1.5 hectare area. The plantation will be maintained for subsequent 10 years in which beating up failures will be done. The plantation will be rain faded.
- (d) **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 dam will be made where ever required.
- (e) **Protection (Fencing, Watch man, People's Participation etc.):**- Area will be protected from grazing by erecting barbed wire fencing at all vulnerable place around the plantation. Further watch and ward as also fire protection will be ensured through regular departmental staff.

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 monitoring will be done as per existing monitoring mechanism in the Forest Department at present and also as per G.O.I. instructions.


(RAJNEESH MAHAJAN)HPFS
Divisional Forest Officer
Dalhousie Forest Division
Dalhousie