

Full Title of the Project: construction of Solid Waste Management Plant at Kasol

File No. : _____

Date of Proposal: _____

CHECK LIST SERIAL NUMBER: 18

"SCHEME FOR COMPENSATORY AFFORESTATION"

Detailed scheme for Compensatory Afforestation to be carried out in lieu of **0.1982 ha.**, of forest area to be diverted for the construction of **construction of Solid Waste Management Plant at Kasol in_Kullu District.**

1. Details of degraded forest land/non-forest land:-

District **Kullu** Village /Site__ **Uch**
Tehsil : **Bhunter**
Name of Forest Division **Parvati** Range **Kasol**
Block/Compartment/Survey No. **307/SE/4**
Area to be afforested land bank **0.50 ha.**

2. Description of the Area

- I) Whether the site selected for Compensatory Afforestation is a land bank or not : **Yes**
- II) If the CA site is other than the land bank, reasons be give:-
Land Bank
- III) In case of non- forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary: **NA**, as forestland/ area has been identified for CA
- VII) Soil type : **Clayey loam**
- VIII) Topography :
- IX) (a) Hilly/Undulating/Plain **Plain**
(b) Slope: Steep/Medium/Gentle **Medium**
- VI) Whether the area is bearing any root stock of vegetation: **Yes**

3. Plantation Model:-

Copy of the approved Compensatory Afforestation Scheme/Model showing component - wise physical and financial break up to be enclosed.

4. Schedule of Plantation Programme:-

Details of year-wise break up of requirements of funds is as under:-

Year	Area in Ha.	Rate/ Ha.	
0 th Year	0.50 ha	196000 x 0.50	98000.00
1 st Year	0.50 ha	12420 x 0.50	6210.00
2 nd Year	0.50 ha	8640 x 0.50	4320.00
3 rd Year	0.50 ha	6640 x 0.50	3320.00
4 th Year	0.50 ha	4580 x 0.50	2290.00
5 th Year	0.50 ha	4580 x 0.50	2290.00
6 th Year	0.50 ha	4580 x 0.50	2290.00
7 th Year	0.50 ha	4580 x 0.50	2290.00
8 th Year	0.50 ha	4580 x 0.50	2290.00
9 th Year	0.50 ha	4580 x 0.50	2290.00
10 th Year	0.50 ha	4580 x 0.50	2290.00
Total			127880.00
		G. Total Or Say	1,27,880.00

5. Technical details:-

Technical details of Compensatory Afforestation Scheme are as follows:-

- i) General Details :- As per detail scheme attached at Page No. ____
- j) Spacing :- 3.00 mtr. x 3.00 mtr.
- k) Species :- Conifer & Broad Leave
- l) Plantation Method :- Traditional
- m) Soil and Moisture Conservation Works:- Water trenches
- n) Protection (Fencing, Watch man, People's Participation etc.):
B/wire fencing with RCC Fence Posts .
- o) Proposed Monitoring Mechanism:- Inspections by Deptt. Officers.
- p) Any other information:- As per scheme attached.

Deputy Conservator of Forests,
Deputy Conservator of Forests,
Parvati Forest Division, Shamshi

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COST ESTIMATE FOR PLANTATION (AFFORESTATION) FOR CAT PLAN In lieu 0.50 hectares of forest area to be diverted for the Construction of Solid Waste Management Plant in Kasol Forest Range, Parvati Forest Division Shamshi & District Kullu, Himachal Pradesh

A	Survey, Demarcation & Fencing					
1	Survey and demarcation of plantation area	0.5	201	/hact	100.5	
2	Preparation / purchase of RCC fence posts	30	71600	/%	21480	
3	Carriage of RCC fane posts upto 165 cm long	30	16000	/%/km	9600	
5	Prep. & digging of hole 20-30 cm dia & 45 cm	30	1812	/%	543.6	
6	Fixing of wooden F/ post i/c strutting.	30	1392.76	/%	417.828	
7	Stretching & fixing of B/wire with U-staple in	360	9.6	/rmt	3456	
8	Carriage of B/wire over distance 2 km up hill side.	0.45	148	/Qtl/km	133	
9	Interlacing of thorny bushes along the fence	150	8	/Rmt	1200	
10	Cost of Barbed wire	0.45	6510	/Qtl	2929.50	
Total-A/Survey, Demarcation & Fencing					39860.628	
Or Say					39860.00	
B	Planting					
1	Bhush cutting in strips (3mx3m)	0.5	2385	/hact	1192.5	
3	Digging of pits 30*30*30 cm	550	954	/ %	5247	
5	Filling of pits 30*30*30 cm	550	381.81	/ %	2100	
6	Carriage of plants in P. Bags over distance 2	550	379.9	/%/km	4179	
9	Planting of plants Raised in P. Bags	550	366	/%	2013	
10	Construction of inspection path	100	21.99	/Rmt	2199	
11	Const. of sign Board Carriage and fixing		450	L/S	450	
				Total=	17380	
				or say=	35028	
C	Nursery cost of plants	550	9.56	per plant	5258	
Total Cost of New Plantation (A+B+C)=					80146.00	
Or Say=					80140.00	
Grand Total=					80140.00	
or say=					80000.00	
Add 17.50 % Departmental Charged					14000.00	
Add 5% contingency charges					4000.00	
Total=					98000.00	
Or say=					98000.00	
1st Year Maintenance (30% Beating up)						
3	Re-digging of pits 30x30x30 cm	Nos.	165	476.36	/%	786
4	Filling of pits 30x30x30 cm	Nos.	165	381.81	/%	630
5	Carriage of plants in P/bags over	Nos.	165	760.00	/%/km	1254
7	Planting of plants raised in P/bags	Nos.	165	436.36	/%	720
9	Repair of fencing	Rmt	60	3.60	/Rmt	216
10	Cost of P/bags plants	Nos.	165	9.56	/plant	1577
G. Total =					5183.37	
Or Say=					5075.00	
Add 17.50 % Departmental Charged					888.13	
Add 5% contingency charges					253.75	
Total=					6216.88	

					Or say=	6210.00
2nd Year Maintenance (20% Beating up)						
3	Re-digging of pits 30x30x30 cm	Nos.	110	476.36	/%	524
4	Filling of pits 30x30x30 cm	Nos.	110	381.81	/%	420
5	Carriage of plants in P/bags over	Nos.	110	760.00	/%/km	836
7	Planting of plants raised in P/bags	Nos.	110	436.36	/%	480
9	Repair of fencing	Rmt	60	3.60	/Rmt	216
10	Cost of P/bags plants	Nos.	110	9.56	/plant	1052
G. Total =						3527.58
Or Say=						3527.00
Add 17.50 % Departmental Charged						617.23
Add 5% contingency charges						176.35
Total=						4320.58
Or say=						4320.00
3rd Year Maintenance (10% Beating up)						
3	Re-digging of pits 30x30x30 cm	Nos.	83	476.36	/%	395
4	Filling of pits 30x30x30 cm	Nos.	83	381.81	/%	317
5	Carriage of plants in P/bags over	Nos.	83	760.00	/%/km	631
7	Planting of plants raised in P/bags	Nos.	82	436.36	/%	358
9	Repair of fencing	Rmt	60	3.60	/Rmt	216
10	Cost of P/bags plants	Nos.	83	9.56	/plant	793
G. Total =						2710.38
Or Say=						2710.00
Add 17.50 % Departmental Charged						474.25
Add 5% contingency charges						135.50
Total=						3319.75
Or say=						3320.00
4th Year Maintenance (10% Beating up)						
3	Re-digging of pits 30x30x30 cm	Nos.	55	476.36	/%	262
4	Filling of pits 30x30x30 cm	Nos.	55	381.81	/%	210
5	Carriage of plants in P/bags over	Nos.	55	760.00	/%/km	418
7	Planting of plants raised in P/bags	Nos.	55	436.36	/%	240
9	Repair of fencing	Rmt	60	3.60	/Rmt	216
10	Cost of P/bags plants	Nos.	55	9.56	/plant	526
G. Total =						1871.79
Or Say=						1870.00
Add 17.50 % Departmental Charged						327.25
Add 5% contingency charges						93.50
Total=						2290.75
Or say=						2290.00
5th Year Maintenance (10% Beating up)						
3	Re-digging of pits 30x30x30 cm	Nos.	55	476.36	/%	262
4	Filling of pits 30x30x30 cm	Nos.	55	381.81	/%	210
5	Carriage of plants in P/bags over	Nos.	55	760.00	/%/km	418
7	Planting of plants raised in P/bags	Nos.	55	436.36	/%	240
9	Repair of fencing	Rmt	60	3.60	/Rmt	216
10	Cost of P/bags plants	Nos.	55	9.56	/plant	526
G. Total =						1871.79
Or Say=						1870.00

Add 17.50 % Departmental Charged						327.25
Add 5% contingency charges						93.50
Total=						2290.75
Or say=						2290.00
6th Year Maintenance (10% Beating up)						
3	Re-digging of pits 30x30x30 cm	Nos.	55	476.36	/%	262
4	Filling of pits 30x30x30 cm	Nos.	55	381.81	/%	210
5	Carriage of plants in P/bags over	Nos.	55	760.00	/%/km	418
7	Planting of plants raised in P/bags	Nos.	55	436.36	/%	240
9	Repair of fencing	Rmt	60	3.60	/Rmt	216
10	Cost of P/bags plants	Nos.	55	9.56	/plant	526
G. Total =						1871.79
Or Say=						1870.00
Add 17.50 % Departmental Charged						327.25
Add 5% contingency charges						93.50
Total=						2290.75
Or say=						2290.00
7th Year Maintenance (10% Beating up)						
3	Re-digging of pits 30x30x30 cm	Nos.	55	476.36	/%	262
4	Filling of pits 30x30x30 cm	Nos.	55	381.81	/%	210
5	Carriage of plants in P/bags over	Nos.	55	760.00	/%/km	418
7	Planting of plants raised in P/bags	Nos.	55	436.36	/%	240
9	Repair of fencing	Rmt	60	3.60	/Rmt	216
10	Cost of P/bags plants	Nos.	55	9.56	/plant	526
G. Total =						1871.79
Or Say=						1870.00
Add 17.50 % Departmental Charged						327.25
Add 5% contingency charges						93.50
Total=						2290.75
Or say=						2290.00
8th Year Maintenance (10% Beating up)						
3	Re-digging of pits 30x30x30 cm	Nos.	55	476.36	/%	262
4	Filling of pits 30x30x30 cm	Nos.	55	381.81	/%	210
5	Carriage of plants in P/bags over	Nos.	55	760.00	/%/km	418
7	Planting of plants raised in P/bags	Nos.	55	436.36	/%	240
9	Repair of fencing	Rmt	60	3.60	/Rmt	216
10	Cost of P/bags plants	Nos.	55	9.56	/plant	526
G. Total =						1871.79
Or Say=						1870.00
Add 17.50 % Departmental Charged						327.25
Add 5% contingency charges						93.50
Total=						2290.75
Or say=						2290.00
9th Year Maintenance (10% Beating up)						
3	Re-digging of pits 30x30x30 cm	Nos.	55	476.36	/%	262
4	Filling of pits 30x30x30 cm	Nos.	55	381.81	/%	210
5	Carriage of plants in P/bags over	Nos.	55	760.00	/%/km	418
7	Planting of plants raised in P/bags	Nos.	55	436.36	/%	240
9	Repair of fencing	Rmt	60	3.60	/Rmt	216

0	Cost of P/bags plants	Nos.	55	9.56	/plant	526
G. Total =						1871.79
Or Say=						1870.00
Add 17.50 % Departmental Charged						327.25
Add 5% contingency charges						93.50
Total=						2290.75
Or say=						2290.00
10th year Maintenance (10% Beating up)						
3	Re-digging of pits 30x30x30 cm	Nos.	55	476.36	/%	262
4	Filling of pits 30x30x30 cm	Nos.	55	381.81	/%	210
5	Carriage of plants in P/bags over	Nos.	55	760.00	/%/km	418
7	Planting of plants raised in P/bags	Nos.	55	436.36	/%	240
9	Repair of fencing	Rmt	60	3.60	/Rmt	216
10	Cost of P/bags plants	Nos.	55	9.56	/plant	526
G. Total =						1871.79
Or Say=						1870.00
Add 17.50 % Departmental Charged						327.25
Add 5% contingency charges						93.50
Total=						2290.75
Or say=						2290.00

TOTAL COST ABSTRACT PER HACT

S.NO	PARTICULARS	AMOUNT
1	Cost of plantation	98000.00
2	1st year maintenance of plantation	6210.00
3	2nd year maintenance of plantation	4320.00
4	3rd year maintenance of plantation	3320.00
5	4th year maintenance of plantation	2290.00
6	5th year maintenance of plantation	2290.00
7	6th year maintenance of plantation	2290.00
8	7th year maintenance of plantation	2290.00
9	8th year maintenance of plantation	2290.00
10	9th year maintenance of plantation	2290.00
11	10th year maintenance of plantation	2290.00
Total=		127880.00

Deputy Conservator of Forest,
Parvatl Forest Division, Shamshi

Range Forest Officer
Forest Range Office
Kasol