Full Title of the	e project:- C/o Gravity	Zip Ropeway Fro	om Nag Devta to Kuf	ri Fun Campus
File. No				_
Date of Proposal-				

CHECK LIST SERIAL NUMBER 17 "SCHEME FOR COMPENSATORY AFFORESTATION"

Detailed scheme for 0.72 hectare area for Compensatory Afforestation to be carried out in lieu of diversion of 00-48-67 forest land for C/o Gravity Zip Ropeway From Nag Devta to Kufri Fun Campus.

1. Detail of degraded forest land/ Non- Forest land

Village	Kuinal
Tehsil	Theog
District	Shimla, H.P.
Forest Division	Theog Forest Division
Forest Range	Theog
Block No./Compartment No./Survey No	U-86 Sholvi, Chadara Beat, Matiana Block, Theog Range, Theog Division Survey-53 E/8NE
Area to be afforested	0.7 ha

2. Description of the Area

i)	Whether the site selected for Compensatory Afforestation is a land bank or not	No, the area selected is a degraded forest land patch
ii)	If the CA site is other than the land bank, reasons be given	CA has been proposed in degraded forest land.
iii)	In case of non-forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary	NA
IV)	Soil type	Clayey loam.
v)	Topography a) Hilly / Undulating /Plain b) Slope: Steep/Medium/Gentle	a)Undulating b) Medium
vi)	Whether the area is bearing any root stock of vegetation.	No

3. Plantation Model

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

Sr. No.	Particulars of work	Unit	Quantity	Rate per unit at the wage rate of 350	Rate
	Si	ırvey, Démarl	ration & Fenc	(ng	
1	Survey, Demarkation & Fencing		0.7	235.66	164.962
2	Cost of RCC poles and planting	No.	36	600	21600
	Cost of carriage of RCC Poles upto 2 ks uphill/downhill	No.	36	78.17	2814.12
4	Preparation/Digging of holes of 20x30x50 cm size for fixing of fence	No.	36	21.14	761.04
5 I	Fixing of RCC fence posts in concrete i/c structure	No.	36	16.71	601.56
6 (C tr p tr k	Carriage of B/wire from strore o to nearest road head near slnatation site in motor ransport (average carriage 10 ms)	Qntl	0.63	700	441
or uj	arriage of B/wire manually ver a distance of 2 kms phill/downhill from road side plantation site	Per Km per Qntl	0.63	171.85	108.2655
	reaching and fixing of b/wire four strands	Rmt	504	11.2	5644.8
	terlacing of thorny bushes ong the fence	Rmt	126	9.53	1200.78
	st of procurement of B/wire	Qntl	0.63	12128	7640.64
	Total A/Survey, De		Fencing		40977.167
		Say			4097
1 Cle		lanting Hec	0.7	2702.42	404040
	ting in strips of 1 to 2 mtr	, inec	0.7	2783.13	1948.19
2 Digg	ging of pits 90 x 90 x 90 cm	No.	36	145.54	5239.4
3 Filli	ng of pits 90 x 90 x 90 cm	No.	36	12.39	446.0
nurs near	riage of poly plants from sery to nearest road head plantation site in motor sport (average distance 10	No.	36		108

.

						1980
		5 Carriage of plants in Poly bags	No.	36	55	1980
		(18"x24") from road side to				
		plantation site over a distance				
- 1		2 kms uphill/downhill manuall	y			
- }		CC 111 /FWA	- N-	36	20	720
- 1		6 Addition of fertilizers/FYM to	No.			
H		plantation pits	No.	36	15.31	551.16
		7 Plantation of tall plants in pits	1110.			
-		i/c ramming 8 C/o inspection path 60 cm wide	Rmt	70	25.67	1796.9
		8 C/o hispection path of thi wide	, I'me			
-		9 Cost of tall plants raised in	No.	36	78	2808
		departmental nurseries (3 year	.,			
		old in 18" x 24" bags)				
-		10 De-weeding and hoeing twice a				687.24
		vear	No.	36	19.09	
		Watering the plants during the				540
- 1		11 months of strees	No.	36	15	
		12 Plantation display boards	No.	1	2500	2500
		(depicting the name of name of	1			
-		the compensatory of the				
-		compensatory plantation, total				
- 1		number of plants, species				
		planted and the name of all the				
1		proposals with corresponding				
		numer of plants planted aginst	1			
		each, for which the land was	1			
1		diverted)				
			planting			20296.971
			I (A +B)			20297
-			ation @ 10%			2030
\vdash		Total Fencing and planta			1	22327
				ost escaration)	22327
			enance	ting up to fail		
		1st year maintenan	ce (10% bea	ting up to fail	urej	
,		Re-digging of pits 90 x 90 x 90	N.		22.5	0.40
		cms	No.	4	87.3	349.2
		Filling of pits 90 x 90 x 90 cm	No.	4	12.39	49.56
		Carriage of poly plants from				
		nursery to nearest road head				
		near plantation site in motor				
		transport (average distance 10				
			No.	4	30	120
				<u> </u>	30	
	$\overline{}$	Carriage of plants in Doly hage				
		Carriage of plants in Poly bags			-	1
		(18"x24") from road side to				
		(18"x24") from road side to plantation site over a distance of				
	4	(18"x24") from road side to plantation site over a distance of 2 kms uphill/downhill	No.	4	55	220
	4	(18"x24") from road side to plantation site over a distance of	No.	4	55	220

	Cost of tall plants raised in				
	departmental nurseries (3 year			78	312
	6 old in 18" x 24" bags)	No.	50	4.2	210
	7 Repair of fencing	Rmt	50	4.2	1322
		otal			1322
		r Say			264
		ation @ 20%			1586
		ar maintened		iluros)	1300
	2nd year mainte	nance(5% be	eating up of ia	ilui esj	
	Re-digging of pits 90 x 90 x 90	No.	2	87.3	174.6
	1 cms	No.	2	12.39	24.78
	2 Filling of pits 90 x 90 x 90 cm	No.		12.07	
	Carriage of poly plants from		_		
	nursery to nearest road head				
	near plantation site in motor				
	transport (average distance 15	N .	2	30	60
	3 kms)	No.	2	30	
	Carriage of plants in Poly bags				
	(18"x24") from road side to				
	plantation site over a distance of	1			110
	1 2 kms uphill/downhill	No.	2	55	110
	Plantation of tall plants in pits		_	4 7 64	20.66
	i/c ramming	No.	2	15.31	30.62
	Cost of tall plants raised in				
	departmental nurseries (3 year				-
6	old in 18" x 24" bags)	No.	2	78	150
7	Repair of fencing	Rmt	50	4.2	21
	T	otal			76
	Oı	say			76
	Cost escala	ation @ 30%			23
	Total 2nd yea	r maintenan	ce		99
	3rd year mainter			ailures)	
	Re-digging of pits 90 x 90 x 90				
1	cms	No.	2	87.3	174
2	Filling of pits 90 x 90 x 90 cm	No.	2	12.39	24.7
		140.		12.39	24.7
	Carriage of poly plants from				
	nursery to nearest road head				
	near plantation site in motor				
ľ	transport (average distance 15				
	kms)	No.	2	30	
	Carriage of plants in Poly bags				
	(18"x24") from road side to				
	plantation site over a distance of				_
	2 kms uphill/downhill	No.	2	55	1:
	Plantation of tall plants in pits				
1.					30.6

Properties and Control		· · · · · · · · · · · · · · · · · · ·			
	Cost of tall plants raised in				
	departmental nurseries (3 year	No.	2	78	156
	6 old in 18" x 24" bags)	Rmt	50	4.2	210
	7 Repair of fencing		50	7.2	766
		otal			766
		say			306
		ition @ 40%			1072
	Total 3rd yea				1072
	4th year mainter	ance (3 % bo	eating up of f	ailures)	
	Re-digging of pits 90 x 90 x 90			07.0	07.2
	1 cms	No.	1	87.3	87.3
	2 Filling of pits 90 x 90 x 90 cm	No.	1	12.39	12.39
	3 Carriage of poly plants from				
	nursery to nearest road head				İ
	near plantation site in motor				
	transport (average distance 15				
	kms)	No.	1	30	30
1	Carriage of plants in Poly bags				
	(18"x24") from road side to				
1	plantation site over a distance of				
	4 2 kms uphill/downhill	No.	1	55	55
	Plantation of tall plants in pits	140.	-	33	33
١,				15.21	15.21
	5 i/c ramming	No.	1	15.31	15.31
1	Cost of tall plants raised in				
	departmental nurseries (3 year				
	old in 18" x 24" bags)	No.		1 78	78
7	Repair of fencing	Rmt	50	0 4.2	210
	T	otal			488
	Or	say			488
		tion @ 50%			244

	Total 4th yea				732
	5th year mainte		eating up of	failure)	
	Re-digging of pits 90 x 90 x 90				
1	cms	No.		1 87.3	87.3
2	Filling of pits 90 x 90 x 90 cm	No.		1 12.39	
	Carriage of poly plants from			12.0	7 12.57
	nursery to nearest road head				
	near plantation site in motor				
	transport (average distance 15				
	kms)	No.		1 3	0 30
	Carriage of plants in Poly bags				1
	(18"x24") from road side to				
	plantation site over a distance of				
4	2 kms uphill/downhill	No.		1 5	5 55
	Plantation of tall plants in pits				1
	i/c ramming	No.		1 15.3	1 15.31
	,	1101	J	13.3	10.01

	Cost of tall plants raised in				
	departmental nurseries (3 year	No.	1	78	78
100	O Old III 10 X 24 Dags	Rmt	50	4.2	210
	7 Repair of fencing			1.0	488
	Total 5th year		ice		488
		tion @ 60%			293
					781
	Total 5th year		beating up of failur	'e	
	Re-digging of pits 90 x 90 x 90	nance (270	Teating up of fairur		
	00 0 1	No.	1	87.3	87.3
	1 cms	No.	1	12.39	12.39
	2 Filling of pits 90 x 90 x 90 cm	NO.	1	12.07	
	3 Carriage of poly plants from	WELL CO.			
	nursery to nearest road head				
	near plantation site in motor	- 37 / 25 /			
	transport (average distance 15	NY.	1	30	30
	kms)	No.	1	30	30
	Carriage of plants in Poly bags				
	(18"x24") from road side to				
	plantation site over a distance of				
4	2 kms uphill/downhill	No.	1	55	55
	Plantation of tall plants in pits				
5	i/c ramming	No.	1	15.31	15.31
	Cost of tall plants raised in				
	departmental nurseries (3 year	Maria Maria San	-		
6	old in 18" x 24" bags)	No.	1	78	78
_	Repair of fencing	Rmt	50	4.2	210
		otal			488
		say			488
			/		342
		tion @ 70%			830
	Total 6th yea				630
		nance (2%	beating up of fail	ure	
	Re-digging of pits 90 x 90 x 90				
1	cms	No.	1	87.3	87.3
	Filling of pits 90 x 90 x 90 cm	No.	1	12.39	12.39
	Carriage of poly plants from				
3					
1999	nursery to nearest road head				
433	near plantation site in motor	2365			
	transport (average distance 15				,
	kms)	No.	1	30	3
	Carriage of plants in Poly bags				
1200					
3886	(18"x24") from road side to	A STATE OF THE PARTY OF THE PAR			
	plantation site over a distance of				5
	2 kms uphill/downhill	No.	1	55	3
	Plantation of tall plants in pits				15.3
	i/c ramming	No.	1	15.31	4 5 7

departmental nurseries (3 year 6 old in 18" x 24" bags)			Cost of tall plants raised in		T		
Figure F				r			Ì
Total					1	78	78
Cost of call plants raised in departmental nurseries (3 year fold in 18" x 24" bags) No. 1 78 78 78 Repair of fencing Rmt 50 4.2 210 Total 8th year Maintenance 927 15 16 16 16 17 18 18 18 18 18 18 18				Rmt	50	4.2	
Cost escalation @ 80% 390				Total			488
Re-digging of pits 90 x 90 x 90 1 cms				Or say			488
Re-digging of pits 90 x 90 x 90 No.							390
Re-digging of pits 90 x 90 x 90							878
1 cms	- 1			itenance 2% l	eating up of fa	ailure	
2 Filling of pits 90 x 90 x 90 cm	- 1		00 0 .				
Carriage of poly plants from nursery to nearest road head near plantation site in motor transport (average distance 15 kms)	H				1		
Number N	-			No.	1	12.39	12.39
	- 1						
transport (average distance 15 kms)							
Redigging of pits 90 x 90 x 90 to mursery to nearest road head near plantation site over a distance of 2 kms uphill/downhill No. 1 30 30 30 30 30 30 30 30 30 30 30 30 30	- 1						
Carriage of plants in Poly bags (18"x24") from road side to plantation site over a distance of 4 2 kms uphill/downhill						20	
(18"x24") from road side to plantation site over a distance of 4 2 kms uphill/downhill	-		Kilisj	No.	1	30	30
(18"x24") from road side to plantation site over a distance of 4 2 kms uphill/downhill			Carriage of plants in Dalashana				
plantation site over a distance of 4 2 kms uphill/downhill			(18"v24") from road side to	1			
A 2 kms uphill/downhill			plantation site over a distance of				
Plantation of tall plants in pits i/c ramming	- 1		4/2 kms unhill/downhill	1			
Sil/c ramming			Plantation of tall plants in pits	NO.	1	55	55
Cost of tall plants raised in departmental nurseries (3 year old in 18" x 24" bags) No. 1 78 78 78 78 78 78 79 Repair of fencing Rmt 50 4.2 210 488			5/i/c ramming	No		1 - 21	45.24
departmental nurseries (3 year old in 18" x 24" bags)				No.	1	15.31	15.31
Cost escalation @ 90% Sepair of fencing Repair of fencing Rescalation @ 90% 438							
Total			6 old in 18" v 24" hage)	No	1	70	70
Total 488 Or say 488 Cost escalation @ 90% 439 Total 8th year Maintenance 927 9th year maintenance (2% beating up of failure Re-digging of pits 90 x 90 x 90 No. 1 87.3 87.3 2 Filling of pits 90 x 90 x 90 No. 1 12.39 12.39 3 Carriage of poly plants from nursery to nearest road head near plantation site in motor transport (average distance 15 kms) No. 1 30 30 Carriage of plants in Poly bags (18"x24") from road side to plantation site over a distance of 4 2 kms uphill/downhill No. 1 55 55					1		
Or say Cost escalation @ 90% Total 8th year Maintenance 927 9th year maintenance (2% beating up of failure Re-digging of pits 90 x 90 x 90 1 cms No. Filling of pits 90 x 90 cm No. Carriage of poly plants from nursery to nearest road head near plantation site in motor transport (average distance 15 kms) No. Carriage of plants in Poly bags (18"x24") from road side to plantation site over a distance of 4 2 kms uphill/downhill Plantation of tall plants in pits No. 1 55 55					50	4.2	
Cost escalation @ 90% Total 8th year Maintenance 927 9th year maintenance (2% beating up of failure Re-digging of pits 90 x 90 x 90 cms No. 1 87.3 87.3 2 Filling of pits 90 x 90 cm No. 1 12.39 12.39 3 Carriage of poly plants from nursery to nearest road head near plantation site in motor transport (average distance 15 kms) No. 1 30 30 Carriage of plants in Poly bags (18"x24") from road side to plantation site over a distance of 4 2 kms uphill/downhill No. 1 55 55	-						
Total 8th year Maintenance 927 9th year maintenance (2% beating up of failure Re-digging of pits 90 x 90 x 90 1 cms No. 1 87.3 87.3 Filling of pits 90 x 90 x 90 cm No. 1 12.39 12.39 Carriage of poly plants from nursery to nearest road head near plantation site in motor transport (average distance 15 kms) No. 1 30 30 Carriage of plants in Poly bags (18"x24") from road side to plantation site over a distance of 4 2 kms uphill/downhill No. 1 55 55	-						488
Sth year maintenance (2% beating up of failure Re-digging of pits 90 x 90 x 90 No.	-						439
Re-digging of pits 90 x 90 x 90 1 cms No. 1 87.3 87.3 2 Filling of pits 90 x 90 x 90 cm No. 1 12.39 12.39 12.39 12.39 Carriage of poly plants from nursery to nearest road head near plantation site in motor transport (average distance 15 kms) No. 1 30 30 Carriage of plants in Poly bags (18"x24") from road side to plantation site over a distance of 4 2 kms uphill/downhill Plantation of tall plants in pits No. 1 55 55	-		Total 8th yea	ır Maintenan	ce		927
Re-digging of pits 90 x 90 x 90 1 cms No. 1 87.3 87.3 2 Filling of pits 90 x 90 x 90 cm No. 1 12.39 12.39 12.39 12.39 Carriage of poly plants from nursery to nearest road head near plantation site in motor transport (average distance 15 kms) No. 1 30 30 Carriage of plants in Poly bags (18"x24") from road side to plantation site over a distance of 4 2 kms uphill/downhill Plantation of tall plants in pits No. 1 55 55			9th year mainte	enance (2% b	eating up of f	ailure	
Filling of pits 90 x 90 x 90 cm No. Carriage of poly plants from nursery to nearest road head near plantation site in motor transport (average distance 15 kms) Carriage of plants in Poly bags (18"x24") from road side to plantation site over a distance of 4 2 kms uphill/downhill Plantation of tall plants in pits No. 1 87.3 87.3 87.3 87.3 87.3 87.3 1 2.39 1 30 30 30			Re-digging of pits 90 x 90 x 90				
2 Filling of pits 90 x 90 cm No. 1 12.39 12.39 3 Carriage of poly plants from nursery to nearest road head near plantation site in motor transport (average distance 15 kms) No. 1 30 30 Carriage of plants in Poly bags (18"x24") from road side to plantation site over a distance of 4 2 kms uphill/downhill No. 1 55 55		1	l cms	No.	1	873	97.3
Carriage of poly plants from nursery to nearest road head near plantation site in motor transport (average distance 15 kms) No. Carriage of plants in Poly bags (18"x24") from road side to plantation site over a distance of 4 2 kms uphill/downhill Plantation of tall plants in pits No. 1 55 55		2	Filling of pits 90 x 90 x 90 cm	No.	1		
nursery to nearest road head near plantation site in motor transport (average distance 15 kms) No. 1 30 30 Carriage of plants in Poly bags (18"x24") from road side to plantation site over a distance of 4 2 kms uphill/downhill Plantation of tall plants in pits						12.39	12.39
near plantation site in motor transport (average distance 15 kms) No. 1 30 30 Carriage of plants in Poly bags (18"x24") from road side to plantation site over a distance of 4 2 kms uphill/downhill Plantation of tall plants in pits							
transport (average distance 15 kms) No. 1 30 30 Carriage of plants in Poly bags (18"x24") from road side to plantation site over a distance of 4 2 kms uphill/downhill Plantation of tall plants in pits							
kms) Carriage of plants in Poly bags (18"x24") from road side to plantation site over a distance of 4 2 kms uphill/downhill Plantation of tall plants in pits No. 1 55 55			transport (average distance 15				
Carriage of plants in Poly bags (18"x24") from road side to plantation site over a distance of 4 2 kms uphill/downhill Plantation of tall plants in pits 5 i/c ramming			, ,	NT -			
(18"x24") from road side to plantation site over a distance of 4 2 kms uphill/downhill Plantation of tall plants in pits 5 i/c ramming				NO.	1	30	30
plantation site over a distance of 4 2 kms uphill/downhill Plantation of tall plants in pits 5 i/c ramming							
4 2 kms uphill/downhill No. 1 55 55 Plantation of tall plants in pits			(18"x24") from road side to				
4 2 kms uphill/downhill No. 1 55 55 Plantation of tall plants in pits				•			
Plantation of tall plants in pits				No.	1		
5 li/c ramming						33	55
15.31 15.31 15.31			- 1	No			
			1	INU.	1	15.31	15.31



	Cost of tall plants raised in				
	departmental nurseries (3 year 6 old in 18" x 24" bags)	No.	1	78	78
	7 Repair of fencing	Rmt	50	4.2	210
		Гotal			488
- 1		r say			488
1		ation @ 100%			488
F		ar Maintenan			976
F	10th year main	itenance 2% i	eating up or	ianure	
	Re-digging of pits 90 x 90 x 90 1 cms	No.	1	87.3	87.3
 	2 Filling of pits 90 x 90 x 90 cm	No.	1	12.39	12.39
\vdash	3 Carriage of poly plants from	INO.		12.57	12.57
	nursery to nearest road head	1			
	near plantation site in motor				
- 1	transport (average distance 15				
	kms)	No.	1	30	30
	Carriage of plants in Poly bags (18"x24") from road side to				
- 1	plantation site over a distance of				
	4 2 kms uphill/downhill	No.	1	55	55
	Plantation of tall plants in pits				33
		No.	1	15.31	15.31
1	Cost of tall plants raised in				10.01
1	departmental nurseries (3 year	1			
	6 old in 18" x 24" bags)	No.	1	78	78
	7 Repair of fencing	Rmt	50	4.2	210
	Total 10th yea	r Maintenan	ce		488
<u> </u>	Ors				488
	Cost escalati				537
С	Total 10th year	r Maintenand	ce	2	1025
$\frac{c}{D}$	Total maintenance cost of 10 years				
$\frac{B}{E}$	rotal new + maintenance D=A+B+C				
	dentegency 570 of all above				
F	Total Plantation + Contigency (D	+E)			1607 33737
	Departmental charges (17.5% of	D+E)			5904
					39641
	Amount to be denosited in CARE	_			
	Amount to be deposited in CAMP.	A	,		33737
	Amount to be deposited in 8782 f	orest remit	tense		5904



5. Technical Details:

Technical details of Compensatory Afforestation Scheme are as follows:

- a) General Details: An area of 0.7 hectare will be taken up for planting under Compensatory Afforestation scheme in U-86 Sholvi, Chadara Beat, Matiana Block, Theog Range, Theog Division. The area will be protected by RCC, Fence Post with four strands of Barbed wire fencing and a mixture of conifer and broad leaved species will be planted @ of 500 tall plants per hectare.
- b) Spacement 3 mtrx3 mtr.
- Species: Cedrus deodara "Easculus indica "Juglans regia, Alnus nitida "Robinia Pseudoacacaia, Punus roxbueghi, etc.
- d) Plantation Method: Nursery grown 3.5 year old pants (in Polythene bags) will be planted in 60x60x60cm pits/patches in the selected area. Bush cutting will be done in the infested area. The plantation will be maintained for subsequent ten years in which betting up of failures will be done. The plantation will be rain-fed.
- e) Soil and Moisture Conservation works.
- f) Protection(Fencing, Watch man, People's Participation etc.):-Area will be protected from grazing by erecting RCC fence Post with barbed wire fencing at all vulnerable places around the plantation. Further watch and ward as also fire protection will be ensured through regular departmental 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 Theog, Matiana Kotighat road.)

h) Any other information:

Nil

Dated: 26.12.2022 Place: Theog. Sheetal Sharma, HVES Divisional For Differ, Theog Forest Hipping Theog