SCHEME PROPOSALS FOR COMPENSATORY AFFORESTATION IN REVENUE LAND IN CHITTOOR WEST DIVISION, ANANTAPURAM CIRCLE

As per section 3.2 and 3.4 of the Forest (Cons.) Act, 1980, it envisages to raise compensatory afforestation over the extent of equal nonforest land. The Superintending Engineer, TGP & GNSS Circle, Irrigation Department, Tirupati has proposed for Sri Balaji Reservoir, Mallemadugu Reservoir and Kailasagiri Canal in Chittoor District under GNSS phase-II. For diversion of 740.855 Ha of Forest Land in Karakambadi RF of WLM Division Tirupati and Adavaram RF, Ramapuram RF & Nagalapuram RFs of Chittoor East(WL) Division for alignment of bund, Foreshore submersion and Canals. As per instructions/ guidelines issued by the Prl. Chief Conservator of Forests (HoFF), Andhra Pradesh for taking CA lands to the Government projects vide PCCFs Rc.No. 45921/01/FCA.4(i), dt.23.08.2014 & 21.3.2016 and on the subject matter vide Rc.No. 2244/2016/FCA-1, dt.10.01.2018 and the deliberations and discussions held with District Collector, Chittoor on 25.06.2018. The field visit was done on 26.08.2018 along with the Joint Officer, Madanapalle and Divisional Revenue Chittoor, Collector, Superintending Engineer, TGP & GNSS Circle, Irrigation department, Tirupati.

The following revenue lands for CA plantations are identified in the five survey numbers of three Revenue Mandals falls under the jurisdiction of Madanapalle Forest Range of Chittoor West Division as detailed below :

SI. No.	Name of the Range	Mandal	Name of the Revenue Village	Survey No.	Extent in Ha	CA extent in Ha
1	2	3	4	5	6	7
1	Madanapalle	Peddamandyam	Bandrevu	529	170.51	165
2	-do-	-do-	Kalicherla	1	167.16	155
3	-do-	Gurramkonda	Chittiboyana palle	82	117.02	75
4	-do-	-do-	Cherlopalle	259	270.22	205
5	-do-	Nimmanapalle	Reddivaripalle	510	266.97	150
				Total	991.88	750

The area identified at Chittiboyanapalle & Cherlopalle Villages of Gurramkonda (M) are having the tree growth i.e., Pala, Cassia fistula, Neem, Neeruddi etc., and it appears like Reserve Forest only. The area at Reddivaripalle (V) in Nimmanapalle (M) also having the tree growth i.e., Sandra, Pala, Thuniki, Chigara, Juvvi, Manga etc., and it appears like Reserve Forests. Out of 991.88 Ha land identified, only 750 Ha is suitable for CA and it is proposed to raise Plantations with Non-Timber Secondary Hardwoods species under suitable techniques. The District Collector, Chittoor has submitted proposals to the Special Chief Secretary to the Government, Revenue Department, AP Secretariat, Velgapudi, vide Rc.No. REV-3icOGLM(LM)89/2016-JA(3I CELL)-REVCTTR, dt.04.07.2018 requesting permission for advance possession/ transfer to forest department.

The identified Compensatory Afforestation lands are big blocks having natural growth and also adjoining/ continuation to existing Reserved Forest blocks in the Madanapalle Range. The status is as given below;

SI.	Name of the	Sy.	Surveyed	l Area	Reference to RF	Suitable area in
No	Mandal/ Village	NO.	in Acres	in Ha	block	На
1	Peddamandyam/ Bandrevu	529	421.33	170.51	Separate big block. Nearby RF is T.Sadukonda (C.No.68) at 3 Kms	165
2	Peddamandyam/ Kalicherla	1	413.05	167.16	Abutting to Musalikunta RF Compt.No.69	155
3	Gurramkonda/ Chittiboyana	82	289.16	117.02	Abutting to Sangasamudram RF Compt.No.58	75
4	palle Gurramkonda/ Cherlopalle	259	667.73	270.221	Abutting to Sangasamudram RF Compt.No.58	205
5	Nimmanapalle/ Reddivaripalle	510	659.68	266.97	Separate big block. Nearby RF is Noorukuppalakonda at 1.5 Kms	150
		+	2450.95	991.88		750.00

Though the areas required for CA scheme is only 750 Ha, due to sheet rock, boulders etc., the department raised to handover the total land of 991.88

Ha in the above five(5) survey numbers and accordingly the District Collector agreed too.

Soils :

The soils are Hard gravelly soils mixed with small size boulders and sheet rock also. Planting with tall seedlings, duly adding sufficient quantity of Tank Silt, F.Y.M and imported soil, with the suitable method for raising plantation. Soil and moisture conservation works are to be constructed in a big way. Fencing is chain link mesh is also proposed in this area addition to the big size periphery trench along the boundary.

The Plan is prepared for raising of Compensatory Afforestation and treatment of existing tree growth in non forest areas over an extent of 992 Ha with financial outlay of Rs.4780 lakhs spreading over a period of 12 years as maintenance up to 10th year. The Components / Technique proposed are discussed below;

1) Raising SMM Plantations Technique :

The technique proposed for Raising Plantation is Semi mechanized method under which deep ploughing over a depth of 30cm will be carried out and planting will be taken up at 3x3 Mt espacement duly pitting 45cm cube pit with 6x12 / 8x12 size bag plants i.e., 1111 Nos of plants per Ha. The main species is Red Sanders, Narepi, Neem, Usiri, & Hardwickia Binata in these plantations. 165 Ha of area is proposed for treatment under this model.

2) Raising LIM Plantations Technique :

The technique proposed for Raising Non-Timber Secondary Hardwood is Labour intensive method under which planting will be taken up at 4x4 Mt espacement in pits of size 0.75x0.75x0.75 cm with 8"x12" size bag plants i.e., 625 Nos of plants per Ha. The main species is Narepi, Tapasi, Tella Maddi, Neem, Usiri, etc., in these plantations. 250 Ha of area is proposed for treatment under this model.

3) Creation / treatment of exiting tree growth Technique :

- Under this component the existing growth will be treated with tending & singling operations coupled with SMC operations to boost the tree growth. The available gap areas will be planted with Non-Timber Secondary Hardwood species under Gap planting method in Trench cum pit method not exceeding 200 No of plants per Ha. The main species is Narepi, Tapasi, Tella Maddi, etc., in this plantations. 335 Ha of area is proposed for treatment under this model.
- <u>4) Protection</u>: The balance area of 241.88 or 242 (992-750) Ha having natural tree growth at hill tops will be protected with suitable treatment of singling operations & SMC works.
- 5) Raising & Maintenance of Nurseries : Proposed to raise Primary beds and Polybags with Non-Timber Secondary Hardwoods such as Red Sanders, Hardwickia Binata, Narepi, Tapasi, Usiri, Pongamia, etc., in 8"x12" / 6"x12" bag plants. Tall Plants in woven sacks is also proposed having MPF & Ficus species to supplement in the gaps of areas having good growth.

Providing Fencing : The areas will be fenced all along the periphery suitably with Chain link Mesh or digging periphery trench of size (3+2.0)/2x3.00 M for protection from the cattle etc.,

Procurement and supply of Vehicles: For inspection of works & monitoring One Scorpio, one Bolero and one Innova is proposed in the scheme. These vehicle will be procured by the User Agency and supplied to the Forest Department.

The scheme is spreaded over a period of 13 (3+10) years commencing from 2019-20 to 2031-32 and the details of proposals for CA Plantation is as follows. (Rs. in Lakhs)

S.No.	Component	Physical area	Financial target
1	Raising Nursery including nursery	6.65	231.190
	infrastructure	lakh nos	
2	Raising SMM plantations	165 Ha	923.292
3	Raising LIM plantations	250 Ha	1271.84
4	Treatment to Natural tree growth &	335 Ha	784.757
	Gap planting		
	Cost of plantation	750 Ha	3211.079
5	SMC works like RFDs, PTs & Check		524.038
	dams		14
6	Peripheral trench/ Chain link fence		542.03
	& cairns		
7	Beneficiary sheds	8 Nos	126.00
8	Monitoring & evaluation charges		93.411
9	Procurement of vehicles for	3 Nos	55.20
	inspecting officers	and a second	
10	Administrative cost including	and the	228.18
	Establishment charges		
			4779.938 or
	Total:	750 Ha	4780 lakhs

IMPLEMENTING AGENCY:

1

The A.P. Forest Department will take up the responsibility for implementation of the Compensatory Afforestation scheme with the funds deposited by the user agency and the scheme will be monitored by the Prl. Chief Conservator of Forests(HoFF), Andhra Pradesh, Guntur through its mechanism.

Divisional Forest Officer Chittoor West Division, Chittoor. Triv

COMPENSATORY AFFORESTAT	ION SCHEME PROPOSALS FOR BALAJI & MALEMADUGU RESERVIOR IN CHITTOOR W	EST DIVISION, ANANTAPURAM CIRCLE
COMPENSATORT IN COMPENSATOR	ABSTRACT CUM YEAR WISE ACTION PLAN	

		1 1			201	20-21	207	21-22	20	22-23		23-24		24-25		25-26	_	26-27	20	27-28	20	28-29	2	29-30	20	30-31	20	31-32		Total
0	Name of the work	Unit		19-20 Fin	20: Phy	20-21 Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy		Phy		Phy	Fin	Phy	Fin	Phy		Phy		Phy		Phy		Phy	Fin
1	2	2a	Phy 3	Fin	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	29	29	30
1	Raising Nursery 6x12	120	-	-	-																		-		-					
1	Raising of nursery	Per	1.50	21.813	2.25	39.591	2	42.582	0.9	23.186						1.													6.65	
1	Maintenance of nursery	Per	1.50	21.015	1.50	10.981	2.25	19,930	2	21.436	0.9	11.672																		64.019
	Nursery infrasture	Nos	2	20.000	1.50	15.000		5,000	-																					40.000
_	Development cost	1	-		1'			67.512	-	44.622	-	11.672		0	-	0	-	0	-	0		. 0		0		0		0	6.65	231,190
II	Sub T Plantations	otal ::	-	41.813	-	65,571		07.512	-	44,022	-	11.072	-		-															
	Raising of Plantation Under SMM method	+			-		-																-		$\left \right $		$\left \right $		_	74.960
i	Advance Operation	На	25	10.038	70	30.916	70	34.007													-		-						165	162.653
11	Raising / Creation	На	1		25	21.780	70	67.082	70	73.791									-				-						_	98.157
iii	1st Year Maintenance	На	1				25	13.144	70	40.482	70	44.531					_		-				-							107.97
iv	2nd Year Maintenance	На	1		1				25	14.458	70	44.531	70	48.984					-		-		-						-	75.772
v	3rd Year Maintenance	На	1		1						25	10.146	70	31.250	70	34.3754			-		-		-						-	63.504
vi	4th Year Maintenance	Ha	1		-				T				25	8.50349	70	26.1908	70	28.810	-		-		-						-	49.844
Vit	Sth Year Maintenance	Ha	+		+	-	-								25	6.674	70	20.557	-	22.613	-		-		\vdash			-	-	54.829
	and the second s	Ha	+	-	+	+	+										25	7.342	70	22.613		24.874	-		-				-	60.311
viii	6th Year Maintenance	Ha	-		+			+	+-		-								25	8.076	70	24.874		27.361	\vdash		-+		-+	66.342
ix	7th Year Maintenance		_				+		+		+	-	-		1						25	8.884	70	27.361		30.098				
×	8th Year Maintenance	Ha	-		-				+		+		+		1		1						25	9.772	70	30.098		30.098		69.967
xi	9th Year Maintenance	Ha	•				-		-		+		+		-	-	1		1						25	8.884	1 1	30.098		38.981
xil	and the second s	H							-		+	99.207	+	88.737	-	67.2405	-	56.7086	-	53.301		58.632		64.495		69.079		60,195	165	923.2924
-	Fub Total ::			10.03	8 2	5 52.65	6 70	114.2	33	128.73	1	99.201		100.737	-	1			-											

51	Name of the work	Unit	2	019-3	20	202	0-21	202	1-22	20	22-23	20	23-24	20	24-25	20	25-26	20	026-27	20	27-28	20	28-29	2	029-30	2	030-31	2	031-32		Total
NO	And of the Holk	Unit	Phy	F	Fin P	hy		Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
1	2	2a	3		4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	29	29	30
-10	alsing of Plantation																														
-	dvance Operation	На	50	37	.125	100	81.675	100	89.843																						208.643
-	laising / Creation	На				50	31.460	100	69.212	100	76.133									-										250	176.805
1	st Year Maintenance	На						50	21.962	100	48.315	100	53.147							-							_			-	123.424
12	nd Year Maintenance	На								50	15.373	100	33.821	100	37.203			-		-								-		-	86.397
	Brd Year Maintenance	Ha	1	1		-				-		50	14.495	100		100	35.0769			-		-				-		-		-	81,460
	Ath Year Maintenance	На	t	1		-+		-		-				50	14.3496	100	31,5692	100	34,726	-			-					-			80.645
i	Sth Year Maintenance	На	1	+		-				-					14.5470	50	13.349	100		100	32.304	-									75.020
111	6th Year Maintenance	На	1-	+		-		-		-		-		-		50	13.347	50		-	32.304	100	35.534								82.522
x	7th Year Maintenance	Ha	+	+		-				+-				-		-		30		50			35.534	100	39.088	-					90.774
x	8th Year Maintenance	Ha	+	+						-		-		-		-		-		20	16.152				39.088	100	42.996	-			99.851
á	9th Year Maintenance	Ha	+	+						-		-		-		-		-		-		20	17.767	50	19.544	100	42.996		(3.00)		
cii	10th Year Maintenance	Ha		+						-		-	-	-		-		-		-				50	19.344	50	17.767	100	42.996		105.537
	Sub Total ::	J	+	-	37.125	50	113.135	100	181.01	6	139.822	-	101.462	-	83.4405	-	79.9948		78,7769	-	80.76		88.836	-	97.719	30	103.76	_	85.993	250	1271.84
Ċ	Creation/ Treatment to	T		1		-				-	1	-	101.401		03.4403	-	11.1140	-	10,7707	-	80.70	-	00.030	-	37.719	-	103.76		65,993	250	12/1.84
1	Raising / Creation NTSH	H	a 1	15	24.217	100	76.109	100	83.720	100	92.092	-		-		-		-		-		-						-		335	276.137
ii	1st Year Maint, NTSH	H	a	-		35	6.141	100		+		100	23.352	-		-		-		-		-				-		-		313	70.022
tar	2nd Year Maint.	H	a			-		35	5.916	100	18.594	-	20.453	+	22.499	+		-		-		-		-				-			67.463
iv	3rd Year Maint.	H	a			-	1	1	1	35	6.508	100	20.453	100	22.499	100	24.749	-		-						-					74,209
v	4th Year Maint.	H	a	+		t		1		+	1	35	7.159	100	22.499	100	24.749	100	27.224	-		-				-					81.630
Vi	Sth Year Maint.	H	a					-		+	1.	+		35	7.875	0	0.000	100	27.224	100	29.946	-		-	-						65.044
1	6th Year Maint.	F	la				1	1		+		+		1	0	35	8.662	0	0.000	100	29.946	100	32.941	-		-		-			71.549
viet	7th Year Maint.	1	ia			1		1				1		1	0		0	35	9.528	0	0.000	100	32.941	100	36.235	-		-			78,703
	Sub	Tota	1 ::	35	24.217	100	82.250	100	108.93	16	138.42	3	71,418	-	75.3711		58,1595	-	63.9754	-	59.892	-	65.881	-	36.235	-	-			-	
	Cost on Plantatio						313.65		471.65	7 0	451.59	8 0	283.75		247.549		205.395	-	199.461	0	193.95	0	213.35	0	198.45		0	0	0	335	784.7561
;{	SMC Works at 15%				16.979		47.048		70 75	5	67.740		42.564		37.132	T	30.809	T	29.919		29.093	1	1	F		t		1	1.17	1.30	372.038

REVENUE LANDS PROPOSED FOR COMPNESATORY AFFORESTATION IN MADANAPALLE RANGE (in Ha) IN LIEU OF FOREST LAND DIVERTED FORBALAJI & MALLEMADUGU RESERVIOR

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SI. Name of the No Village	Survey	Name of the		Survey	ed Area		Suitable	Planting	(in Ha.)	Imp. to		No.of	Length of	
		Number.	Mandal	Range	in Acres	in Ha	Referance to RF block	area in Ha	SMM plantation	LIM plantation	Natural growth (in Ha)	PT's/ CD's (in Nos)	Boundary pillars (in Nos.)	the PPT (in Kms)/ chainlink
-	2	3	4	5	6	6a	7	8	9	10	11	12	13	mesh 14
1	Bandrevu	529	Peddamandyam	Madanapalle	421.33	170.51	Separate big block. Near by RF is T.Sadukonda (C.No.68) at 3 Kms	165	40	110	15.00	3	105	10
2	Kalicherla	1	Peddamandyam	Madanapalle	413.05	167.16	Abutting to Musalikunta RF Compt.No.69	155	125	25	5.00	4	100	10
3	Chittiboyana palle	82	Gurramkonda	Madanapalle	289.16	117.02	Abutting to Sangasamudram RF Compt.No.58	75	0	25	50.00	3	90	8
4	Cherlopalle	259	Gurramkonda	Madanapalle	667.73	270.221	Abutting to Sangasamudram RF Compt.No.58	205	0	50	155.00	4	200	12
5	Reddivaripalle	510	Nimmanapalle	Madanapalle	659.68	266.97	Separate big block. Near by RF is Noorukuppalakonda at 1.5 Kms	150	0	40	110.00	6	225	11.5
		То		Total :	: 2450.95	991.88		750.00	165	250	335.00	20.00	720.00	51.50

Note:

9.7

Area shown in Natural Growth column is mostly covered with big boulders, hill and sheet rock.

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Divisional Forest Officer A Chittoor West Division 41MIV Chittoor.

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Forest Range Officer Madanapalle

51	Name of the work	Unit	20	19-20	202	20-21	202	21-22	20	22-23	20	23-24	20	24-25	20	25-26	2	026-27	2	027-28	20	28-29	2	029-30	2	030-31	2	031-32		Total
NO	Hame of the work	Unit	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy		Phy	Fin	Phy	Fin	Phy	y Fin
1	2	2a	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	29	29	30
	Demarcation of boundary																												1	1
-	Digging of Peripherial trench along bounary	KM	12	45.000	20	75.000	8	33.000																		81			40	153.000
	Providing Chainlink fence	KM	2.5	52.500	6	135.500	6.5	157.000				-																	15	345.000
-	Constrution of cairns		120	7.950	230	18.320	200	17.760													-				1		-		550	44.030
	SMC structure like Check dam & Percolation Tanks	Nos	4	20.000	8	56.000	6	48.000	4	28.000									•										22	152.000
VI	Construction of Beneficin, shed & Seed stores	Nos	•2	25.000	3	45.000	3	50.000		6.000																			8	126.000
	Monitoring & Evaluation charges @3% of plantation cost	n		5.660		9.410		14.151		13.548		8.513		7.426		6.162		5.984		5.819		6.400		5.953		5.185	1	4.386		93.411
Viii	Procurement and supply or vehicals i.e., one scorpio, On Bolero & One Innova	e Nos		55.200																							1			55.200
Vii	Adminisatrative Cost 109 including 2 FSO & 3 FB salary for 7 years			13.590		28.233		37.738		45.165		31.214		29.706		22.593		19.946			-				T	_				228.180
	Sub	Total		241.87	8	414.478	3	428.403	3	160,452		82.290		74.265		59.564		55.849		34.912	1	.400	-	5.953	1	5.185	5.5 10	.386	1.2	1568.859
	Grand	Total	:: 35	355.07	0 175	728.130	270	900.100	0 0	612.050		366.050	-	321.814		264.959	_	255.310	_	228.86		19.75		04.40		78.02	-			4779.938
										-			-																	780 lakhs
																									_		rest R	ange Offi		<u>,</u>
																					0	Divisi	bnal	Eorest Of	licer		mada	napatte		

0 Divisional Forest Officer, Chittoor West Division, Chittoor.

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