

UNIT COST FOR RAISING OF Misc. PRIMARY BEDS NURSERY FOR THE YEAR 2017-18

SI.	FSR item	Nature of work		Qty	Rate	Unit	Amount	Remark
	PicaMARY primary bed May depend used upto 5	BEDS of 1x1x0.3 m size for Miscellaneous species including for 1 lakh nursery is permitted. Primary beds should stading on availability of fresh seeds. Once primary beds are for years without changing the medium - what is required each tiryer of grass on it and adding the below recommended fungicion.	art from rmed, the ne is sol	n Jan - ney can be arization,				
	.01.01.01	Preparation of New Site by clearing jungle growth, uprootal of stumps and removal of surface stones, pebbles etc.	.1	Bed	4.54	1	5.00	
	01.01.03	Digging soil of the demarcated beds of 1x1x0.30 m size	1.	Bed	34.92	1	35.00	
	01.01.04 .	Cost of sandy soil and transportation with 5 kms lead including loading and unloading charges (sandy soil and FYM in 5:1 ratio, i.e., 0.125 cum sandy soil and 0.025 cum FYM per primary bed	1	Bed	25.45	1. ,	25.45	
	01.01.05	For every extra km beyond 5 km upto 25 km(20x 1.01=20.20)	1	Bed	20.2	1	20.20	
	01.01.06	Cost and transport of 0.025 cum FYM	1	Bed	21.87	1	21.87	**
	C1.01.07	Mixing of sandy soil and FYM in 5:1 proportion (50 % of volume of bed) with exacavated soil and refilling the bed and lavelling.	1	Bed	9.92	1	9.92	
	01.01.08	Covering the beds with dried grass and leaf litter and burning them to ash which can form the upper layer	1	Bed	11.34 .	1	11.34	(a)
	01.01 09	Soil drenching with 0.1% Carbendazim (10 gm or 10 ml of Carbendazim in 1 lit of water)	1		By Nursery Watcher		0.00	
	01.01.10	Cost of seed - seed weight, germination percentage and target of planting stock of individual species are to be taken into consideration while estimating the requirement of seeds	.1		As per special instruction under FSR		500.00	
	01.01 11	Seed dressing with Captan or Thiram at 3-5 gm / kg of seeds (the insecticide should be mixed with 250 gm of ash and then this should be thoroughly mixed with seeds to be sown after pretreatment and before sowing)	1		By Nursery Watcher	•	0.00	
	01.01.12	Sowing of seed (finer seeds like Adina, Mitragyna, Anthocephalus etc. to be mixed with sand and bradcasted Bigger seeds to be dibbied in lines 1-2 cm apart) and covering the bed to a thickness of 2.5 cm with paddy hay including cost and conveyance	1	Bed	11.29	1	11.29	
	. 01.01.13	Watering the primary nursery beds with rose water canst wice daily for a maximum period of 2 months. (12.71 x 2 = 25.42)	1.	Bed	25.42	1	25.42	
	01.01.14	Kerbing the primary beds all around with Cement Bricks (in permanent nurseries only), if required. In all such permanent primary beds, no incurring of expenditure for making the primary beds every year is permitted except for cost of fungicides. This item has to be done with prior written approval of DFO	1		As per CSSR		200.00	
	01.01.15	Cost of chemicals, fungicide and insecticide	,	1000/- per 1	als limited to Rs. lakh seedlings in by bed stage.		20.00	
	01.01.16	Application of Fungicide and insecticide with power- driven back-pack mechanized sprayer as used in agricultural fields to spray insecticide.	1	By Nurs	ery Watcher		0.00	
							885.49 890	Per Bed

UNIT RATE:

As per FSR 2017-18 899.00

As per FSR 2018-19 (10% Escalation charges added) 979.00

As per FSR 2019-20 (10% Escalation charges added) 1076.90

Forest Divisional Officer Kaghaznagar 22/7/17



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SI. No.	FSR item	Nature of work		Qty	Rate	Unit	Amoun
	01.03.	BAG PLANT NURSERY: Seedlings need to be raised in 4"x7" (200 gauge) or 5"x9" (250 gauge) bags which are to be converted into 6"x12" (400 gauge) or 8"x12" (400 gauge) polybags. The seedlings are to be transplanted from primary beds in February - March. Hence the bags are to be filled during January-February when the soil is dry.				4	
		Raising of Nursery in Polythene bags in sizes of 4"x7" (200 gauge) or 5"x9" (250 gauge) bags and arranging in secondary beds (Bed size: 10 X 1 M).					
	01.03.01	Site preparation for New Sites - Clearing of growth, uprootal of stumps and removal of surface stones, rubbish of all sorts etc.	30	Bed	46.33	1	1390
		Cost of Polybags (including the cost of certification by): To ensure quality control, the quality of bags have to be certified by CIPET (Central Institute of Plastic Engineering & Technology), Hyderabad at the cost of tenderer by taking samples from various lots of polybags:					
	01.03.03	ii) 12.5 cm x 225 cm (5" x 9") size bags: 200 g 366 bags / kg	150	Kgs	182.00	1	27300
	0 1.03.04	Cost and Transport of ingredients for Potting Mixture: (As per CSSR) Red Soil, tank-silt, FYM in 2:1:1 ratio. To this soil mixture, 220 gm of Indophyll M-45, 4:5 kg of single super phosphate (SSP) and 250 gm of phorate granules per 1 cum of potting mixture will be added. Cost of chemicals is as per actuals.					
		Transportation of soil mixture ingredients					
_	01.03.05	a) Distance up to 5 km 12.5 cm x 225 cm (5" x 9") = 1.12 cum vol. for 1000 bags	50000	Bags	348.16	1000	17408
+	01.03 06	b) For every extra km beyond 5 km upto 25 km 12.5 cm x 22, 5 cm (5" x 9") = 1.12 cum vol. for 1000 bags (20 Kms x 9.07 = 181.40)	50000	Bags	181.4	1000	9070
		Preparation of Potting Mixture by powdering of various ingredients, sieving and mixing them in prescribed proportion; opening of bags and filling with potting mixture and gently pressing the same with finger tips and arranging in beds.					
-	01.03.07	b) 12.5 cm x 22. 5 cm (5" x 9") size bags: 1700 bags / bed	50000	Bags	872.5	10000	4363
		Allignment of beds including allignment of inspection paths etc.	30	Bed	6.92	1	20,8
	01.03.09	Pricking out seedlings from primary beds and transplanting into polybags	50000	Bags	128.88	1000	6444
	01.03.10	Sowing / dibbling of pretreated seeds (e.g. Yegisa, Nalamadi, Yerumaddi etc.) directly into bags including cost of treatment	0	Bags	76.66	1000	0
-	01.03.11	Watering the plants twice a day from Feb - March a) Manually with rose spray or finely perforated nozzle attached	30	Bed /	250.10	1	15006
-		to a nose pipe b) Mechanically with sprinkler sets fitted all along the beds at a	0	2months Bed / month	69.51	1	0.00
	01.03.12	height of 75-100 cm height. Weeding the beds during March	30	Bed / weeding	45.93	1	1378
	01:03:13	Shifting, Grading and rearranging in beds of 10x1 m size beds (2600 no. of 4"x7"bags; 1700 no. of 5"x9" bags) - One Grading in March	30	Bed / weeding	214.49	.1	6435
	01.03.14	Replacement of casualties after sorting out the empty bags and keeping at one end of the bed (maximum 10% of total stock is permissible)	3	Bed	60.90	1	. 183
	01.03.15	Cost of foliar nutritient formulations like multiplex or NPK- 19.19:19, fungicides and insecticides from February to March.		As per actuals with a Rs. 2000/ per 1 lakh			1000
	01.03.16	Application prophylactic foliar spray of 6.2% of Carbendazim / Dithane M-45 and any organo-phosphate (Monocrotophos / Phosphamidon @ 3-4 ml in 1 lit of water) at regular interval (once in a month) alternatively. Similarly application of multiplex or NPK 19:19-19 (a teaspoon in 1 lit water) - once in a month - to start.) month after conversion by back-packed power-sprayer (preferably in morning or evening and no watering for at least 12 hours after spray)		By Nurser	y Watcher		0.00
	01.03.17.	Weeding in the space between the beds, inspection path and sorroundings of Nursery	30	Bed	31.3	1	939
	01.03.18	Maintenance of Root Trainer plants or 4"x7" or 5"x9" bag- plants from April – August - Watering the plants twice a day from April – August (5 months)	30	Bed / month	250.10	1	37515
	01:03.19	Weeding the beds during May & July (3 months)	30	Bed / weeding	45.93	1	4134
	01.03.20	Shifting, Crading and rearranging in beds of 10 m x1 m size beds (2600 no. of 4"x7"bags; 1700 no. of 5"x9" bags) - One Grading in the month of May.	30	Bed / shifting	214.49	1	6435

No.	· No						
	01:03.21	CONVERSION of Root Trainer plants or 4"x7" or 5"x9" bag- plants into higher size bags - to be done during September - October. At the time of conversion, the height of the plants should be at least above 0.45m in height (excluding the height of polybag).					
	01.03.22	Cost and Transport of ingredients for Potting Mixture: Red Soil, tank-silt / claey soil, FYM in 2:1:1 ratio. To this soil mixture, 220 gm of Indophyll M-45, 4.5 kg of single super phosphate (SSP) and 250 gm of phorate granules per 1 cum of potting mixture will be added. Cost of chemicals is as per actuals.					
_	01.03.23	Transportation of soil mixture ingredients up to a distance of 5 km c) 5" x 9" to 8" x 12" polybags (3.82 - 1.12 = 2.70 cum)	50000	Nos	864.05	1000	43203
-	01.03.24	Transportation of soil mixture ingredients more than 5 km distance and upto 25 km distance e) 5" x 9" to 8" x 12" polybags (3.82 - 1.12 = 2.70 cum) (20 Km	50000	Nos/Km	437.40	1000	21870
	01.03.25	x 21.87 = 437.40) Preparation of Potting Mixture by powdering of various ingredients, sieving and mixing them in prescribed proportion; opening of bags and filling with potting mixture partially, tearing the polybag plants and repotting them inside bigger bags and filling the rest of bags; gently pressing the same with finger tips and arranging in beds of 10x1 m size (6"x12" size: 1100 bag plants / bed and 8"x12" size": 800 bag plants per bed)					
+		e) 5" x 9" to 8" x 12" polybags (3.82 - 1.12 = 2.70 cum)	50000	Nos	1552.61	1000	7763
	01.03.29	Weeding the plants (1100 no. of 6"x12"bags; 800 no. of 8"x12" bags; and 400 no. of 10"x16" bags) from November - March: 2 weedings					
		1 st weeding - December	63	Bed / weeding	45.93	. 1	2894
		2 nd weeding - February	63	Bed / weeding	45.93	1	2894
1	01.03.30	Shifting, Grading and rearranging in secondary beds - One Grading in February	63	Bed / weeding	214.49	1	1351
	Ò1.03.31	Watering the plants manually twice a day (from Novemebr March) with rose spray or finely perforated nozzle attached to a hose pipe.					
	,	a) Manually with rose spray or finely perforated nozzle attached to a hose pipe for 5 months	63	Bed / 5 months	250.10	1	7878
	01.03.32	Application prophylactic foliar spray of 0.2% of Carbendazim / Dithane M-45 and any origano-phosphate (Monocrotophos / Phosphamidon @ 3-4 ml in 1 lit of water) at regular interval (once in a month from Dec - March) alternatively. Similarly application of multiplex or NPK 19:19:19 (a teaspoon in 1 lit water) - once in a month - to start. I month after conversion by back-packed power-sprayer (preferably in morning or evening and no watering for at least 12 hours after spray)		By Nurser	y Watcher		0
	01.03.33	Cost of foliar nutritient formulations like multiplex or NPK- 19:19:19; fungicides and insecticides (from Dec - March)			a maximum limit of h polybag seedlings.		1000
		Nursery Watcher from September to March for 7 Months	. 7	Month	8017	1	5611
	01,03.34	Contingencies for Raising Year towards the expenditure like cost of hose pipe, nursery boards, electricty charges, running and maintainance charges of oil engines (Bills to be certified by ACF / DFO; and separate logbook for repair of motor or oil engine and store register for materials purchased.		of 5 % of estin	subject to max. mate in raising ear		2506
+		Sub total					32296
		Gran total					52631

UNIT RATE:
526400.00 As per FSR 2017-18
579040.00 As per FSR 2018-19 (10% Escalation charges added) 636944.00 As per FSR 2019-20 (10% Escalation charges added)

OR:

10.53 Per Plant - 2017-18

-11.58 Per Plant - 2018-19

12.74 Per Plant - 2019-20 Forest Divisional Officer
Kaghaznagar
2217117



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UNIT COST FOR MAINTENANCE OF BAG PLANTS NURSERY FOR 2018-19 (size of bag 8"x12")

Sl.	FSR item	Nature of work		Qty	Rate	Unit	Amount	Remark
No. 1	· No 01.04.	MAINTAINANCE YEAR OF NURSERY			1 1 1 1 1 1	1		
		MAINTAINANCE OF BAG PLANTS NURSERY UPTO PLANTING SEASON (APRIL TO AUGUST) for 10 m X 1 m size secondary beds (2600 Nos of 4" X 7" bags; 1700 Nos of 5" X9" bags; 1100 Nos. of 6"X12" bags; 800 Nos. of 8"X12" bags; 400 Nos. of 10"x16" bags per bed)						
	01.04.01	Watering polybag secondary beds twice a day for 4 months						
		a) Manually with rose spray or finely perforated nozzle attached to a hose pipe.	63	Bed / 4 months	250.10	1	63025	
	01.04,02		63	Bed / weeding	45.93	1 .	2894	
	01.04.03	Shifting, grading and re-arranging in beds for 10 m X 1 m size bed max. two shifts (one in April and another in June).	63	Bed / 2 times shifting	226.46	1.	28534	
	01.04.04	Application prophylactic foliar spray of 0.2% of Carbendazim / Dithane M-45 and any organo-phosphate (Monocrotophos / Phosphamidon @ 3-4 mi in 1 lit of water) at regular interval (once in a month from April to Auguss) alternatively. Similarly, application of multiplex or NPK 19:19:19 (! teaspoon in 1 lit water) - once in a month - to be applied by back-packed power-sprayer (preferably in morning or evening and no watering for at least 12 hours after spray)	-63	By Nursery Watcher			0	
	01.04.05	Cost of foliar nutritient formulations like multiplex or NPK-19:19:19; fungicides and insecticides (from April - August)	63	As per actuals with a maximum limit of Rs. 2000/ per 1 lakh polybag seedlings			1000	
	01.04.06	Cowdung Slurry application (One can apply chemical foliar spray or apply cowdung slurry - not both)						
		(a) Cost and transportation of fresh cowdung	63	per 100 beds for 3 months	As per actual maximum of		1575	
		(b)Application of cowdung slurry - only once between April to June - Watering snould not be done 12 hours before and after application of cowdung slurry treatment.		1000 bags	By Nursery	/ Watcher	0	
	01.04.07	Weeding in the space between the beds, inspection path and sorroundings of Nursery	63	Beds	25.28	1	1593	
	01.04.08	Contingencies for Maint. Year towards the expenditure like cost of hose pipe, nursery boards, electricty charges, running and maintainance charges of oil engines (Bills to be certified by ACF / DFO; and separate logbook for repair of motor or oil engine and store register for materials purchased.		As per actuals, subject to max. of 5 % of estimate in Maint. Year.				
		Nursery Watcher from April to August for 5 Months	5	Month	8017	1	40085	
					r 50000 Bags		138706 138800	

UNIT RATE:

138800.00 As per FSR 2017-18

152680.00 As per FSR 2018-19 (10% Escalation charges added)

167948.00 As per FSR 2019-20 (10% Escalation charges added) 184742.80 As per FSR 2020-21 (10% Escalation charges added)

2.78 Per plant 2017-18

3.05 Per plant 2018-19

3.36 Per plant 2019-20

3.69 Per plant 2020-21

Forest Divisional Officer
Kaghaznagar
2.2.1717



ESTIMATE FOR SCT WORKS IN C.A. PLANTATION AREAS

SI. No.		Nature of work	Quantity	Rate	Unit	Amount	Remarks
1		Digging of Staggered Contour Trenches (SCTs) for impounding rain water - Manual - Size: 3m Length, 0.45 m top-width, 0.30 m bottom-width and 0.45 m depth; earthwork volume per trench: 0.506 cum - Max. of 100 no. per ha. If they are made with machine, the works can be done by calling for tender. However, if they are intended to be done through machine, it has to be informed in advance. All the SCTs shall be completed before January. (100 Nos x 0.506 = 50.60 Cum X 10.931 Ha = 553.11 Cum))					
	2.01.08	Between January - March					
		(a) Loamy and clayey soil like BC soils, red earth and chowdu soil	50.60	254.60	Per Cmt.	12883	
2		Misc. like cost of implements				117	
			TOTAL:			13000	

13000 As per FSR 2017-18 As per FSR 2018-19 (10% Escalation charges added) As per FSR 2019-20 (10% Escalation charges added) 14300 15730

As per FSR 2020-21(10% Escalation charges added) 17303

19033 As per FSR 2021-22(10% Escalation charges added)

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UNIT COST ERRECTION BARBED WIRE FENCE AROUND THE C.A. PLANTATION AREA

SI. No.	FSR Item No.	Nature of work	Quantity	Rate	Unit	Amount	Remarks
1		Errection Barbed wire fence around the CA area	1480	700	Per Rmt.	1036000	
•			TOTAL:			1036000	*

1036000 For 2017-18

1139600 (10% Escalation charges added)for 2018-19

Forest Divisional Officer

Kaghaznagar



The CA area proposed to be raised under various models as per the site conditions and Requirement of seedlings for CA scheme

;;		CA land village area	Area	Model wise are afforeste	
Sl. No	Range		proposed in Ha	SMM (3m x 3m)	Total
	1, 1, 1, 1				
1	Penkalipet	Kammargaon	10.931	10.931	10.931
			10.931	10.931	10.931
Sl. No	Range	CA land village area	proposed in	(1350 Per Ha)	Total
		village area	На		
1	Penkalipet		Ha 10.931	14757	14757
1	Penkalipet				14757 1475 7
1	Penkalipet	Raising year	10.931	14757	
1	Penkalipet		10.931	14757 14757	14757
1	Penkalipet	Raising year	10.931	14757 14757	14757
1	Penkalipet Penkalipet	Raising year	10.931	14757 14757	14757
1		Raising year Inclusive 10 % Replancement	10.931 10.931	14757 14757 15000	14757 15000
1		Raising year Inclusive 10 % Replancement	10.931 10.931	14757 14757 15000	14757 15000 3061

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Development and improvement and existing of Chedwai Nursery infrastructure for CA scheme

SI. No	Range	Location of nursery	Item of work	Amount required
1	Penchikalpet	Chedwai	Borewell along with Motor	1.200
2	* 1		Central water system	1.000
3 .	:		Over head tanks 2 Nos.	0.800
4			Pedastal to over head tanks	0.400
5 .			Shade nets	0.200
6	* ***		Improvement of Seed store room	1.000
7			Kerbing the primary beds all around with Cement Bricks (in permanent nurseries only) 50 Nos @ 1500/-	0.700
			Total	5.300

Forest Divisional Officer, Kaghaznagar



-295 UNIT COST FOR ADVANCE OPERATIONS FOR CA SCHEME FOR 2017-18 UNDER SEMI MECHNIACAL METHOD- (3m X 3m espacement)

SI. No.	FSR item No	Nature of work	Qty	Rate	Unit	Amount	Remarks
		Survey with hand-held GPS (staff to carry out) and demarcation - one manday is allowed for					
1		assistance. The surveyed sketch with exact effective area statement will be uploaded in MIS platform by end of December.	1	326.59	1	327	
		SUB-TOTAL				327	•
					OR	327	

UNIT RATE:

327.00 As per FSR 2017-18

Forest Divisional Officer, Kaghaznagar



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UNIT COST FOR RAISING OF C.A. PLANTATION UNDER SEMI MECHNIACAL METHOD- (3m X 3m espacement) FOR 2018-19

1	2				(in Rs)		Amou
		3	4	5	6	7	8
	<u> </u>	RAISING OF BLOCK PLANTATIONS					-
-		SEMI-MECHANICAL PLANTATION					
	02.09.00	PLANTING OPERATIONS DURING RAISING YEAR.					
	02.09.01	Deep Ploughing the effective (excluding unsuitable patches)					
		plantation area across the slope to a depth of 30 cm with Heavy					
2		duty Tractor of 55 HP and above with Firm Mould Board (FMB)		1	3004.60	1 .	3005
- 1		plough (FOR UNTILLED AREA) - to be completed by 15th of					
		June ·	1				
1		Removing congestion of root suckers and other uprooted					
- 1		material hindering the effective ploughing					
_	00 00 00	Note: After intensive site preparation including clear-felling,	li-		000.00		
2	. 02.09.03	burning, stump uprootal, removal of uprooted material,	На	1	896.09	1	896
	* :	ploughing with the provision of removal of remnants of root suckers from soil, it is expected that there would not be any					
		coppice growth subsequently atleast 5-7 years.					
		coppied grown subsequently and as a ryears.					
2	02.00.04	Allianment & Stacking including demonstrate at book line					
3	02.09.04	Allignment & Stacking including demarcation of base line					
		c) 2X3 m espacement = 1111 planting points	100 no.	1111	70.08	100	779
4	02.09.05	Cost of preparation of stakes (0.45 m length) and transportation	100 no.	1111	49.67	100	552
	02.00.00	to site	100 110.		73.07	100	. 302
	00.00.00	Digging of Pits in Ploughed Areas in June - July by					
	02.09.06	adopting 50% of original rate of digging of pits of ordinary				×*	-
-		soil	Dia	4444			400
5		b) 45 cm ³ pits	Pit	1111	9.28	1	1031
-	02.09:07	PLANTING OPERATIONS DURING RAISING YEAR					
	02.09.07	(a) Transportation of Planting Stock (including loading			lakan l		
		and unloading) up to a distance of 5 km					
6	b	15 X 30 cm (6"X12") bag plants	100 nos	1111	96.79	100	1075
	02.09.08	(b) Transportation of Planting Stock (including loading					
		and unloading) more than 5 km distance and upto 25 km					
		distance					
-			100 nos /	4444	50.70	100	500
7	. b.	15 X 30 cm (6"X12") bag plants (15 x 3.38 =50.70)	km	1111	50.70 ·	100	563
10	02.09 10	Internal transportation to planting points on head loads					
8	b	15 X 30 cm (6"X12") bag plants	100 Nos	1111 -	80.06	100	889
		PLANTING: No Eucalyptus, not even mixed with bamboo,					
.		shall be planted in CA area. Only indigenous secondary					
- 1		harwood species and its associates mixed with local NTFP					
1		species shall be planted in CA areas. The minimum height of					
		the planting stock to be plant Fortification of seedling with insecticide and treating pits with					
	02.09.11	SSP					
-							
		i) Application of 50 gm of SSP per pit (1 day before planting)					
9	а	for root growth and early establishment of plant after planting. ii)	100 No.	1111	34.25	100	381
		Similarly, the bag plants to be planted will be dipped inside					
	r.	Chloropyriphos solution (5ml Chloropyriohos in 1 lit water)					
C.	Ь	Cost of SSP, Chloridine dust or Chloropyriphos (1111 x 50'/	Bag	1.10	500	1	550
٧.	Ŋ	1000/50 = 1.111 Bags)					
-		3	100 No	1111	381.54	100	4239
1	02.09.13	Planting in 45 cm ³	100 No.	1111	301.04	100	72.00
	02.09.14	Watering (one time) immediately after planting if the					
	-	planting takes place on a non-rainy day and if there is no					
	1	rains after planting for 1-2. days with prior written					
		permission of Circle Head and under intimation to Head				400	0.00
		Office. Also the date of watering is to be recorded in	100 No.	1111	231	100	2566
1		plantation Journal (Refer PCCF Office Rc. No.					
		17309/2000/G1, Dt. 16.08.2005 - Circular No.					
		6B/2005/G1)					
		Replacement of Casualties: 20% during Raising Year. The					1
		caualty replacement should be done in 3 stages at an interval of					
	02.09.29	15 days immediately after planting during raising year.			1		
		50% of unit rate of original pitting during raising year. Planting,					
		transpor (1666 x 20% = 333 Nos)					
2	<u> </u>	a) Pitting (50% of Original Rate 9.28 x 50% =4.64)	Each	222	4.64	1	1030
3		a) Pitting (50% of Original Rate 9.28 x 50% =4.64) b) Transportation of Seedlings- up to 5Kms	No.	222	96.79	100	215
		- 5 to 20Kms	No.	222	50.70	100	113
		c) Internal transporation	No.	222	80,06	100	178
4		d) Planting	No.	222	381.54	100	847
		u) : landing					
5							
5 6	02.00.16	Cost of DAP @ 25 gm / planting point (1111 x 25 / 1000/ 50 =	Bag	0.55	1400	1	770
5 6	02.09.16		Bag	0.55	1400	1	770

almain v	-	1	7
1	0	1	5
16	1	L	
1			/

To	9	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
0	Item No.	Schedule of operations with operations	4	5	6	7	8
0 1	2 02.09.19	b) Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without	100	1111	572.33	100	, 6359
1	02.03.10	damaging the plant. (during Nov - Dec.) Inter-ploughing (during November) the effective (excluding unsuitable patches) plantation area across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm					
		Mould Board (FMB) plough	На	1	2048.90	1	2049
1	02.09.20	i) Ordinary soil	100	1111	108.35	100	1204
23	02.09.21	scicature upto 1/3 rd height (to be done during October) Uprootal of Mahaveera (Hyptis suaveolens) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before September-end at any cost before inter-ploughing.	На	1	3184.10	1	3184
24	02.09.24	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and entry of grazing animals is stopped. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival at the end of raising year.	per month per watcher	9	802	. 1	7218
. 25		Preparation and fixing of plantation board of standard size 6'x3' with iron Angulars, guage 6 mm (Errected on 65 mm x 65 mm x 6 mm for length of 3.00 m) including construction of CC Base		1	A/A		400
		. O Hilli for longer or olds my	11			Total	5096

51000.00 or

51000.00 As per FSR 2017-18
56100.00 As per FSR 2018-19 (10% Escalation charges added)

OR 56100 Per Ha.

Forest Divisional Officer, Kaghaznagar



UNIT COST FOR 1st YEAR MAINTENANCE OF C.A. PLANTATION FOR 2019-20 UNDER SEMI MECHNIACAL METHOD-(3m X 3m espacement)

SI No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amoun
1	2	3	4	5	6	7	8
	02.10.	1ST YEAR MAINTAINANCE					
		"Replacement of Casualties: 25% in 1st year (In					
- 5	1	case of Eucalyptus: no casualty replacement). The					
		list of all casualty points shall be prepared by	1	1	1 2 4		
	02.10.01	concerned FRO by and made a report to DFO latest			1 .		
		by end of May. The pitting of all such casualty points			1		
1		shall be over by end of June. The planting shall be	1				
	00:00 00	completed by 15th of July.	-				
	02:09.06	a) Pitting (Original Rate 9.28) -45 cm pits	Each		9.28	1	2580
	.02.09.07	b) Transportation of Seedlings- up to 5Kms	No.	278	96.79	. 100	269
	02.09.08	- 5 to 20Kms	No.	278	50.70	100	141
	02.09.10	c) Internal transporation d) Planting	No.	278	80.06	100	223
·		Circular weeding to a radius of 0.50 m around the	No.	278	381.54	100	1061
	02.10.02	plant during raising year (July - Aug)	No.	1111	108.98	100	1211
	· · · · · · · · · · · · · · · · · · ·	Circular weeding cum Deep soi! working to a		 	 		<u> </u>
5.66		radius of 0.5 m and to a depth of 15 cm (to be done	1				
	02.10.03	by pick-axe only) without damaging the plant during	No.	1111	572.33	100	6359
	• • •	Nov - Dec					
		Uprootal of Mahaveera (Hyptis suaveolens) weed				 	
		with prior written approval of Circle Head and taking					
		photograph: before and after uproofal. The weed					
.	02.10.04	removal shall be completed before August-end	На	1	3184.1	1	3184
1		(before flowering) at any cost before inter-					
		ploughing.					
		Inter-ploughing (during September) the effective					
		plantation area (excluding unsuitable patches)		100			
l		across the slope to a depth of 30 cm with Heavy-					
-	02.10.05	duty Tractor of 55 HP and above with Firm Mould	11-		0040.5		00.10
	.02.10.03	Board (FMB) plough. This operation shall be carried	Ha	1	2048.9	1	2049
	0	out after Mahaveera uprootal is completed. Inter-					
	. •	ploughing should not be used as a means of			2.4	10	
		Mahaveera uprootal.				1.	lan Lando an comunicación como comunicación de la c
		Pruning of lower branch initials of Timber and				gas ^{as}	
	.02.10.06	NTFP species by scicature upto 1/3 rd height (to be	No.	1111	108.35	100	1204
		done during July-Aug)					
		Enumeration of row-wise survival and average		. To be done	by the staff	-	
	00.40.00	growth thrice a year - Number of plants planted and			by the staff -charge) with	•	
	02.10.08	Number surviving (to be undertaken during June,		the help of			
. -		Oct. and Jan.) and entered in Plantation Journal.		Wate	cher		
		Minimum stocking of 90% and average minimum					
10		Cost of Protection: One Watcher is allowed for 10-30	- 1 -		•		
		ha. plantation; one more Watcher for more than 30	-				
		ha, and if the area is less than 10 ha, prior approval			.		
. 1		of Conservator of Forests is required. Identity Photo			-		
-			Month	12	802.00	1	9624
		Journal. Every month payment to be made after			,	x 1 4 x	
		satisfaction by Plantation-in-charge that fence is in					
		proper condition and entry of grazing animals is		*			
	.	stopped. (8017 / 10 Ha = 802.00 Per Ha)	1	1			
						Total -	27905
						TOTAL 4	21300

27900.00

UNIT RATE

27900.00 As per FSR 2017-18

30690.00 As per FSR 2018-19 (10% Escalation charges added) 33759.00 As per FSR 2019-20 (10% Escalation charges added)

OR 33759 Per Ha.

Forest Divisional Officer, Kaghaznagar

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UNIT COST FOR 2nd YEAR MAINTENANCE OF C.A. PLANTATION FOR 2020-21 UNDER SEMI MECHNIACAL METHOD- (3m X 3m espacement)

SI No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amoun
1	2	3	4	5	6	7	8
	02.11.00	2 ND YEAR MAINTAINANCE				 	
		Circular weeding cum Deep soil working to a radius of 0.5 m and to a					
	02.11.01	depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug) (1x1111= 1111)	Nos.	1111	572.33	100	6359
		Pruning of lower branch initials of					
	02.11.02	Timber and NTFP species by scicature upto 1/3 rd height (to be carried out during July-Aug)	Nos.	1111	108.35	100	1204
	02.11.04	Enumeration of row-wise survival and average growth thrice a year - Number of plants planted and Number surviving (to be undertaken during June, Oct. and Jan.) and entered in Plantation Journal. Minimum stocking of 90% and average minimum height of 3 m at	in-cha	ne by the sta arge) with the antation Wa			
		Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 na; and if the area is less than 10 ha, prior approval					
	02.11.05	of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after	Month	12	802.00	1	9624
-		satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is					
		absent. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival during 1st year maintainance period.					
T							17187
-					or	17200.00	per Ha

UNIT RATE:

As per FSR 2017-18 17200.00

As per FSR 2018-19 (10% Escalation charges added) 18920.00

20812.00

As per FSR 2019-20 (10% Escalation charges added) As per FSR 2020-21 (10% Escalation charges added) 22893.20

OR 22893 Per Ha.

Forest Divisional Officer, Kaghaznagar

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UNIT COST FOR 3rd YEAR MAINTENANCE OF C.A. PLANTATION FOR 2021-22 UNDER SEMI MECHNIACAL METHOD- (3m X 3m espacement)

SI No		Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amoun
-1	. 2	3 .	4	5	6	7	8
	02.11.					1.	
		Circular weeding cum Deep soil					
		working to a radius of 0.5 m and to a					
	02.11.01	depth of 15 cm (to be done by pick-axe	Nos.	1111	572.33	100	6359
		only) without damaging the plant: (July-			1	1	0000
		Aug) (1x1111=1111)					
		Pruning of lower branch initials of				· · · · · ·	
	004400	. Timber and NTFP species by scicature					
1	02.11.02	upto 1/3 rd height (to be carried out during	Nos.	1111	108.35	100	1204
		July-Aug)					
		Enumeration of row-wise survival and					-
		average growth thrice a year - Number of					
		plants planted and Number surviving (to	To be don	e by the sta	ff (plantation-		
	02.11.04	be undertaken during June, Oct. and Jan		arge) with th			
		and entered in Plantation Journal.	. PI	antation Wa		- 20	
		Minimum stocking of 90% and average	1				i
- 1				-			
	<u> </u>	minimum height of 3 m at	1	*			
+				*		•	
				* 			
				*			
		minimum height of 3 m at Cost of Protection: One Watcher is allowed for 10-3 ha. plantation; One more Watcher for more than 30		*			
		minimum height of 3 m at Cost of Protection: One Watcher is allowed for 10-3 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval		*			
	02.11.05	minimum height of 3 m at Cost of Protection: One Watcher is allowed for 10-3 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo	0	12	802.00		9624
	02.11.05	minimum height of 3 m at Cost of Protection: One Watcher is allowed for 10-3 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation	0	12	802.00	1	9624
	02.11.05	minimum height of 3 m at Cost of Protection: One Watcher is allowed for 10-3 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after	0	12	802.00	1	9624
	02.11.05	minimum height of 3 m at Cost of Protection: One Watcher is allowed for 10-3 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in	0	12	802.00	1	9624
	02.11.05	minimum height of 3 m at Cost of Protection: One Watcher is allowed for 10-3 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is absent. The guiding principle for continuation of the	0	12	802.00	1	9624
	02.11.05	minimum height of 3 m at Cost of Protection: One Watcher is allowed for 10-3 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is absent. The guiding principle for continuation of the services of a Plantation Watcher is at least 80%	0	12	802.00	1	9624
	02.11.05	minimum height of 3 m at Cost of Protection: One Watcher is allowed for 10-3 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is absent. The guiding principle for continuation of the	0	12	802.00	1	9624

UNIT RATE:

 17200.00
 As per FSR 2017-18

 18920.00
 As per FSR 2018-19 (10% Escalation charges added)

 20812.00
 As per FSR 2019-20 (10% Escalation charges added)

 22893.20
 As per FSR 2020-21 (10% Escalation charges added)

 25182.52
 As per FSR 2021-22 (10% Escalation charges added)

OR 25183 Per Ha.

Forest Divisional Officer, Kaghaznagar

22/7/17

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UNIT COST FOR 4th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2022-23 UNDER SEMI MECHNICAL METHOD- (3m X 3m espacement)

SI No.	Item No.	Schedule of operations with Specification	Únit	Qty	Rate (in Rs)	Per	Amoun
1	2	3	4	5	6	7	8
	02.11.						
	02.11.01	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug) (1x1111=1111)	Nos.	1111	572.33	100	6359
	02.11.02	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be carried out during July-Aug)	. Nos.	1111	108.35	100	1204
	02.11.04	Enumeration of row-wise survival and average growth thrice a year - Number of plants planted and Number surviving (to be undertaken during June, Oct. and Jan.) and entered in Plantation Journal. Minimum stocking of 90% and average minimum height of 3 m at	in-cha	e by the sta irge) with th antation Wa			
	02.11.05	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is absent. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival during 1st year maintainance period.	Month	12	802.00	1	9624
+							17187
							11 10

17200.00 per Ha

UNIT RATE:

As per FSR 2017-18 17200.00

As per FSR 2018-19 (10% Escalation charges added) As per FSR 2019-20 (10% Escalation charges added) 18920.00

20812.00

22893.20 As per FSR 2020-21 (10% Escalation charges added) As per FSR 2021-22 (10% Escalation charges added)

25182.52 As per FSR 2022-23 (10% Escalation charges added) 27700.77

QR 27701. Per Ha.

Forest Divisional Officer, Kaghaznagar



UNIT COST FOR 5th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2023-24 UNDER SEMI MECHNIACAL METHOD- (3m X 3m espacement)

No 1	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amoun
÷.	02.11.	3 700 0 70	4	5	6	7	8
	02.11.01	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-	Nos.	1111	572.33	100	6359
	02.11.02	Aug) (1x1111=1111) Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be carried out during July-Aug)	Nos.	1111	108.35	100	1204
	02.11.04	Enumeration of row-wise survival and average growth thrice a year - Number of plants planted and Number surviving (to be undertaken during June, Oct. and Jan.) and entered in Plantation Journal. Minimum stocking of 90% and average minimum height of 3 m at	in-cha	e by the sta arge) with th antation Wa			
	00 44 05	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more finan 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation	Month	. 12	802.00	. 1	9624
		Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is absent. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival during 1st year maintainance period.					

UNIT RATE :

17200.00 As per FSR 2017-18

18920.00 As per FSR 2018-19 (10% Escalation charges added)
20812.00 As per FSR 2019-20 (10% Escalation charges added)
22893.20 As per FSR 2020-21 (10% Escalation charges added)
25182.52 As per FSR 2021-22 (10% Escalation charges added)
27700.77 As per FSR 2022-23 (10% Escalation charges added)
30470.85 As per FSR 2023-24 (10% Escalation charges added)

OR 30471 Per Ha.

Forest Divisional Officer, Kaghaznagar

per Ha

UNIT COST FOR 6th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2024-25 UNDER SEMI MECHNIACAL METHOD- (3m X 3m espacement)

SI No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amount
1	2	٠ 3	4	5	6	7	8
	02.11.						
	02.11:01	Circular weeding cum Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be done by pick-axe only) without damaging the plant. (July-Aug) (1x1111=1111)		1111	572.33	100	6359
	02.11.02	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be carried out dur July-Aug)		1111	108.35	100	1204
	02.11.04	Enumeration of row-wise survival and average growth thrice a year - Number plants planted and Number surviving (to be undertaken during June, Oct. and Ja and entered in Plantation Journal. Minimum stocking of 90% and average minimum height of 3 m at	To be don in-cha	e by the sta arge) with the antation Wa			
		. 1					
		Cost of Protection: One Watcher is allowed for 10 ha. plantation; One more Watcher for more than 3 ha; and if the area is less than 10 ha, prior approv	al ·				
	02.11.05.	of Conservator of Forests is required. Identity Pho of Watchers shall be pasted in respective Plantati Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in	on Month	12	802.00	1	9624
		proper condition and incidence of grazing and fire absent. The guiding principle for continuation of th services of a Plantation Watcher is at least 80%	is				
+	•	survival during 1st year maintainance period.	-	-	-		17187
			J		or	17200.00	per Ha

17200.00	As per FSR 2017-18
18920.00	As per FSR 2018-19 (10% Escalation charges added)
20812.00	As per FSR 2019-20 (10% Escalation charges added)
22893.20	As per FSR 2020-21 (10% Escalation charges added)
25182.52	As per FSR 2021-22 (10% Escalation charges added)
27700.77	As per FSR 2022-23 (10% Escalation charges added)
30470.85	As per FSR 2023-24 (10% Escalation charges added)
33517.94	As per FSR 2024-25 (10% Escalation charges added)

Forest Divisional Officer,

UNIT COST FOR 7th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2025-26 UNDER SEMI MECHNIACAL METHOD- (3m X 3m espacement)

SI No	Item No.	Schedule of operations with Specification	Unit	Qty	Rate (in Rs)	Per	Amoun
1	2	3 .	4	5	6	7	8
-	02.11.						-
.		Circular weeding cum Deep soil				· -	+
		working to a radius of 0.5 m and to a		1			
	. 02.11.01	depth of 15 cm (to be done by pick-axe	Nos.	1111	572.33	. 100	6359
- 1		only) without damaging the plant. (July-				1.00	0000
1		Aug) (1x1666= 1666)			1		
		Pruning of lower branch initials of					
1	02.11.02	Timber and NTFP species by scicature	Ntaa	1			
		. upto 1/3 rd height (to be carried out during	Nos.	1111	108.35	100	1204
+		July-Aug)				200	
		Enumeration of row-wise survival and					
		average growth thrice a year - Number of			,		
		plants planted and Number surviving (to	To be don	ne by the sta	ff (plantation-		130 117
1	02.11.04	be undertaken during June, Oct. and Jan.)		arge) with th			
1	. •	and entered in Plantation Journal.	PI	antation Wa	tcher	. 4	
		Minimum stocking of 90% and average					
1		minimum height of 3 m at					
1		Cost of Protection: One Watcher is allowed for 10-30					
		na. plantation; One more Watcher for more than 30					
1		ha; and if the area is less than 10 ha, prior approval					
	02.11.05	of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation	Month	12	802.00	1	9624
		Journal: Every month payment to be made after				'	9024
		satisfaction by Plantation-in-charge that fence is in					
	. 1	proper condition and incidence of grazing and fire is					
		absent. The guiding principle for continuation of the					
1	1	services of a Plantation Watcher is at least 80% survival during 1st year maintainance period.				IA A	
-		odivival during 1st year maintainance period.					
							17187
1						1	

UNIT RATE:

17200.00 As per FSR 2017-18 As per FSR 2018-19 (10% Escalation charges added) 18920.00 20812.00 As per FSR 2019-20 (10% Escalation charges added) 22893.20 As per FSR 2020-21 (10% Escalation charges added) 25182.52 As per FSR 2021-22 (10% Escalation charges added) 27700.77 As per FSR 2022-23 (10% Escalation charges added) As per FSR 2023-24 (10% Escalation charges added) As per FSR 2024-25 (10% Escalation charges added) 30470.85 33517.94 36869.73 As per FSR 2025-26 (10% Escalation charges added)

36870 Per Ha. OR

Forest Divisional Officer, Kaghaznagar