

**Indicative Cost Estimation for Raising and Maintenance of C.A. Plantation on Degraded Forest Land @ 1000 Plants 8"x12" Size Per Ha. (Based on KFD CSSR for 2020-21)**  
**ABSTRACT (Amount in Rs. 6390700/- Cost 40.1448 Hectare)**

Sl. No.	Particulars	Advance Work Year	Raising year	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Grand Total
<b>PART A : Advance Works</b>														
1	Advance Works (Including raising of Pbs 8"x12" Size)	5,371,374												5,371,374
<b>PART B : Raising of plantation</b>														
1	Raising plantation in advance worked area		2,962,686											2,962,686
2	Maintenance of seedling before planting (8"x12" Size Pbs 1200 Pbs @ Rs. 6.94 each)		334,326											334,326
4	Raising nursery for replacement of casualties next year (10% 8"x12" Size Pbs 100 pbs @ Rs.22.83 each)		91,651											91,651
<b>PART C : Maintenance of plantation (with Casualty Replacement, Cultural Operation and manuring)</b>														
1	Maintenance of the plantation during 1st year			1,593,749										1,593,749
2	Maintenance of seedlings raised for casualty replacements (8"x12" size 100 Pbs @ Rs. 6.94 )			27,860										27,860
<b>PART D : Maintenance of plantation (With Cultural Operations &amp; manuring)</b>														
1	Maintenance of plantation during 2nd year				1,328,793									1,328,793
<b>PART E : Maintenance of plantation (With Cultural Operations but without manuring)</b>														
1	Maintenance of plantation during 3rd year					1,099,968								1,099,968
2	Maintenance of plantation during 4th year						1,099,968							1,099,968
3	Maintenance of plantation during 5th year							1,099,968						1,099,968
<b>PART F : Maintenance of plantation (Without cultural operations)</b>														
1	Maintenance of plantation during 6th year								325,173					325,173
2	Maintenance of plantation during 7th year									325,173				325,173
3	Maintenance of plantation during 8th year										325,173			325,173
4	Maintenance of plantation during 9th year											325,173		325,173
5	Maintenance of plantation during 10th year												325,173	325,173
	<b>Total (A to F) Amount in Rs @ 2020-21 SSR Rs</b>	5,371,374	3,388,663	1,621,609	1,328,793	1,099,968	1,099,968	1,099,968	325,173	325,173	325,173	325,173	325,173	16,636,206
1	Total (A to F) Amount after taking 10% escalation cost for each year (Compounding factor at 10%)	5,908,512	4,100,282	2,158,362	1,945,486	1,771,509	1,948,660	2,143,526	697,037	766,741	843,415	927,756	1,020,532	24,231,815
II	Soil and Moisture Conservation measures (15% on total plantation cost).	3,634,772												3,634,772
III	Resurveying, re-demarcation and other works for section 4 notification C.A Land	417,506												417,506
IV	Chainlink Mesh Fencing (Considering 200 meter average periphery (Adopted from Data Sheet of Sandal Estate Model for 2019) On both C.A Land & Degraded Forest Land	32,617,650												32,617,650
	<b>Total 1st year to 10th year (I+II+III+IV)</b>	42,578,440	4,100,282	2,158,362	1,945,486	1,771,509	1,948,660	2,143,526	697,037	766,741	843,415	927,756	1,020,532	60,901,743
	<b>Administration &amp; Supervision charges @ 5%</b>													3,045,087
	<b>Miscellaneous for rounding off</b>													3,870
	<b>GRAND TOTAL</b>													63,907,700

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**DATASHEET NO : 5 - RAISING OF SEEDLINGS IN 8"x12" POLYTHENE BAGS FOR THE YEAR 2020-21**

**QUANTITY: 1,000 Pbs.**

**(Amount in Rupees)**

Sl. No.	CSSR Item NO.	Particulars of works	Qty.	Rate	Per	Amount
1	By Tender	Cost of HDPE WOVEN SACKS bags including 18% GST	1,000 Pbs	4.50	1	4,500.00
2	14(a)	Procurement of 4.20 cum of ingredients i.e. farmyard manure/compost, sand and red earth in 1:1:2 proportion	1,000 Pbs	3,273.36	1,000	3,273.36
3	14(b)	Mixing the ingredients, filling the polythene bags and arranging in rows after scraping the earth	1,000 Pbs	3,103.13	1,000	3,103.13
4	LS / RQ	Cost of quality seeds / Quality Planting Material	500 Pbs	327.18	1,000	163.59
5	14(d)	Pricking out the seedlings from seed beds & transplanting in the Pbs	500 Pbs	319.03	1,000	159.52
6	Sub Est.	Raising of 4"x6" seedlings (Transplanting seedlings)	500 Pbs	3.11	1	1,555.00
7	14(e)	Transplanting of 4"x6" or 5"x8" size bagged seedlings into 8"x12" size bags after removal of the seedlings along with the trimmed ball of earth	500 Pbs	319.03	1,000	159.52
8	14(f)	Watering to the Polythene bagged seedlings twice a day from 01-09-2019 to 31-03-2020 for 212 days (Limited to 183 days)	1,000 Pbs	44.04	1,000	8,059.32
			183 Days	-		
9	14(g)	Weeding the Polythene bagged seedlings	1,000 Pbs	134.70	1,000	538.80
			4 Times			
10	14(h)	Shifting & grading the Polythene bagged seedlings	1,000 Pbs	382.91	1,000	765.82
			2 Times			
11	LS / RQ	Cost of application of pesticides / Fungicides / biofertilisers, diesel	1,000 Pbs	546.86	1,000	546.86
12	LS / RQ	Miscellaneous, Unforeseen & rounding off				5.09
<b>Total</b>						<b>22,830.00</b>

**MAINTENANCE OF SEEDLINGS IN 8"x12" POLYTHENE BAGS FOR THE YEAR 2020-21**

Sl. No.	CSSR Item NO.	Particulars of works	Qty.	Rate	Per	Amount
1	14(f)	Watering to the Polythene bagged seedlings twice a day from 1st April 2019 for 120 days	1,000 Pbs	44.04	1,000	5,284.80
			120 Days			
2	14(g)	Weeding the Polythene bagged seedlings	1,000 Pbs	134.70	1,000	269.40
			2 Times			
3	14(h)	Shifting & grading the Polythene bagged seedlings	1,000 Pbs	382.91	1,000	1,148.73
			3 Times			
4	LS / RQ	Electricity charges, diesel charges, maintenance charges of nursery, etc.				237.07
5	LS / RQ	Miscellaneous, Unforeseen & rounding off				-
<b>Total</b>						<b>6,940.00</b>

Note: Watering is given for a maximum period of 120 days under maintenance. Whenever watering is not required on account of rains and hardening, proportionate reduction in number of days is to be made.

2. Item of Works can be modified by the DCF based on the field requirement with the concurrence of CCFs

  
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# DATA SHEET FOR ADVANCE WORKS FOR THE YEAR 2020-21

No. of Trenches -500 of size 4m x 0.5m x 0.5m per ha. 1000 Seedlings @ 2 Plants per Trecr Extent :

1 Ha

Sl. No.	CSSR Item NO.	Particulars of work	Qty.	Rate	Per	Amount
1	100(b)	Survey and Demarcation of Plantation boundary lines after clearing the rank growth to a width of 2 m. in the areas with sparse under growth.	200 Rmtrs.	1,258.73	Km	251.75
2	28 (a)	Aligning in the planting area along the contours & marking for trenches	500 Trenches	1,463.70	Per	731.85
3	28 (b) (ii)	Excavation of contour trenches of sized 4m x 0.5m x 0.5m with uncut portion of 25cm in between the adjacent trenches and depositing the 1/3rd top soil on uppper slopes and remaining 2/3rd excavated earth on lower slopes of trenches in (b) (ii) Hard Soil	500 M3	210.76	1	105,380.00
4	Sub Estimate	Raising of 8"x12" size P.b.seedlings (1000+10% casualty Replacement)	1200 Pbs	22.83	Each	27,396.00
5	LS / RQ	Miscellaneous, Unforeseen & rounding off				40.40
			Total			133,800.00

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**MODEL - 04 - A.R. MODEL FOR DRY ZONES**  
**DATASHEET - 16- RAISING OF PLANTATION FOR THE YEAR 2020-21**

Extent : 1 Ha

No. of Plants -1000 - 8" x 12 "

Sl. NO.	CSSR Item NO.	Particulars of work	Qty.	Rate	Per	Amount
1	28 (c)	Refilling of trenches, cutting the edges of the excavated trench on the lower side & refilling the trench with 75% of the excavated earth duly breaking the clods & formation of uniformly sloping continuous mound all along the lower side of trench.	500 Cum	21.07	1	10,535.00
2	28 (d)	Sowing of seeds on trench mound of 4 Meter in length	500 trenches	5.02	1	2,510.00
3	23(d)	Loading of polythene bagged seedlings into the vehicle at the nursery site and unloading at the site nearest to the planting site including 10% casualty replacement. Seedlings raised in 8"x12" size bags.	1,100 Seedl.	2,342.01	1,000	2,576.21
4	24 (d)	Transportation of polythene bagged seedlings in hired truck from the nursery site to planting site. (e) Seedlings raised in 8"x12" size bags. (iii) Distance from 21 to 30 km.	1,100 Seedl.	3,742.82	1,000	4,117.10
5	25 (d)	Conveyance of polythene bagged seedlings on head load from the dumping site to planting location near each trench / pit. (Distance up to 3 km). 8"x12" size bagged seedlings.	1,100 Seedl.	4,683.99	1,000	5,152.39
6	26 (c)	Watering polythene bagged seedlings at planting site by dipping in water, including carrying of water. (c) 8"x12" size bagged seedlings (This should be resorted to in dry conditions only).	1,100 Seedl.	995.33	1,000	1,094.86
7	27 (d)	Planting of P.B. Seedlings after tearing with blade and removing the polythene bags in pits including scooping the soil to required depth, pressing the soil gently around the seedlings after planting. 8"x12" size bagged seedlings.	1,000 Seedl.	4,467.35	1,000	4,467.35
8	34 (d)	Collection of Agave suckers of one foot and above height from field areas, and transportation to the plantation area, including loading and unloading charges, for planting in the plantation- distance up to 8 km	1,500 nos.	2,404.01	1,000	3,606.02
9	34 (e)	Conveyance of Agave suckers from plantation boundary to planting site on head load	1,500 nos.	585.50	1,000	878.25
10	34 (f)	Digging of earth by pickaxe to the required depth, planting of Agave seedlings in to plantation and pressing the soil around the seedling.	1,500 nos.	2,049.22	1,000	3,073.83
11	28 (e)	Weeding inside the trenches and on mounds of 4 Meter in length trench	500 nos.	8.71	1	4,355.00

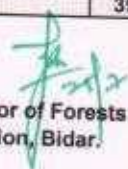
Sl. NO.	CSSR Item NO.	Particulars of work	Qty.	Rate	Per	Amount
12	28(g)	Soil working the trenches by digging with pickaxe to a depth of 15 cm. and to a width of 60 cm. starting from the lower edge of the trench towards the other side of trench of 4 m. length so as to loosen the soil uniformly including scraping around the plant before digging and reformation of damaged mounds during rains. (Trench mound should not be disturbed while soil working)	500 Trenches	16.95	1	8,475.00
13	RQ	Purchase of DAP (25 gms per plant)	25 kg	50.00	kg	1,250.00
14	38 (e)	Application of chemical fertilizer around the plants about 15 cm. away in a furrow duly covering with soil (excluding the cost of fertilizer) in two equal split doses.	1000 plants	468.33	1000	468.33
15	28 (F)	Scraping of grass and other growth around the trenches & mounds to a width of 60 cm on each side of trenches (4 Meter length trench)	500 trenches	9.96	1	4,980.00
16	82	Fire Protection in Forest Plantations: New Fire Lines: Cutting of all existing weed growth to a width of 3m. heaping, burning and re-burning in younger plantations	0.40 Km	2,459.08	1	983.63
17	Wages	Watch and ward @ one maz for 10 ha (i.e, 305 days @ 495.49 per day = 151124.45)	1 ha.	1,511.24	10	15,112.45
18	LS / RQ	Miscellaneous, Unforeseen & rounding off				164.58
			Total			73,800.00

  
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**C : DATA SHEET FOR 1st YEAR MAINTENANCE OF CA PLANTATION**

Sl. No.	SSR No	Particulars of Works	Quantity		Rate Per Unit		Amount (Rs.)
1	40 (a)	Re-opening of pits of size 0.30m x 0.30 m x 0.30m for replacement of causalities	2.70	M3	70.27	1.00	189.73
2	23(d)	Loading & unloading of Polythene Bagged Seedlings: Seedlings raised in 8" x 12" size bags	100	Pbs	2,342.01	1000	234.20
3	24(d)(iii)	Transportation: Transportation of polythene-bagged seedlings in hired truck from the nursery site to planting site (21-30 Km) Seedlings raised in 8" x 12" size bags :	100	Pbs	3,742.82	1000	374.28
4	25(d)	Conveyance of polythene-bagged seedlings on head load from the dumping site to planting location near each trench / pit (distance up to 3 Km) 8"x12" size bagged seedlings	100	Pbs	4,683.99	1000	468.40
5	26(c)	Watering by dipping: Watering polythene bagged seedlings at planting site by dipping in water, including carrying of water 8" x 12" size bagged seedlings	100	Pbs	995.33	1000	99.53
6	27(d)	Planting of P.B. Seedlings after tearing with blade & removing the polythene bags in trenches / pits including scooping the soil to required depth, pressing the soil gently around the seedlings after planting 8" x 12" size bagged seedlings.	100	Pbs	4,467.37	1000	446.74
7	Market Rate	Cost of chemical Fertilizer @ 25g/ plant (for 1000 plants).	25	Kg	50.00	1	1,250.00
8	38(e)	Application of chemical fertilizer around the plants about 15 cm. away in a furrow duly covering with soil (excluding the cost of fertilizer)	1000	plants	468.33	1000	468.33
9	39(b)	Weeding inside the trenches and on mounds of 4 Meter length	500	Trs	8.71	1	4,355.00
10	39(d)	Soil working the trenches by digging with pickaxe to a depth of 15 cm. and to a width of 60 cm. starting from the lower edge of the trench towards the other side of trench of 4 m. length so as to loosen the soil uniformly including scraping around the plants before digging & reformation of damaged mounds during rains	500	Trs	11.73	1	5,865.00
11	39(c)	Scraping of grass and other growth around the trench of 4 m length to a width of 60 cm on each side of the trenches.	500	trench	8.71	1	4,355.00
12	40(g)	Karada and other pernicious grass cutting flush to the ground in highly problematic plantation areas where the grass is suppressing the plants	0.50	ha.	5,855.06	1	2,927.53
13	83(a)	Maintenance of Fire Line along Roadside, Plantation, Block and compartment boundaries : a) Cleaning existing fire lines and fire tracing 3 m wide.	0.33	Km	1,463.70	1	483.02
14	83(b)	Maintenance of Fire Line along Roadside, Plantation, Block and compartment boundaries : a) Re-sweeping and re-burning the above fire line.	0.33	Km	204.90	1	67.62
15	Wages	Watch and ward @ one maz for 10 ha (i.e, 365 days @ 495.49 per day)	1	ha.	18,085.30	1	18,085.30
16		Miscellaneous					30.32
<b>GRAND TOTAL</b>							<b>39,700.00</b>

  
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**D : DATA SHEET FOR 2nd YEAR MAINTENANCE OF CA PLANTATION**

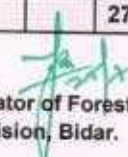
Sl. No.	SSR No	Particulars of Works	Quantity		Rate Per Unit		Amount (Rs)
1	Market Rate	Cost of Chemical Fertilizer @ 25gm/plant for 1000 plants	25.00	kg	50.00	1	1,250.00
2	38(e)	Application of chemical fertilizer around the plants about 15 cm. away in a furrow duly covering with soil (excluding the cost of fertilizer)	1000	plants	468.33	1000	468.33
3	42(c)	Weeding inside the trenches and on mounds of 4 meter length	500	Trs	8.24	1	4,120.00
4	42(d)	Soil working the trenches by digging with pickaxe to a depth of 15 cm. and to a width of 60 cm. starting from the lower edge of the trench towards the other side of trench of 4 m. length so as to loosen the soil uniformly including scraping around the plants before digging & reformation of damaged mounds during rains.	500	Trs	9.32	1	4,660.00
5	42(e)	Scraping of grass and other growth around the trench of 4 m length of a width of 60 cm. on each side of the trenches.	500	Trs	7.89	1	3,945.00
6	83(a)	Maintenance of fire line along roadside, Plantation, Block and compartment Boundaries: Clearing existing fire lines and fire tracing 3 M wide.	0.33	Km	1,387.65	1	457.92
7	83(b)	Re-sweeping and re-burning the above fire line	0.33	Km	204.90	1	67.62
8	Wages	Watch and ward @ one maz for 10 ha (i.e, 365 days @ 495.49 per day)	1	ha.	18,085.30	1	18,085.30
9		Miscellaneous					45.83
<b>TOTAL</b>							<b>33,100.00</b>

  
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**E: DATA SHEET FOR 3rd/4th/5th YEAR MAINTENANCE CA  
PLANTATION**


Sl. No.	SSR No	Particulars of Works	Quantity		Rate Per Unit		Amount (Rs)
1	42(c)	Weeding inside the trenches and on mounds of 4 meter length	500	Trs	8.24	1	4,120.00
2	42(d)	Soil working the trenches by digging with pickaxe to a depth of 15 cm. and to a width of 60 cm. starting from the lower edge of the trench towards the other side of trench of 4 m. length so as to loosen the soil uniformly including scraping around the plants before digging & reformation of damaged mounds during rains.	500	Trs	9.32	1	4,660.00
3	83(a)	Maintenance of fire line along roadside, Plantation, Block and compartment Boundaries: Clearing existing fire lines and fire tracing 3 M wide.	0.33	Km	1,387.65	1	457.92
4	83(b)	Re-sweeping and re-burning the above fire line	0.33	Km	204.90	1	67.62
5	Wages	Watch and ward @ one maz for 10 ha (i.e. 365 days @ 495.49 per day)	1	ha.	18,085.30	1	18,085.30
6		Miscellaneous					9.16
<b>Total</b>							<b>27,400.00</b>

  
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**F: DATA SHEET FOR 6th/ 7th/ 8th/ 9th/ 10th YEAR MAINTENANCE CA  
PLANTATION**

Sl. No.	SSR No	Particulars of Works	Quantity		Rate Per Unit		Amount (Rs)
1	83(a)	Maintenance of fire line along roadside, Plantation, Block and compartment Boundaries: Clearing, existing fire lines and fire tracing 3 M wide.	0.33	Km	1463.7	Per Km each side	483.02
2	83(b)	Re-sweeping and re-burning the above fire line	0.33	Km	204.9	Per Km each side	67.62
3	Wage s	Watch and ward @ one maz for 10 ha (i.e, 152 Days April & May, Jan to March @ 495.49 per day)	1	Maz for 10 ha	7531.5	1	7531.45
4		Miscellaneous					17.91
<b>Total</b>							<b>8100.00</b>

  
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