

**RAISING OF PLANTATION IN SMM 32.50 HA OF PENAL COMPENSATORY
AFFORESTATION LAND IN COMPT.NO.459 OF NARSAIPALLY RF OF
KOLLAPUR RANGE OF NAGARKURNOOL DISTRICT (FROM 2018-19 TO 2025-
26)**

Sl. No.	Item of work	Unit	Qty.	Rate	Amount
1	2		3	4	5
1	Advance operations during 2018	Ha	32.50	23792	773231
2	Raising of plantation during 2018	Ha	32.50	66138	2149486
3	1st Year maintenance of plantation 2019	Ha	32.50	90073	2927365
4	2nd Year maintenance of plantation 2020	Ha	32.50	44250	1438117
5	3rd Year maintenance of plantation 2021	Ha	32.50	47266	1536160
6	4th Year maintenance of plantation 2022	Ha	32.50	54356	1766585
7	5th Year maintenance of plantation 2023	Ha	32.50	41231	1340015
8	6th Year maintenance of plantation 2024	Ha	32.50	19579	636308
9	7th Year maintenance of plantation 2025	Ha	32.50	22516	731754
	Sub-Total				13299021
10	Admin Cost for @ 10% on plantations (for purchase of Computers, stationery, Renumeration of DEOs, Technical Assistants and other contingencies)				1329902
	TOTAL:				14628923


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**UNIT COST FOR ADVANCE OPERATIONS FOR CA SCHEME FOR 2018-19 UNDER AR
SEMI MECHANICAL METHOD**

Sl. No.	FSR Item No	Nature of work	Qty	Rate	Unit	Amount
1	02.08.01	Survey with GPS (Only staff to carry out)	1	311.04	1	311
		Preparation of site for planting by clearing thorny unsaleable, unusable jungle growth, creepers, bushes etc. spreading the cut material allover the site and burning the same				
2	02.08.04	Medium Jungle growth (>30% ground area covered with Jungle growth)	1	5207.67	1	5208
3		Uprootal of tumps to a depth of 45 cm (excluding unsuitable patches) with heavy mahinery fitted with 0.90 cum and above capacity bucket, filling the pits caused by uprootal and levelling.				
	02.08.07	Medium Jungle growth (>30% ground area covered with Jungle growth)	1	10965.25	1	10965
4		Collection and removal of uprooted stumps of all sizes, other debris etc., to outside the plantation site.				
5		Miscellaneous				1506
		TOTAL				17990

**UNIT
RATE :**

17990 As per FSR 2016-17

20688 As per FSR 2017-18 (15% Escalation charges added)

23792 As per FSR 2018-19 (15% Escalation charges added)


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UNIT COST FOR RAISING OF C.A. PLANTATION UNDER AR-SEMI MECHANICAL METHOD FOR 2018-19

Sl. No	Description of Work	FSR Item No	Qty	Rate	Unit	Unit	Amount
1	2	3	4	5	6	7	8
1	Deep Ploughing the plantation area to a depth of 30 cm with heavy duty tractor of 45 HP and above across the slope with mould board plough (untilled Areas) a) Ordinary / gravelly soils	02.09.01	1	3004.60	1	Ha	3004.60
2	Removing congestion of root suckers and other uprooted material hindering the effective ploughing (For Non-tilled Areas Only)	02.09.04	1	853.42	1	ha	853.42
3	Alignment and staking including laying base line for Misc species with espacement 3mX2m (1666 Nos)	02.09.06	1666	66.74	100	Nos	1111.89
4	Cost of 0.45 M Stake preparation and transportation to site.	02.09.09	1666	47.30	100	Nos	788.02
5	Digging of pits in ploughed areas in June to July by adopting of 50% of original rate of digging of pits of ordinary soils	02.09.11	1666	4.42	Pit	Each	7363.72
6	Transport of Bag plants from nursery site to plantation site including loading and unloading upto 5 Km lead 15X30cm (6"X12") bag plants	02.09.13	1666	96.79	100	Nos	1612.52
7	Transport of Bag plants from nursery site to plantation site including loading and unloading beyond 5 Km - extra for every each Km. (30 Km) 15X30cm (6"X12") bag plants	02.09.19	1666	1.69	100	Nos	844.66
8	Internal transport of bag plants/root trainers to planting points on head loads 15X30cm (6"X12") bag plants	02.09.22	1666	76.25	100	Nos	1270.33
9	Application of fertilizer after planting by making 3 holes of 10 cms depth with crow bar . 10 cms away from plant and putting fertilizers and closing	02.09.24	1666	32.62	100	Nos	543.45
10	Cost of SSO ,Chloridine dust or Chloropyrphos	02.09.25	1666				200.00
11	Planting bag plants in 45cmX45cmX45 cm pits	02.09.27	1666	363.37	100	Nos	6053.74
12	Replacement of Casualties 20% during Raising year	02.09.29	333.2	2.21	1	pit	736.37
13	Circular Weedings 1st In July- August after 1month of planting to a radius of 0.5 m. around the plant without disturbing the soil around the plant.(only one circular weeding)	02.09.31	1666	103.79	100	Nos	1729.14
14	Circular Weeding cum deep soil working to a radius of 0.5 m. and to a depth of 15 cm around the plant to be done with pick axes for the plants planted in pits without disturbing the soil around the plant to 10cm wide but weeding that part of area by hand and formation of causer in ordinary soils	02.09.32	1666	545.08	100	Nos	9081.03
15	Inter ploughing with heavy duty tractor of 45 HP to a depth of 30 cm in Hard gravelly soils in untilled areas.	02.09.33	1	2048.90	1	ha	2048.90
16	Cost of Protection	02.09.38	1	7500.00	1	Month	750.00
17	Removal of Mahaveera Weed growth (prior approval of CF/CCF)	02.09.36	1	3032.48	1	Ha	3032.48
18	Watering the plants - main rows	02.16.20	1666	539.35	100	plants	8985.57
	Unit Cost Per Ha						50010

As per FSR 2016-17

As per FSR 2017-18 (15% Escalation charges added)

As per FSR 2018-19 (15% Escalation charges added)

50010

57511

66138


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**UNIT COST FOR 1st YEAR MAINTENANCE OF C.A. PLANTATION FOR 2019 -20 UNDER
AR-SEMI MECHANICAL METHOD**

Sl.No.	Item of works proposed	FSR Code	Qty	Rate	per	Amount
1	2	3	4	5	6	7
1	Reopening of pits and casualty replacement in labour Intensive Method -during 1st year maintenance (Digging of Pits 45 Cm3 pits (In ordinary Soils June - July)	02.10.01	417	66.74	per pit	27831
2	Transporation of Planting Stock (including loading and unloading) 15 x 30 cm 6" x 12" bags plants upto 5 Km lead	02.09.13	417	96.79	100 Bags	404
3	Transporation of Planting Stock (including loading and unloading) 15 x 30 cm 6" x 12" bags plants Beyond 5 Km lead	02.09.16	417	3.38	100 Nos/Km	282
3	Internal Transporation to plantng points on head loads 15 x 30 cm 6 " x 12" bag plants	02.09.22	417	76.25	100 nos	318
	Replacement of casualties 25 % in 1st year maintenance	02.09.27	417	363.37	100 nos	1515
5	1st Circular weeding to a radius of 0.50 m around the plant during July- Aug	02.10.02	1666	103.79	100 nos	1729
7	Deep soil working to a radius of 0.5 m and to a depth of 15 cm (to be carried out during Nov-Dec)	02.10.03	1666	545.08	100 nos	9081
8	Uprootal of Mahaveera weed with prior written approval of Circle head and taking Photograph	02.10.04	1	3032.48	Ha	3032
9	InterPloughing (during September) the effective plantation area (excluding unsuitable patches)	02.10.05	1	2048.90	Ha	2049
10	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height	02.10.06	417	103.19	100 Nos	430
11	Cost of protection one watcher is allowed for 10-30 ha plantation. 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 and site is not affected with fire.	02.03.10	1	7500.00	Day	4500
12	Watering the plants - main rows	02.16.10	1666	483.4	100	8053.44
	1 Ha Unit cost for 1st Year Maintenance of 1 Ha AR- SMM					59224

As per FSR 2016-17

59224

As per FSR 2017-18 (15% Escalation charges added)

68108

As per FSR 2018-19 (15% Escalation charges added)

78324

As per FSR 2019-20 (15% Escalation charges added)

90073


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**UNIT COST FOR 2nd YEAR MAINTENANCE OF C.A. PLANTATION FOR 2020-21 UNDER
AR-SEMI MECHANICAL METHOD**

Sl.No.	Item of works proposed	FSR Code	Qty	Rate	per	Amount
1	2	3	4	5	6	7
1	a) 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)	02.11.01	1666	545.08	100/Nos	9081
2	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height	02.11.02	1666	103.19	100/Nos	1719
3	Enumaration row wise survival and average growth thrice in 2nd maintainance Year	02.11.03	To be done by the Staff with the help of Plantation watcher			
4	Creation of Fire lines 5 mts wide	04.05.08	150	6.83	P Rmt	1024.49
5	Maintenance of Fire lines 5 mtrs wide	04.05.09	150	5.05	P Rmt	757.83
6	Cost of protection one watcher is allowed for 10-30 ha plantation. Every month payment to bernade after satisfaction by plantation -in-charge that fence is in proper condition and entry of grazing animals is stopped and site is not affectd with fire. (12) months	02.03.10	12	7500	Ha	4500
7	Watering the plants - main rows	02.16.10	1666	483.4	100	8053.44
8	Miscellaneous items					164
	1 Ha Unit cost for 2nd Year Maintenance of 1 Ha AR-SMM					25300

As per FSR 2016-17	25300
As per FSR 2017-18 (15% Escalation charges added)	29095
As per FSR 2018-19 (15% Escalation charges added)	33459
As per FSR 2019-20 (15% Escalation charges added)	38478
As per FSR 2020-21 (15% Escalation charges added)	44250


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UNIT COST FOR 3rd YEAR MAINTENANCE OF C.A. PLANTATION FOR 2021-22 UNDER AR-SEMI MECHANICAL METHOD

Sl. No.	FSR item No	Nature of work	Qty	Rate	Unit	Amount	Remarks
1	02.11.01	Circular Weeding cum deep soil working to a radius of 0.5 m. and to a depth of 15 cm around the plant to be done with pick axes for the plants planted in pits without disturbing the soil around the plant to 10cm wide but weeding that part of area by hand and formation of saucer in ordinary soils. (adopt the rate as per the budget availability)	1666	545.08	100/Nos	9081.03	
2	04.05.08	Creation of Fire lines 5 mts wide	150	6.83	P Rmt	1024.49	
3	04.05.09	Maintenance of Fire lines 5 mtrs wide	150	5.05	P Rmt	757.83	
4	2.2.25	Cost of protection one watcher is allowed for 10-30 ha plantation. 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 and site is not affected with fire.	12	7500.00	1	4500.00	
5	2.3.19	Watering the plants - main rows	1666	483.4	100	8053.44	
6		Add Miscellaneous items				83.00	
		TOTAL:				23500	

**UNIT
RATE :**

23500	As per FSR 2016-17
27025	As per FSR 2017-18 (15% Escalation charges added)
31078	As per FSR 2018-19 (15% Escalation charges added)
35740	As per FSR 2019-20 (15% Escalation charges added)
41101	As per FSR 2020-21 (15% Escalation charges added)
47266	As per FSR 2021-22 (15% Escalation charges added)


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**UNIT COST FOR 4th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2022-23 UNDER
AR-SEMI MECHANICAL METHOD**

Sl. No.	FSR item No	Nature of work	Qty	Rate	Unit	Amount
1	02.11.01	Circular Weeding cum deep soil working to a radius of 0.5 m. and to a depth of 15 cm around the plant to be done with pick axes for the plants planted in pits without disturbing the soil around the plant to 10cm wide but weeding that part of area by hand and formation of saucer in ordinary soils. (adopt the rate as per the budget availability)	1666	545.08	100/Nos	9081.03
2	04.05.08	Creation of Fire lines 5 mts wide	150	6.83	P Rmt	1024.49
3	04.05.09	Maintenance of Fire lines 5 mtrs wide	150	5.05	P Rmt	757.83
4	2.2.25	Cost of protection one watcher is allowed for 10-30 ha plantation. 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 and site is not affected with fire.	12	7500.00	1	4500.00
5	2.3.19	Watering the plants - main rows	1666	483.4	100	8053.44
6		Add Miscellaneous items				83.00
		TOTAL:				23500

UNIT RATE :

23500	As per FSR 2016-17
27025	As per FSR 2017-18 (15% Escalation charges added)
31078	As per FSR 2018-19 (15% Escalation charges added)
35740	As per FSR 2019-20 (15% Escalation charges added)
41101	As per FSR 2020-21 (15% Escalation charges added)
47266	As per FSR 2021-22 (15% Escalation charges added)
54356	As per FSR 2022-23 (15% Escalation charges added)


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**UNIT COST FOR 5th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2023-24 UNDER
AR-SEMI MECHANICAL METHOD**

Sl. No.	FSR item No	Nature of work	Qty	Rate	Unit	Amount
1	02.11.01	Circular Weeding cum deep soil working to a radius of 0.5 m. and to a depth of 15 cm around the plant to be done with pick axes for the plants planted in pits without disturbing the soil around the plant to 10cm wide but weeding that part of area by hand and formation of saucer in ordinary soils. (adopt the rate as per the budget availability)	1666	545.08	100/Nos	9081.03
2	04.05.08	Creation of Fire lines 5 mts wide	150	6.83	P Rmt	1024.49
3	04.05.09	Maintenance of Fire lines 5 mtrs wide	150	5.05	P Rmt	757.83
4	2.2.25	Cost of protection one watcher is allowed for 10-30 ha plantation. 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 and site is not affected with fire.	12	7500.00	1	4500.00
5		Add Miscellaneous items				137.00
		TOTAL:				15500

UNIT RATE :

15500	As per FSR 2016-17
17825	As per FSR 2017-18 (15% Escalation charges added)
20499	As per FSR 2018-19 (15% Escalation charges added)
23574	As per FSR 2019-20 (15% Escalation charges added)
27110	As per FSR 2020-21 (15% Escalation charges added)
31177	As per FSR 2021-22 (15% Escalation charges added)
35853	As per FSR 2022-23 (15% Escalation charges added)
41231	As per FSR 2023-24 (15% Escalation charges added)


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**UNIT COST FOR 6th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2024-25 UNDER
AR-SEMI MECHANICAL METHOD**

Sl. No.	FSR item No	Nature of work	Qty	Rate	Unit	Amount
1	04.05.08	Creation of Fire lines 5 mts wide	150	6.83	P Rmt	1024.49
2	04.05.09	Maintenance of Fire lines 5 mtrs wide	150	5.05	P Rmt	757.83
3	2.2.25	Cost of protection one watcher is allowed for 10-30 ha plantation. 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 and site is not affected with fire.	12	7500.00	1	4500.00
4		Add Miscellaneous items				118.00
		TOTAL:				6400

UNIT RATE :

6400	As per FSR 2016-17
7360	As per FSR 2017-18 (15% Escalation charges added)
8464	As per FSR 2018-19 (15% Escalation charges added)
9734	As per FSR 2019-20 (15% Escalation charges added)
11194	As per FSR 2020-21 (15% Escalation charges added)
12873	As per FSR 2021-22 (15% Escalation charges added)
14804	As per FSR 2022-23 (15% Escalation charges added)
17025	As per FSR 2023-24 (15% Escalation charges added)
19579	As per FSR 2024-25 (15% Escalation charges added)


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**UNIT COST FOR 7th YEAR MAINTENANCE OF C.A. PLANTATION FOR 2025-26 UNDER
AR-SEMI MECHANICAL METHOD**

Sl. No.	FSR item No	Nature of work	Qty	Rate	Unit	Amount
1	04.05.08	Creation of Fire lines 5 mts wide	150	6.83	P Rmt	1024.49
2	04.05.09	Maintenance of Fire lines 5 mtrs wide	150	5.05	P Rmt	757.83
3	2.2.25	Cost of protection one watcher is allowed for 10-30 ha plantation. 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 and site is not affected with fire.	12	7500.00	1	4500.00
4		Add Miscellaneous items				118.00
		TOTAL:				6400

UNIT RATE :

6400	As per FSR 2016-17
7360	As per FSR 2017-18 (15% Escalation charges added)
8464	As per FSR 2018-19 (15% Escalation charges added)
9734	As per FSR 2019-20 (15% Escalation charges added)
11194	As per FSR 2020-21 (15% Escalation charges added)
12873	As per FSR 2021-22 (15% Escalation charges added)
14804	As per FSR 2022-23 (15% Escalation charges added)
17025	As per FSR 2023-24 (15% Escalation charges added)
19579	As per FSR 2024-25 (15% Escalation charges added)
22516	As per FSR 2025-26 (15% Escalation charges added)


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