

RAISING OF 1 KM AVENUE PLANTATION FOR THE YEAR 2018-19

Sl. No.	Item of work	FSR ZONE III 2018-19FSR No.	Qty	Rate	Single Row plantatiin	
					Unit	Amount
1	2	3	4	5	6	7
	AVENUE PLANTATION					
1	Preparation of site by clearing unwanted growth to width of 3 m on each side in the planting row parallel to the road (equals to 0.6 ha clearance per km road length). The GPS surveyed stretch of avenue plantation with effective length and number of planting points will be uploaded in PMIS module by end of January	02.15.01	1	1703.00	1 km	1703
2	Alignment and staking including cost of 45cm long stakes	02.15.02	200	66.04	100 Nos	132
3	Digging of pits is to be done preferably by machine by calling tenders and an inspection report regarding the correctness of the pit shall be submitted by FRO to DFO concerned. The pit sizes for Avenue Plantations are 60 cm ³ /100 cm ³ .	02.15.03				
	a-ii) 60 cm ³ size (0.216 cum) in hard gravelly and moram Soil (Manual)		200	44.03	Per pit	8806
4	Transportation of planting stock i) 20x30 cm (8"x12") bag plants upto 5 km	2.15.04	220	190.84	100 Nos	420
	(b) 25 x 40 cm (10"x16") bag plants		220	394.17	100 No/KM	867
5	For every extra km beyond 5 km upto 25km a) 20x30cm (8"x12") bag plants (20 Km)	2.15.05	220	7.43	100 No/KM	327
	(b) 25 x 40 cm (10"x16") bag plants		220	15.46	100 Nos /Km	680
6	Internal transportation within the linear distance of plantation site a) 20x30cm (8"x12") bag plants	2.15.07	220	189.34	100 No./KM	417
	(b) 25 x 40 cm (10"x16") bag plants		220	413.89	100 No./KM	911
	PLANTING - Treatment plan , i.e., planting design with species of particular colour, stretch - wise (keeping in view the effective length), will be approved by Circle Head before December, Minimum height of the plants to be planted in 1.5m height (excluding the height of bags) which is mandatory. Accordingly, plants of selected species as per plan are to be segregated in nearby Nursery latest by January and specially looked after till planting. Planting shall be done during June keeping in view the provision of frequent watering immediately after planting so that plants get full advantage of rains in July and August.					
7	Application of 100 gm of superphosphate and 100 gm of chloridine dust per pit at the time of planting	02.15.09			To be done by plantation watcher	0
8	Cost of superphosphate and chloridine dust	02.15.08			As per actuals	5000
9	Cost of supporting stake of 6 feet long, sturdy and straight and minimum 10cm girth (if not supplied by Dept)	2.15.10	200	1500	100 No	3000

Sl. No.	Item of work	FSR ZONE III 2018-19FSR No.	Qty	Rate	Unit	Amount
1	2	3	4	5	6	7
10	Cost and transporation of self supporting HDPE ree guads asper the Specification communicated by the PCCF, Rc.No.7415/2017/SF-2, dt.09.05.2017	02.15.13	200	180	Each	36000
11	PLANTING WITH HDPE SELF SUPPORTING TREE GUARD: Folding the Self supporting HDPE tree guard, fixing the bamboo stake near the center of the pit with crowbar (stake must be erected inside the crowbar hole to a depth of not less than 15 cms and tightly packed with small stones at the bottom), putting the seedlings in the center of the pit, application of 100 gms of single superphosphate and 100 gms of chloridine dust in the pit, carefully placing the HDPE tree guard in the pit before filling pit, tying the plant with stake at two places, filling the pit with dug up soil in such a way that the HDPE tree guard is not damaged or twisted and forming saucers with the dimensions as given below around the plant and tree guard	02.15.14				
	a) for 60 cm ³ pit with saucer of 0.50 m radius		200	2912	100 No	5824
12	Cost and application of 1/2 cft FYM per plant - 1 month after planting.	2.15.12	200	1800	100 No	3600
13	WATERING - To be done through tractor-fitted water tanker (preferably by calling tender) with benchmark for survival (90%) and average incremental growth of 1.0 m by end of raising year (i.e. 3.0 m height by end of March of raising year) - irrespective of plantation raised departmentally or through contractor by tender process. Minimum of 15 liter per plant with a Water Tanker -Staff will locate the casualty points under casualty replacement process, if any, and keep the pits ready for replacement before watering, so that the fresh tall plants get established easily. The Plantation-in-charge Officer should record the watering operation in Watering Watch Register and M-Book on the same day of watering.	02.15.15				
	One watering on the day of planting : 1 watering					
	One watering every week after planting (July) : 4 waterings					
	August to December - once in 15 days: 10 waterings					
	January to March - 4 waterings per month: 12 waterings					
	Total waterings upto March: 24 waterings					
	Watering the plants - Main rows		200	650.00	100 plants / watering	31200
14	Application of inorganic fertilizers like 25 gms of urea (2 month after planting) and 50 gms of DAP (4 months after planting). Fertilizer application shall be made by making 3 holes of 10 cm depth with crow bar at a distance of 20 cm away from plant and putting ferilizer and closing. This work needs to be monitored by Plantation-In-charge Officer at the time of application and needs to be entered in Plantation Journal.	02.15.18	200	199.96	100 Nos/ 2 times	800

Sl. No.	Item of work	FSR ZONE III 2018-19FSR No.	Qty	Rate	Unit	Amount
1	2	3	4	5	6	7
15	Cost of above inorganic fertilizers	02.15.19			As per actual	5000
16	Weeding and forming of saucer(two times - 1st in January / July & 2nd in September)	02.15.20	200	415.25	100 No. / Time	1661
17	Replacement of casualties (10% -since watering provision is provided) including opening of pit, internal transportation, planting and refixing the fence.	02.15.21	20	2912.00	100 Nos	582
18	Pruning of lower branch initials upto 1/3 rd height (to be done during October).	02.15.22	200	112.68	100 Nos	225
19	Clearing unwanted growth to a width of 3 m on both sides paralld to the road (to be done during Nov - Dec) which will create a fireline preventing spread of ground fire from adjacent agricultural field.	02.15.23	5	1132.72	Km	5664
20	Cost of Protection: No plantation watcher for less than 2 Kms plantation length, One Plantation Watcher for first 2 to 4 km effective length and thereafter one for every 4 km. Raising Year: 3 months for January Planting and 9 months for June-July planting ;Photo identity of every each Plantation Watchers with the address shall be pasted in respective Plantation Journal.Every month, payment to Plantation Watcher will be made aftersatisfaction by Plantation-in-charge that fence is in proper condition, the casualties are located and replaced and damage to the plants either from fire or cattle does not occur. The guiding principle for continuation of the services of a Plantation Watcher is at least 90% survival at the end.of raising year.	02.15.25	9	8340	Per month per watcher	18765
21	Cycle Allowance for Plantation Watcher from date of planting to end of financial year	02.15.26	274	4.78	Per day	1310
22	CONTINGENCIES: Plantation Boards, buckets and other expenses (as per actuals subject to maximum of 3% of the total estimate)	02.15.273				4684
23	Cost of tall Plants		200	100	Each	20000
	Total					157577

1.5758

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1st YEAR MAINTENANCE OF 1 KM SINGLE ROW AVENUE PLANTATION FOR THE YEAR 2018-19

Sl. No.	FSR ZONE III 2018-19 FSR No.	Item of work	Unit	Rate	20% agency	Total Rate	Qty	Amount
1	2	3	4	5	6	7	8	9
		AVENUE PLANTATION						
1	02.16.01	Cost of supporting stake of 2.5 mtr long, sturdy and straight and minimum 10cm girth at the base (if bamboos are not supplied by Dept) for the Casualties replaced, ie upto 10% maximum	100 Nos	1500	300.00	1800	20	4500
2	02.16.02	Replacement of casualties (10% -since watering provision is provided) including opening of pit, internal transportation, planting and refixing the HDPE self supporting tree guard in.	100 Nos	2912.00	582.40	3494.40	20	699
3	02.16.04	2 Circular Weedings and formation of saucers to a radius of 0.5 m around the plant (two times - 1st in June-July & 2nd in September-October)	100 No. / Time	415.25	83.05	498.30	200	1993
4	02.16.05	Pruning of lower branch initials upto 1/3 rd height (to be done during October)	100 Nos	112.68	22.54	135.22	200	270
5	02.16.06	<p>WATERING - To be done through tractor fitted water tanker (preferably by calling tender) with benchmark for survival (90%) and average incremental growth of 1.0m by end of 1st year maintainance (i.e., 3.5m height at the end of 1st year maint.period) - irrespective of departmentally carried out or executed through contractor by tender. Minimum of 15 liter per plant with a Water tanker -plantation-in-charge officer along with plantation watcher will locate the casualty points under casualty replacement process, if any, and keep the pits ready for replacement before watering,so that plants get established easily. The plantation-in-charge officer should record the watering operation in watering watch Register and M-Book on the same day of watering.</p> <p>April to June -4 Waterings/ month: 12 Waterings</p> <p>July to September - One watering per month on non rainy days : 3 Waterings</p> <p>Oct. to December- 2 waterings/ month : 6 waterings</p> <p>January to March - 3 watering per month : 9 waterings</p> <p>Total watering April to March : 30 waterings</p>						
		Watering the plants - Main rows	100 plants / watering	650	130.00	780.00	200	42120
6	02.16.07	Cost of above inorganic fertilizers	As per actual					8000
7	02.16.08	Application of inorganic fertilizers like 200 gms of DAP per plant in the month of split doses (in the month of July and October @ 100gm/time per plant)- Fertilizer application to be done at the time of watering by making 3 holes of 10cm depth with crow bar holes at a distance of 20cm away from plant and putting fertilizer and closing. This work needs to be monitored by plantation-in-charge officer at the time of application and needs to be entered in plantation journal.	100 Nos/ times	199.96	39.99	239.95	200	960

Sl. No.	FSR ZONE III 2018-19 FSR No.	Item of work	Unit	Rate	20% agency	Total Rate	Qty	Amount
1	2	3	4	5	6	7	8	9
8	02.16.09	Clearing unwanted growth to a width of 3 m on both sides paralld to the road (to be done during Nov - Dec) which will create a fireline preventing spread of ground fire from adjacent agricultural field.	1 km	1132.72	226.54	1359.26	1	3398
9	02.15.23	Cost of protection : No plantation watcher for less than 2Kms plantation lenth, One plantation watcher for first 2 to 4 km effective length and thereadfter one for every 4 km 12 months from April to March. However, Identity Photo of Watchers with address shall be pasted in respective plantation journal. Every month payment to plantation watcher be made after satisfaction by plantation-in-charge Officer that fence is in proper condition, the casualties are located and replaced and damage to the plants from fire and cattle does not occur. The guidling principle for continuation of the services of a plantation watcher is at least 90% survival during 1st year maintainance period.	Per month per watcher	8340	1668.00	10008.00	12	120096
10	02.15.24	Cycle allowance for plantation watcher	Per day	4.78	0.00	4.78	365	1745
11	02.15.25	CONTINGENCIES : (as per actuals subject to maximum of 3% of the total estimate)						10550
		Total						194331

1.9433


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ESTIMATE FOR 2nd YEAR MAINTENANCE OF 1 KM (SINGLE ROW) AVENUE PLANTATION

S. No	Item Name	FSR	Qty	Rate	Per	Amount
1	2	3	4	5	6	8
1	Watering the plants - Main rows (4) watering per month (1560 plants) April 2018 - (4) waterings per month May 2018 to June 2018 - (3) waterings per month 1600 Plants x4 watering x 1 months = 6400 (April 2018) 1600 plants x 3 watering x 2 months =9600 May 2018 to June 2018) Total 1600	02.17.01	16000	650	100	104000
2	Cost of protection : One plantation watcher for every 4 Km effective length and thereafter one for every 4 Km 2nd year : 6 months (April 2018 to September 2018)	02.17.04	12	8340	1	100080
3	Typing of 5 prosopis thorny twigs of 3' upto breast height of plant at two places during July - August including cost and transport of thorny material to site. However, this provision can be utilized for such number of plants which have got clean stem of 8 feet or more. This operation need to be done during August September before the provision of plantation Watcher is withdrawn. A stretch-wise report indicating the number of plants for which this operation can be carried out will be submitted by DFO to Circle head and with written approval, the work can be undertaken	2.17.03	1600	1123	100	17971
4	Contingencies : Pipes and other expenses (as per actuals subject to maximum of 3% of the total estimate)	As per actual				4889
Total						226940

2.269


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