

Raising of 0.375 Ha BHA plantation in Raigiri II degraded Reserve Forest in Yadadri Bhuvanagiri District  
(In lieu of diversion of 0.9714 Ha Forest land in Raigiri-II R.F for establishment of APCO 25 tower for Phase-II network in Greater Hyderabad Police commissionerates in Yadadri Bhuvanagiri District in favour of Commissioner of Police, Rachakonda commissionerate)

(Fin: Rupees in lakhs)

Sl. No	Item of Work	Unit	2022 - 23			2023 - 24			2024 - 25			2025 - 26			2026 - 27			2027 - 28		
			Phy	Unit Cost	Fin	Phy	Unit Cost	Fin	Phy	Unit Cost	Fin	Phy	Unit Cost	Fin	Phy	Unit Cost	Fin	Phy	Unit Cost	Fin
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
<b>I</b>	<b>Planting activities (Baren Hill Afforestation) 150 plants</b>																			
1	Advance cum raising	Ha	0.375	0.867	0.325															
2	1st Year Maintenance	Ha				0.375	0.182	0.068												
3	2nd Year Maintenance	Ha							0.375	0.124	0.047									
4	3rd Year Maintenance	Ha										0.375	0.059	0.022						
5	4th Year Maintenance	Ha													0.375	0.063	0.024			
6	5th Year Maintenance	Ha																0.375	0.067	0.025
7	6th Year Maintenance	Ha																		
8	7th Year Maintenance	Ha																		
9	8th Year Maintenance	Ha																		
10	9th Year Maintenance	Ha																		
11	10th Year Maintenance	Ha																		
	<b>Sub Total:</b>				0.325			0.068			0.047			0.022			0.024			0.025
<b>II</b>	<b>Administrative Cost - 10%</b>				0.033			0.007			0.005			0.002			0.002			0.003
	<b>Total year wise outlay of the project</b>				0.358			0.075			0.052			0.024			0.026			0.028

(In lieu of diversion of 0.9714 Ha Forest I

Sl. No	Item of Work	2028 - 29			2029 - 30			2030 - 31			2031 - 32			2032 - 33			Grand Total	
		Phy	Unit Cost	Fin	Phy	Unit Cost	Fin	Phy	Unit Cost	Fin	Phy	Unit Cost	Fin	Phy	Unit Cost	Fin	Phy	Fin
1	2	22	23	24	25	26	27	28	29	30	31	32	33	31	32	33	37	38
I	Planting activities (Baren Hill Afforestation) 150 plants																	
1	Advance cum raising																0.375	0.325
2	1st Year Maintenance																0.375	0.068
3	2nd Year Maintenance																0.375	0.047
4	3rd Year Maintenance																0.375	0.022
5	4th Year Maintenance																0.375	0.024
6	5th Year Maintenance																0.375	0.025
7	6th Year Maintenance	0.375	0.026	0.010													0.375	0.010
8	7th Year Maintenance				0.375	0.027	0.010										0.375	0.010
9	8th Year Maintenance							0.375	0.0195	0.007							0.375	0.007
10	9th Year Maintenance										0.375	0.0206	0.008				0.375	0.008
11	10th Year Maintenance													0.375	0.0219	0.008	0.375	0.008
	Sub Total:			0.010			0.010			0.007			0.008			0.008	0.375	0.554
II	Administrative Cost - 10%			0.001			0.001			0.001			0.001			0.001	L.S	0.055
	Total year wise outlay of the project			0.011			0.011			0.008			0.009			0.009		0.609

District Forest Officer  
Yadadri Bhuvanagiri

**Unit cost estimate for advance cum raising of 0.38 Ha BHA Plantation (@ 400 plants/ Ha in gaps) 2021-2022**

Sl.No	FSR Item No.	Item of work	Units	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	As per actuals	Cost of plants of 8"X12" size bag plants including transportation upto planting site (including 10% casualties)	Nos	400	90.00	1	36000
2	02.15.03	Digging of pits 60 cm <sup>3</sup> manually and an inspection report regarding the correctness of the pit shall be submitted by FRO to DFO concerned. During June-July i) 60 cm <sup>3</sup> size (0.216 cum) in Ordinary Soil (Manual)	Nos	400	47.29	1	18917
3	02.18.10	Internal transport of bag plants to planting points on head loads. 20 X 30 cm (8"X12") bag plants	Nos	400	156.67	100	627
4	02.19.01	Application of 50gm of SSP per pit (1 day before planting) for root growth and early establishment of plant after planting.	Nos	400	43.29	100	173
5	02.19.02	Cost of SSP, Chloridine dust (50gm) or Chloropyriphos	Nos	400	0.50	1	200
6	02.19.03	Planting in 60 cm <sup>3</sup> pit	Nos	400	1070.40	100	4282
7	02.19.05	<b>Watering (one time) immediately after planting if the planting takes place on a non-rainy days and during dry spell</b>					
	a)	One critical watering after planting if	Nos	400	292.02	100	1168
	b)	2 <sup>nd</sup> watering if dry spell is more than 5-6	Nos	400	292.02	100	1168
8	02.20.05	Watering (9 waterings) during summer season from Jan to March @ 2 waterings / month	Nos	400	2628.18	100	10513
9	02.20.06	<b>Replacement of Casualties:</b> 10% during Raising Year . The casualty replacement should be done in 3 stages at an interval of 15 days immediately after planting during raising year.	50% of unit rate of original pitting during raising year and 100% during maint. year. Planting, transportation and internal transportation same				
10	02.15.03	60 cm cube size in hard gravelly and moram Soil (Manual)	Each	40	23.65	Each	946
11		Internal transportation	Nos	40	156.67	100	63
12		Planting in 60 cm <sup>3</sup> pit	Nos	40	1070.40	100	428
	02.20.07	<b>Application of fertilizer</b>					
13		(a) Cost of DAP @ 25gm/planting point	Nos	400	0.70	1	280
14	02.19.07 b)	(b) Application of fertilizer in August (30days after planting) by making 3 holes of 10cm depth with crow bar holes at a distance of 10cm away from plant and putting fertilizers and closing.	Nos	400	43.29	100	173

Sl.No	FSR Item No.	Item of work	Units	Qty	Rate (Rs.)	Per	Amount (Rs.)
15		<b>Weeding &amp; Soil working</b>					
	02.19.08	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	Nos	400	137.76	100	551
16	02.19.09	Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)	Nos	400	137.76	100	551
20	02.20.10	Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging plant (to be carried out during Nov - Dec) (b) For hard gravelly soil					
		(b) For hard gravelly soil	Nos	400	723.51	100	2894
21	02.19.12	<b>Pruning of lower branch initials</b> by scicature upto 1/3 rd height (to be undertaken during October)	Nos	400	137.00	100	548
22	02.19.16	<b>Contingencies provision for Raising of Plantations:</b>					
		ii) Contingencies and Miscellaneous (with in 5% of the estimate cost subject to ceiling of Rs. 5,000/-)			with in 5% of the estimate cost subject to ceiling of Rs. 5,000/-		3098
		<b>Total</b>					82580
					Unit Rate for 2022-2023		<b>86709</b>

  
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**Unit cost estimate for 1 year maint of 0.38 Ha BHA Plantation (@ 400 plants/ Ha in gaps) 2021-22**

Sl.No	F.R Item No.	Item of work	Unit	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	02.20.01	<b>Replacement of Casualties:</b> 20% in 1st year. The list of all casualty points shall be prepared by concerned FRO and made a report to DFO latest by end of May. The pitting of all such casualty points shall be over by the end of June. The replacement of casualties shall be completed by 15th of July.	Pitting, planting, transportation and internal transportation same as prescribed in fresh planting of the raising year				
2	As per actuals	Cost of plants of 8"X12" size bag plants including transportation upto planting site (including 20% casualties)	Nos	80	90.00	Each	7200
3	02.15.03	Digging of pits 60 cm <sup>3</sup> manually and an inspection report regarding the correctness of the pit shall be submitted by FRO to DFO concerned.	Nos	80	47.29	Each	3783
4	02.18.10	Internal transport of bag plants to planting points on head loads. 20 X 30 cm (8"X12") bag plants	Nos	80	156.67	100	125
5	02.20.02	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting	Nos	400	137.76	100	551
6	02.20.03	Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)	Nos	400	137.76	100	551
7	02.20.04	Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)					
		(b) For hard gravelly soil	Nos	400	723.51	100	2894
8	02.20.05	Pruning of lower branch initials by scicature upto 1/3 rd height (to be undertaken during October)	Nos	400	137.00	100	548
9	02.20.08	<b>Contingencies provision for maintainence of plantaitons:</b>					
		ii) Contingencies and Miscellaneous (with in 3% of the estimate cost subject to ceiling of Rs. 3,000/-)					550
		<b>Total:</b>					16202
Unit Rate for 2022 -23							17175.00
Unit Rate for 2023 -24							18206.00

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**Unit cost estimate for II year maint of 0.38 Ha BHA Plantation (@ 400 plants/ Ha in gaps) 2021-22**

Sl.No	FS Item No.	Item of work	Unit	Qty	Rate (Rs.)	Per	Amount (Rs.)
	<b>02.20.01</b>	<b>Replacement of Casualties:</b> 10% in 1st year. The list of all casualty points shall be prepared by concerned FRO and made a report to DFO latest by end of May. The pitting of all such casualty points shall be over by the end of June. The replacement of casualties shall be completed by 15th of July.	Pitting, planting, transportation and internal transportation same as prescribed in fresh planting of the raising year				
1	As per actuals	Cost of plants of 8"X12" size bag plants including transportation upto planting site (including 20% casualties)	Nos	40	90.00	Each	3600
2	02.15.03	Digging of pits 60 cm <sup>3</sup> manually and an inspection report regarding the correctness of the pit shall be submitted by FRO to DFO concerned.	Nos	40	47.29	Each	1892
3	02.18.10	Internal transport of bag plants to planting points on head loads. 20 X 30 cm (8"X12") bag plants	Nos	40	156.67	100	63
4	<b>02.20.02</b>	<i>Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting</i>	Nos	400	137.76	100	551
5	<b>02.20.03</b>	Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)	Nos	400	137.76	100	551
6	<b>02.20.04</b>	Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)					
		(b) For hard gravelly soil	Nos	400	723.51	100	2894
7	<b>02.20.05</b>	<b>Pruning of lower branch initials</b> by scicature upto 1/3 rd height (to be undertaken during October)	Nos	400	137.00	100	548
8	<b>02.20.08</b>	<b>Contingencies provision for maintainence of plantaitons:</b>					
		ii) Contingencies and Miscellaneous (with in 3% of the estimate cost subject to ceiling of Rs. 3,000/-)					350
		<b>Total:</b>					<b>10449</b>
Unit Rate for 2022 -23							<b>11076.00</b>
Unit Rate for 2023 -24							<b>11741.00</b>
Unit Rate for 2024-25							<b>12445.00</b>

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**Unit cost estimate for III year maint of 0.38 Ha BHA Plantation (@ 400 plants/ Ha in gaps) 2021-22**

Sl.No	FSR Item No.	Item of work	Unit	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	02.20.02	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting	Nos	400	137.76	100	551
2	02.20.03	Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)	Nos	400	137.76	100	551
3	02.20.04	Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)					
		(b) For hard gravelly soil	Nos	400	723.51	100	2894
4	02.20.05	Pruning of lower branch initials by scicature upto 1/3 rd height (to be undertaken during October)	Nos	400	137.00	100	548
5	02.20.08	Contingencies provision for maintainence of plantaitons:					
		ii) Contingencies and Miscellaneous (with in 3% of the estimate cost subject to ceiling of Rs. 3,000/-)					150
		<b>Total:</b>					<b>4694</b>
Unit Rate for 2022 -23							<b>4976.00</b>
Unit Rate for 2023-24							<b>5275.00</b>
Unit Rate for 2024-25							<b>5592.00</b>
Unit Rate for 2025-26							<b>5928.00</b>

  
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**Unit cost estimate for IV year maint of 0.38 Ha BHA Plantation (@ 400 plants/ Ha in gaps) 2021-22**


Sl.No	PR Item No.	Item of work	Unit	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	02.20.02	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	Nos	400	137.76	100	551
2	02.20.03	Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)	Nos	400	137.76	100	551
3	02.20.04	Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)					
		(b) For hard gravelly soil	Nos	400	723.51	100	2894
4	02.20.05	Pruning of lower branch initials by scicature upto 1/3 rd height (to be undertaken during October)	Nos	400	137.00	100	548
5	02.20.08	Contingencies provision for maintainence of plantaitons:					
		ii) Contingencies and Miscellaneous (with in 3% of the estimate cost subject to ceiling of Rs. 3,000/-)					150
		<b>Total:</b>					<b>4694</b>
Unit Rate for 2022 -23							<b>4976.00</b>
Unit Rate for 2023-24							<b>5275.00</b>
Unit Rate for 2024-25							<b>5592.00</b>
Unit Rate for 2025-26							<b>5928.00</b>
Unit Rate for 2026-27							<b>6284.00</b>

  
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**Unit cost estimate for V year maint of 0.38 Ha BHA Plantation (@ 400 plants/ Ha in gaps) 2021-22**

Sl.No	FSR Item No.	Item of work	Unit	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	02.20.02	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	Nos	400	137.76	100	551
2	02.20.03	Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)	Nos	400	137.76	100	551
3	02.20.04	Deep soil working to a radius of 0.5 m and to a depth of 10 cm (to be done by pick-axe only) without damaging the plant (to be carried out during Nov - Dec)					
		(b) For hard gravelly soil	Nos	400	723.51	100	2894
4	02.20.05	Pruning of lower branch initials by scicature upto 1/3 rd height (to be undertaken during October)	Nos	400	137.00	100	548
5	02.20.08	Contingencies provision for maintainence of plantaitons:					
		ii) Contingencies and Miscellaneous (with in 3% of the estimate cost subject to ceiling of Rs. 3,000/-)					150
		<b>Total:</b>					<b>4694</b>
Unit Rate for 2022 -23							<b>4976</b>
Unit Rate for 2023-24							<b>5275</b>
Unit Rate for 2024-25							<b>5592</b>
Unit Rate for 2025-26							<b>5928</b>
Unit Rate for 2026-27							<b>6284</b>
Unit Rate for 2027-28							<b>6661</b>

  
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**Unit cost estimate for VI year maint of 0.38 Ha BHA Plantation (@ 400 plants/ Ha in gaps) 2021-22**

Sl.No	ESR Item No.	Item of work	Unit	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	02.20.02	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	Nos	400	137.76	100	551
2	02.20.03	Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)	Nos	400	137.76	100	551
3	02.20.05	Pruning of lower branch initials by scicature upto 1/3 rd height (to be undertaken during October)	Nos	400	137.00	100	548
4	02.20.08	Contingencies provision for maintainence of plantaitons:					
		ii) Contingencies and Miscellaneous (with in 3% of the estimate cost subject to ceiling of Rs. 3,000/-)					70
		<b>Total:</b>					<b>1720</b>
Unit Rate for 2022 -23							<b>1823</b>
Unit Rate for 2023-24							<b>1932</b>
Unit Rate for 2024-25							<b>2048</b>
Unit Rate for 2025-26							<b>2171</b>
Unit Rate for 2026-27							<b>2301</b>
Unit Rate for 2027-28							<b>2439</b>
Unit Rate for 2028-29							<b>2585</b>

  
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**Unit cost estimate for VII year maint of 0.38 Ha BHA Plantation (@ 400 plants/ Ha in gaps) 2021-22**

Sl.No	FSR Item No.	Item of work	Unit	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	02.20.02	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	Nos	400	137.76	100	551
2	02.20.03	Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)	Nos	400	137.76	100	551
3	02.20.05	Pruning of lower branch initials by scicature upto 1/3 rd height (to be undertaken during October)	Nos	400	137.00	100	548
4	02.20.08	Contingencies provision for maintainence of plantaitons:					
		ii) Contingencies and Miscellaneous (with in 3% of the estimate cost subject to ceiling of Rs. 3,000/-)					70
		<b>Total:</b>					<b>1720</b>
Unit Rate for 2022 -23							<b>1823</b>
Unit Rate for 2023-24							<b>1932</b>
Unit Rate for 2024-25							<b>2048</b>
Unit Rate for 2025-26							<b>2171</b>
Unit Rate for 2026-27							<b>2301</b>
Unit Rate for 2027-28							<b>2439</b>
Unit Rate for 2028-29							<b>2585</b>
Unit Rate for 2029-30							<b>2740</b>

  
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**Unit cost estimate for VIII year maint of 0.38 Ha BHA Plantation (@ 400 plants/ Ha in gaps) 2021-22**


Sl.No	FSR Item No.	Item of work	Unit	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	02.20.02	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	Nos	400	137.76	100	551
2	02.20.03	Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)	Nos	400	137.76	100	551
3	02.20.08	<b>Contingencies provision for maintainence of plantaitons:</b>					
		ii) Contingencies and Miscellaneous (with in 3% of the estimate cost subject to ceiling of Rs. 3,000/-)					50
		<b>Total:</b>					<b>1152</b>
Unit Rate for 2022 -23							<b>1221</b>
Unit Rate for 2023-24							<b>1294</b>
Unit Rate for 2024-25							<b>1372</b>
Unit Rate for 2025-26							<b>1454</b>
Unit Rate for 2026-27							<b>1541</b>
Unit Rate for 2027-28							<b>1633</b>
Unit Rate for 2028-29							<b>1731</b>
Unit Rate for 2029-30							<b>1835</b>
Unit Rate for 2030-31							<b>1945</b>

  
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**Unit cost estimate for IX year maint of 0.38 Ha BHA Plantation (@ 400 plants/ Ha in gaps) 2021-22**

SL.No	FSR Item No.	Item of work	Unit	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	02.20.02	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	Nos	400	137.76	100	551
2	02.20.03	Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)	Nos	400	137.76	100	551
3	02.20.08	<b>Contingencies provision for maintainence of plantaitons:</b>					
		ii) Contingencies and Miscellaneous (with in 3% of the estimate cost subject to ceiling of Rs. 3,000/-)					50
							<b>1152</b>
Unit Rate for 2022 -23							<b>1221</b>
Unit Rate for 2023-24							<b>1294</b>
Unit Rate for 2024-25							<b>1372</b>
Unit Rate for 2025-26							<b>1454</b>
Unit Rate for 2026-27							<b>1541</b>
Unit Rate for 2027-28							<b>1633</b>
Unit Rate for 2028-29							<b>1731</b>
Unit Rate for 2029-30							<b>1835</b>
Unit Rate for 2030-31							<b>1945</b>
Unit Rate for 2031-32							<b>2062</b>

  
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**Unit cost estimate for X year maint of 0.38 Ha BHA Plantation (@ 400 plants/ Ha in gaps) 2021-22**

Sl.No	SR Item No.	Item of work	Unit	Qty	Rate (Rs.)	Per	Amount (Rs.)
1	02.20.02	Weeding and saucer formation to a radius of 0.5 mts around the plant immediately after planting (i.e) during June.	Nos	400	137.76	100	551
2	02.20.03	Circular weeding to a radius of 0.50 m around the plant (i.e. Aug - Sept)	Nos	400	137.76	100	551
3	02.20.08	<b>Contingencies provision for maintainence of plantaitons:</b>					
		ii) Contingencies and Miscellaneous (with in 3% of the estimate cost subject to ceiling of Rs. 3,000/-)					50
							<b>1152</b>
Unit Rate for 2022 -23							<b>1221</b>
Unit Rate for 2023-24							<b>1294</b>
Unit Rate for 2024-25							<b>1372</b>
Unit Rate for 2025-26							<b>1454</b>
Unit Rate for 2026-27							<b>1541</b>
Unit Rate for 2027-28							<b>1633</b>
Unit Rate for 2028-29							<b>1731</b>
Unit Rate for 2029-30							<b>1835</b>
Unit Rate for 2030-31							<b>1945</b>
Unit Rate for 2031-32							<b>2062</b>
Unit Rate for 2032-33							<b>2186</b>

  
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