

**Unit Cost for Maintenance of 20,000 Bamboo/Misc. Species seedlings in ( 8" X 12" ) Size Bags for utilizing in 2017 planting  
(April to March)**

As per FSR 2015-16

Sl. No	Items of works	F.S.R. Item	Qty	Rate in Rs.	Per	Amount in Rs.
1	2	3	4	5	6	7
	<b>20000/800 bags=25 Beds</b>					
1	site preparation	01.03.01	1	42.1	1	42
	20 cm X 30 cm (8" X 12") (3.82-0.56) cum. Conversion from root trainers/ 4" 7" bags to 8" X 12".	01.03.07	20000	665.20	1000	13304
	Alignment of beds including alignment of inspection path etc..	01.03.10	25	6.10	1 bed	153
	*Preparation of potting mixture Red Soil : Tank Silt/Clayey Soil : FYM/Vermicompost: Sand in 2:1:1:1 ratio by powdering of various ingredients, sieving and mixing them in the prescribed proportion. Opening the bags and filling with potting mixture and gently pressing the same with finger tips and arranging in beds.					
	20 cm X 30 cm (8" X 12") (3.82-0.56) cum. Conversion from root trainers/ 4" 7" bags to 8" X 12".	01.03.15	20000	1917.50	1000	38350
	Cost of polythene bags 4x7 & 5x9, 200 guage 6x12 & 8x12 400 guage (20000 / 85 x add 10% =258.82 or 259	01.03.18	259	159.00	1 Kgs	41181
1	Watering the plants twice a day for 10 m X 1 m size bed (1100, 6" X12" bags ) (25x12 =300) (12 months April to March)	01.03.21	300.00	206.60	1	Bed / month 61980
2	Weeding <b>only three times</b> for 10 m X 1 m size bed (1100,6" X12" bags ) (25 x 6 =150)	01.03.23	150.00	39.8	1	Bed / weeding 5970
3	Shifting & grading (6 x 25 =300)		300.00	167.4	1	Bed / shifting 50220
4	Contingencies/ Cost of Pipes/ Nursery Board/ Nursery implements/ Electricity Bill/ Running and Maintenance Charges of Oil Engine (Bills to be verified and certified by the ACI/DFO) etc.	01.03.22		As per actuals (Subject to maximum of 10% of estimate cost during raising year)		
11	Cost of chemicals, insecticides, pesticides etc..	01.03.24		As per actuals		6000
12	Cost of cow dung slurry	01.03.29				3000
13	Application of cow dung slurry	01.03.30	20000	165.5	1000	Nos. 3310
14	Pay of watcher (12 months) April to March		12	5400	Per Month	64800
	<b>Total</b>			<b>Amount for 20,000 seedlings</b>		<b>195280</b>

**Amount per seedling 9.76**

Bamboo with Misc Plantation(400+80)=380+80% =940

940 per Ha.

@ 9.76 Rs

**9174 per Ha.**

Barren Hill Afforestation (1111+222)

1333 per Ha.

@ 9.76 Rs

**13010 per Ha.**

NTSHW Misc. 1667 + 333 = 2000)

2000 Per Ha

@ 9.76 Rs

**19520 Per Ha**

Per Plant 9.76

Rate per Plant 2015-16 9.76

Rate as per 2016-17 (Add 10% escalation on 2015-16) 10.74

Rate as per 2017-18 (Add 10% escalation on 2016-17) 11.81

Rate as per 2018-19 (Add 10% escalation on 2017-18) 12.99

Rate as per 2019-20 (Add 10% escalation on 2018-19) 14.29

Rate as per 2020-21 (Add 10% escalation on 2019-20) 15.72

Rate as per 2021-22 (Add 10% escalation on 2020-21) 17.29

Divisional Forest Officer  
Mancherial

Statement showing the year wise financial requirement for compensatory afforestation scheme (double the number of felled trees) in degraded forest area in lieu of Diversion of 3.645 Ha vide segment 23/1 & 3.822 Ha vide segment 23/2 forest land in Mancherla Division in favour of Superintending Engineer, TDWSP (RWS&S) Circle, Nirmal for laying of pipe line and Construction of Structures in Segment-23/1 (Dharmaram Gutta) for Providing Safe Drinking Water to Adilabad District

Sl No	Name of the work	Units	Year wise requirement of funds																								Total				
			2016-17			2017-18			2018-19			2019-20			2020-21			2021-22			2022-23			2023-24					2024-25		
			Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Rate	Amount	Qty	Amount
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
1	Raising of nursery in 4 x 7	Plants	650	9.56	0.062	0		0.000			0.000			0.000			0.000			0.000			0.000			0.000			0.000	650	0.062
2	Raising of nursery in 8 x 12	Plants			0.000	650	11.81	0.077			0.000			0.000			0.000			0.000			0.000			0.000			0.000	650	0.077
3	Advance works	Plants	526	233.20	1.227			0.000			0.000			0.000			0.000			0.000			0.000			0.000			0.000	526	1.227
4	Raising of plantation	Plants			0.000	526	146.95	0.773			0.000			0.000			0.000			0.000			0.000			0.000			0.000	526	0.773
5	1st year Maint.	Plants			0.000			0.000	526	189.61	0.997			0.000			0.000			0.000			0.000			0.000			0.000	526	0.997
6	2nd year Maint.	Plants			0.000			0.000			0.000	526	193.30	1.017			0.000			0.000			0.000			0.000			0.000	526	1.017
7	3rd year Maint.	Plants			0.000			0.000			0.000	0	0.00	0.000	526	212.59	1.118			0.000			0.000			0.000			0.000	526	1.118
8	4th year Maint.	Plants			0.000			0.000			0.000	0	0.00	0.000	0	0.00	0.000	526	8.19	0.043			0.000			0.000			0.000	526	0.043
9	5th year Maint.	Plants			0.000			0.000			0.000			0.000			0.000	0		0.000	526	9.01	0.047			0.000			0.000	526	0.047
10	6th year Maint.	Plants			0.000			0.000			0.000			0.000			0.000			0.000	0		0.000	526	9.91	0.052			0.000	526	0.052
11	7th year Maint.	Plants			0.000			0.000			0.000			0.000			0.000			0.000			0.000	0	0.00	0.000	526	10.90	0.057	526	0.057
11	Establishment & Maintenance of Control Room	No	1		10.000			1.500			1.500			1.500			1.500			1.500			1.500			1.500			1.500	1	22.000
Total					11.289			2.350			2.497			2.517			2.618			1.543			1.547			1.552			1.557	0	27.471
Administrative Cost 5%					0.564			0.117			0.125			0.126			0.131			0.077			0.077			0.078			0.078		1.374
Grand Total					11.853			2.467			2.622			2.643			2.749			1.620			1.625			1.630			1.635		28.844

Divisional Forest Officer  
Mancherla

## Unit Cost for Raising of 20,000 Bamboo/Misc. Species seedlings in ( 4" X 7" ) Size Bags (1 years)

As per FSR 2015-16

Sl. No	Items of works	F.S.R. Item	Qty	Rate in Rs	Per	Amount in Rs.
1	2	3	4	5	6	7
	<b>Raising of 100 Primary Beds (1mX1mX0.3M) @ 200 seedlings per bed</b>					
1	Preparation of Old site - by clearing the site by dismantling old beds	01.02.07	100	Bed	0.90	Bed 90
2	Digging soil to a depth of 30 cm	01.02.08	100	Bed	30.80	Bed 3080
3	Cost of sandy soil 50% of dugged quantity and transportation taken from private lands, with 5 kms lead loading and unloading charges by mannual means (Sandy soil and FYM. in 5:1 proprtion) 0.125 cum per bed.	01.02.09	100	Bed	25.40	Bed 2540
4	Cost and transport of Farm yard manure (Sandy soil and FYM. in 5:1 proprtion) 0.025 cum per bed.	01.02.10	As per actuals			5000
5	Preparation of soil mixture of red earth, sand and farm yard manure in 5:1 proportion and formation of bed by refilling the excavated portion of the bed and filling of bed.	01.02.11	100	Bed	8.60	Bed 860
6	Cost of seed ( Non teak hard wood species)	01.02.12	As per actuals			12000
7	Sowing of seed and covering the bed with hay including cost and conveyance to a thickness of 2.5 cm.	01.02.13	100	Bed	9.80	Bed 980
8	Watering the primary nursery beds with rose water cans for a maximum period of 2 months. (October to November)	01.02.14	100	Bed x 2 months	11.00	Bed/ Month 2200
9	Weeding the primary beds. Maximum of 2 times	01.02.15	100	Bed x 2 times	1.60	Bed/ time 320
10	Cost of Insecticides/Fertilizers	01.02.17	As per actuals			3000
11	Watch and ward for nursery from Aug to Sept months) @ Rs. 180/- per day		2	Months	5400	Month 10800
12	Contingencies/ Cost of Pipes/ Nursery Board/ Nursery implements/ Electricity Bill/ Running and Maintenance Charges of Oil Engine etc.	01.02.18	As per actuals 10% of estimate cost			4087
	<b>Sub Total</b>					<b>44957</b>
	<b>Raising of Bag Plants Nursery ( 4 X 7 )</b>					
	<b>20000/2600 bags=7.69 or 8 Beds</b>					
1	Cost of Polythene Bags (4X7) (200 Guage) 20000/ 589= 33.95 or 34 + 3.39 (10% wear and tear) = 37.35 Kgs		37.35	159	1	Kg 5939
2	Site preparation for old site - Clearing of growth, weeds, grass etc.,	01.03.02	7.70	10.50	1	Bed 81
	Prickling out seedlings from Primary Beds and transplanting in Bags	01.03.19	20000	111.00	1000	Nos 2220
3	Cost and transport of ingradient for Potting mixture Red Soil and Clayey Soil in 2:1 ratio.					
	15 cm X 30 cm (4" X 7") 2.15 cum.	01.03.03	20000	114.20	1000	Nos. 2284
4	Alignment of beds including alignment of inspection path etc.,	01.03.10	7.70	6.10	1	Bed 47

Sl.	Unit Cost					
5	Preparation of potting mixture <b>Red Soil and Clayey Soil in 2:1 ratio</b> by powdering of various ingredients, sieving and mixing them in the prescribed proportion, Opening the bags and filling with potting mixture and gently pressing the same with finger tips and arranging in beds.					
	15 cm X 30 cm (4" X 7") 2.15 cum.	01.03.11	20000	345.00	1000	Nos. 6900
8	Watering the plants twice a day for 10 m X 1 m size bed (2600 4" X 7" bags; 1700 5" X 9" bags ; 1100 6"X12" bags and 800 8"X12" bags) (7.7 x 12 =92.4) (12 months)	01.03.21	92.40	206.60	1	Bed / month 19090
9	Weeding <b>only three times</b> for 10 m X 1 m size bed (2600 4" X 7" bags; 1700 5" X 9" bags ; 1100 6"X12" bags and 800 8"X12" bags) (6 x 7.7 =46.20)	01.03.23	46.20	39.8	1	Bed / weeding 1839
10	Shifting and grading and re-arranging in beds for 10 m X 1 m size bed (2600 4" X 7" bags; 1700 5" X 9" bags ; 1100 6"X12" bags and 800 8"X12" bags) <b>Only twice</b> (7.7 x 4 =30.80)	01.03.24	31	167.40	1	Bed / shifting 5156
11	Repacement of casualities after sorting out the emty bags and keeping at one end of the bed.	01.03.25	4000	53.50	1000	Bags 214
12	Contingencies/ Cost of Pipes/ Nursery Board/ Nursery implements/ Electricity Bill/ Running and Maintenance Charges of Oil Engine (Bills to be verified and certified by the ACF/DFO) etc.	01.03.22		As per actuals (Subject to maximum of 10% of estimate cost during raising year)		7084
13	Cost of chemicals, insecticides, pesticides etc.,	01.03.24		As per actuals		5000
14	Cost of cow dung slurry	01.03.29				5000
15	Application of cow dung slurry	01.03.30	20000	160.8	1000	Nos. 3216
16	Pay of watcher (12 months) April to March		12	5400	Per Month	64800
	<b>Sub Total</b>					<b>128869</b>

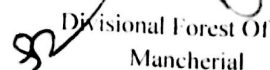
**GRAND TOTAL Amount for 20,000 seedlings 173826**  
**Amount per seedling 8.69**

Bamboo with Misc Plantation(400+380)=780+20%	936 per Ha.	@8.69 Rs	<b>8133.84</b> per Ha.
Barren Hill Afforestation (1111+222)	1333 per Ha.	@8.69 Rs	<b>11583.8</b> per Ha.
			<b>19718</b>

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NTSHW Plantation (1667+333)	2000 per Ha.	@8.69 Rs	<b>17380</b> per Ha.
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Rate per Plant 2015-16	8.69
Rate as per 2016-17 (Add 10% escalation on 2015-16)	9.56
Rate as per 2017-18 (Add 10% escalation on 2016-17)	10.51
Rate as per 2018-19 (Add 10% escalation on 2017-18)	11.57
Rate as per 2019-20 (Add 10% escalation on 2018-19)	12.72
Rate as per 2020-21 (Add 10% escalation on 2019-20)	14.00
Rate as per 2021-22 (Add 10% escalation on 2020-21)	15.39

  
 Divisional Forest Officer  
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## Unit Cost for Teak Trees Felling and transportation

As per FSR 2015-16

Sl. No	Items of works	F.S.R. Item	Qty	Rate in Rs	Per	Amount in Rs.
1	2	3	4	5	6	7
1	<b>MARKING AND ENUMERATION OF STANDING TREES.</b>	03.01.00				
	Enumeration of timber trees in coupes and numbering, digitizing including cost of paint, digitizing at breast height.(15cms x 20Cms. Size blaze)	03.01.01	10	3.60	1	36
	(i) Teak	03.01.01	1	295.70	1	Per Cu.m. 296
	<b>Dragging</b>	03.03.00				
	(ii) Undulating areas/Moderate slopes	03.03.02	1	164.70	1	Per Cu.m. 165
	<b>Transportation of timber by carts/lorries from beat / section Hq. including loading, unloading, dragging charges etc.</b>	03.04.03				
1	(a) Teak	03.04.04	1.00	877.80	1	Per Cu.m. 878
2	Miscellaneous expenditure in coupes	03.04.10	1.00	13.30	1	13
3	Loading of timber into Government lorries	03.04.09				
4	(i) Teak	03.04.10	1	323.20	1.00	Per Cu.m. 323
11	Unloading of timber from Govt. Lorries					
12	(i) Teak	03.04.11	1	110.20	1	Per Cu.m. 110
13	Lotting of timber including lettering with paint and fixing of lot boards.					
	(i) Teak	03.05.01	1	214.10	1	Per Cu.m. 214
	<b>TRANSPORTATION : SALE DEPOTS</b>	03.07.00				
	Misc. expenditure for conducting sales of timber, fuel, poles & bamboo including refreshment for bidders in the sale depots etc..					
	<b>Total</b>					<b>2035</b>

2035

Rate per Plant 2015-16	2035.00
Rate as per 2016-17 (Add 10% escalation on 2015-16)	2238.50
Rate as per 2017-18 (Add 10% escalation on 2016-17)	2462.35
Rate as per 2018-19 (Add 10% escalation on 2017-18)	2708.59
Rate as per 2019-20 (Add 10% escalation on 2018-19)	2979.44
Rate as per 2020-21 (Add 10% escalation on 2019-20)	3277.39
Rate as per 2021-22 (Add 10% escalation on 2020-21)	3605.13

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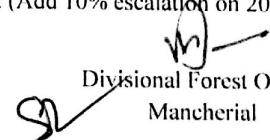
**Unit Cost for Non-Teak Trees Felling and transportation**

**As per FSR 2015-16**

Sl. No	Items of works	F.S.R. Item	Qty	Rate in Rs	Per	Amount in Rs.
1	2	3	4	5	6	7
1	<b>MARKING AND ENUMERATION OF STANDING TREES.</b>	<b>03.01.00</b>				
	Enumeration of timber trees in coupes and numbering, digitizing including cost of paint, digitizing at breast height.(15cms x 20Cms. Size blaze)	<b>03.01.01</b>	57	3.60	1	205
	(ii) Non-Teak	<b>03.01.02</b>	10	325.30	1	Per Cu.m. 3253
	<b>Dragging</b>	<b>03.03.00</b>				
	(ii) Undulating areas/Moderate slopes	<b>03.03.02</b>	10	164.70	1	Per Cu.m. 1647
	<b>Transportation of timber by carts/lorries from beat / section Hq. including loading, unloading, dragging charges etc.</b>	<b>03.04.03</b>				
1	(b) Non-Teak	<b>03.04.05</b>	10.00	938.70	1	Per Cu.m. 9387
2	Miscellaneous expenditure in coupes	<b>03.04.10</b>	1.00	13.30	1	13
3	Loading of timber into Government lorries	<b>03.04.09</b>				
4	(ii) Non-Teak	<b>03.04.10</b>	10	346.20	1.00	Per Cu.m. 3462
11	Unloading of timber from Govt. Lorries					
12	(ii) Non-Teak	<b>03.04.11</b>	10	128.60	1	Per Cu.m. 1286
13	Lotting of timber including lettering with paint and fixing of lot boards.					
	(ii) Non-Teak	<b>03.05.02</b>	10	254.50	1	Per Cu.m. 2545
	<b>TRANSPORTATION : SALE DEPOTS</b>	<b>03.07.00</b>				
	Misc. expenditure for conducting sales of timber, fuel, poles & bamboo including refreshment for bidders in the sale depots etc.,					
	<b>Total</b>					<b>21799</b>

21799

Rate per Plant 2015-16	21798.50
Rate as per 2016-17 (Add 10% escalation on 2015-16)	23978.35
Rate as per 2017-18 (Add 10% escalation on 2016-17)	26376.19
Rate as per 2018-19 (Add 10% escalation on 2017-18)	29013.80
Rate as per 2019-20 (Add 10% escalation on 2018-19)	31915.18
Rate as per 2020-21 (Add 10% escalation on 2019-20)	35106.70
Rate as per 2021-22 (Add 10% escalation on 2020-21)	38617.37

  
 Divisional Forest Officer  
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## Unit Cost for Fuel wood Felling and transportation

As per FSR 2015-16						
Sl. No	Items of works	F.S.R. Item	Qty	Rate in Rs	Per	Amount in Rs.
1	2	3	4	5	6	7
1	<b>EXTRACTION OF FUEL WOOD</b>					
	Felling, billeting and stacking of fire wood stacks of size 0.80M x 1.25 M x 1.0 Mt	03.06.01	25	150.90	1 Per Cu.m.	3773
	<b>TRANSPORTATION : SALE DEPOTS</b>					
	Misc. expenditure for conducting sales of timber, fuel, poles & bamboo including refreshment for bidders in the sale depots etc.,					
	Transportation of fuel wood by cart / Lorry upto a distance of 8 Kms including loading, unloading and stacking.	03.07.04	25	321.80	1 Per Cu.m.	8045
	Loading of fire wood into lorries when Govt. vehicles are used.	03.07.05	25	55.00	1 Per Cu.m.	1375
	Un-Loading of fire wood from lorries when Govt. vehicles are used.	03.07.06	25.00	25.10	1 Per Cu.m.	628
	<b>Total</b>					<b>13820</b>

Per Cu.m. 13820

Rate per Plant 2015-16 13820.00

Rate as per 2016-17 (Add 10% escalation on 2015-16) 15202.00

Rate as per 2017-18 (Add 10% escalation on 2016-17) 16722.20

Rate as per 2018-19 (Add 10% escalation on 2017-18) 18394.42

Rate as per 2019-20 (Add 10% escalation on 2018-19) 20233.86

Rate as per 2020-21 (Add 10% escalation on 2019-20) 22257.25

Rate as per 2021-22 (Add 10% escalation on 2020-21) 24482.97

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UNIT COST FOR **ADVANCE OPERATIONS** IN **NTSHW** PLANTATION under **LI Method**

Sl. No	Item of work	Code No.	3m x 2m (1666) Nos				
			Quantity		Rate	Per	
1	2	3	4		5	6	
1	Survey with GPS (Only staff to carry out)	02.01.01	1	No.	180.00	1	No.
	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.						
	Very Light Jungle growth (>10% and upto 20% ground area covered with Jungle growth)	02.01.04	0.50	Ha	2367.30	1	Ha
2	Light Jungle growth (>20% and upto 30% ground area covered with Jungle growth)	02.01.05	0.50	Ha	4743.50	1	Ha
3	Alignment and staking including laying base line for Misc speacies with espacement 3mX2m (1666 Nos)	02.02.02	526	Nos	57.00	100	Nos
4	Cost of 0.45 M Stake preparation and transportation to site.	02.02.05	526	Nos	44.90	100	Nos
5	Digging of 45 cm. cube pits in ordinary soils	02.01.16	526	pit	13.90	1	pit
6	SMC works						
	<b>Total</b>						

Per Plant

Rate per Plant 2015-16

Rate as per 2016-17 (Add 10% escalation on 2015-16)

Rate as per 2017-18 (Add 10% escalation on 2016-17)

Rate as per 2018-19 (Add 10% escalation on 2017-18)

Rate as per 2019-20 (Add 10% escalation on 2018-19)

Rate as per 2020-21 (Add 10% escalation on 2019-20)

Rate as per 2021-22 (Add 10% escalation on 2020-21)



UNIT COST FOR **ADVANCE OPERATIONS** IN **NTSHW** PLANTATION under **LI Method**

49

Sl. No	Item of work	Code No.	3m x 2m (1666) Nos					
			Quantity		Rate	Per		Amount Rs,
1	2	3	4		5	6		7
1	Survey with GPS (Only staff to carry out)	02.01.01	1	No.	180.00	1	No.	180
	Preparation of site for planting by clearing thorny unsaleable, unusable jungle growth, creepers, bushes etc. spreading the cut material all over the site and burning the same.							
	Very Light Jungle growth (>10% and upto 20% ground area covered with Jungle growth)	02.01.04	0.50	Ha	2367.30	1	Ha	1184
2	Light Jungle growth (>20% and upto 30% ground area covered with Jungle growth)	02.01.05	0.50	Ha	4743.50	1	Ha	2372
3	Alignment and staking including laying base line for Misc species with espacement 3mX2m (1666 Nos)	02.02.02	526	Nos	57.00	100	Nos	300
4	Cost of 0.45 M Stake preparation and transportation to site.	02.02.05	526	Nos	44.90	100	Nos	236
5	Digging of 45 cm. cube pits in ordinary soils	02.01.16	526	pit	13.90	1	pit	7311
6	SMC works							100000
	<b>Total</b>							<b>111583</b>

Per Plant **212**

Rate per Plant 2015-16 212.00

Rate as per 2016-17 (Add 10% escalation on 2015-16) 233.20

Rate as per 2017-18 (Add 10% escalation on 2016-17) 256.52

Rate as per 2018-19 (Add 10% escalation on 2017-18) 282.17

Rate as per 2019-20 (Add 10% escalation on 2018-19) 310.39

Rate as per 2020-21 (Add 10% escalation on 2019-20) 341.43

Rate as per 2021-22 (Add 10% escalation on 2020-21) 375.57

(M)

Divisional Forest Officer  
Mancherial.

## UNIT COST FOR RAISING OF NTSBW PLANTATION in LI method

As per FSR 2015-16

Sl. No	Item of work	Code No.	Quantity		Rate	Per		Amount
1	2	3	4		5	6		7
1	Transport of bag plants from nursery site to plantation site including loading and unloading upto 5 Km lead	02.02.09	526	Nos	103.70	100	Nos	545
2	Transport of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading beyond 5 Km - extra for every each Km. 20 Kms. X 3.60 = 72.00/-	02.02.14	526	Nos	72.00	100	Nos	379
3	Internal transport of bag plants to planting points on head loads.	02.02.19	526	Nos	69.40	100	Nos	365
4	Planting bag plants 45cmX45cmX45 cm pits	02.02.23	526	Nos	331.00	100	Nos	1741
5	Circular weeding to a radius of 0.5 Mtr by uprooting the weed growth July / Aug	02.02.26	526	Nos	94.50	100	Nos	497
6	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.	02.02.29	526	Nos	331.00	100	Nos	1741
	Replacement of Casualties 20% during Raising & 25% in 1st year (526 x 20% = 105)	02.02.37	.					
7	a) Transportation of seedlings upto 5Km	02.02.09	105	Nos	103.70	100	Nos	109
8	b) Transportation of seedlings beyond 5Km to 25Km (20Km x 3.6 = 72.00)	02.02.14	105	Nos	72.00	100	Nos	76
9	c) Internal Transportation	02.02.19	105	Nos	69.40	100	Nos	73
10	d) Pitting 50% of original pitting x	02.01.16	105	Nos	6.95	1	Nos	731
11	e) Planting	02.02.23	105	Nos	331.00	100	Nos	348
	Cutting of coppice growth flush to the ground over the entire area including retaining useful species just after planting and placing the cut material in between the planting rows.							
12	High rainfall zone > 800 mm ( 1st operation July/Aug)	02.02.34	1	Ha	1107.10	1	Ha	1107
13	High rainfall zone > 800 mm ( 2nd operation Oct/Nov)	02.02.34	1	Ha	1107.10	1	Ha	1107
14	Cost of Chemical fertilisers (50gm SSP for basal dressing, 20 gm DAP after planting for 45 cm <sup>3</sup> pits).	02.02.35			As per Actuals			570
15	Application of fertilizer after planting by making 3 holes of 10 cmts depth with crow bar . 10 cmts away from plant and putting fertilizers and closing	02.02.36	526	Nos	29.70	100	Nos	156
16	Creation of Fire lines 3 mts wide	02.02.38	150	Rmt	4.60	1	Rmt	690
17	Uprootal of Mahaveera weed growth	02.02.40	1	Ha	2919.90	1	Ha	2920
18	Formation and maintenance of inspection path	05.08.24	150	Rmt	229.80	20	Rmt	1724
19	Miscellaneous Expenditure( like Plantation Board, Implements etc.)							400
20	Warch & Ward for 9 months	02.03.11	9	Mths	5400.00	1	Mth	48600
<b>Total:</b>								<b>63879</b>

Per Plant

121

Rate per Plant 2015-16

121

Rate as per 2016-17 (Add 10% escalation on 2015-16)

134

Rate as per 2017-18 (Add 10% escalation on 2016-17)

147

Rate as per 2018-19 (Add 10% escalation on 2017-18)

162

Rate as per 2019-20 (Add 10% escalation on 2018-19)

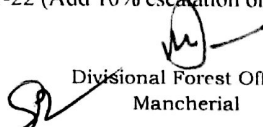
178

Rate as per 2020-21 (Add 10% escalation on 2019-20)

196

Rate as per 2021-22 (Add 10% escalation on 2020-21)

215

  
 Divisional Forest Officer  
 Mancherial

# UNIT COST FOR 1ST YEAR MAINTENANCE OF NTSHW PLANTATION LI Method

As per 2015-16

Sl. No	Item of work	Code No.	Quantity		Rate	Per		Amount
1	2	3	4		5	6		7
	Replacement of Casualties 25% in 1st year (526 x 25% 132)	02.03.06						
1	a) Transportation of seedlings upto 5Km	02.02.09	132	Nos	103.70	100	Nos	136
2	b) Transportation of seedlings beyand 5Km to 25Km (20Km x 3.2 = 72.00)	02.02.14	132	Nos	72.00	100	Nos	95
3	c) Internal Transportation	02.02.19	132	Nos	69.40	100	Nos	91
4	d) Pitting 50% of orginal pitting x Rs.13/-	02.01.16	132	Nos	13.90	1	Nos	1828
5	e) Planting	02.02.23	132	Nos	331.00	100	Nos	435
6	Circular weeding to a radius of 0.5 Mtr by uprooting the weed growth July / Aug	02.03.01	526	Nos	94.50	100	Nos	497
7	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 atround the plant to 10cm wide but weeding that part of area by hand and formation of saucer in ordinary soils.	02.03.04	526	Nos	331.00	100	Nos	1741
	Cutting of coppice growth flush to the ground over the entire area including retaining useful species just after planting and placing the cut material in between the planting rows.							
8	High rainfall zone > 800 mm (1st Operation - July/August)	02.03.08	1	Ha	1107.10	1	Ha	1107
9	High rainfall zone > 800 mm (2nd Operation - Sept/Oct.)	02.03.08	1	Ha	1107.10	1	Ha	1107
10	Uprootal of Mahaveera weed growth	02.08.13	0.5	Ha	2919.90	1	Ha	1460
11	Creation of Fire lines 3 mts wide	02.03.10	150	Rmt	4.60	1	Rmt	690
12	Maintenance of inspection path	05.08.25	150	Rmt	126.00	20	Rmt	945
13	Warch & Ward for 12 months	02.03.11	12	Mths	5400.00	1	Mth	64800
	<b>Total:</b>							<b>74932</b>

**Per Plant 142**

Rate per Plant 2015-16 142

Rate as per 2016-17 (Add 10% escalation on 2015-16) 157

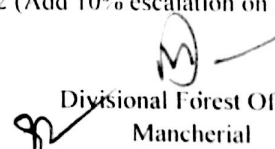
Rate as per 2017-18 (Add 10% escalation on 2016-17) 172

Rate as per 2018-19 (Add 10% escalation on 2017-18) 190

Rate as per 2019-20 (Add 10% escalation on 2018-19) 209

Rate as per 2020-21 (Add 10% escalation on 2019-20) 229

Rate as per 2021-22 (Add 10% escalation on 2020-21) 252

  
Divisional Forest Officer  
Mancherial



**UNIT COST FOR 2nd YEAR MAINTENANCE OF NTSHW PLANTATION LIM**

**As per 2015-16**

SL No	Item of work	Code No.	Quantity		Rate	Per		Amount
1	2	3	4		5	6		7
1	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 <b>in ordinary soils. (adopt the rate as per the budget availability)</b>	02.04.02	526	Nos	331.00	100	Nos	1741
	Coppice cutting							
	Cutting of coppice growth flush to the ground over the entire area including retaining useful species just after planting and placing the cut material in between the planting rows.							
	High rainfall zone > 800 mm (1st Operation - July/August)	02.03.08	1	Ha	1107.10	1	Ha	1107
	High rainfall zone > 800 mm (2nd Operation - Sept/Oct.)	02.03.08	1	Ha	1107.10	1	Ha	1107
3	Creation of Fire lines 3 mts wide	02.04.07	150	Rmt	4.60	1	Rmt	690
4	Warch & Ward for 12 months	02.04.08	12	Mths	5400.00	1	Mth	64800
	<b>Total:</b>							<b>69445</b>

**Per Plant 132**

Rate per Plant 2015-16 132

Rate as per 2016-17 (Add 10% escalation on 2015-16) 145

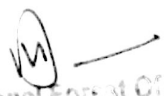
Rate as per 2017-18 (Add 10% escalation on 2016-17) 160

Rate as per 2018-19 (Add 10% escalation on 2017-18) 176

Rate as per 2019-20 (Add 10% escalation on 2018-19) 193

Rate as per 2020-21 (Add 10% escalation on 2019-20) 213

Rate as per 2021-22 (Add 10% escalation on 2020-21) 234

  
 Divisional Forest Officer  
 Bhabha Nagar

# UNIT COST FOR 3rd YEAR MAINTENANCE OF NTSHW PLANTATION LIM

As per FSR 2015-16

Sl. No	Item of work	Code No.	Quantity		Rate	Per		Amount
1	2	3	4		5	6		7
1	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. <b>(adopt the rate as per the budget availability)</b>	02.05.02	526	Nos	331.00	100	Nos	1741
	Coppice cutting							
2	Cutting of coppice growth flush to the ground over the entire area including retaining useful species just after planting and placing the cut material in between the planting rows.							
	High rainfall zone > 800 mm (1st Operation - July/August)	02.03.08	1	Ha	1107.10	1	Ha	1107
	High rainfall zone > 800 mm (2nd Operation - Sept/Oct.)	02.03.08	1	Ha	1107.10	1	Ha	1107
3	Creation of Fire lines 3 mts wide	02.05.07	150	Rmt	4.60	1	Rmt	690
4	Warch & Ward for 12 months	02.05.08	12	Mths	5400.00	1	Mth	64800
	<b>Total:</b>							<b>69445</b>

**Per Plant 132**

Rate per Plant 2015-16 132

Rate as per 2016-17 (Add 10% escalation on 2015-16) 145

Rate as per 2017-18 (Add 10% escalation on 2016-17) 160

Rate as per 2018-19 (Add 10% escalation on 2017-18) 176

Rate as per 2019-20 (Add 10% escalation on 2018-19) 193

Rate as per 2020-21 (Add 10% escalation on 2019-20) 213

Rate as per 2021-22 (Add 10% escalation on 2020-21) 234

Divisional Forest Officer  
Mancherial

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## Unit cost for 4th year maintenance as per FSR 2015-16

Sl No	Code	Item of work	Unit	Qty	Rate (In Rs.)	Per	Amount
1	2	3	4	5	6	7	8
	02.06.00	<b>4th YEAR MAINTENANCE OF PLANTATIONS:</b>					
1	02.06.01	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	Per 100 Nos	526	331.00	100	1741
2	02.06.03	Fire tracing 6 mtr wide	Rmt	150	4.60	1	690
					Rate per 20 Ha	<b>Total</b>	<b>2431</b>

Per Plant 4.62

Rate per Plant 2015-16 4.62

Rate as per 2016-17 (Add 10% escalation on 2015-16) 5.08


Rate as per 2017-18 (Add 10% escalation on 2016-17) 5.59

Rate as per 2018-19 (Add 10% escalation on 2017-18) 6.15

Rate as per 2019-20 (Add 10% escalation on 2018-19) 6.77

Rate as per 2020-21 (Add 10% escalation on 2019-20) 7.44

Rate as per 2021-22 (Add 10% escalation on 2020-21) 8.19

  
 Divisional Forest Officer  
 Mancherla

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## Unit cost for 5th year maintenance as per FSR 2015-16

Sl No	Code	Item of work	Unit	Qty	Rate (In Rs.)	Per	Amount
1	2	3	4	5	6	7	8
	<b>02.06.00</b>	<b><u>5th YEAR MAINTENANCE OF PLANTATIONS:</u></b>					
1	<b>02.06.01</b>	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	Per 100 Nos	526	331.00	100	1741
2	02.06.03	Fire tracing 6 mtr wide	Rmt	150	4.60	1	690
					Rate per 20 Ha	<b>Total</b>	<b>2431</b>

**Per Plant 4.62**

Rate per Plant 2015-16 4.62

Rate as per 2016-17 (Add 10% escalation on 2015-16) 5.08

Rate as per 2017-18 (Add 10% escalation on 2016-17) 5.59

Rate as per 2018-19 (Add 10% escalation on 2017-18) 6.15

Rate as per 2019-20 (Add 10% escalation on 2018-19) 6.77

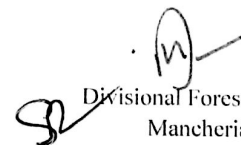
Rate as per 2020-21 (Add 10% escalation on 2019-20) 7.44

Rate as per 2021-22 (Add 10% escalation on 2020-21) 8.19

Rate as per 2022-23 (Add 10% escalation on 2021-22) 9.01

Rate as per 2023-24 (Add 10% escalation on 2022-23) 9.91

Rate as per 2024-25 (Add 10% escalation on 2023-24) 10.90

  
 Divisional Forest Officer  
 Mancherial

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## Unit cost for 6th year maintenance as per FSR 2015-16

Sl No	Code	Item of work	Unit	Qty	Rate (In Rs.)	Per	Amount
1	2	3	4	5	6	7	8
	<b>02.06.00</b>	<b>6th YEAR MAINTENANCE OF PLANTATIONS:</b>					
1	<b>02.06.01</b>	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	Per 100 Nos	526	331.00	100	1741
2	02.06.03	Fire tracing 6 mtr wide	Rmt	150	4.60	1	690
					Rate per 20 Ha	<b>Total</b>	<b>2431</b>

Per Plant 4.62

Rate per Plant 2015-16 4.62

Rate as per 2016-17 (Add 10% escalation on 2015-16) 5.08

Rate as per 2017-18 (Add 10% escalation on 2016-17) 5.59

Rate as per 2018-19 (Add 10% escalation on 2017-18) 6.15

Rate as per 2019-20 (Add 10% escalation on 2018-19) 6.77

Rate as per 2020-21 (Add 10% escalation on 2019-20) 7.44

Rate as per 2021-22 (Add 10% escalation on 2020-21) 8.19

Rate as per 2022-23 (Add 10% escalation on 2021-22) 9.01

Rate as per 2023-24 (Add 10% escalation on 2022-23) 9.91

Rate as per 2024-25 (Add 10% escalation on 2023-24) 10.90

  
 Divisional Forest Officer  
 Mancherla

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Unit cost for 7th year maintenance as per FSR 2015-16

Sl No	Code	Item of work	Unit	Qty	Rate (In Rs.)	Per	Amount
1	2	3	4	5	6	7	8
	02.06.00	<b>6th YEAR MAINTENANCE OF PLANTATIONS:</b>					
1	02.06.01	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	Per 100 Nos	526	331.00	100	1741
2	02.06.03	Fire tracing 6 mtr wide	Rmt	150	4.60	1	690
					Rate per 20 Ha	<b>Total</b>	<b>2431</b>

**Per Plant 4.62**

Rate per Plant 2015-16 4.62

Rate as per 2016-17 (Add 10% escalation on 2015-16) 5.08

Rate as per 2017-18 (Add 10% escalation on 2016-17) 5.59

Rate as per 2018-19 (Add 10% escalation on 2017-18) 6.15

Rate as per 2019-20 (Add 10% escalation on 2018-19) 6.77


Rate as per 2020-21 (Add 10% escalation on 2019-20) 7.44

Rate as per 2021-22 (Add 10% escalation on 2020-21) 8.19

Rate as per 2022-23 (Add 10% escalation on 2021-22) 9.01

Rate as per 2023-24 (Add 10% escalation on 2022-23) 9.91

Rate as per 2024-25 (Add 10% escalation on 2023-24) 10.90

  
Divisional Forest Officer  
Mancherial