

Receipt No : 1608208/2022/FCA SECTION-PCCF

Estimate for Extraction and Transportation of timber in Compt. No. of

Division

of Range of Shamshabad

Sl. No.	FSR Item No.	Nature of work	Quantity		Rate per		Amount	Corporation area 40%	Total
1	2	3	4	5	6	7	8	9	10
1	06.01.01	Marking of trees for retention as reserves	337	Nos	226.54	100	763	305	1069
2	06.01.02	Total enumeration of trees	337	Nos	131.20	100	442	177	619
3	06.01.05	Measuring of timber/ poles and stumps	337	Nos	0.42	p No.	142	57	198
4	06.01.06	Collection and removal of debris	1.971	Ha	98.07	P Ha	193	77	271
5	06.01.07	Digit marking of stumps in illicitly felled trees in teak plantations.	0	Ha	2.21	p No.	0	0	0
6	06.01.08	Felling and conversion by saw	2.125	cum	422.99	P cum	899	360	1258
		Conversion of illicitly felled trees including those found during beat inspection including digiting on the stump, belting, measuring, painting and digiting							
7	06.01.11	(i) Teak	1.236	cum	295.94	p cum	366	91	457
8	06.01.12	(ii) Non-Teak	0.889	cum	334.58	p cum	297	119	416
9	06.01.14	Watch and ward charges at coupe (Timber and Fuel) (As per average of minimum wage fixed by District Collectors in the state for unskilled labour)	12	Nos/Month	9194.85	P Month	110338	44135	154473
10	06.01.16	Dragging of timber to loading point - plain areas	2.125	Cum.	251.21	Cum.	534	107	641
11	06.01.17	Dragging of timber to loading point - moderate slope(from 10% to 30% slope)	0.000	Cum.	331.85	Cum.	0	0	0
	06.02.	TRANSPORTATION							
12	06.02.03	Transportation of timber by carts from beat / section Hq. including loading, unloading, dragging charges etc.							
		(i) Upto 1st 10 Kms lead:							
13		(a) Teak	1.236	Cum.	894.34	Cum.	1105	0	1105
14		(b) Non-Teak	0.889	Cum.	955.03	Cum.	849	0	849
	06.02.04	(ii) 11 Kms to 30 Kms (per each KM)						0	0
15		(a) Teak	1.236	Cum.	35.85	Cum.	44	0	44
16		(b) Non-Teak	0.889	Cum.	35.05	Cum.	31	0	31
	06.02.05	(iii) 31 Kms and above (per each KM)						0	0
17		(a) Teak	0	Cum.	26.45	Cum.	0	0	0
18		(b) Non-Teak	0.000	Cum.	31.85	Cum.	0	0	0
19	06.02.06	Loading of timber into lorries	0	Cum.	323.7	Cum.	0	0	0
20	06.02.07	Transportation of timber by private lorries (upto 10 Km)	2.125	Cum.	625.80	Cum.	1330	0	1330
21	06.02.08	Transportation more than 10 Km (add for each addl. 10 Km) (8 Km x 9.10 =)	2.125	Cum.	72.80	Cum.	155	0	155
22	06.02.09	Unloading of timber	2.125	Cum.	121.59	Cum.	258	103	362
	06.03.	LOTING AND CLASSIFICATION AT DEPOT							
23	06.03.01	Depot numbering of logs with paints (including cost of paints)	2.125	Piece	1.16	Piece	2	1	3
24	06.03.02	Lotting of timber	2.125	Cum.	304.29	Cum.	647	259	905
26	06.03.04	Grading and classification of timber	508	Log.	0.79	Log.	401	161	562
27	06.03.05	Belting and measuring.	2.125	Cum.	26.3	Cum.	56	22	78
28	06.03.06	Cost of paints for painting the lot boards	2.125	Cum.	13.34	Cum.	28	0	28
29	06.03.07	Electricity charges for Depot			Actuals		10000	0	10000
30	06.03.08	Purchase of tapes, ropes & Stationery etc.,	2.125	Cum.	20.53	Cum.	44	0	44
	06.10.00	Classification & lotting in Depots							
31		(a) Upto 30 cms basal girth (135 poles=1 Cum.)	184	poles	188.79	100	347	139	486
32		(b) 31 cms to 45 cms basal girth(40 poles=1Cum)	54	poles	563.17	100	304	122	426
33		(c) 46 cms to 60 cms basal girth(20 poles=1Cum)	68	poles	1127.60	100	767	307	1073
	06.04.	EXTRACTION OF FUEL WOOD							
31	06.04.01	Felling, billeting and stacking of fire wood stacks of size 0.80M x 1.25 M x 1.0 Mt	18.57	Cum.	196.25	Cum.	3644	1458	5102
32	06.04.02	Collection of fuel at loading point	18.57	Cum.	32.92	Cum.	611	245	856
33	06.04.03	Loading of fuelwood into lorries	18.57	Cum.	68.25	Cum.	1267	507	1774
34	06.04.04	Unloading of fuel	18.57	Cum.	22.1	Cum.	410	164	575
35	06.04.05	Splitting of fuelwood at retail sale depots	0	Tonnes	838.69	tonne	0	0	0

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1	2	3	4	5	6	7	8	9	10
	06.08.00	EXTRACTION OF POLES							
	06.08.01	Felling and conversion of poles in DET areas/ illicitly felled trees including those found in beat inspection and thinning areas:							
36		(a) Upto 30 cm basal girth	184	Pole	6.14	each	1130	452	1582
		(b) 31 cms to 45 cms basal girth	54	Pole	13.02	each	703	281	984
		(c) 46 cms to 60 cms basal girth	68	Pole	18.90	each	1285	514	1799
	06.08.02	<u>Loading Teak Poles :</u>							
37		(a) Upto 30cms basal girth	41	Pole	5.88	each	241	60	301
		(b) 31 cms to 45 cms basal girth	29	Pole	13.02	each	378	151	529
		(c) 46 cms to 60 cms basal girth	2	Pole	18.90	each	38	15	53
	06.08.03	<u>Loading Non-Teak poles:</u>							
38		(a) Upto 30 cms basal girth	143	Pole	6.14	each	878	351	1229
		(b) 31 cms to 45 cms basal girth	25	Pole	14.96	each	374	150	524
		(c) 46 cms to 60 cms basal girth	66	Pole	27.30	each	1802	721	2523
	06.08.04	<u>Un-Loading Teak Poles :</u>							
39		(a) Upto 30 cms basal girth	41	Pole	3.78	each	155	39	194
		(b) 31 cms to 45 cms basal girth	29	Pole	5.88	each	171	68	239
		(c) 46 cms to 60 cms basal girth	2	Pole	10.29	each	21	8	29
	06.08.05	<u>Un-Loading Non-Teak Poles :</u>							
40		(a) Upto 30 cms basal girth	143	Pole	3.78	each	541	216	757
		(b) 31 cms to 45 cms basal girth	25	Pole	5.88	each	147	59	206
		(c) 46 cms to 60 cms basal girth	66	Pole	10.29	each	679	272	951
	06.09.00	DRAGGING AND TRANSPORTATION							
	06.09.01	<u>For dragging, transportation including loading & unloading of teak poles - upto 10 Kms :</u>							
41		(a) Upto 30 cms girth	184	poles	1496.20	100	2753	1101	3854
		(b) 31 cms to 45 cms basal girth	54	Pole	3702.20	100	1999	800	2799
		(c) 46 cms to 60 cms basal girth	68	Pole	7404.34	100	5035	2014	7049
	06.09.02	<u>For dragging, transportation including loading & unloading of teak poles - for each additional K.M. over 1st 10 Kms</u>							
42		(a) Upto 30 cms girth	184	poles	77.50	100	143	57	200
		(b) 31 cms to 45 cms basal girth	54	Pole	197.05	100	106	43	149
		(c) 46 cms to 60 cms basal girth	68	Pole	395.15	100	269	107	376
43	HMRL, MD Proc. No.04/MD/HMR/2010-11, Dt.20.07.11	Translocation of trees of girth less than 600 mm including cost of earth mover for trenching at the present site as well as new site. Pruning the tree, packing the root ball carefully, putting necessary chemicals, crane for loading and unloading the tree, labour charges and cost of protecting the tree for two months from the date of translocation by timely watering etc., complete but excluding the cost of transportation of tree	0	each	5850	one	0	0	0
44	---do---	Cost of transportation of tree upto 10 Km by loading and unloading careful into tipper	0	trip	4950	trip	0	0	0
		TOTAL					155123	56394	211517

Forest Divisional Officer
Shamshabad

District Forest Officer
Ranga Reddy.

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UNIT COST FOR MAINTENANCE OF BAG PLANTS (April to August)

Sl. No.	FSR-2019-20 Code	Item of work	Unit	Quantity	As per FSR		Amount (Rs.)
					Per	Rate (Rs.)	
	01.04.00	MAINTAINANCE OF BAG PLANTS NURSERY UPTO PLANTING SEASON (APRIL TO AUGUST) for 10 m X 1 m size secondary beds (2600 Nos of 4" X 7" bags; 1700 Nos of 5" X 9" bags ; 1100 Nos. of 6"X12" bags; 800 Nos. of 8"X12" bags; 400 Nos. of 10"x16" bags per bed)					
	01.04.01	Watering polybag secondary beds twice a day for 4 months					
1	a	Manually with rose spray or finely perforated nozzle attached to a hose pipe	Bed/month	4	1	286.76	1147.04
2	01.04.02	Weeding once during maintenance year	Bed/weeding	1	1	52.66	52.66
3	01.04.03	Shifting, grading and rearrangement in beds	Bed/shifting	2	1	245.96	491.92
4	01.04.05	Cost of foliar nutritient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from April to August	As per actuals	1	1	20.00	20.00
	01.04.06	Cowdung Slurry application (One can apply chemical foliar spray or apply cowdung slurry - not both)					
	a	Cost and transportation of fresh cowdung	As per actuals	1	1	25.00	25.00
5							
6	01.04.07	Weeding in the space between the beds, inspection path and surroundings of Nursery	Bed	1	1		0.00
7	01.05.04	Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondray beds or Teak beds of 10 x 1 m size or combination of both. For more than 3 lakh RT or 300 secodary beds of Teak bedsor combination of both another additional Nursery Watcher is allowed. While calculating the number of Nursery Watcher, care shall be taken to include the nursery raising under all Schemes at a particular site. No extra Nursery Watcher is allowed for primary beds of 1x1 m size. However, the above narrative is subject to the provisions cited under general instructions.	Watcher/ month	4	100	9194.85	36779
8	01.04.09	Electricity charges					500.00
		Total					500.00
9	01.04.08	Contingencies @ 5%					2604.41
		2019-20 Total					130.22
							2714.63
		cost of each plant (1100 Plants per bed)					2.4860
		10% escalation every year					

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UNIT COST FOR CONVERSION FROM 4"x7" to 6"x12"

Sl. No.	FSR-2019-20 Code	Item of work	Unit	Quantity	As per FSR		Amount (Rs.)
					Per	Rate (Rs)	
		CONVERSION of Root Trainer plants or 4"x7" or 5"x9" bag-plants into higher size bags - to be done during September - October. At the time of conversion, the height of the plants should be at least above 0.45m in height (excluding the height of polybag).					
		Cost and Transport of Ingredients for Potting Mixture: Red Soil, tank-silt / clay soil, FYM in 2:1:1 ratio. To this soil mixture, 220 gm of Indophyll M-45, 4.5 kg of single super phosphate (SSP) and 250 gm of phorate granules per 1 cum of potting mixture will be added. Cost of chemicals is as per actuals.					
	01.03.21	Transportation of soil mixture ingredients					
		Distance up to 5 km					
1	c	4" x 7" to 6" x 12" polybags (2.15 - 0.56 = 1.59 cum)	No	1100	1000	588.00	646.80
	01.03.22	Transportation of soil mixture ingredients more than 5 km distance and upto 25 km distance					
2	c	4" x 7" to 6" x 12" polybags (2.15 - 0.56 = 1.59 cum)	No	1100	1000	14.60	16.06
	01.03.28	Preparation of Potting Mixture by powdering of various ingredients, sieving and mixing them in prescribed proportion; opening of bags and filling with potting mixture partially, tearing the polybag plants and repotting them inside bigger bags and filling the rest of bags; gently pressing the same with finger tips and arranging in beds of 10x1 m size (6"x12" size: 1100 bag plants / bed and 8"x12" size: 800 bag plants per bed)					
3	c	4" x 7" to 6" x 12" polybags (2.15 - 0.56 = 1.59 cum)	No	1100	1000	1048.37	1153.21
	01.03.30	Weeding the plants (1100 no. of 6"x12" bags; 800 no. of 8"x12" bags; and 400 no. of 10"x16" bags) from November - March: 2 weedings					
4		Weeding the plants (2 weedings)	Bed	2	1	52.66	105.32
5	01.03.31	Shifting, Grading and rearranging in secondary beds - One Grading in February	Bed	2	1	245.96	491.92
	01.03.32	Watering the plants manually twice a day (from November - March) with rose spray or finely perforated nozzle attached to a hose pipe.					
6	a	Manually with rose spray or finely perforated nozzle attached to a hose pipe	Bed	5	1	286.81	1434.05
	01.03.33	Cost of foliar nutritient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from July to Oct.					30.00
7	01.05.04	Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondary beds or Teak beds of 10 x 1 m size or combination of both. For more than 3 lakh RT or 300 secondary beds of Teak beds or combination of both another additional Nursery Watcher is allowed. While calculating the number of Nursery Watcher, care shall be taken to include the nursery raising under all Schemes at a particular site. No extra Nursery Watcher is allowed for primary beds of 1x1 m size. However, the above narrative is subject to the provisions cited under general instructions.	Bed	4	100	9194.85	367.79
							2340.00
8		Cost of the polythene bags					500.00
9	01.03.39	Electricity charges	Total				7085.15
							354.258
10	01.03.38	Contingencies @ 5%					7439.41
		2019-20 Total for 1100 plants					6.7631
		cost of each plant					
		10% escalation every year					

Forest Divisional Officer,
ShamshabadDistrict Forest Officer
Ranga Reddy.

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UNIT COST FOR MAINTENANCE OF BAG PLANTS (4"x7")

Sl. No.	FSR-2019-20 Code	Item of work	Unit	Quantity	As per FSR		Amount (Rs.)
					Per	Rate (Rs)	
		Maintenance of 4"x7" or 5"x9" bag-plants from April – August - Watering the plants twice a day from April – August					
1	01.02.11	(a) Manually with rose cans or finely perforated nozzle attached to a hose pipe	Bed	5	1	79.8	399.00
2	01.02.12	Weeding the beds during May & July	Bed	2	1	18.38	36.76
3	01.02.13	Shifting, grading and rearrangement in beds	Bed	1	1	245.91	245.91
4		Electricity charges					300.00
5	01.05.04	Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondary beds or Teak beds of 10 x 1 m size or combination of both. For more than 3 lakh RT or 300 secondary beds of Teak beds or combination of both another additional Nursery Watcher is allowed. While calculating the number of Nursery Watcher, care shall be taken to include the nursery raising under all Schemes at a particular site. No extra Nursery Watcher is allowed for primary beds of 1x1 m size. However, the above narrative is subject to the provisions cited under general instructions.	Bed	4	100	9194.85	367.79
2019-20 Total							1349.46
cost of each plant (2600 plants per bed)							0.5190
10% escalation every year							

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UNIT COST FOR BAG PLANT NURSERY

Sl. No.	FSR-2019-20 Code	Item of work	Unit	Quantity	As per FSR		Amount (Rs.)
					Per	Rate (Rs)	
		BAG PLANT NURSERY: Seedlings need to be raised in 4"x7" (200 gauge) or 5"x9" (250 gauge) bags which are to be converted into 6"x12" (400 gauge) or 8"x12" (400 gauge) polybags. The seedlings are to be transplanted from primary beds in June - July. Hence the bags are to be filled during April-May when the soil is dry.					
		Raising of Nursery in Polythene bags in sizes of 4"x7" (200 gauge) or 5"x9" (250 gauge) bags and arranging in secondary beds (Bed size: 10 X 1 M).					
1	01.03.01	Site preparation for New Sites - Clearing of growth, uprootal of stumps and removal of surface stones, rubbish of all sorts etc.	Bed	1	1	52.08	52.08
		Cost of Polybags (including the cost of certification by): To ensure quality control, the quality of bags have to be certified by CIPET (Central Institute of Plastic Engineering & Technology), Hyderabad at the cost of tenderer by taking samples from various lots of polybags.					
2	01.03.03	10 cm x 17.5 cm (4" x 7") size bags of 200 g: 589 bags / kg	Kg	4.41	1	156.00	687.96
	01.03.04	Cost and Transport of ingredients for Potting Mixture: (As per CSSR) Red Soil, tank-silt, FYM in 2:1:1 ratio. To this soil mixture, 220 gm of Indophyll M-45, 4.5 kg of single super phosphate (SSP) and 250 gm of phorate granules per 1 cum of potting mixture will be added. Cost of chemicals is as per actuals.					
	01.03.05	Distance upto 5 km					
3	a	10 cm x 17.5 cm (4" x 7") size bags: 2600 bags / bed	No's	2600	1000	207.06	538.36
	01.03.06	For every extra km beyond 5 km upto 25 km					
4	a	10 cm x 17.5 cm (4" x 7") = 0.56 cum vol. for 1000 bags	No's	2600	1000	5.15	13.39
	01.03.08	Preparation of Potting Mixture by powdering of various ingredients, sieving and mixing them in prescribed proportion; opening of bags and filling with potting mixture and gently pressing the same with finger tips and arranging in beds.					
5	a	10 cm x 17.5 cm (4" x 7") size bags: 2600 bags / bed	No's	2600	1000	613.10	1594.06
6	01.03.09	Alignment of beds including alignment of inspection paths etc	Bed	1	1	7.98	7.98
7	01.03.10	Pricking out seedlings from primary beds and transplanting into polybags	No's	2600	1000	147.74	384.12

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					Per	Rate (Rs)	
8	01.03.11	Sowing / dibbling of pretreated seeds (e.g. Yegisa, Nalamadi, Yerumaddi etc.) directly into bags including cost of treatment	No's	2600	1000	87.89	228.51
9	01.03.12	Watering the plants (2 Months) twice a day from Feb-March - a) Manually with rose cans or finely perforated nozzle attached to a hose pipe	Bed	4	1	286.76	1147.04
10	01.03.13	Weeding to be done for every 2 months from the date of transplantation up to March	Bed	4	1	52.66	210.64
11	01.03.14	1st shifting and grading after three months and consecutive shifting and grading after every two months till the nursery stock is lifted	Bed	1	1		0.00
12	01.03.15	Replacement of casualties after sorting out the empty bags and keeping at one end of the bed (maximum 10% of total stock is permissible)	Bed	1	1	69.83	69.83
13	01.03.16	Cost of foliar nutritient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from July to Oct.	Bed	1	1	34.00	34.00
14	01.03.18	Weeding in the space between the beds, inspection path and surroundings of Nursery	Bed	2	1	35.91	71.82
15	01.05.04	Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondary beds or Teak beds of 10 x 1 m size or combination of both. For more than 3 lakh RT or 300 secondary beds of Teak beds or combination of both another additional Nursery Watcher is allowed. While calculating the number of Nursery Watcher, care shall be taken to include the nursery raising under all Schemes at a particular site. No extra Nursery Watcher is allowed for primary beds of 1x1 m size. However, the above narrative is subject to the provisions cited under general instructions.	Bed	4	100	9194.85	36779
16		Electricity charges	Total			300.00	300.00
17		Add casualty 10%					5707.51
		2019-20 Grand Total					7511.01
		cost of each plant (2600 plants per bed)					6458.6
		10% escalation every year					3.799

District Forest Officer
Ranga Reddy.

Forest Divisional Officer,
Shamshabad

UNIT COST FOR RAISING OF PRIMARY BEDS

Sl. No.	FSR-2019-20 Code	Item of work	Unit	Rate (Rs.)	Amount (Rs.)
1	01.00.00	PRIMARY BEDS of 1x1x0.3 m size for Miscellaneous species including bamboo - 50 primary beds for 1 lakh nursery is permitted. Primary beds should start from Jan-May depending on availability of fresh seeds. Once primary beds are formed, they can be used upto 5 years without changing the medium - what is required each time is solarization, burning a layer of grass on it and adding the below recommended fungicides and insecticides to the medium.			
2	01.01.01	Preparation of New Site by clearing jungle growth, uprootal of stumps and removal of surface stones, pebbles etc.	Bed	5.20	5.20
3	01.01.03	Digging soil of the demarcated beds of 1x1x0.30 m size	Bed	40.06	40.06
4	01.01.04	Cost of sandy soil and transportation with 5 kms lead including loading and unloading charges (sandy soil and FYM in 5:1 ratio, i.e., 0.125 cum sandy soil and 0.025 cum FYM per primary bed	Bed	30.29	30.29
5	01.01.05	For every extra km beyond 5 km upto 25 km	Bed	1.15	1.15
6	01.01.06	Cost and transport of 0.025 cum FYM	Bed	26.04	26.04
7	01.01.07	Mixing of sandy soil and FYM in 5:1 proportion (50 % of volume of bed) with excavated soil and refilling the bed and levelling.	Bed	11.39	11.39
8	01.01.08	Covering the beds with dried grass and leaf litter and burning them to ash which can form the upper layer	Bed	13.02	13.02
10	01.01.10	Cost of seed - seed weight, germination percentage and target of planting stock of individual species are to be taken into consideration while estimating the requirement of seeds	Bed	500.00	500.00
11	01.01.12	Sowing of seed (finer seeds like Adina, Mitragyna, Anthocephalus etc. to be mixed with sand and broadcasted - Bigger seeds to be dibbled in lines 1-2 cm apart) and covering the bed to a thickness of 2.5 cm with paddy hay including cost and conveyance	Bed	12.97	12.97
12	01.01.13	Watering the primary nursery beds with rose water cans twice daily for a maximum period of 2 months.	45 Days	14.60	21.90
13	01.01.15	Cost of chemicals, fungicide and insecticide	Bed	5.00	5.00
14		Electrical Charges		20.00	20.00
		Total			687.02
		Rasing of seedlings 110% for obtaining 100%		10%	68.70
		Total			755.72
		cost of each plant (2000 plants per bed) - 2020-21			0.3779

10% escalation every year

Forest Divisional Officer,
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Ranga Reddy.

Unit Cost for Advance Operations for Raising of N.T.S.H. Plantations 3m x 2m (5MM) during 2019-20

FSR Code	Item of work	Unit	Quantity	Unit Rate per Ha As per FSR		Amount (Rs.)
				Rate (Rs.)	Per	
02.08.01	Survey with hand-held GPS (staff to carry out) and demarcation - one manday is allowed for assistance. The surveyed sketch with exact effective area statement will be uploaded in MIS platform by end of December.	Plantation	1	374.48	1	374
02.08.02	Clearing unsalable unwanted jungle growth (leaving all the tree species of good form particularly the hardwood tree species like Teak, Nallamaddi, Vegisa, Narepa, Sorni, Jitregi, Billudu, Chenangi etc. and NTFP species like Ippa, Morri, Tani, Karaka, Vepa, Maredu, Tapasi, Tuniki, Chinta, Usuri, Nallajeedi etc.); Spreading the cut material all over the site; and Burning the same twice till completely burnt. The unsuitable area shall be excused from the clearing operation and the expenditure shall be incurred for effective area only. All the above operations shall be completed before December.					
a	Sparse Jungle growth (< 10% ground area covered with Jungle growth)	Ha	0.2	2081.36	1	416
b	Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	Ha	0.2	3128.53	1	626
c	Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on the field inspection of DFO.	Ha	0.6	7350.00	1	4410
02.08.03	Uprootal of Stumps (excluding unsuitable patches) to a minimum depth of 45 cm with heavy machinery fitted with 0.90 cum and above capacity bucket, filling the pits caused by uprootal, and levelling. For retrieved encroached area, the approval of Circle Head is required and the approval should indicate clearly the density of stumps or vegetation to be removed through uprootal. The uprootal work can be carried out preferably through tender process.			0.00		
a	Sparse Jungle growth (< 10% ground area covered with Jungle growth)	Ha	0.4	5184.30	1	2074
b	Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	Ha	0.3	10034.10	1	3010
c	Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on the field inspection of DFO.	Ha	0.3	13044.80	1	3913
02.08.04	Collection and Removal of uprooted stumps of all sizes, other debris etc. to outside plantation site					
a	Sparse Jungle growth (< 10% ground area covered with Jungle growth)	Ha	0.4	5796.11	1	2318
b	Very Light Jungle growth (>10% and up to 20% ground area covered with Jungle growth)	Ha	0.4	9197.79	1	3679
c	Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on the field inspection of DFO.	Ha	0.2	10724.65	1	2145
02.08.05	Tilling (Permissible for CA area only) the soil to a depth of 0.45 cm in the affected area (excluding unsuitable patches) with heavy duty machinery fitted with 0.9 cum and above capacity bucket and levelling - Permissible for CA area only (and written approval of Circle head is needed and required budgetary provision has to find place in annual approved plan) and VIP planting area (minimum area should be more than 1 ha). The uprootal and tilling works shall be done preferably through a tender process and the execution of work completed before end of March					
a	Sparse jungle growth (<10% ground area covered with jungle growth)	ha	1	16378.65	1	16379
	Unit Rate for 2020-21					39344

10% escalation every year

Forest Divisional Officer,
ShamshabadDistrict Forest Officer
Ranga Reddy.

Receipt No : 1608208/2022/FCA SECTION-PCCF

Unit Cost for Raising of N.T.S.H. Plantations 3m x 2m. (SMM) during 2019-20

FSR Code	Item of work	Unit	Quantity	As per FSR		Amount (Rs.)
				Rate (Rs.)	Per	
02.09.03	Deep Ploughing the effective (excluding unsuitable patches) plantation area across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough. FOR TILLED AREA ONLY					
a	Ordinary Soil	Ha	1	3056	1	3056
02.09.01	Removing congestion of root suckers and other uprooted material hindering the effective ploughing	Ha	1	1066.07	1	1066
02.09.04	© Alignment and staking including demarcation of base line for Misc species with espacement 3mX3m (1111 Nos)	No's	1666	89.36	100	1489
02.09.05	Cost of preparation of stakes (0.45 m length) and transportation of site	No's	1666	56.96	100	949
02.09.06	Digging of Pits in Ploughed Areas in June - July by adopting 50% of original rate of digging of pits of ordinary soil					
b	45 cm cube size pits	No's	1666	10.66	1	17760
	PLANTING OPERATIONS DURING RAISING YEAR					
01.03.05	Cost and transportation of soil mixture for filling half of the pit and spreading around the pit	cum	0.000	310.86	1	0
	Transportation of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading			0.00		
02.09.07	b) upto 5 Km lead (15X30 cm (4"X7") bag plants)	No's	1666	115.19	100	1919
02.09.08	b) 5 Km to 25 Km lead (15X30 cm (4"X7") bag plants)	No's	1666	3.85	100	64
02.09.10	Internal transport of bag plants/root trainers to planting points on head loads.			0.00		
b	15X30 cm (4"X7") bag plants	No's	1666	1.95	100	32
02.09.11	Fortification of seedling with insecticide and treating pits with SSP					
	(a) Application of 50 gm of SSP per pit (1 day before planting) for root growth and early establishment of plant after planting. ii) Similarly, the bag plants to be planted will be dipped inside Chloropyriphos solution (5ml Chloropyriphos in 1 lit water) either at nursery site before transport or at plantation site before planting	No's	1666	39.27	100	654
	(b) Cost of SSP, Chloridine dust or Chloropyriphos	No's	1666	1.00	1	1666
	Planting Bag Plants					
02.09.12	Planting in 45 cm size cubic pit Pit	No's	1666	437.48	100	7288
02.09.14	Watering (one time) immediately after planting if the planting takes place on a non-rainy day and if there is no rains after planting for 1-2 days with prior written permission of Circle Head and under intimation to Head Office. Also the date of watering is to be recorded in plantation Journal (Refer PCCF Office Rc. No. 17309/2000/G1, Dt. 16.08.2005 - Circular No. 6B/2005/G1)	No's	1666	264.86	101	4413
02.09.15	Replacement of Casualties 20% during Raising & 25% in 1st year (In case of Eucalyptus 10% during raising and no casualty replacement for further maintenance). The casualty replacement should be done in 3 stages at an interval of 15 days immediately after planting during raising year.					
				50% of rate of original pitting rate during raising year and 100% during maintenance years. Planting, Transportation and internal transportation as prescribed above.		
02.09.06	Digging of Pits in Ploughed Areas in June - July by adopting 50% of original rate of digging of pits of ordinary soil - a) 45 cm size cubic pits	No's	333	10.66	1	3550

Receipt No : 1608208/2022/FCA SECTION-PCCF

FSR Code	Item of work	Unit	Quantity	As per FSR		Amount (Rs.)
				Rate (Rs.)	Per	
02.09.07, 02.09.08	Transportation of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading - b) upto 25 Km lead (15X30 cm (4"X7") bag plants)	No's	333	192.19	100	640
02.09.10	Internal transport of bag plants/root trainers to planting points on head loads - b) 15X30 cm (4"X7") bag plants	No's	333	91.82	100	306
02.09.12	Planting in 45 cm size cubic pit Pit	No's	333	437.48	100	1457
02.09.16	Cost of DAP @25gm / planting point	No's	1666	1.00	1	1666
02.09.17	Application of fertilizer in August (30 days after planting) by making 3 holes of 10 cm depth with crow bar holes at a distance of 10 cm away from plant and putting fertilizers and closing. Ensure that the soil is really wet at the time of DAP application.	No's	1666	39.27	100	654
	WEEDING & SOIL WORKING					
02.09.18	a) Circular weeding to a radius of 0.50 m around the plant (during July - Aug)	No's	1666	124.95	100	2082
02.09.19	b) 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) without damaging the plant. (during Nov - Dec.)	No's	1666	656.25	100	10933
02.09.20	Inter-ploughing (during November) the effective (excluding unsuitable patches) plantation area across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough - a) in Ordinary Soils	Ha	1	2321.40	1	2321
02.09.22	Uprootal of Mahaveera (Hyptis suaveolens) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before September-end at any cost before inter-ploughing.	Ha	1	3650.90	1	3651
	Unit Rate for 2020-21					67616

10% escalation every year

Forest Divisional Officer,
Shamshabad

District Forest Officer
Ranga Reddy.

Unit Cost for 1st Year Maintenance of NTSH Plantation (3m X 3 m) SMM per Ha during 2019-20

Unit Rate per Ha						
FSR Code	Item of work	Unit	Quantity	As per FSR		Amount (Rs.)
				Rate (Rs.)	Per	
02.10.01	Replacement of Casualties 20% during Raising & 25% in 1st year (In case of Eucalyptus 10% during raising and no causality replacement for further maintenance). The casualty replacement should be done in 3 stages at an interval of 15 days immediately after planting during raising year.		50% of rate of original pitting rate during raising year and 100% during maintenance years. Planting, Transportation and internal transportation as prescribed above.			
02.09.06	Digging of Pits in Ploughed Areas in June - July by adopting 50% of original rate of digging of pits of ordinary soil - a) 45 cm size cubic pits	No's	417	10.66	1	4440
02.09.07	Transportation of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading - b) upto 5 Km lead (15X30 cm (4"X7")bag plants)	No's	417	115.19	100	480
02.09.08	Transportation of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading - b) beyond 5 km and upto 25 Km lead (15X30 cm (4"X7")bag plants)	No's	417	3.85	100	16
02.09.10	Internal transport of bag plants/root trainers to planting points on head loads - b) 15X30 cm (4"X7")bag plants	No's	417	91.82	100	382
02.09.12	Planting in 45 cm size cubic pit Pit	No's	417	437.48	100	1822
02.09.14	Watering (one time) immediately after planting if the planting takes place on a non-rainy day and if there is no rains after planting for 1-2 days with prior written permission of Circle Head and under intimation to Head Office. Also the date of watering is to be recorded in plantation Journal (Refer PCCF Office Rc. No. 17309/2000/G1, Dt. 16.08.2005 - Circular No. 6B/2005/G1)	No's	0	264.86	100	0
02.09.16	Cost of DAP @25gm / planting point-50% of raising cost	No's	1666	0.50	1	833
02.09.11	Application of fertilizer in August (30 days after planting) by making 3 holes of 10 cm depth with crow bar holes at a distance of 10 cm away from plant and putting fertilizers and closing. Ensure that the soil is really wet at the time of DAP application.	No's	1666	39.27	100	654
	WEEDING & SOIL WORKING					
02.09.19	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) without damaging the plant during Nov - Dec	No's	1666	656.25	100	10933
02.10.04	Uprootal of Mahaveera (Hyptis suaveolens) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before September-end at any cost before inter-ploughing.	ha	0.7	3650.90	1	2556
02.10.05	Inter-ploughing (during September) the effective plantation area (excluding unsuitable patches) across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough.	ha	1	2321.40	1	2321
02.10.06	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	No's	1666	124.27	100	2070
	Unit Rate for 2020-21					26507

10% escalation every year

Forest Divisional Officer,
ShamshabadDistrict Forest Officer
Ranga Reddy.

Unit Cost for 2nd Year Maintenance of NTSB Plantation (3 m X 3 m) SMM per Ha

FSR Code	Item of work	Unit	Unit Rate per Ha		Amount (Rs.)	
			Quantit y	As per FSR		
				Rate (Rs.)		Per
02.10.01	Replacement of Casualties 20% during Raising & 25% in 1st year (In case of Eucalyptus 10% during raising and no causality replacement for further maintenance). The casualty replacement should be done in 3 stages at an interval of 15 days immediately after planting during raising year. - 5% proposed		50% of rate of original pitting rate during raising year and 100% during maintenance years. Planting, Transportation and internal transportation as prescribed above.			
02.09.06	Digging of Pits in Ploughed Areas in June - July by adopting 50% of original rate of digging of pits of ordinary soil - a) 45 cm size cubic pits	No's	83	10.66	1	888
02.09.07	Transportation of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading - b) upto 5 Km lead (15X30 cm (4"X7")bag plants)	No's	83	115.19	100	96
02.09.08	Transportation of Bag plants / Root trainer plants from nursery site to plantation site including loading and unloading - b) beyond 5 km and upto 25 Km lead (15X30 cm (4"X7")bag plants)	No's	83	3.85	100	3
02.09.10	Internal transport of bag plants/root trainers to planting points on head loads - b) 15X30 cm (4"X7")bag plants	No's	83	91.82	100	76
02.09.13	Planting in 45 cm size cubic pit Pit	No's	83	437.48	100	364
02.10.05	Inter-ploughing (during September) the effective plantation area (excluding unsuitable patches) across the slope to a depth of 30 cm with Heavy-duty Tractor of 55 HP and above with Firm Mould Board (FMB) plough.	ha	1	2321.40	1	2321
02.11.02	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) without damaging the plant. (July-Aug)	No's	1666	656.25 124.27 6.14	100	10933
02.11.03	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be carried out during July-Aug)	No's	1666		100	2070
02.01.03	Formation of Sector Lines / Fire Lines to a width of 3 m by giving surface treatment (sector to be in conformity with slope direction). All stumps to be cut to ground level.	Rmt	100		1	614
02.10.04	Uprootal of Mahaveera (Hyptis suaveolens) weed with prior written approval of Circle Head and taking photograph before and after uprootal. The weed removal shall be completed before September-end at any cost before inter-ploughing.	ha	0.6	3650.90	1	2191
Unit Rate for 2020-21						19556

10% escalation every year

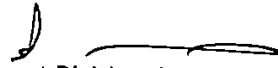
District Forest Officer
Ranga Reddy.

Forest Divisional Officer,
Shamshabad

543

Unit Cost for 3rd Year Maintenance of NTSB Plantation (3m X 2m) SMM per Ha

FSR Code	Item of work	Unit	Quantity	Unit Rate per Ha		Amount (Rs.)
				As per FSR		
				Rate (Rs.)	Per	
02.11.02	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) without damaging the plant. (July-Aug)	No's	1666	656.25	100	10933
02.11.03	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	No's	1666		100	2070
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	Rmt	100	124.27	100	608
	Unit Rate for 2020-21			608.27		
10% escalation every year						13611

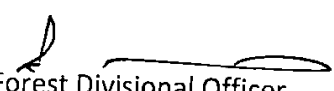

 Forest Divisional Officer,
 Shamshabad


 District Forest Officer
 Ranga Reddy.

545

Unit Cost for 4th Year Maintenance of NTS Plantation (3m x 2m) SMM per Ha

FSR Code	Item of work	Unit	Quantity	Unit Rate per Ha		Amount (Rs.)
				As per FSR		
				Rate (Rs.)	Per	
02.11.02	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) without damaging the plant. (July-Aug)	No's	1666	656.25	100	10933
02.11.03	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	No's	1666		100	2070
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	Rmt	100		100	608
	Unit Rate for 2020-21			608.27		
	10% escalation every year					13611


 Forest Divisional Officer,
 Shamshabad


 District Forest Officer
 Ranga Reddy.

Unit Cost for 5th Year Maintenance of NTSH Plantation (3m x 2m) SMM per Ha

FSR Code	Item of work	Unit Rate per Ha				
		Unit	Quantity	As per FSR		Amount (Rs.)
				Rate (Rs.)	Per	
02.11.02	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) without damaging the plant. (July-Aug)- the work will be carried out between 1 m to 1.1 m in a ring formation- Hence 25% of cost adopted	No's	1666	656.25	100	10933
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	Rmt	100	608.27	100	608
	Unit Rate for 2020-21					
	10% escalation every year					11541

Forest Divisional Officer,
Shamshabad

District Forest Officer
Ranga Reddy:

Unit Cost for 6th Year Maintenance of NTSH Plantation (3m x 2m) SMM per Ha

Unit Rate per Ha

FSR Code	Item of work	Unit	Quantity	As per FSR		Amount (Rs.)
				Rate (Rs.)	Per	
02.11.03	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height (to be done during July - Aug)	No's	1666	124.27	100	2070
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - proportionate cost - 0.60 times	Rmt	100	608.27	100	608
Unit Rate for 2020-21						2678

10% escalation every year

Forest Divisional Officer,
Shamshabad

District Forest Officer
Ranga Reddy.

Unit Cost for 7th Year Maintenance of NTSH Plantation (3m x 2m) SMM per Ha

Unit Rate per Ha

FSR Code	Item of work	Unit	Quantity	As per FSR		Amount (Rs.)
				Rate (Rs.)	Per	
02.11.02	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) without damaging the plant. (July-Aug)- the work will be carried out between 1 m to 1.1 m in a ring formation- Hence 25% of cost adopted	No's	1666	656.25	100	10933
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - proportionate cost - 0.60 times	Rmt	100	608.27	100	608
	Unit Rate for 2020-21					11541

10% escalation every year

Forest Divisional Officer,
Shamshabad

District Forest Officer
Ranga Reddy.

Receipt No : 1608208/2022/FCA SECTION-PCCF

Unit Cost for 8th Year Maintenance of NTSH Plantation (3m x 2m) SMM per Ha

53

Unit Rate per Ha						
FSR Code	Item of work	Unit	Quantity	As per FSR		Amount (Rs.)
				Rate (Rs.)	Per	
02.11.03	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be done during July - Aug)	No's	1666	124.27	100	2070
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	Rmt	100		100	608
	Unit Rate for 2020-21					2678

10% escalation every year

Forest Divisional Officer,
Shamshabad

District Forest Officer
Ranga Reddy.

Unit Cost for 9th Year Maintenance of NTSH Plantation (3m x 2m) SMM per Ha

Unit Rate per Ha						
FSR Code	Item of work	Unit	Quantity	As per FSR		Amount (Rs.)
				Rate (Rs.)	Per	
02.11.02	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) without damaging the plant. (July-Aug)- the work will be carried out between 1 m to 1.1 m in a ring formation- Hence 25% of cost adopted	No's	1666	656.25	100	10933
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	Rmt	100		608.27	100
	Unit Rate for 2020-21					11541

10% escalation every year

Forest Divisional Officer,
Shamshabad

District Forest Officer
Ranga Reddy.

Unit Cost for 10th Year Maintenance of NTSH Plantation (3m x 2m) SMM per Ha

Unit Rate per Ha						
FSR Code	Item of work	Unit	Quantity	As per FSR		Amount (Rs.)
				Rate (Rs.)	Per	
02.11.03	Pruning of flower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height (to be done during July - Aug)	No's	1666	124.27	100	2070
03.05.01	Maintenance of fire lines (5.00 mtr width) including cutting back of rank growth and burning - propotionate cost - 0.60 times	Rmt	100		100	608
	Unit Rate for 2020-21					2678

10% escalation every year

Forest Divisional Officer,
Shamshabad

District Forest Officer
Ranga Reddy.

Receipt No : 1608208/2022/FCA SECTION-PCCF

UNIT COST FOR MAINTENANCE OF BAG PLANTS (September to till disposal)

Sl. No.	FSR-2019-20 Code	Item of work	Unit	Quantity	As per FSR				Amount (Rs.)
					Rate (Rs.)	Per	Agency allowance 25% (Rs)	Total (Rs.)	
		MAINTENANCE OF BAG NURSERY FROM SEPTEMBER TO TILL DISPOSAL							
1	01.05.01	Watering plants for 10 m X 1 m size secondary bed	Bed/month	4	177.14	1	44.29	221.43	885.70
2	01.05.02	Shifting, grading and rearrangement in beds	Bed/weeding	1	245.96	1	61.49	307.45	307.45
3	01.05.04	Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondary beds or Teak beds of 10 x 1 m size or combination of both. For more than 3 lakh RT or 300 secondary beds of Teak beds or combination of both another additional Nursery Watcher is allowed. While calculating the number of Nursery Watcher, care shall be taken to include the nursery raising under all Schemes at a particular site. No extra Nursery Watcher is allowed for primary beds of 1x1 m size. However, the above narrative is subject to the provisions cited under general instructions.	Watcher/month	5	9194.85	100	0.00	9194.85	459.74
		Total							1652.89
		cost of each plant (1100 Plants per bed)							1.5026
		10% escalation every year							

Forest Divisional Officer,
Shamshabad

District Forest Officer
Ranga Reddy.