

Unit Cost for Raising of Misc., Nursery (4x7) in the year 2018-19 as per FSR 2018-19

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				As per FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1		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.						
1	01.01.01	Preparation of New Site by clearing jungle growth, uprootal of stumps and removal of surface stones, pebbles etc.	1 Bed	4.72	1.18	5.90	1 Bed	5.90
2	01.01.03	Digging soil of the demarcated beds of 1x1x0.30 m size	1 Bed	36.32	9.08	45.40	1 Bed	45.40
3	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	1 Bed	28.00	7.00	35.00	1 Bed	35.00
4	01.01.05	For every extra km beyond 5 km upto 25 km	1 Bed	1.11	0	1.11	1 Bed	27.75
5	01.01.06	Cost and transport of 0.025 cum FYM	1 Bed	24.06	0	24.06	1 Bed	24.06
6	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	1 Bed	10.32	2.58	12.90	1 Bed	12.90
7	01.01.08	Covering the beds with dried grass and leaf litter and burning them to ash which can form the upper layer	1 Bed	11.79	2.95	14.74	1 Bed	14.74
8	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	1 Bed	A/a				500.00
9	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	1 Bed	11.74	2.94	14.68	1 Bed	14.68
10	01.01.13	Watering the primary nursery beds with rose water cans twice daily for a maximum period of 2 months	1 Bed	13.21	3.30	16.51	1 Bed	33.03
11	01.01.15	Cost of chemicals, fungicide and insecticide	1 Bed	As per actuals limited to Rs. 1000/- per 1 lakh seedlings in primary bed stage				5.00
S.TOTAL::							718.46	
12	1.03.00	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).						
	01.03.01	Site preparation for New Sites - Clearing of growth, uprootal of stumps and removal of surface stones, rubbish of all sorts etc.	1 Nos	48.18	12.05	60.23	1 Bed	60.23

13		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.								
	01.03.03	10 cm x 17.5 cm (4" x 7") size bags of 200 g: 589 bags / kg	4.41	Kgs	156.00	0.00	156.00	1	Kg	687.96
14		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								
		Transportation of soil mixture ingredients								
	a)	a) Distance up to 5 km								
	01.03.05	a)10 cm x 17.5 cm (4" x 7") = 0.56 cum vol. for 1000 bags	2600	Nos	191.47	0.00	191.47	1000	Nos	497.82
	b)	b) For every extra km beyond 5 km upto 25 km								
	01.03.06	a) 10 cm x 17.5 cm (4" x 7") = 0.56 cum vol. for 1000 bags	2600	Nos	4.99	0.00	4.99	1000	Nos	259.48
15	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								
	a	10 cm x 17.5 cm (4" x 7") size bags: 2600 bags / bed	2600	Nos	556.07	139.02	695.09	1000	Nos	1807.23
16	01.03.09	Alignment of beds including alignment of inspection paths etc	1	Bed	7.20	1.80	9.00	1	Bed	9.00
17	01.03.10	Pricking out seedlings from primary beds and transplanting into polybags	2600	Nos	134.03	33.51	167.54	1000	Nos	435.60
18	01.03.11	Sowing / dibbling of pretreated seeds (e.g. Yegisa, Nalamadi, Yerumaddi etc.) directly into bags including cost of treatment	2600	Nos	79.73	19.93	99.66	1000	Nos	259.12
19		Watering the plants twice a day from Feb - Mar								
	01.03.12	a) Manually with rose spray or finely perforated nozzle attached to a hose pipe	1	Bed	260.10	65.03	325.13	1	Bed/ Month	1300.52
20	01.03.13	Weeding to be done for every 2 months from the date of transplantation up to March	1	Bed	47.76	11.94	59.70	1	Bed/ Weeding	238.80
21	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	1	Bed	223.07	55.77	278.84	1	Bed/ Shifting	278.84
22	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)	1	Bed	63.34	15.84	79.18	1	Bed	79.18
23	01.03.16	Cost of foliar nutrient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from July to Oct	1	Bed	As per actuals with a maximum limit of Rs. Rs. 2000/ per 1 lakh polybag seedlings.					10.00
24	01.03.18	Weeding in the space between the beds, inspection path and surroundings of Nursery	1	Bed	32.55	8.14	40.69	1	Bed	40.69
		Maintenance of 4"x7" or 5"x9" bag-plants from April - August - Watering the plants twice a day from April - August								
	01.03.19	(a) Manually with rose cans or finely perforated nozzle attached to a hose pipe	1	Bed	260.10	65.03	325.13	1	Bed / month	325.13
	01.03.20	Weeding the beds during May & July	1	Bed	47.76	11.94	59.70	1	Bed / weeding	59.70
	01.03.21	Shifting, grading and rearrangement in beds	1	Bed	223.07	55.77	278.84	1	Bed/S shifting	278.84
									S.TOTAL::	6628.14

26	01.03.22	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).							
	01.03.23	Cost and Transport of ingredients for Potting Mixture: Red Soil, tank-silt / clayey 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							
	01.03.24	Transportation of soil mixture ingredients							
		Distance up to 5 km							
	c	4" x 7" to 6" x 12" polybags (2.15 - 0.56 = 1.59 cum)	1100	Nos	543.72	135.93	679.65	1000	Nos 747.62
	01.03.25	Transportation of soil mixture ingredients more than 5 km distance and upto 25 km distance							
	c	4" x 7" to 6" x 12" polybags (2.15 - 0.56 = 1.59 cum)	1100	Nos	14.17	3.54	17.71	1000	Nos 389.62
	01.03.27	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)							
	c	4" x 7" to 6" x 12" polybags (2.15 - 0.56 = 1.59 cum)	1100	Nos	950.89	237.72	1188.61	1000	Nos 1307.47
	01.03.29	Cost of Chemical component	1	Bed	As per actuals				5.00
	01.03.33	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 weeding							
	a	1st weeding - December	1	Bed	47.76	11.94	59.70	1	Bed 59.70
	b	2nd weeding - February	1	Bed	47.76	11.94	59.70	1	Bed 59.70
	01.03.34	Shifting, Grading and rearranging in secondary beds - One Grading in February	1	Bed	223.07	55.77	278.84	1	Bed/ Weeding 278.84
	01.03.35	Watering the plants manually twice a day (from November - March) with rose spray or finely perforated nozzle attached to a hose pipe							
	a	Manually with rose spray or finely perforated nozzle attached to a hose pipe	1	Bed	260.10	65.03	325.13	1	Bed/ month 1625.65
23	01.03.37	Cost of foliar nutrient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from July to Oct	1	Bed	As per actuals with a maximum limit of Rs. Rs. 2000/ per 1 lakh polybag seedlings.				10.00
24	01.03.38	Contingencies for Raising Year towards the expenditure like cost of hose pipe, nursery boards, (store register for materials purchased to be maintained.)			As per actuals, subject to max. of 3% of estimate in raising year				355.00
24	01.03.39	Contingencies for Electricity charges, Running & maintenance charges of oil engine (bills to be certified by DFO / FDO and a separate log book to be maintained for oil engine			As per actuals,				300.00

24	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	1	No.							2001.00
										S.TOTAL::	7139.60
										Total unit rate arrived for the year 2018-19::	7139.60
										Add 10% escalation::	714.00
										Total unit rate arrived for the year 2019-20::	7853.60
										Add 10% escalation::	785.00
										Total unit rate arrived for the year 2020-21::	8638.60
										Add 10% escalation::	864.00
										Total unit rate arrived for the year 2021-22::	9502.60


Forest Range Officer
Gangaram


Forest Divisional Officer (FAC),
Guduru (W.L.M.)

Unit Cost Maintenance of Misc., Bag Plants (6x12) Nursery (04/19 to 07/19 = 4 Months) as per FSR 2018-19

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount	
				As per FSR	Agency allowance 25%	Total			
1	2	3	4	5	6	7	8	9	
	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" X9" bags ; 1100 Nos. of 6"X12" bags; 800 Nos. of 8"X12" bags; 400 Nos. of 10"x16" bags per bed)							
1	01.04.01	Watering polybag secondary beds twice a day for 4 months							
	a	Manually with rose spray or finely perforated nozzle attached to a hose pipe	1 x 4	Bed s x month	260.1	65.03	325.13	1 Bed/ Month	1301.00
2	01.04.02	Weeding once during maintenance year	1	Bed	47.76	11.94	59.7	1 Bed	60.00
3	01.04.03	Shifting, grading and rearrangement in beds	1 x 2	Bed s x shifting	223.07	55.77	278.84	1 Bed/ shifting	558.00
4	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	1	Bed	As per actual subject to maximum of Rs. 2500/-			per 100 beds for 3 months	25.00
5		(b) Application of cowdung slurry - once per month between April to June. Watering should not be done 12 hours before and after application of cowdung slurry treatment.		Bed	By Nursery Watcher				0.00
6	01.04.07	Weeding in the space between the beds, inspection path and surroundings of Nursery	1	Bed	26.3	6.58	32.88	1 Bed	33.00
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	1	No.					334.00
	01.04.08	Contingencies for Maintenance Year towards the expenditure like cost of hose pipe, nursery boards, etc (Store register for materials purchased to be maintained)	As per actuals, subject to max. of 3% of estimate in maintenance year						69.33
8	01.04.09	Contingencies for Electricity charges, Running & maintenance charges of oil engine (Bills to be certified by DFO / FDO and a separate log book to be maintained for oil engine)	As per actuals,						69.06
							S.TOTAL::	2449.39	
							Unit Rate as per FSR 2017-18::	2449.39	
							Add 10% escalation::	245.00	
							Total unit rate arrived for the year 2018-19::	2694.39	
							Add 10% escalation::	269.00	
							Total unit rate arrived for the year 2019-20::	2963.39	


							Add 10% escalation::	296.00
							Total unit rate arrived for the year 2020-21::	3259.39
							Add 10% escalation::	326.00
							Total unit rate arrived for the year 2021-22::	3585.39
							Add 10% escalation::	359.00
							Total unit rate arrived for the year 2022-23::	3944.39

P. Banarjee
Forest Range Officer,
Gangaram.

MY
Forest Divisional Officer (FAC),
Gudur (W.L.M.)

Unit Cost Maintenance of Misc., Bag Plants (6x12) Nursery (08/19 to 03/20= 8 Months) as per FSR 2018-19

Sl. No.	FSR Code No.	Item of work	Qty		Rate in Rs.			Per		Amount
					Asper FSR	Agency allowance 25%	Total			
1	2	3	4		5	6	7	8		9
	1.05	MAINTENANCE OF BAG NURSERY FROM SEPTEMBER ONWARDS TILL DISPOSAL								
1	01.05.01	Watering the plants for 10 m X 1 m size secondary bed	1 x 8	Bed s x month	157.79	39.45	197.24	1	Bed/ Month	1578.00
2	01.05.02	Shifting, grading and rearrangement in beds	1 x 2	Bed s x shifting	223.07	55.77	278.84	1	Bed/ shifting	558.00
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	1	No.						667.00
								S.TOTAL::		2803.00
					Unit Rate as per FSR 2017-18::					2803.00
					Add 10% escalation::					280.00
			Total unit rate arrived for the year 2018-19::							3083.00
					Add 10% escalation::					308.00
			Total unit rate arrived for the year 2019-20::							3391.00
					Add 10% escalation::					339.00
			Total unit rate arrived for the year 2020-21::							3730.00
					Add 10% escalation::					373.00
			Total unit rate arrived for the year 2021-22::							4103.00
					Add 10% escalation::					410.00
			Total unit rate arrived for the year 2022-23::							4513.00


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Unit Cost Maintenance of Misc., Bag Plants (6x12) Nursery (04/20 to 07/20= 4 Months) as per FSR 2018-19

Sl. No.	FSR Code No.	Item of work	Qty		Rate in Rs.			Per		Amount
					Asper FSR	Agency allowance 25%	Total			
1	2	3	4		5	6	7	8		9
	1.05	MAINTENANCE OF BAG NURSERY FROM SEPTEMBER ONWARDS TILL DISPOSAL								
1	01.05.01	Watering the plants for 10 m X 1 m size secondary bed	1 x 4	Bed s x month	157.79	39.45	197.24	1	Bed/ Month	789.00
2	01.05.02	Shifting, grading and re-arranging in beds for 10 m X 1 m size bed - with prior written permission of Circle Head	1 x 1	Bed s x shifting	223.07	55.77	278.84	1	Bed/ shifting	279.00
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 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	1	No.						334.00
								S.TOTAL::		1402.00
					Unit Rate as per FSR 2017-18::					1402.00
					Add 10% escalation::					140.00
					Total unit rate arrived for the year 2018-19::					1542.00
					Add 10% escalation::					154.00
					Total unit rate arrived for the year 2019-20::					1696.00
					Add 10% escalation::					170.00
					Total unit rate arrived for the year 2020-21::					1866.00
					Add 10% escalation::					187.00
					Total unit rate arrived for the year 2021-22::					2053.00
					Add 10% escalation::					205.00
					Total unit rate arrived for the year 2022-23::					2258.00

Total unit rate for Nursery Maintenance during 2018-19 :: **7319.39**
 Total unit rate for Nursery Maintenance during 2019-20 :: **8050.39**
 Total unit rate for Nursery Maintenance during 2020-21 :: **8855.39**
 Total unit rate for Nursery Maintenance during 2021-22 :: **9741.39**
 Total unit rate for Nursery Maintenance during 2022-23 :: **10715.39**


 Forest Range Officer,
 Gangaram.


 Forest Divisional Officer (FAC),
 Guduru (W.L.M.).

ANNEXURE- 2 (B)

Unit Cost for Advance Operations under Semi Mechanical Method as per FSR 2018-19


Espacement 3 x 3 M

Name of the Species : NTFP

Sl. No	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance 25%	Total		
1	2	3.	4	5	6	7	8	9
1	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.	1 No.	339.66	0.00	339.66	1 No.	340
2	02.08.02	Clearing unsalable unwanted jungle growth (leaving all the tree species of good form particularly the hardwood tree species like Teak, Nallamaddi, Yegisa, Narepa, Somi, 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						
a)	c	Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on field inspection of DFO.	1 Ha	5686.75	1421.69	7108.44	1 Ha	7108
3	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 retrived 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						
a)	c	Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on field inspection of DFO.	1 Ha	12664.86	0	12664.86	1 Ha	12665
4	02.08.04	Collection and Removal of Uprooted Stumps of all sizes, other debris etc., to outside the plantation site.						
a)	c	Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on field inspection of DFO.	1 Ha	9916.46	2479.12	12395.58	1 Ha	12396
5	02.08.05	Tilling (PERMISSIBLE FOR CA AREA ONLY) the soil to a depth of 45 cm in the effective area (excluding unsuitable patches) with heavy duty machinery fitted with 0.90 cum and above capacity bucket and levelling - ONLY PERMISSIBLE FOR CA AREA 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 area).The uprootal and tilling works shall be done preferably through tender process and the execution of work should be completed befor end of						

a)	c	Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on field inspection of DFO.	1 Ha	9380.64	0.00	9380.64	1 Ha	9381
			Total unit rate arrived for the year 2018-19::					41890.00
			Add 10% escalation::					4189.00
			Total unit rate arrived for the year 2019-20::					46079.00
			Add 10% escalation::					4608.00
			Total unit rate arrived for the year 2020-21::					50687.00
			Add 10% escalation::					5069.00
			Total unit rate arrived for the year 2021-22::					55756.00
			Add 10% escalation::					5576.00
			Total unit rate arrived for the year 2022-23::					61332.00
			Add 10% escalation::					6133.00
			Total unit rate arrived for the year 2024-25::					67465.00
			Add 10% escalation::					6747.00
			Total unit rate arrived for the year 2025-26::					74212.00
			Add 10% escalation::					7421.00
			Total unit rate arrived for the year 2026-27::					81633.00


Forest Range Officer,
Gangaram.


Forest Divisional Officer (FAC),
Guduru (W.L.M.).

Unit Cost for Raising of NTFP Plantations under Semi Mechanical Method as per FSR 2018-

19

Espacement 3 x 3 M

Name of the Species : NTFP

Sl. No	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1	02.09.02	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	1 Ha	3305.06	0	3305.06	1 Ha.	3305
2	02.09.01	Removing congestion of root suckers and other uprooted material hindering the effective ploughing	1 Ha	985.70	246.43	1232.13	1 Ha.	1232
3	02.09.04	Alignment & Stacking including demarcation of base line						
	a)	(c) 3X3 m espacement = 1111 planting points	1111 Nos	81.03	20.26	101.29	100 Nos	1125
4	02.09.05	Cost of preparation of stakes (0.45 m length) and transportation of site	1111 Nos	51.65	0.00	51.65	100 Nos	574
5	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 ³ pits	1111 Nos	9.65	2.41	12.06	1 No	13399
		PLANTING OPERATIONS DURING RAISING YEAR						
6	02.09.07	(a) Transportation of Planting Stock (including loading and unloading) up to a distance of 5 km						
	b	15 X 30 cm (6"X12") bag plants	1111 Nos	106.47	0	106.47	100 Nos	1183
7	02.09.10	Internal transportation to planting points on head loads						
	b	15 X 30 cm (6"X12") bag plants	1111 Nos	83.27	20.82	104.09	100 Nos	1156
	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	1111 Nos	35.62	8.91	44.53	100 Nos	495
9		(b) Cost of SSP, Chloridine dust or Chloropyriphos	84 Kgs	8.00	0.00	8.00	1 Kg	672
10		Planting						
	02.09.13	45 cm ³	1111 Nos	396.80	99.20	496.00	100 Nos	5511
	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)	1111 Nos	240.24	60.06	300.30	100 Nos	3336

11	02.09.15	Replacement of Casualties: 20% during Raising 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.						
5	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 ³ pits	222 Nos	9.65	2.41	12.06	1 No	2680
		PLANTING OPERATIONS DURING RAISING YEAR						
6	02.09.07	(a) Transportation of Planting Stock (including loading and unloading) up to a distance of 5 km						
	b	15 X 30 cm (6"X12") bag plants	222 Nos	106.47	0	106.47	100 Nos	237
7	02.09.10	Internal transportation to planting points on head loads						
	b	15 X 30 cm (6"X12") bag plants	222 Nos	83.27	20.82	104.09	100 Nos	231
	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	222 Nos	35.62	8.91	44.53	100 Nos	99
9		(b) Cost of SSP, Chloridine dust or Chloropyriphos	11 Kgs	8.00	0.00	8.00	1 Kg	88
10		Planting						
	02.09.13	45 cm ³	222 Nos	396.80	99.20	496.00	100 Nos	1102
12		Fertilizer Application for boosting growth						
	02.09.16	Cost of DAP @ 25 gm / planting point	28 Kgs	20.00	0.00	20.00	1 Kg	560
13	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.	1111 Nos	35.62	8.91	44.53	100 Nos	495
14		WEEDING & SOIL WORKING						
	02.09.18	Circular weeding to a radius of 0.50 m around the plant (during July - Aug)	1111 Nos	113.34	28.34	141.68	100 Nos	1574
	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.)	1111 Nos	595.23	148.81	744.04	100 Nos	8266
15	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						
	a	Ordinary soil	1 Ha	2253.79	0	2253.79	1 Ha.	2254
16	02.09.21	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height (to be done during October)	1111 Nos	112.68	28.17	140.85	100 Nos	1565
	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.	1 Ha	3311.47	827.87	4139.34	1 Ha.	4139

17	02.09.24	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and entry of grazing animals is stopped. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival at the end of raising year.	1 Nos	8340	0	8340	1 Month	2502
18	-----	Miscellaneous (Plantation Board and etc.,)				A/a		1002
								Total unit rate arrived for the year 2018-19:: 58782.00
								Add 10% escalation:: 5878.00
								Total unit rate arrived for the year 2019-20:: 64660.00
								Add 10% escalation:: 6466.00
								Total unit rate arrived for the year 2020-21:: 71126.00
								Add 10% escalation:: 7113.00
								Total unit rate arrived for the year 2021-22:: 78239.00
								Add 10% escalation:: 7824.00
								Total unit rate arrived for the year 2022-23:: 86063.00
								Add 10% escalation:: 8606.00
								Total unit rate arrived for the year 2024-25:: 94669.00
								Add 10% escalation:: 9467.00
								Total unit rate arrived for the year 2025-26:: 104136.00
								Add 10% escalation:: 10414.00
								Total unit rate arrived for the year 2026-27:: 114550.00

B. Narayana
Forest Range Officer,
Gangaram.


[Signature]
Forest Divisional Officer (FAC),
Gudur (W.L.M.).

**Unit Cost for 1st year maintenance of NTFP Plantations Raised under Semi Mechanical
Method as per FSR 2018-19**

Sl. No	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1	02.10.01	Replacement of Casualties: 25% in 1st year (In case of Eucalyptus: no casualty replacement). The list of all casualty points shall be prepared by concerned FRO by and made a report to DFO latest by end of May. The pitting of all such casualty points shall be over by end of June. The planting shall be completed by 15th of July.						
5	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 ³ pits	278 Nos	9.65	2.41	12.06	1 No	3350
		PLANTING OPERATIONS DURING RAISING YEAR						
6	02.09.07	(a) Transportation of Planting Stock (including loading and unloading) up to a distance of 5 km						
	b	15 X 30 cm (6"X12") bag plants	278 Nos	106.47	0	106.47	100 Nos	296
7	02.09.10	Internal transportation to planting points on head loads						
	b	15 X 30 cm (6"X12") bag plants	278 Nos	83.27	20.82	104.09	100 Nos	289
	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	278 Nos	35.62	8.91	44.53	100 Nos	124
9		(b) Cost of SSP, Chloridine dust or Chloropyriphos	14 Kgs	8.00	0.00	8.00	1 Kg	112
10		Planting						
	02.09.13	45 cm ³	278 Nos	396.80	99.20	496.00	100 Nos	1378
2	02.10.02	Circular weeding to a radius of 0.50 m around the plant during raising year (July - Aug)	1111 Nos	113.34	28.34	141.68	100 Nos	1574
3	02.10.03	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)	1111 Nos	595.23	148.81	744.04	100 Nos	8266
	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 August-end (before flowering) at any cost before inter-ploughing.	1 Ha	3311.47	0.00	3311.47	1 Ha.	3311
4	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. This operation shall be carried out after Mahaveera uprootal is completed. Inter-ploughing should not be used as a means of Mahaveera uprootal.	1 Ha	2253.79	0.00	2253.79	1 Ha.	2254
5	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)	1111 Nos	112.68	28.17	140.85	100 Nos	1565

	02.10.07	Broadcasting of Stylosanthes hamata seeds in the inter-planting rows of the plantations raised under semi-mechanical plantations by ploughing with a tractor-mounted cultivator after receipt of good rains in the month of June-July in place of existing provision of inter-ploughing in the month of September given for the 1st and 2nd year maintenance years of semi-						
		(a) Cost of S. hamata Seeds	5 Kgs		100.00	100.00	1 Kgm	500
		(b) Inter ploughing using tractors with cultivator in 1st year maintenance and old plantations	1 Ha	1810.61	0.00	1810.61	1 Ha.	1811
		(c) Broadcasting of S. hamata seeds followed by dragging / sweeping with a bunch of thorny branches to ensure a thin cover of soil over the broadcasted seeds	1 Ha	80.58	20.15	100.73	1 Ha.	101
6	02.10.08	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; one more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and entry of grazing animals is stopped.	1 Nos	8340.00	0.00	8340.00	1 Month	3336
								Total unit rate arrived for the year 2018-19:: 28267.00
								Add 10% escalation:: 2827.00
								Total unit rate arrived for the year 2019-20:: 31094.00
								Add 10% escalation:: 3109.00
								Total unit rate arrived for the year 2020-21:: 34203.00
								Add 10% escalation:: 3420.00
								Total unit rate arrived for the year 2021-22:: 37623.00
								Add 10% escalation:: 3762.00
								Total unit rate arrived for the year 2022-23:: 41385.00
								Add 10% escalation:: 4139.00
								Total unit rate arrived for the year 2024-25:: 45524.00
								Add 10% escalation:: 4552.00
								Total unit rate arrived for the year 2025-26:: 50076.00
								Add 10% escalation:: 5008.00
								Total unit rate arrived for the year 2026-27:: 55084.00



Forest Range Officer,
Gangaram.


Forest Divisional Officer (FAC),
Gudur (W.L.M.).

**Unit Cost for 2nd year maintenance of NTFP Plantations Raised under Semi Mechanical
Method as per FSR 2018-19**

Sl. No	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				As per FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1	02.11.01	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)	1111 Nos	595.23	148.81	744.04	100 Nos	8266
2	02.11.02	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be carried out during July-Aug)	1111 Nos	112.68	28.17	140.85	100 No	1565
3	02.11.05	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is absent. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival during 1st year maintainance	1 Nos	8340			1 Month	3336
4	-----	Miscellaneous contingencies like implements, plantation board display boards etc.,						740
				Total unit rate arrived for the year 2018-19::				13907.00
								Add 10% escalation:: 1391.00
								Total unit rate arrived for the year 2019-20:: 15298.00
								Add 10% escalation:: 1530.00
								Total unit rate arrived for the year 2020-21:: 16828.00
								Add 10% escalation:: 1683.00
								Total unit rate arrived for the year 2021-22:: 18511.00
								Add 10% escalation:: 1851.00
								Total unit rate arrived for the year 2022-23:: 20362.00
								Add 10% escalation:: 2036.00
								Total unit rate arrived for the year 2024-25:: 22398.00
								Add 10% escalation:: 2240.00
								Total unit rate arrived for the year 2025-26:: 24638.00
								Add 10% escalation:: 2464.00
								Total unit rate arrived for the year 2026-27:: 27102.00
								Add 10% escalation:: 2710.00
								Total unit rate arrived for the year 2027-28:: 29812.00
								Add 10% escalation:: 2981.00
								Total unit rate arrived for the year 2028-29:: 32793.00


Forest Range Officer,
Gangaram.


Forest Divisional Officer (FAC),
Gudur (W.L.M.).

Unit Cost for 3rd year maintenance of NTFP Plantations Raised under Semi Mechanical Method as per FSR 2018-19

Sl. No	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				As per FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1	02.11.01	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)	1111 Nos	595.23	148.81	744.04	100 Nos	8266
2	02.11.02	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be carried out during July-Aug)	1111 Nos	112.68	28.17	140.85	100 No	1565
3	02.11.05	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is absent. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival during '1st year maintainance	1 Nos	8340			1 Month	3336
4	-----	Miscellaneous contingines like implements, plantation board display boards etc.,						740
				Total unit rate arrived for the year 2018-19::				13907.00
				Add 10% escalation::				1391.00
				Total unit rate arrived for the year 2019-20::				15298.00
				Add 10% escalation::				1530.00
				Total unit rate arrived for the year 2020-21::				16828.00
				Add 10% escalation::				1683.00
				Total unit rate arrived for the year 2021-22::				18511.00
				Add 10% escalation::				1851.00
				Total unit rate arrived for the year 2022-23::				20362.00
				Add 10% escalation::				2036.00
				Total unit rate arrived for the year 2024-25::				22398.00
				Add 10% escalation::				2240.00
				Total unit rate arrived for the year 2025-26::				24638.00
				Add 10% escalation::				2464.00
				Total unit rate arrived for the year 2026-27::				27102.00
				Add 10% escalation::				2710.00
				Total unit rate arrived for the year 2027-28::				29812.00
				Add 10% escalation::				2981.00
				Total unit rate arrived for the year 2028-29::				32793.00
				Add 10% escalation::				3279.00
				Total unit rate arrived for the year 2029-30::				36072.00

Banabera
Forest Range Officer,
Gangaram.

[Signature]
Forest Divisional Officer (FAC),
Guduru (W.L.M.).

Unit Cost for 4th year maintenance of NTSB Plantations Raised under Semi Mechanical Method as per FSR 2018-19

Sl. No	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1	02.11.01	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)	1111 Nos	595.23	148.81	744.04	100 Nos	8266
2	02.11.02	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be carried out during July-Aug)	1111 Nos	112.68	28.17	140.85	100 No	1565
3	02.11.05	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is absent. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival during 1st year maintainance	1 Nos	8340			1 Month	3336
4	-----	Miscellaneous contingeines like implements, plantation board display boards etc.,						740
			Total unit rate arrived for the year 2018-19::					13907.00
						Add 10% escalation::		1391.00
			Total unit rate arrived for the year 2019-20::					15298.00
						Add 10% escalation::		1530.00
			Total unit rate arrived for the year 2020-21::					16828.00
						Add 10% escalation::		1683.00
			Total unit rate arrived for the year 2021-22::					18511.00
						Add 10% escalation::		1851.00
			Total unit rate arrived for the year 2022-23::					20362.00
						Add 10% escalation::		2036.00
			Total unit rate arrived for the year 2024-25::					22398.00
						Add 10% escalation::		2240.00
			Total unit rate arrived for the year 2025-26::					24638.00
						Add 10% escalation::		2464.00
			Total unit rate arrived for the year 2026-27::					27102.00
						Add 10% escalation::		2710.00
			Total unit rate arrived for the year 2027-28::					29812.00
						Add 10% escalation::		2981.00
			Total unit rate arrived for the year 2028-29::					32793.00
						Add 10% escalation::		3279.00
			Total unit rate arrived for the year 2029-30::					36072.00
						Add 10% escalation::		3607.00
			Total unit rate arrived for the year 2030-31::					39679.00



Forest Range Officer,
Gangaram.


Forest Divisional Officer (FAC),
Guduru (W.L.M.).

**Unit Cost for 5th year maintenance of NTFP Plantations Raised under Semi Mechanical
Method as per FSR 2018-19**

Sl. No	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1	02.11.01.	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)	1111 Nos	595.23	148.81	744.04	100 Nos	8266
2	02.11.02	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be carried out during July-Aug)	1111 Nos	112.68	28.17	140.85	100 No	1565
3	02.11.05	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is absent. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival during 1st year maintainance	1 Nos	8340			1 Month	3336
4	-----	Miscellaneous contingines like implements, plantation board display boards etc.,						740
				Total unit rate arrived for the year 2018-19::				13907.00
				Add 10% escalation::				1391.00
				Total unit rate arrived for the year 2019-20::				15298.00
				Add 10% escalation::				1530.00
				Total unit rate arrived for the year 2020-21::				16828.00
				Add 10% escalation::				1683.00
				Total unit rate arrived for the year 2021-22::				18511.00
				Add 10% escalation::				1851.00
				Total unit rate arrived for the year 2022-23::				20362.00
				Add 10% escalation::				2036.00
				Total unit rate arrived for the year 2024-25::				22398.00
				Add 10% escalation::				2240.00
				Total unit rate arrived for the year 2025-26::				24638.00
				Add 10% escalation::				2464.00
				Total unit rate arrived for the year 2026-27::				27102.00
				Add 10% escalation::				2710.00
				Total unit rate arrived for the year 2027-28::				29812.00
				Add 10% escalation::				2981.00
				Total unit rate arrived for the year 2028-29::				32793.00
				Add 10% escalation::				3279.00
				Total unit rate arrived for the year 2029-30::				36072.00
				Add 10% escalation::				3607.00
				Total unit rate arrived for the year 2030-31::				39679.00
				Add 10% escalation::				3968.00
				Total unit rate arrived for the year 2031-32::				43647.00



Forest Range Officer,
Gangaram.


Forest Divisional Officer (FAC),
Gudur (W.L.M.).

**Unit Cost for 6th year maintenance of NTFP Plantations Raised under Semi Mechanical
Method as per FSR 2018-19**

Sl. No	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1	02.11.01	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)	1111 Nos	595.23	148.81	744.04	100 Nos	8266
2	02.11.02	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be carried out during July-Aug)	1111 Nos	112.68	28.17	140.85	100 No	1565
3	02.11.05	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is absent. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival during 1st year maintainance	1 Nos	8340			1 Month	3336
4	-----	Miscellaneous contingencies like implements, plantation board display boards etc.,						740
				Total unit rate arrived for the year 2018-19::				13907.00
								Add 10% escalation:: 1391.00
								Total unit rate arrived for the year 2019-20:: 15298.00
								Add 10% escalation:: 1530.00
								Total unit rate arrived for the year 2020-21:: 16828.00
								Add 10% escalation:: 1683.00
								Total unit rate arrived for the year 2021-22:: 18511.00
								Add 10% escalation:: 1851.00
								Total unit rate arrived for the year 2022-23:: 20362.00
								Add 10% escalation:: 2036.00
								Total unit rate arrived for the year 2024-25:: 22398.00
								Add 10% escalation:: 2240.00
								Total unit rate arrived for the year 2025-26:: 24638.00
								Add 10% escalation:: 2464.00
								Total unit rate arrived for the year 2026-27:: 27102.00
								Add 10% escalation:: 2710.00
								Total unit rate arrived for the year 2027-28:: 29812.00
								Add 10% escalation:: 2981.00
								Total unit rate arrived for the year 2028-29:: 32793.00
								Add 10% escalation:: 3279.00
								Total unit rate arrived for the year 2029-30:: 36072.00
								Add 10% escalation:: 3607.00
								Total unit rate arrived for the year 2030-31:: 39679.00
								Add 10% escalation:: 3968.00
								Total unit rate arrived for the year 2031-32:: 43647.00
								Add 10% escalation:: 4365.00
								Total unit rate arrived for the year 2032-33:: 48012.00



Forest Range Officer,
Gangaram.


Forest Divisional Officer (FAC),
Guduru (W.L.M.).

Unit Cost for 7th year maintenance of NTFP Plantations Raised under Semi Mechanical Method as per FSR 2018-19

Sl. No	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1	02.11.01	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)	1111 Nos	595.23	148.81	744.04	100 Nos	8266
2	02.11.02	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be carried out during July-Aug)	1111 Nos	112.68	28.17	140.85	100 No	1565
3	02.11.05	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is absent. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival during 1st year maintainance	1 Nos	8340			1 Month	3336
4	-----	Miscellaneous continginees like implements, plantation board display boards etc.,						740
			Total unit rate arrived for the year 2018-19::					13907.00
						Add 10% escalation::		1391.00
			Total unit rate arrived for the year 2019-20::					15298.00
						Add 10% escalation::		1530.00
			Total unit rate arrived for the year 2020-21::					16828.00
						Add 10% escalation::		1683.00
			Total unit rate arrived for the year 2021-22::					18511.00
						Add 10% escalation::		1851.00
			Total unit rate arrived for the year 2022-23::					20362.00
						Add 10% escalation::		2036.00
			Total unit rate arrived for the year 2024-25::					22398.00
						Add 10% escalation::		2240.00
			Total unit rate arrived for the year 2025-26::					24638.00
						Add 10% escalation::		2464.00
			Total unit rate arrived for the year 2026-27::					27102.00
						Add 10% escalation::		2710.00
			Total unit rate arrived for the year 2027-28::					29812.00
						Add 10% escalation::		2981.00
			Total unit rate arrived for the year 2028-29::					32793.00
						Add 10% escalation::		3279.00
			Total unit rate arrived for the year 2029-30::					36072.00
						Add 10% escalation::		3607.00
			Total unit rate arrived for the year 2030-31::					39679.00
						Add 10% escalation::		3968.00
			Total unit rate arrived for the year 2031-32::					43647.00
						Add 10% escalation::		4365.00
			Total unit rate arrived for the year 2032-33::					48012.00


Forest Range Officer,
Gangaram.


Forest Divisional Officer (FAC),
Gudur (W.L.M.).

ANNEXURE- 2 (B)

Unit Cost for Advance Operations under Semi Mechanical Method as per FSR 2018-19

Espacement 5 x 5 M

Name of the Species : Bamboo

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1	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.	1 No.	339.66	0.00	339.66	1 No.	340
2	02.08.02	Clearing unsalable unwanted jungle growth (leaving all the tree species of good form particularly the hardwood tree species like Teak, Nallamaddi, Yegisa, Narepa, Somi, 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 excuded from the clearing opearation and the expenditure shall be incurred for effective area only. All the above operations shall be completed						
a)	c	Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on field inspection of DFO.	1 Ha	5686.75	1421.69	7108.44	1 Ha	7108
3	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 retrived 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.						
a)	c	Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on field inspection of DFO.	1 Ha	12664.86	0	12664.86	1 Ha	12665
4	02.08.04	Collection and Removal of Uprooted Stumps of all sizes, other debris etc., to outside the plantation site						
a)	c	Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on field inspection of DFO.	1 Ha	9916.46	2479.12	12395.58	1 Ha	12396

5	02.08.05	Tilling (PERMISSIBLE FOR CA AREA ONLY) the soil to a depth of 45 cm in the effective area (excluding unsuitable patches) with heavy duty machinery fitted with 0.90 cum and above capacity bucket and levelling - ONLY PERMISSIBLE FOR CA AREA 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 area).The uprootal and tilling works shall be done preferably through tender process and the execution of work should be						
a)	c	Light Jungle Growth (> 20% and upto 30% ground area covered with Jungle growth) with prior written approval of DFO based on field inspection of DFO.	1 Ha	9380.64	0.00	9380.64	1 Ha	9381
			Total unit rate arrived for the year 2018-19::					41890.00
			Add 10% escalation::					4189.00
			Total unit rate arrived for the year 2019-20::					46079.00
			Add 10% escalation::					4608.00
			Total unit rate arrived for the year 2020-21::					50687.00
			Add 10% escalation::					5069.00
			Total unit rate arrived for the year 2021-22::					55756.00
			Add 10% escalation::					5576.00
			Total unit rate arrived for the year 2022-23::					61332.00
			Add 10% escalation::					6133.00
			Total unit rate arrived for the year 2024-25::					67465.00
			Add 10% escalation::					6747.00
			Total unit rate arrived for the year 2025-26::					74212.00
			Add 10% escalation::					7421.00
			Total unit rate arrived for the year 2026-27::					81633.00
			Add 10% escalation::					8163.00
			Total unit rate arrived for the year 2027-28::					89796.00

Forest Range Officer,
Gangaram.

Forest Divisional Officer (FAC),
Gudur (W.L.M.).

**Unit Cost for Raising of Bamboo Plantations under Semi Mechanical Method as per FSR
2018-19**

Espacement 5 x 5 M


Name of the Species : Bamboo cum NTS

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1	02.09.02	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	1 Ha	3305.06	0	3305.06	1 Ha.	3305
2	02.09.01	Removing congestion of root suckers and other uprooted material hindering the effective ploughing	1 Ha	985.70	246.43	1232.13	1 Ha.	1232
3	02.09.04	Alignment & Stacking including demarcation of base line						
a)	d	(d) 5X5 m espacement = 400 planting points	400 Nos	107.86	26.97	134.83	100 Nos	539
4	02.09.05	Cost of preparation of stakes (0.45 m length) and transportation of site	400 Nos	51.65	0.00	51.65	100 Nos	207
5	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 cm3 pits	400 Nos	9.65	2.41	12.06	1 No	4824
		PLANTING OPERATIONS DURING RAISING YEAR						
6	02.09.07	(a) Transportation of Planting Stock (including loading and unloading) up to a distance of 5						
	b	15 X 30 cm (6"X12") bag plants	400 Nos	106.47	0	106.47	100 Nos	426
7	02.09.10	Internal transportation to planting points on head loads						
	b	15 X 30 cm (6"X12") bag plants	400 Nos	83.27	20.82	104.09	100 Nos	416
	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	400 Nos	35.62	8.91	44.53	100 Nos	178
9		(b) Cost of SSP, Chloridine dust or Chloropyriphos	20 Kgs	8.00	0.00	8.00	1 Kg	160
10		Planting						
	02.09.13	45 cm3	400 Nos	396.80	99.20	496.00	100 Nos	1984
	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)	400 Nos	240.24	60.06	300.30	100 Nos	1201

11	02.09.15	Replacement of Casualties: 20% during Raising 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.						
5	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 cm3 pits	80 Nos	9.65	2.41	12.06	1 No	965
		PLANTING OPERATIONS DURING RAISING YEAR						
6	02.09.07	(a) Transportation of Planting Stock (including loading and unloading) up to a distance of 5						
	b	15 X 30 cm (6"X12") bag plants	80 Nos	106.47	0	106.47	100 Nos	85
7	02.09.10	Internal transportation to planting points on head loads						
	b	15 X 30 cm (6"X12") bag plants	80 Nos	83.27	20.82	104.09	100 Nos	83
	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	80 Nos	35.62	8.91	44.53	100 Nos	36
9		(b) Cost of SSP, Chloridine dust or Chloropyriphos	4 Kgs	8.00	0.00	8.00	1 Kg	32
10		Planting						
	02.09.13	45 cm3	80 Nos	396.80	99.20	496.00	100 Nos	397
12		Fertilizer Application for boosting growth						
	02.09.16	Cost of DAP @ 25 gm / planting point	10 Kgs	20.00	0.00	20.00	1 Kg	200
13	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.	400 Nos	35.62	8.91	44.53	100 Nos	178
14		WEEDING & SOIL WORKING						
	02.09.18	Circular weeding to a radius of 0.50 m around the plant (during July - Aug)	400 Nos	113.34	28.34	141.68	100 Nos	567
	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.)	400 Nos	595.23	148.81	744.04	100 Nos	2976
15	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	Ordinary soil	1 Ha	2253.79	0	2253.79	1 Ha.	2254
	02.09.21	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height (to be done during October)	400 Nos	112.68	28.17	140.85	100 Nos	563

	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.	1 Ha	3311.47	827.87	4139.34	1 Ha.	4139
17	02.09.24	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and entry of grazing animals is stopped. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival at the end of raising year.	1 Nos	8340	0	8340	1 Month	2502
18	-----	Miscellaneous (Plantation Board and etc.,)				A/a		1002
			Total unit rate arrived for the year 2018-19::					30451.00
			Add 10% escalation::					3045.00
			Total unit rate arrived for the year 2019-20::					33496.00
			Add 10% escalation::					3350.00
			Total unit rate arrived for the year 2020-21::					36846.00
			Add 10% escalation::					3685.00
			Total unit rate arrived for the year 2021-22::					40531.00
			Add 10% escalation::					4053.00
			Total unit rate arrived for the year 2022-23::					44584.00
			Add 10% escalation::					4458.00
			Total unit rate arrived for the year 2024-25::					49042.00
			Add 10% escalation::					4904.00
			Total unit rate arrived for the year 2025-26::					53946.00
			Add 10% escalation::					5395.00
			Total unit rate arrived for the year 2026-27::					59341.00
			Add 10% escalation::					5934.00
			Total unit rate arrived for the year 2027-28::					65275.00



Forest Range Officer,
Gangaram.


Forest Divisional Officer (FAC),
Gudur (W.L.M.).

Unit Cost for 1st year maintenance of Bamboo Plantations Raised under Semi Mechanical Method as per FSR 2018-19

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1	02.10.01	Replacement of Casualties: 25% in 1st year (In case of Eucalyptus: no casualty replacement). The list of all casualty points shall be prepared by concerned FRO by and made a report to DFO latest by end of May. The pitting of all such casualty points shall be over by end of June. The planting shall be completed by 15th of July.						
5	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 ³ pits	100 Nos	9.65	2.41	12.06	1 No	1206
		PLANTING OPERATIONS DURING RAISING YEAR						
6	02.09.07	(a) Transportation of Planting Stock (including loading and unloading) up to a distance of 5 km						
	b	15 X 30 cm (6"X12") bag plants	100 Nos	106.47	0	106.47	100 Nos	106
7	02.09.10	Internal transportation to planting points on head loads						
	b	15 X 30 cm (6"X12") bag plants	100 Nos	83.27	20.82	104.09	100 Nos	104
	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	100 Nos	35.62	8.91	44.53	100 Nos	45
9		(b) Cost of SSP, Chloridine dust or Chloropyriphos	5 Kgs	8.00	0.00	8.00	1 Kg	40
10		Planting						
	02.09.13	45 cm ³	100 Nos	396.80	99.20	496.00	100 Nos	496
2	02.10.02	Circular weeding to a radius of 0.50 m around the plant during raising year (July - Aug)	400 Nos	113.34	28.34	141.68	100 Nos	567
3	02.10.03	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)	400 Nos	595.23	148.81	744.04	100 Nos	2976
	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 August-end (before flowering) at any cost before inter-ploughing.	1 Ha	3311.47	0.00	3311.47	1 Ha.	3311
4	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. This operation shall be carried out after Mahaveera uprootal is completed. Inter-ploughing should not be used as a means of Mahaveera uprootal.	1 Ha	2253.79	0.00	2253.79	1 Ha.	2254

6	02.10.08	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; one more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and entry of grazing animals is	1	Nos	8340.00	0.00	8340.00	1	Month	3336
			Total unit rate arrived for the year 2018-19::							14441.00
			Add 10% escalation::							1444.00
			Total unit rate arrived for the year 2019-20::							15885.00
			Add 10% escalation::							1589.00
			Total unit rate arrived for the year 2020-21::							17474.00
			Add 10% escalation::							1747.00
			Total unit rate arrived for the year 2021-22::							19221.00
			Add 10% escalation::							1922.00
			Total unit rate arrived for the year 2022-23::							21143.00
			Add 10% escalation::							2114.00
			Total unit rate arrived for the year 2024-25::							23257.00
			Add 10% escalation::							2326.00
			Total unit rate arrived for the year 2025-26::							25583.00
			Add 10% escalation::							2558.00
			Total unit rate arrived for the year 2026-27::							28141.00
			Add 10% escalation::							2814.00
			Total unit rate arrived for the year 2027-28::							30955.00

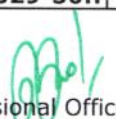

Forest Range Officer,
Gangaram.


Forest Divisional Officer (FAC),
Gudur (W.L.M.).

Unit Cost for 2nd year maintenance of Bamboo Plantations Raised under Semi Mechanical Method as per FSR 2018-19


Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				As per FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1	02.11.01	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)	400 Nos	595.23	148.81	744.04	100 Nos	2976
2	02.11.02	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be carried out during July-Aug)	400 Nos	112.68	28.17	140.85	100 Nos	563
3	02.11.05	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is absent. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival during 1st year maintainance	1 Nos	8340			1 Month	3336
4	-----	Miscellaneous contingencies like implements, plantation board display boards etc.,						731
				Total unit rate arrived for the year 2018-19::				7606.00
								Add 10% escalation:: 761.00
				Total unit rate arrived for the year 2019-20::				8367.00
								Add 10% escalation:: 837.00
				Total unit rate arrived for the year 2020-21::				9204.00
								Add 10% escalation:: 920.00
				Total unit rate arrived for the year 2021-22::				10124.00
								Add 10% escalation:: 1012.00
				Total unit rate arrived for the year 2022-23::				11136.00
								Add 10% escalation:: 1114.00
				Total unit rate arrived for the year 2024-25::				12250.00
								Add 10% escalation:: 1225.00
				Total unit rate arrived for the year 2025-26::				13475.00
								Add 10% escalation:: 1348.00
				Total unit rate arrived for the year 2026-27::				14823.00
								Add 10% escalation:: 1482.00
				Total unit rate arrived for the year 2027-28::				16305.00
								Add 10% escalation:: 1631.00
				Total unit rate arrived for the year 2028-29::				17936.00
								Add 10% escalation:: 1794.00
				Total unit rate arrived for the year 2029-30::				19730.00



Forest Range Officer,
Gangaram.


Forest Divisional Officer (FAC),
Gudur (W.L.M.).

Unit Cost for 3rd year maintenance of Bamboo Plantations Raised under Semi Mechanical Method as per FSR 2018-19

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				As per FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1	02.11.01	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)	400 Nos	595.23	148.81	744.04	100 Nos	2976
2	02.11.02	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be carried out during July-Aug)	400 Nos	112.68	28.17	140.85	100 Nos	563
3	02.11.05	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is absent. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival during 1st year maintainance	1 Nos	8340			1 Month	3336
4	-----	Miscellaneous contingencies like implements, plantation board display boards etc.,						731
				Total unit rate arrived for the year 2018-19::				7606.00
								Add 10% escalation:: 761.00
				Total unit rate arrived for the year 2019-20::				8367.00
								Add 10% escalation:: 837.00
				Total unit rate arrived for the year 2020-21::				9204.00
								Add 10% escalation:: 920.00
				Total unit rate arrived for the year 2021-22::				10124.00
								Add 10% escalation:: 1012.00
				Total unit rate arrived for the year 2022-23::				11136.00
								Add 10% escalation:: 1114.00
				Total unit rate arrived for the year 2024-25::				12250.00
								Add 10% escalation:: 1225.00
				Total unit rate arrived for the year 2025-26::				13475.00
								Add 10% escalation:: 1348.00
				Total unit rate arrived for the year 2026-27::				14823.00
								Add 10% escalation:: 1482.00
				Total unit rate arrived for the year 2027-28::				16305.00
								Add 10% escalation:: 1631.00
				Total unit rate arrived for the year 2028-29::				17936.00
								Add 10% escalation:: 1794.00
				Total unit rate arrived for the year 2029-30::				19730.00
								Add 10% escalation:: 1973.00
				Total unit rate arrived for the year 2030-31::				21703.00



Forest Range Officer,
Gangaram.


Forest Divisional Officer (FAC),
Guduru (W.L.M.).

Unit Cost for 4th year maintenance of Bamboo Plantations Raised under Semi Mechanical Method as per FSR 2018-19

Method as per FSR 2018-19								
Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				As per FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1	02.11.01	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)	400 Nos	595.23	148.81	744.04	100 Nos	2976
2	02.11.02	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be carried out during July-Aug)	400 Nos	112.68	28.17	140.85	100 Nos	563
3	02.11.05	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is absent. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival during 1st year maintainance	1 Nos	8340			1 Mont h	3336
4	-----	Miscellaneous contingines like implements, plantation board display boards etc.,						731
			Total unit rate arrived for the year 2018-19::					7606.00
			Add 10% escalation::					761.00
			Total unit rate arrived for the year 2019-20::					8367.00
			Add 10% escalation::					837.00
			Total unit rate arrived for the year 2020-21::					9204.00
			Add 10% escalation::					920.00
			Total unit rate arrived for the year 2021-22::					10124.00
			Add 10% escalation::					1012.00
			Total unit rate arrived for the year 2022-23::					11136.00
			Add 10% escalation::					1114.00
			Total unit rate arrived for the year 2024-25::					12250.00
			Add 10% escalation::					1225.00
			Total unit rate arrived for the year 2025-26::					13475.00
			Add 10% escalation::					1348.00
			Total unit rate arrived for the year 2026-27::					14823.00
			Add 10% escalation::					1482.00
			Total unit rate arrived for the year 2027-28::					16305.00
			Add 10% escalation::					1631.00
			Total unit rate arrived for the year 2028-29::					17936.00
			Add 10% escalation::					1794.00
			Total unit rate arrived for the year 2029-30::					19730.00
			Add 10% escalation::					1973.00
			Total unit rate arrived for the year 2030-31::					21703.00
			Add 10% escalation::					2170.00
			Total unit rate arrived for the year 2031-32::					23873.00



Forest Range Officer,
Gangaram.


Forest Divisional Officer (FAC),
Guduru (W.L.M.).

Unit Cost for 5th year maintenance of Bamboo Plantations Raised under Semi Mechanical Method as per FSR 2018-19

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1	02.11.01	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)	400 Nos	595.23	148.81	744.04	100 Nos	2976
2	02.11.02	Pruning of lower branch initials of Timber and NTFP species by scicature upto 1/3 rd height (to be carried out during July-Aug)	400 Nos	112.68	28.17	140.85	100 Nos	563
3	02.11.05	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is absent. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival during 1st year maintainance	1 Nos	8340			1 Month	3336
4	-----	Miscellaneous contingencies like implements, plantation board display boards etc.,						731
				Total unit rate arrived for the year 2018-19::				7606.00
								Add 10% escalation:: 761.00
				Total unit rate arrived for the year 2019-20::				8367.00
								Add 10% escalation:: 837.00
				Total unit rate arrived for the year 2020-21::				9204.00
								Add 10% escalation:: 920.00
				Total unit rate arrived for the year 2021-22::				10124.00
								Add 10% escalation:: 1012.00
				Total unit rate arrived for the year 2022-23::				11136.00
								Add 10% escalation:: 1114.00
				Total unit rate arrived for the year 2024-25::				12250.00
								Add 10% escalation:: 1225.00
				Total unit rate arrived for the year 2025-26::				13475.00
								Add 10% escalation:: 1348.00
				Total unit rate arrived for the year 2026-27::				14823.00
								Add 10% escalation:: 1482.00
				Total unit rate arrived for the year 2027-28::				16305.00
								Add 10% escalation:: 1631.00
				Total unit rate arrived for the year 2028-29::				17936.00
								Add 10% escalation:: 1794.00
				Total unit rate arrived for the year 2029-30::				19730.00
								Add 10% escalation:: 1973.00
				Total unit rate arrived for the year 2030-31::				21703.00
								Add 10% escalation:: 2170.00
				Total unit rate arrived for the year 2031-32::				23873.00
								Add 10% escalation:: 2387.00
				Total unit rate arrived for the year 2032-33::				26260.00



Forest Range Officer,
Gangaram.


Forest Divisional Officer (FAC),
Guduru (W.L.M.).

Unit Cost for 6th year maintenance of Bamboo Plantations Raised under Semi Mechanical Method as per FSR 2018-19

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				As per FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1	02.11.01	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)	400 Nos	595.23	148.81	744.04	100 Nos	2976
2	02.11.02	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height (to be carried out during July-Aug)	400 Nos	112.68	28.17	140.85	100 Nos	563
3	02.11.05	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is absent. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival during 1st year maintenance	1 Nos	8340			1 Month	3336
4	-----	Miscellaneous contingencies like implements, plantation board display boards etc.,						731
				Total unit rate arrived for the year 2018-19::				7606.00
								Add 10% escalation:: 761.00
				Total unit rate arrived for the year 2019-20::				8367.00
								Add 10% escalation:: 837.00
				Total unit rate arrived for the year 2020-21::				9204.00
								Add 10% escalation:: 920.00
				Total unit rate arrived for the year 2021-22::				10124.00
								Add 10% escalation:: 1012.00
				Total unit rate arrived for the year 2022-23::				11136.00
								Add 10% escalation:: 1114.00
				Total unit rate arrived for the year 2024-25::				12250.00
								Add 10% escalation:: 1225.00
				Total unit rate arrived for the year 2025-26::				13475.00
								Add 10% escalation:: 1348.00
				Total unit rate arrived for the year 2026-27::				14823.00
								Add 10% escalation:: 1482.00
				Total unit rate arrived for the year 2027-28::				16305.00
								Add 10% escalation:: 1631.00
				Total unit rate arrived for the year 2028-29::				17936.00
								Add 10% escalation:: 1794.00
				Total unit rate arrived for the year 2029-30::				19730.00
								Add 10% escalation:: 1973.00
				Total unit rate arrived for the year 2030-31::				21703.00
								Add 10% escalation:: 2170.00
				Total unit rate arrived for the year 2031-32::				23873.00
								Add 10% escalation:: 2387.00
				Total unit rate arrived for the year 2032-33::				26260.00
								Add 10% escalation:: 2626.00
				Total unit rate arrived for the year 2033-34::				28886.00


Forest Range Officer,
Gangaram.


Forest Divisional Officer (FAC),
Guduru (W.L.M.).

Unit Cost for 7th year maintenance of Bamboo Plantations Raised under Semi Mechanical Method as per FSR 2018-19

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1	02.11.01	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)	0 Nos	595.23	148.81	744.04	100 Nos	0
2	02.11.02	Pruning of lower branch initials of Timber and NTFP species by sciculture upto 1/3 rd height (to be carried out during July-Aug)	400 Nos	112.68	28.17	140.85	100 Nos	563
3	02.11.05	Cost of Protection: One Watcher is allowed for 10-30 ha. plantation; One more Watcher for more than 30 ha; and if the area is less than 10 ha, prior approval of Conservator of Forests is required. Identity Photo of Watchers shall be pasted in respective Plantation Journal. Every month payment to be made after satisfaction by Plantation-in-charge that fence is in proper condition and incidence of grazing and fire is absent. The guiding principle for continuation of the services of a Plantation Watcher is at least 80% survival during 1st year maintenance	1 Nos	8340			1 Month	3336
4	-----	Miscellaneous contingencies like implements, plantation board display boards etc.,						731
				Total unit rate arrived for the year 2018-19::				4630.00
								Add 10% escalation:: 463.00
								Total unit rate arrived for the year 2019-20:: 5093.00
								Add 10% escalation:: 509.00
								Total unit rate arrived for the year 2020-21:: 5602.00
								Add 10% escalation:: 560.00
								Total unit rate arrived for the year 2021-22:: 6162.00
								Add 10% escalation:: 616.00
								Total unit rate arrived for the year 2022-23:: 6778.00
								Add 10% escalation:: 678.00
								Total unit rate arrived for the year 2024-25:: 7456.00
								Add 10% escalation:: 746.00
								Total unit rate arrived for the year 2025-26:: 8202.00
								Add 10% escalation:: 820.00
								Total unit rate arrived for the year 2026-27:: 9022.00
								Add 10% escalation:: 902.00
								Total unit rate arrived for the year 2027-28:: 9924.00
								Add 10% escalation:: 992.00
								Total unit rate arrived for the year 2028-29:: 10916.00
								Add 10% escalation:: 1092.00
								Total unit rate arrived for the year 2029-30:: 12008.00
								Add 10% escalation:: 1201.00
								Total unit rate arrived for the year 2030-31:: 13209.00
								Add 10% escalation:: 1321.00
								Total unit rate arrived for the year 2031-32:: 14530.00
								Add 10% escalation:: 1453.00
								Total unit rate arrived for the year 2032-33:: 15983.00
								Add 10% escalation:: 1598.00
								Total unit rate arrived for the year 2033-34:: 17581.00


Forest Range Officer,
Gangaram.


Forest Divisional Officer (FAC),
Gudur (W.L.M.).

**Unit Cost for Raising of Bund Plantation (1.00km) around Raising of Misc., Plantation
Planting with 2 m apart in (5) rows**

- 1) Bamboo (2 rows) = 1000 Nos per KM
2) Kanuga (1 row) = 500 Nos per KM
3) Teak stumps (1 row) = 500 Nos per KM
4) Babul Seed (1 row) = 500 Nos per KM

Sl. No.	FSR Code No.	Item of work	Qty	Rate in Rs.			Per	Amount
				Asper FSR	Agency allowanc e 25%	Total		
1	2	3	4	5	6	7	8	9
1		Digging of Pits in Ploughed Areas in June - July by adopting 50% of original rate of digging of pits of ordinary soil						
	02.09.06	45 cm3 pits						
a)		Bamboo (2 Rows)	1000 Nos	4.83	1.21	6.03	1 No	6031
b)		Kanuga (1 Row)	500 Nos	4.83	1.21	6.03	1 No	3016
2		Transportation of Planting Stock (including loading and unloading) 25 KMs						
		From nursery to plantation site - upto 5 Km lead						
	02.09.07	15 X 30 cm (6"X12") bag plants						
a)		Bamboo (2 Rows)	1000 Nos	106.47	0.00	106.47	100 Nos	1065
b)		Kanuga (1 Row)	500 Nos	106.47	0.00	106.47	100 Nos	532
3		For every extra km beyond 5 km upto 25 km						
	02.09.08	15 X 30 cm (6"X12") bag plants						
a)		Bamboo (2 Rows)	1000 Nos	74.40	0.00	74.40	100 Nos	744
b)		Kanuga (1 Row)	500 Nos	74.40	0.00	74.40	100 Nos	372
4		Internal transportation to planting points on head loads						
	02.09.10	15 X 30 cm (6"X12") bag plants						
a)		Bamboo (2 Rows)	1000 Nos	83.27	20.82	104.09	100 Nos	1041
b)		Kanuga (1 Row)	500 Nos	83.27	20.82	104.09	100 Nos	520
5		Planting						
	02.09.13	45 cm3						
a)		Bamboo (2 Rows)	1000 Nos	396.80	99.20	496.00	100 Nos	4960
b)		Kanuga (1 Row)	500 Nos	396.80	99.20	496.00	100 Nos	2480
6	02.05.06	Digging crow-bar holes of 23 cm (9") deep and Planting stumps in crow-bar holes upto collar level and closing and compacting so that it cannot be pulled up easily duly keeping the 2 cm of root-shoot stump above the ground. Entire stump planting should be over by end of June to facilitate good sprouting taking advantage of humidity.						
a)		Teak Stumps (1 Row)	1000 Nos	52.36	11.99	59.94	100 Nos	599
b)		Babul Seed (1 Row)	500 Nos	52.36	11.99	59.94	100 Nos	300
		Total unit rate arrived for the year 2018-19::						21660.34
		Add 10% escalation::						2166.00
		Total unit rate arrived for the year 2019-20::						23826.34
		Add 10% escalation::						2383.00
		Total unit rate arrived for the year 2020-21::						26209.34
		Add 10% escalation::						2621.00
		Total unit rate arrived for the year 2021-22::						28830.34

B. Narayan
Forest Range Officer,
Gangaram.

[Signature]
Forest Divisional Officer (FAC),
Gudur (W.L.M.).