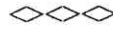


**COMPENSATORY AFFORESTATION SCHEME PROPOSALS FOR IMPROVEMENT OF DOUBLE THE DEGRADED FOREST LAND (0.344X2) IN KOMARARAM RANGE IN LIEU OF DIVERSION OF 0.344 Ha OUT OF 1.997 HA FOREST LAND IN SHATPALLI RESERVE FOREST OF KOMARARAM RANGE OF YELLANDU DIVISION FOR LAYING OF OPTICAL FIBER CABLE ALONG THE ROAD AND WITHIN THE EXISTING RIGHT OF WAY IN FAVOUR OF M/s. RELIANCE JIO INFOCOMM LIMITED.**



**I. INTRODUCTION:**

The Principal Chief Conservator of Forests, Telangana State, Hyderabad vide Rc.No.18971/2017/FCA-1, Dt:10.02.2018 has informed through the reference cited that the proposals for diversion of forest land in favour of M/s. Reliance Jio Infocomm Limited for laying of Optical Fiber Cable along the road and within the existing Right of Way were forwarded for processing of proposal under Forest (Conservation) Act, 1980 and Wildlife Protection Act, 1972 and also instructed to submit the CA Scheme proposals for double the area diverted. In lieu of CA on non forest land, the user agency shall re-afforest double the extent of degraded forest in the RF. The Principal Chief Conservator of Forests, Telangana State, Hyderabad vide reference No. 18971/2017/FCA-1, Dt.07.02.2019 has also issued instructions to identify double the degraded forest land in Yellandu Division (i.e., 0.344X2 = **0.688 Ha. or 0.70 Ha.**) and to prepare the CA Scheme proposals. Accordingly, the Forest Range Officer, Komararam identified the following degraded forest area for 1.00 Ha. and certified the suitability. The details are as follows.

Sl. No.	Range	Section	Beat	Block	Compt. No.	Area in Ha
1	Komararam	Manikyaram	Vampugudem	Shatpalli	21	Identified area 1.00 Ha Planting area 0.70 Ha
					<b>Total :</b>	<b>0.70 Ha</b>

In lieu of diversion of Forest land over an extent 0.344 Ha. for M/s. Reliance Jio Infocomm Limited in Shatpalli Reserve Forest in Komararam Range of Yellandu Forest Division, an extent of 0.70 Ha. (Double the Degraded Forest Area) is proposed for treatment and improvement in Komararam Range of Yellandu Division.

The degraded forest area where the growth is less than 0.4 density is proposed for treatment under Afforestation Scheme including Raising of plantations, Soil and Moisture Conservation works and Reserve Forest Boundary Demarcation.

Certain degraded areas, comprise of Barren Hillocks are proposed for Raising of Afforestation plantations. Digging of Continuous Peripheral Trench all along the boundary of the degraded forest block area and other protective operations are proposed to be taken up with a twin objective of moisture conservation, improvement of existing growth and boundary demarcation. Scheme is prepared with an outlay of **Rs.13.387 Lakhs** for development of Degraded Forest area.

Accordingly, an Action Plan for raising of Compensatory Afforestation plantation in degraded forest areas of Compt. No.21 of Shetpalli Reserve Forest, Vampugudem Beat of

Manikyaram Section in Komararam Range of Yellandu Division Division is Prepared with an outlay of **Rs.13.387 Lakhs** for raising miscellaneous Plantations and related activities.

**PROJECT COST :**

The total financial out lay of the project is as follows:

S.No	Scheme Proposals	Cost in Lakhs
1	Forest Protection including Fire protection & SMC works.	0.997
2	Compensatory Afforestation in Degraded Forest Area	2.752
3	Soil and Moisture Conservation Plan	9.00
4	Administrative Cost	0.64
	<b>Total:</b>	<b>13.387</b>

**LOCATION OF THE AREA PROPOSED FOR COMPENSATORY AFFORESTATION IN DEGRADED FOREST AREA:**

**A:** The Compensatory Afforestation Scheme is aimed at improvement of the density and ultimately quality of Forests. With this in mind, degraded Forest areas of Compt. No. 21 of Shetpalli Reserve Forest of Komararam Range of Yellandu Division is proposed for treatment. In general the above Compartment is having good degraded and coppice natural growth of Chennangi, Palakodisha, Teak, Ullanda, Tirumanu, Billudu, Somi, Bontha, Sandra, etc. Natural regeneration is taking place but due to continuous biotic pressure on the land and fire it is not getting established.

It is proposed to stabilize such growth. Suitable areas were identified for treatment with appropriate interventions as the area has become degraded due to excessive biotic interference. The excess biotic interference has disturbed the ecological cycle as all the Bio-diversity including fauna and flora have been damaged to a great extent. There is every need to rehabilitate and protect the environment for the sake of Bio-diversity. Number of cattle enter into the Forests from nearby villages for grazing and uncontrolled removal of fuelwood and poles for household purposes.

**LEGAL STATUS OF THE PROPOSED CA AREA:**

The proposed degraded area falling in Compt. No. 21 of Shetpalli Reserve Forest of Vampugudem Beat of Manikyaram, Section, Komararam Range of Yellandu Division is notified Under Section 19 of Andhra Pradesh Forest Act, 1967 vide G.O.Ms.No.1219, dt. 7.12.1353 F.

The compartment wise areas are as follows:

Sl. No.	Bit No.	Compt. No.	Reserved Forest Block	Total Area of the Block (In Ha)	Net area proposed for treatment available (In Ha)
1	1	21	Shetpalli	11789.10	1.00 Ha identified, out of this 0.70 Ha planting area
				<b>G-Total:</b>	<b>0.70</b>

**The Compartment wise areas selected for CA treatment are as follows:**

Sl. No.	Block	Compt. No.	Total Area	Net area available for CA	Species in the area
1	Shatpally (Black soil, Sandy loam & some hillocks)	21	11789.10	0.70	The area is covered with degraded coppice growth of misc.species like Chennangi, Palakodisha, Teak, Ullanda, Tirumanu, Billudu, Somi, Bontha, Sandra, etc.,
		<b>TOTAL:</b>	<b>11789.10</b>	<b>0.70</b>	

The selected area consists of hillocks, with steep to gentle slopes, some are degraded plain areas with accessibility to roads and are degraded mainly due to biotic interference and are found suitable for Compensatory Afforestation. Most of these areas were retrieved from illegal encroachers and if not immediately brought under afforestation, there is possibility of encroachment.

#### **SOIL DESCRIPTION AND TERRAIN:**

In the proposed area, the soils are eroded and are ranging from Black Soil, Sandy loam with some hillocks here and there. There are several streams and streamlets running downwards from the hillocks causing soil erosion.

#### **FLORA AND FAUNA:**

In the proposed degraded Forest area the species available are mainly degraded coppice growth of Billudu Chennangi, Palakodisha, Teak, Ullanda, Tirumanu, Billudu, Somi, Bontha, Sandra, etc. The Wild animals found in the selected area are Wild boar, Spotted Deer, Chousingha, Hare, Peacocks, Sambar, etc. Thus steps such as restoration of the vegetation, provision of sufficient water sources to the wild animals, provision of fodder and legume and overall protection is proposed.

#### **TREATMENT MODELS:**

It is proposed to treat the Degraded Forest areas under the following Treatment models. It is proposed to treat the Degraded Forest areas under the following Treatment models.

- a) Model-I : Protection of Reserve Forests by Protection from Fire.
- b) Model-II: Artificial Regeneration
- (i) **Raising of plantations in degraded forest areas**

Identified degraded area of 1.00 Ha. is proposed to take up Mini Percolation Tank and Raising of plantation and maintenance etc., for taking up afforestation works.

The above Afforestation and Reforestation works shall be carried out either by involvement of VSS members or through Departmental execution.

#### **I. Model I: Demarcation of Permanent Forest Boundaries in the form of Cattle Proof Trench (CPT) and Improvement of Soil Moisture by way of SMC works:**

- a) Most of these areas identified for Compensatory Afforestation area are having good viable root stock. Offering absolute protection to these degraded areas from Biotic pressure is the best course of action for developing the area into productive forests. Continuous peripheral Trench all along the boundary of the Compensatory Afforestation area is proposed to be taken up with a twin objective of moisture conservation and boundary demarcation. Wherever it is not possible to dig a trench due to striking of hard stratum of rock, it is proposed to take up stone wall with rubble masonry or Erection of chain link fence as per filed conditions and local availability of materials.
- b) Fire management will also form an important part of the forest management and stand improvement strategy. Protection of these areas from fire, grazing and illicit felling is absolutely essential to improve the stand and it is proposed to be ensured either through Vana Samrakshana Samithies (VSS) or Departmental execution. Therefore, 5mtr wide fire lines are proposed in the above identified area.

- c) Digging of Percolation Tanks or Mini percolation tank wherever required in the identified degraded forest area where the existing 2<sup>nd</sup> order nallahs are there.

## II. Model II; Artificial Regeneration

### RAISING OF PLANTATIONS – PLANTING ON PLAINS/DEGRADED FOREST AREAS

To compensate the loss of Valuable forest growth in the Diverted Reserved forest areas, it is proposed to raise certain plantations in the degraded forest areas.

#### a. **NON TEAK SECOUNDARY HORDWOOD SPECIES (NTSH) PLANTATIONS:**

It is proposed to raise the above model of plantation under **Semi Mechanical Method (SMM)** through intensive site preparation practices. The operations to be carried out are Survey and demarcation, clearing the miscellaneous jungle growth, Digging of Staggered contour Trenches and planting at 3 X 3 m espacement in 45 centimeter cube pits. All other cultural operations like Weeding's, Soil workings, manuring etc., will be provided for Seven years excluding raising year duly following the PCCF instructions.

## III. Soil and Moisture Conservation Plan:

- (i) The area is undulating and hence proposed taking up of Contour Trenches of 45 Cms. wide, 5 Mts. Long and 30 Cms. Depth @ 100 Cmt. / Ha. in 400 Ha. = 40000 Cmt. @ Rs.42.40 per Cmt.
- (ii) Construction of percolation tank depending upon the terrain at an average 1 No. @ 3.00 Lakhs each.
- (iii) Provision for solar bore well with pump facility and over head tank for providing water to the wild animals.
  - (a) Solar Motor and Bore well – 1 No. @ 6.00 Lakhs each.

## IV. Administrative Costs (Over Heads)

As the work involved is a massive one and involves lot of record maintenance, book keeping and intensive mobility of the field officers, it is required to provide 5% of treatment cost towards over heads. The proposals under over heads are for hiring of Jeeps, engaging of Technical Assistant, automation of office of Forest Range Officers, Erection of watch tower, Barrier gate, Erection of Base camp, Utility payments of Division Office and Range Offices, Stationary and Computer peripherals, Maintenance and repairs, POL charges of Division Office etc.

## V. PROJECT COST:

The total financial out lay of the project is **Rs. 13.387 Lakhs**

The annual requirement of funds have been worked out on the base cost of 2018-19 FSR with 10% annual escalation for the remaining project period up to 2029-30.

The component wise details in brief are as follows.

S.No	Scheme Proposals	Cost in Lakhs
1	Forest Protection including Fire protection & SMC works.	0.997
2	Compensatory Afforestation in Degraded Forest Area	2.752
3	Soil and Moisture Conservation Plan	9.00
4	Administrative Cost	0.64
	<b>Total:</b>	<b>13.387</b>

6. **MODE OF EXECUTION:**


It is proposed to implement the above proposals through VSS on Joint Forest Management concept or by Departmental execution method wherever possible. In addition to the existing staff of Forest Department with required logistic support, necessary manpower required for effective implementation of the project will be hired through outsourcing.

Digging of Peripheral trench work, SMC works and other Afforestation works are being carried out in the above said proposed degraded forest area through ongoing Schemes, like TKHH. Hence, left over works if any as per this scheme will be carried out in the adjoining Forest Blocks of Gangaram Range.

**Annexures:**

Annexure	I	Abstract of Compensatory Afforestation Scheme in Degraded Forest Area.
Annexure	II	Year wise Estimated cost Compensatory Afforestation in Degraded Forest Area.
Annexure	III	Unit cost Data sheets

  
Forest Range Officer,  
Komararam.

  
Forest Divisional Officer,  
Yellandu.

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**RANGE, R.F, BLOCK AND COMPARTMENT WISE - COMPENSATORY AFFORESTATION SCHEME PROPOSALS FOR IMPROVEMENT OF DOUBLE THE DEGARDED FOREST LAND (1.493X2) IN KOMARARAM RANGE IN LIEU OF DIVERSION OF 0.344 HA FOREST LAND IN SHETPALLI RESERVE FOREST OF KOMARARAM RANGE OF YELLANDU DIVISION FOR LAYING OF OPTICAL FIBER CABLE ALONG THE ROAD AND WITHIN THE EXISTING RIGHT OF WAY IN FAVOUR OF M/s. RELIANCE JIO INFOCOMM LIMITED IN YELLANDU DIVISION**

Sl. No	Name of the Range	Name of the Forest Block	Compt. No.	Area for C.A	Artificial Regeneration by SMM - 1388.318 Ha			G.Total	Remarks
					Bamboo plantation at an espacement of 5mx5m	NTSH plantation at an espacement of 3mx3m (1111 plants per ha) (0.70 Ha)	Total (6+7)		
1	2	3	4	5	6	7	8	9	10
1	Komararam	Shetpalli	21	0.70	0.00	0.70	0.70	0.70	
			<b>G. Total</b>	<b>0.70</b>	<b>0.00</b>	<b>0.70</b>	<b>0.70</b>	<b>0.70</b>	



Forest Range Officer  
Komararam



Forest Divisional Officer,  
Yellandu

**ABSTRACT - Annexure - I**

COMPENSATORY AFFORESTATION SCHEME PROPOSALS FOR IMPROVEMENT OF DOUBLE THE DEGRADED FOREST LAND (0.344X2) IN KOMARAM RANGE IN LIEU OF DIVERSION OF 0.344 HA FOREST LAND IN SHETPALLI RESERVE FOREST OF KOMARAM RANGE OF YELLANDU DIVISION FOR LAYING OF OPTICAL FIBER CABLE ALONG THE ROAD AND WITHIN THE EXISTING RIGHT OF WAY IN FAVOUR OF M/s. RELIANCE JIO INFOCOMM LIMITED IN YELLANDU DIVISION

Sl No	Component	2018-19		2019-20		2020-21		2021-22		2022-23		2023-24		2024-25		2025-26		2026-27		2027-28		2028-29		2029-30		Total			
		Phy	Fin.	Phy	Fin.	Phy	Fin.	Phy	Fin.	Phy	Fin.	Phy	Fin.	Phy	Fin.	Phy	Fin.	Phy	Fin.	Phy	Fin.	Phy	Fin.	Phy	Fin.	Phy	Fin.	Phy	Fin.
1	2	3	5	6	8	9	11	12	14	15	17	18	20	21	23	24	26	27	29	30	32	33	35	36	38	39	40		
I(a)	Protection Measures	0	0.000	0	0.727	0	0.155	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	1	0.883
I(b)	Fire protection & Fire tracing	0	0.000	100	0.008	100	0.007	100	0.007	100	0.008	100	0.009	100	0.010	100	0.011	100	0.012	100	0.013	100	0.014	100	0.016	1100	0.1145	0.997	
	<b>S.Total</b>		<b>0.000</b>		<b>0.735</b>		<b>0.162</b>		<b>0.007</b>		<b>0.008</b>		<b>0.009</b>		<b>0.010</b>		<b>0.011</b>		<b>0.012</b>		<b>0.013</b>		<b>0.014</b>		<b>0.016</b>		<b>0.016</b>		<b>0.997</b>
2	Afforestation	0	0.000	0	0.705	0	0.548	0	0.290	0	0.157	0	0.172	0	0.190	0	0.209	0	0.230	0	0.252	0	0.000	0	0.000	0	0.000	0	2.752
3	Soil and Moisture Conservation Plan	0	0.000	0	0.000	0	9.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	9.000
	<b>S. Total (I to III)</b>		<b>0.000</b>		<b>1.441</b>		<b>9.71</b>		<b>0.297</b>		<b>0.165</b>		<b>0.181</b>		<b>0.199</b>		<b>0.219</b>		<b>0.241</b>		<b>0.265</b>		<b>0.014</b>		<b>0.016</b>		<b>11.752</b>		
4	Administrative cost:	0	0.000	0	0.072	0	0.485	0	0.015	0	0.008	0	0.009	0	0.010	0	0.011	0	0.012	0	0.013	0	0.001	0	0.001	0	0.001	0	0.637
	<b>G.Total</b>		<b>0.000</b>		<b>2.248</b>		<b>10.357</b>		<b>0.319</b>		<b>0.181</b>		<b>0.199</b>		<b>0.219</b>		<b>0.241</b>		<b>0.265</b>		<b>0.292</b>		<b>0.029</b>		<b>0.032</b>		<b>13.387</b>		

**Forest Range Officer  
Komaram**

**Forest Divisional Officer,  
Yellandu**

*[Signature]*  
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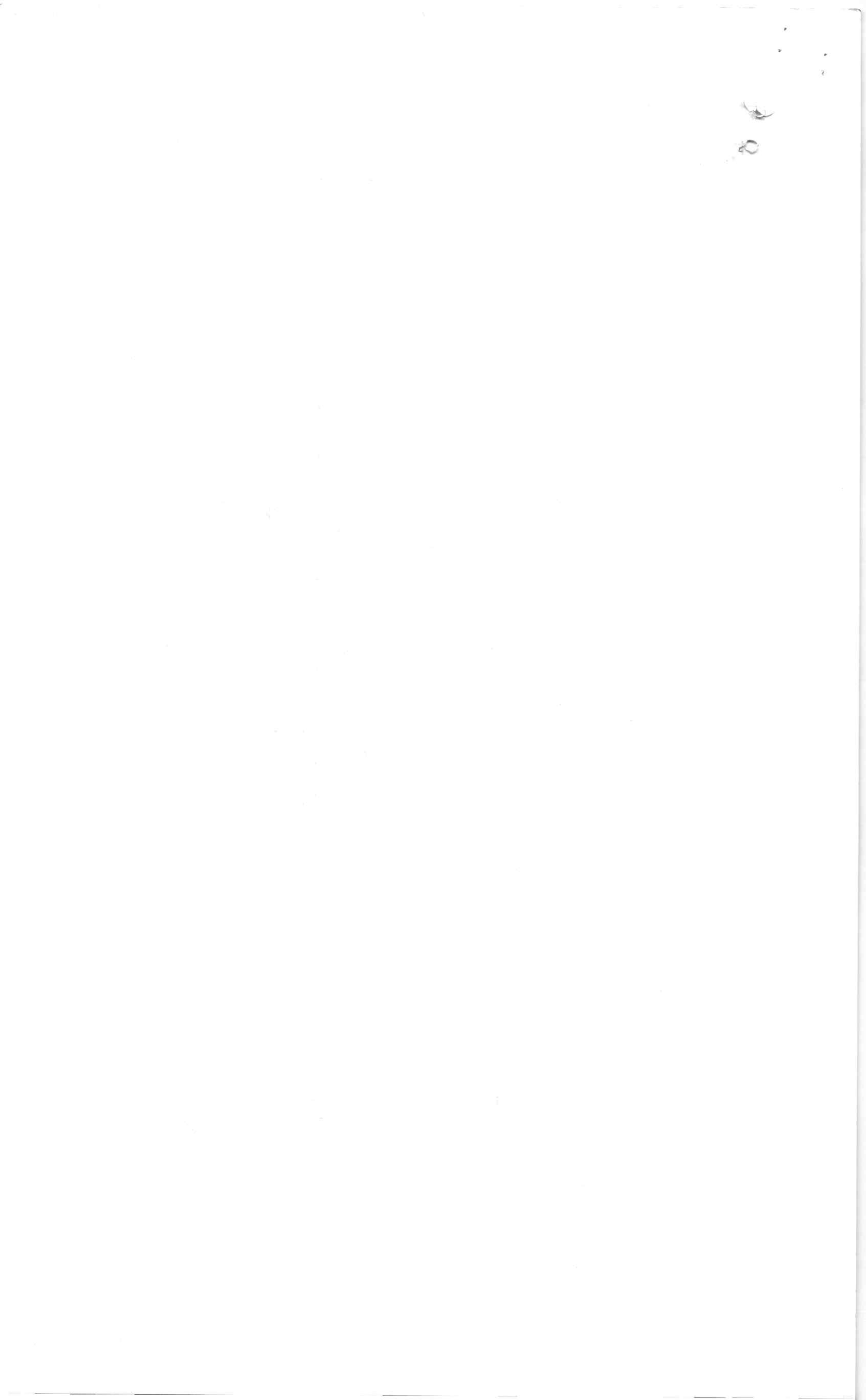




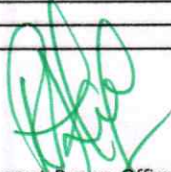
**Unit Cost for Raising of Misc., Nursery (4x7) in the year 2018-19 as per FSR 2018-19**

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
							<b>S.TOTAL::</b>	<b>718.46</b>
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 actuals.								
		<b>Transportation of soil mixture ingredients</b>								
	a)	<b>a) Distance up to 5 km</b>								
	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>b) For every extra km beyond 5 km upto 25 km</b>								
	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 firger tips and arranging in beds								
	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		<b>Watering the plants twice a day from Feb - Mar</b>								
	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	<b>Weeding to be done for every 2 months from the date of transplantation up to March</b>	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 hifting	278.84
									<b>S.TOTAL::</b>	<b>6628.14</b>
26	01.03.22	<b>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).</b>								
	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 actuals.								



01.03.24	<b>Transportation of soil mixture ingredients</b>								
	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 Novemebr - 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. 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 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 beds 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.	1	No.					2001.00
<b>S.TOTAL::</b>									<b>7139.60</b>
<b>Total unit rate arrived for the year 2018-19::</b>									<b>7139.60</b>
<b>Add 10% escalation::</b>									<b>714.00</b>
<b>Total unit rate arrived for the year 2019-20::</b>									<b>7853.60</b>
<b>Add 10% escalation::</b>									<b>785.00</b>
<b>Total unit rate arrived for the year 2020-21::</b>									<b>8638.60</b>
<b>Add 10% escalation::</b>									<b>864.00</b>
<b>Total unit rate arrived for the year 2021-22::</b>									<b>9502.60</b>

  
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**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	<b>MAINTAINANCE OF BAG PLANTS NURSERY UPTO PLANTING SEASON (APRIL TO AUGUST)</b> 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 shift inn	223.07	55.77	278.84	1 Bed/ shifting	558.00
4	01.04.06	<b>Cowdung Slurry application (One can apply chemical foliar spray or apply cowdung slurry - not both)</b>							
		(a) Cost and transportation of fresh cowdung	1	Bed	As per actual subject to maximum of Rs. 2500/-			per 100 beds for 3 month	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 provisions cited under general	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
								<b>S.TOTAL::</b>	<b>2449.39</b>
								<b>Unit Rate as per FSR 2017-18::</b>	<b>2449.39</b>
								<b>Add 10% escalation::</b>	<b>245.00</b>
								<b>Total unit rate arrived for the year 2018-19::</b>	<b>2694.39</b>
								<b>Add 10% escalation::</b>	<b>269.00</b>
								<b>Total unit rate arrived for the year 2019-20::</b>	<b>2963.39</b>
								<b>Add 10% escalation::</b>	<b>296.00</b>
								<b>Total unit rate arrived for the year 2020-21::</b>	<b>3259.39</b>
								<b>Add 10% escalation::</b>	<b>326.00</b>
								<b>Total unit rate arrived for the year 2021-22::</b>	<b>3585.39</b>
								<b>Add 10% escalation::</b>	<b>359.00</b>
								<b>Total unit rate arrived for the year 2022-23::</b>	<b>3944.39</b>

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

Sr. 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	
	1.05	<b>MAINTENANCE OF BAG NURSERY FROM SEPTEMBER ONWARDS TILL DISPOSAL</b>							
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 instructions.	1 No.						667.00
							<b>S.TOTAL::</b>	<b>2803.00</b>	
							<b>Unit Rate as per FSR 2017-18::</b>	<b>2803.00</b>	
							<b>Add 10% escalation::</b>	<b>280.00</b>	
							<b>Total unit rate arrived for the year 2018-19::</b>	<b>3083.00</b>	
							<b>Add 10% escalation::</b>	<b>308.00</b>	
							<b>Total unit rate arrived for the year 2019-20::</b>	<b>3391.00</b>	
							<b>Add 10% escalation::</b>	<b>339.00</b>	
							<b>Total unit rate arrived for the year 2020-21::</b>	<b>3730.00</b>	
							<b>Add 10% escalation::</b>	<b>373.00</b>	
							<b>Total unit rate arrived for the year 2021-22::</b>	<b>4103.00</b>	
							<b>Add 10% escalation::</b>	<b>410.00</b>	
							<b>Total unit rate arrived for the year 2022-23::</b>	<b>4513.00</b>	

  
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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	
				As per FSR	Agency allowance 25%	Total			
1	2	3	4	5	6	7	8	9	
	1.05	<b>MAINTENANCE OF BAG NURSERY FROM SEPTEMBER ONWARDS TILL DISPOSAL</b>							
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 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.	1 No.						334.00
<b>S.TOTAL::</b>								<b>1402.00</b>	
<b>Unit Rate as per FSR 2017-18::</b>								<b>1402.00</b>	
<b>Add 10% escalation::</b>								<b>140.00</b>	
<b>Total unit rate arrived for the year 2018-19::</b>								<b>1542.00</b>	
<b>Add 10% escalation::</b>								<b>154.00</b>	
<b>Total unit rate arrived for the year 2019-20::</b>								<b>1696.00</b>	
<b>Add 10% escalation::</b>								<b>170.00</b>	
<b>Total unit rate arrived for the year 2020-21::</b>								<b>1866.00</b>	
<b>Add 10% escalation::</b>								<b>187.00</b>	
<b>Total unit rate arrived for the year 2021-22::</b>								<b>2053.00</b>	
<b>Add 10% escalation::</b>								<b>205.00</b>	
<b>Total unit rate arrived for the year 2022-23::</b>								<b>2258.00</b>	

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**

  
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**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	<b>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 before December</b>						
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	<b>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</b>						
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	<b>Collection and Removal of Uprooted Stumps of all sizes, other debris etc., to outside the plantation site.</b>						
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	<b>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 March.</b>						

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
								<b>Total unit rate arrived for the year 2018-19:: 41890.00</b>
								<b>Add 10% escalation:: 4189.00</b>
								<b>Total unit rate arrived for the year 2019-20:: 46079.00</b>
								<b>Add 10% escalation:: 4608.00</b>
								<b>Total unit rate arrived for the year 2020-21:: 50687.00</b>
								<b>Add 10% escalation:: 5069.00</b>
								<b>Total unit rate arrived for the year 2021-22:: 55756.00</b>
								<b>Add 10% escalation:: 5576.00</b>
								<b>Total unit rate arrived for the year 2022-23:: 61332.00</b>
								<b>Add 10% escalation:: 6133.00</b>
								<b>Total unit rate arrived for the year 2024-25:: 67465.00</b>
								<b>Add 10% escalation:: 6747.00</b>
								<b>Total unit rate arrived for the year 2025-26:: 74212.00</b>
								<b>Add 10% escalation:: 7421.00</b>
								<b>Total unit rate arrived for the year 2026-27:: 81633.00</b>

  
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**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	<b>Alignment &amp; Stacking including demarcation of base line</b>						
	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 cm3 pits	1111 Nos	9.65	2.41	12.06	1 No	13399
		<b>PLANTING OPERATIONS DURING RAISING YEAR</b>						
6	02.09.07	<b>(a) Transportation of Planting Stock (including loading and unloading) up to a distance of 5 km</b>						
	b	15 X 30 cm (6"X12") bag plants	1111 Nos	106.47	0	106.47	100 Nos	1183
7	02.09.10	<b>Internal transportation to planting points on head loads</b>						
	b	15 X 30 cm (6"X12") bag plants	1111 Nos	83.27	20.82	104.09	100 Nos	1156
	02.09.11	<b>Fortification of seedling with insecticide and treating pits with SSP</b>						
		(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		<b>Planting</b>						
	02.09.13	45 cm3	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 <sup>3</sup> pits	222 Nos	9.65	2.41	12.06	1 No		2680
		<b>PLANTING OPERATIONS DURING RAISING YEAR</b>							
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		<b>Planting</b>							
	02.09.13	45 cm <sup>3</sup>	222 Nos	396.80	99.20	496.00	100 Nos		1102
12		<b>Fertilizer Application for boosting growth</b>							
	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		<b>WEEDING &amp; SOIL WORKING</b>							
	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 Board (FMB) plough							
	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 scicature 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	
								<b>Total unit rate arrived for the year 2018-19::</b>	<b>58782.00</b>
								<b>Add 10% escalation::</b>	<b>5878.00</b>
								<b>Total unit rate arrived for the year 2019-20::</b>	<b>64660.00</b>
								<b>Add 10% escalation::</b>	<b>6466.00</b>
								<b>Total unit rate arrived for the year 2020-21::</b>	<b>71126.00</b>
								<b>Add 10% escalation::</b>	<b>7113.00</b>
								<b>Total unit rate arrived for the year 2021-22::</b>	<b>78239.00</b>
								<b>Add 10% escalation::</b>	<b>7824.00</b>
								<b>Total unit rate arrived for the year 2022-23::</b>	<b>86063.00</b>
								<b>Add 10% escalation::</b>	<b>8606.00</b>
								<b>Total unit rate arrived for the year 2024-25::</b>	<b>94669.00</b>
								<b>Add 10% escalation::</b>	<b>9467.00</b>
								<b>Total unit rate arrived for the year 2025-26::</b>	<b>104136.00</b>
								<b>Add 10% escalation::</b>	<b>10414.00</b>
								<b>Total unit rate arrived for the year 2026-27::</b>	<b>114550.00</b>

  
Forest Range Officer  
Komararam

  
Forest Divisional Officer,  
Yellandu

**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 <sup>3</sup> pits	278 Nos	9.65	2.41	12.06	1 No	3350
		<b>PLANTING OPERATIONS DURING RAISING YEAR</b>						
6	02.09.07	<b>(a) Transportation of Planting Stock (including loading and unloading) up to a distance of 5 km</b>						
	b	15 X 30 cm (6"X12") bag plants	278 Nos	106.47	0	106.47	100 Nos	296
7	02.09.10	<b>Internal transportation to planting points on head loads</b>						
	b	15 X 30 cm (6"X12") bag plants	278 Nos	83.27	20.82	104.09	100 Nos	289
	02.09.11	<b>Fortification of seedling with insecticide and treating pits with SSP</b>						
		(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 Chloropyriohos 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		<b>Planting</b>						
	02.09.13	45 cm <sup>3</sup>	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 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
							<b>Total unit rate arrived for the year 2018-19:: 28267.00</b>
							<b>Add 10% escalation:: 2827.00</b>
							<b>Total unit rate arrived for the year 2019-20:: 31094.00</b>
							<b>Add 10% escalation:: 3109.00</b>
							<b>Total unit rate arrived for the year 2020-21:: 34203.00</b>
							<b>Add 10% escalation:: 3420.00</b>
							<b>Total unit rate arrived for the year 2021-22:: 37623.00</b>
							<b>Add 10% escalation:: 3762.00</b>
							<b>Total unit rate arrived for the year 2022-23:: 41385.00</b>
							<b>Add 10% escalation:: 4139.00</b>
							<b>Total unit rate arrived for the year 2024-25:: 45524.00</b>
							<b>Add 10% escalation:: 4552.00</b>
							<b>Total unit rate arrived for the year 2025-26:: 50076.00</b>
							<b>Add 10% escalation:: 5008.00</b>
							<b>Total unit rate arrived for the year 2026-27:: 55084.00</b>

  
 Forest Range Officer  
 Komararam

  
 Forest Divisional Officer,  
 Yellandu

**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
				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 period.	1 Nos	8340			1 Month	3336
4	-----	Miscellaneous contingeines like implements, plantation board display boards etc.,						740
<b>Total unit rate arrived for the year 2018-19::</b>								<b>13907.00</b>
<b>Add 10% escalation::</b>								<b>1391.00</b>
<b>Total unit rate arrived for the year 2019-20::</b>								<b>15298.00</b>
<b>Add 10% escalation::</b>								<b>1530.00</b>
<b>Total unit rate arrived for the year 2020-21::</b>								<b>16828.00</b>
<b>Add 10% escalation::</b>								<b>1683.00</b>
<b>Total unit rate arrived for the year 2021-22::</b>								<b>18511.00</b>
<b>Add 10% escalation::</b>								<b>1851.00</b>
<b>Total unit rate arrived for the year 2022-23::</b>								<b>20362.00</b>
<b>Add 10% escalation::</b>								<b>2036.00</b>
<b>Total unit rate arrived for the year 2024-25::</b>								<b>22398.00</b>
<b>Add 10% escalation::</b>								<b>2240.00</b>
<b>Total unit rate arrived for the year 2025-26::</b>								<b>24638.00</b>
<b>Add 10% escalation::</b>								<b>2464.00</b>
<b>Total unit rate arrived for the year 2026-27::</b>								<b>27102.00</b>
<b>Add 10% escalation::</b>								<b>2710.00</b>
<b>Total unit rate arrived for the year 2027-28::</b>								<b>29812.00</b>
<b>Add 10% escalation::</b>								<b>2981.00</b>
<b>Total unit rate arrived for the year 2028-29::</b>								<b>32793.00</b>

  
Forest Range Officer  
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**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 sciculture 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 period.	1 Nos	8340			1 Month	3336
4	-----	Miscellaneous contingeines like implements, plantation board display boards etc.,						740
<b>Total unit rate arrived for the year 2018-19::</b>								<b>13907.00</b>
<b>Add 10% escalation::</b>								<b>1391.00</b>
<b>Total unit rate arrived for the year 2019-20::</b>								<b>15298.00</b>
<b>Add 10% escalation::</b>								<b>1530.00</b>
<b>Total unit rate arrived for the year 2020-21::</b>								<b>16828.00</b>
<b>Add 10% escalation::</b>								<b>1683.00</b>
<b>Total unit rate arrived for the year 2021-22::</b>								<b>18511.00</b>
<b>Add 10% escalation::</b>								<b>1851.00</b>
<b>Total unit rate arrived for the year 2022-23::</b>								<b>20362.00</b>
<b>Add 10% escalation::</b>								<b>2036.00</b>
<b>Total unit rate arrived for the year 2024-25::</b>								<b>22398.00</b>
<b>Add 10% escalation::</b>								<b>2240.00</b>
<b>Total unit rate arrived for the year 2025-26::</b>								<b>24638.00</b>
<b>Add 10% escalation::</b>								<b>2464.00</b>
<b>Total unit rate arrived for the year 2026-27::</b>								<b>27102.00</b>
<b>Add 10% escalation::</b>								<b>2710.00</b>
<b>Total unit rate arrived for the year 2027-28::</b>								<b>29812.00</b>
<b>Add 10% escalation::</b>								<b>2981.00</b>
<b>Total unit rate arrived for the year 2028-29::</b>								<b>32793.00</b>
<b>Add 10% escalation::</b>								<b>3279.00</b>
<b>Total unit rate arrived for the year 2029-30::</b>								<b>36072.00</b>


  
Forest Range Officer  
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**Unit Cost for 4th year maintenance of NTSH 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 sciculture 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 period.	1 Nos	8340			1 Month	3336
4	-----	Miscellaneous contingeines like implements, plantation board display boards etc.,						740
<b>Total unit rate arrived for the year 2018-19::</b>								<b>13907.00</b>
<b>Add 10% escalation::</b>								<b>1391.00</b>
<b>Total unit rate arrived for the year 2019-20::</b>								<b>15298.00</b>
<b>Add 10% escalation::</b>								<b>1530.00</b>
<b>Total unit rate arrived for the year 2020-21::</b>								<b>16828.00</b>
<b>Add 10% escalation::</b>								<b>1683.00</b>
<b>Total unit rate arrived for the year 2021-22::</b>								<b>18511.00</b>
<b>Add 10% escalation::</b>								<b>1851.00</b>
<b>Total unit rate arrived for the year 2022-23::</b>								<b>20362.00</b>
<b>Add 10% escalation::</b>								<b>2036.00</b>
<b>Total unit rate arrived for the year 2024-25::</b>								<b>22398.00</b>
<b>Add 10% escalation::</b>								<b>2240.00</b>
<b>Total unit rate arrived for the year 2025-26::</b>								<b>24638.00</b>
<b>Add 10% escalation::</b>								<b>2464.00</b>
<b>Total unit rate arrived for the year 2026-27::</b>								<b>27102.00</b>
<b>Add 10% escalation::</b>								<b>2710.00</b>
<b>Total unit rate arrived for the year 2027-28::</b>								<b>29812.00</b>
<b>Add 10% escalation::</b>								<b>2981.00</b>
<b>Total unit rate arrived for the year 2028-29::</b>								<b>32793.00</b>
<b>Add 10% escalation::</b>								<b>3279.00</b>
<b>Total unit rate arrived for the year 2029-30::</b>								<b>36072.00</b>
<b>Add 10% escalation::</b>								<b>3607.00</b>
<b>Total unit rate arrived for the year 2030-31::</b>								<b>39679.00</b>

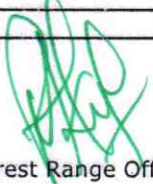
  
Forest Range Officer  
Komararam

  
Forest Divisional Officer,

Yellandu  


**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 sciculture 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 period.	1 Nos	8340			1 Month	3336
4	-----	Miscellaneous contingencies like implements, plantation board display boards etc.,						740
								<b>Total unit rate arrived for the year 2018-19:: 13907.00</b>
								<b>Add 10% escalation:: 1391.00</b>
								<b>Total unit rate arrived for the year 2019-20:: 15298.00</b>
								<b>Add 10% escalation:: 1530.00</b>
								<b>Total unit rate arrived for the year 2020-21:: 16828.00</b>
								<b>Add 10% escalation:: 1683.00</b>
								<b>Total unit rate arrived for the year 2021-22:: 18511.00</b>
								<b>Add 10% escalation:: 1851.00</b>
								<b>Total unit rate arrived for the year 2022-23:: 20362.00</b>
								<b>Add 10% escalation:: 2036.00</b>
								<b>Total unit rate arrived for the year 2024-25:: 22398.00</b>
								<b>Add 10% escalation:: 2240.00</b>
								<b>Total unit rate arrived for the year 2025-26:: 24638.00</b>
								<b>Add 10% escalation:: 2464.00</b>
								<b>Total unit rate arrived for the year 2026-27:: 27102.00</b>
								<b>Add 10% escalation:: 2710.00</b>
								<b>Total unit rate arrived for the year 2027-28:: 29812.00</b>
								<b>Add 10% escalation:: 2981.00</b>
								<b>Total unit rate arrived for the year 2028-29:: 32793.00</b>
								<b>Add 10% escalation:: 3279.00</b>
								<b>Total unit rate arrived for the year 2029-30:: 36072.00</b>
								<b>Add 10% escalation:: 3607.00</b>
								<b>Total unit rate arrived for the year 2030-31:: 39679.00</b>
								<b>Add 10% escalation:: 3968.00</b>
								<b>Total unit rate arrived for the year 2031-32:: 43647.00</b>

  
Forest Range Officer  
Komararam

  
Forest Divisional Officer,

Yellandu  


**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
				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 sciculture 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 period.	1 Nos	8340			1 Month	3336
4	-----	Miscellaneous contingines like implements, plantation board display boards etc.,						740
<b>Total unit rate arrived for the year 2018-19::</b>								<b>13907.00</b>
<b>Add 10% escalation::</b>								<b>1391.00</b>
<b>Total unit rate arrived for the year 2019-20::</b>								<b>15298.00</b>
<b>Add 10% escalation::</b>								<b>1530.00</b>
<b>Total unit rate arrived for the year 2020-21::</b>								<b>16828.00</b>
<b>Add 10% escalation::</b>								<b>1683.00</b>
<b>Total unit rate arrived for the year 2021-22::</b>								<b>18511.00</b>
<b>Add 10% escalation::</b>								<b>1851.00</b>
<b>Total unit rate arrived for the year 2022-23::</b>								<b>20362.00</b>
<b>Add 10% escalation::</b>								<b>2036.00</b>
<b>Total unit rate arrived for the year 2024-25::</b>								<b>22398.00</b>
<b>Add 10% escalation::</b>								<b>2240.00</b>
<b>Total unit rate arrived for the year 2025-26::</b>								<b>24638.00</b>
<b>Add 10% escalation::</b>								<b>2464.00</b>
<b>Total unit rate arrived for the year 2026-27::</b>								<b>27102.00</b>
<b>Add 10% escalation::</b>								<b>2710.00</b>
<b>Total unit rate arrived for the year 2027-28::</b>								<b>29812.00</b>
<b>Add 10% escalation::</b>								<b>2981.00</b>
<b>Total unit rate arrived for the year 2028-29::</b>								<b>32793.00</b>
<b>Add 10% escalation::</b>								<b>3279.00</b>
<b>Total unit rate arrived for the year 2029-30::</b>								<b>36072.00</b>
<b>Add 10% escalation::</b>								<b>3607.00</b>
<b>Total unit rate arrived for the year 2030-31::</b>								<b>39679.00</b>
<b>Add 10% escalation::</b>								<b>3968.00</b>
<b>Total unit rate arrived for the year 2031-32::</b>								<b>43647.00</b>
<b>Add 10% escalation::</b>								<b>4365.00</b>
<b>Total unit rate arrived for the year 2032-33::</b>								<b>48012.00</b>


  
Forest Range Officer  
Komararam



  
Forest Divisional Officer,  
Yellandu

18/6/19  
18/6

**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
				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 sciculture 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 period.	1 Nos	8340			1 Month	3336
4	-----	Miscellaneous contingines like implements, plantation board display boards etc.,						740
<b>Total unit rate arrived for the year 2018-19::</b>								<b>13907.00</b>
<b>Add 10% escalation::</b>								<b>1391.00</b>
<b>Total unit rate arrived for the year 2019-20::</b>								<b>15298.00</b>
<b>Add 10% escalation::</b>								<b>1530.00</b>
<b>Total unit rate arrived for the year 2020-21::</b>								<b>16828.00</b>
<b>Add 10% escalation::</b>								<b>1683.00</b>
<b>Total unit rate arrived for the year 2021-22::</b>								<b>18511.00</b>
<b>Add 10% escalation::</b>								<b>1851.00</b>
<b>Total unit rate arrived for the year 2022-23::</b>								<b>20362.00</b>
<b>Add 10% escalation::</b>								<b>2036.00</b>
<b>Total unit rate arrived for the year 2024-25::</b>								<b>22398.00</b>
<b>Add 10% escalation::</b>								<b>2240.00</b>
<b>Total unit rate arrived for the year 2025-26::</b>								<b>24638.00</b>
<b>Add 10% escalation::</b>								<b>2464.00</b>
<b>Total unit rate arrived for the year 2026-27::</b>								<b>27102.00</b>
<b>Add 10% escalation::</b>								<b>2710.00</b>
<b>Total unit rate arrived for the year 2027-28::</b>								<b>29812.00</b>
<b>Add 10% escalation::</b>								<b>2981.00</b>
<b>Total unit rate arrived for the year 2028-29::</b>								<b>32793.00</b>
<b>Add 10% escalation::</b>								<b>3279.00</b>
<b>Total unit rate arrived for the year 2029-30::</b>								<b>36072.00</b>
<b>Add 10% escalation::</b>								<b>3607.00</b>
<b>Total unit rate arrived for the year 2030-31::</b>								<b>39679.00</b>
<b>Add 10% escalation::</b>								<b>3968.00</b>
<b>Total unit rate arrived for the year 2031-32::</b>								<b>43647.00</b>
<b>Add 10% escalation::</b>								<b>4365.00</b>
<b>Total unit rate arrived for the year 2032-33::</b>								<b>48012.00</b>

  
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**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 allowance 25%	Total		
1	2	3	4	5	6	7	8	9
1		<b>Digging of Pits in Ploughed Areas in June - July by adopting 50% of original rate of digging of pits of ordinary soil</b>						
	02.09.06	<b>45 cm3 pits</b>						
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		<b>Transportation of Planting Stock (including loading and unloading) 25 KMs</b>						
		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		<b>For every extra km beyond 5 km upto 25 km</b>						
	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		<b>Internal transportation to planting points on head loads</b>						
	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		<b>Planting</b>						
	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
								<b>Total unit rate arrived for the year 2018-19:: 21660.34</b>
								<b>Add 10% escalation:: 2166.00</b>
								<b>Total unit rate arrived for the year 2019-20:: 23826.34</b>
								<b>Add 10% escalation:: 2383.00</b>
								<b>Total unit rate arrived for the year 2020-21:: 26209.34</b>
								<b>Add 10% escalation:: 2621.00</b>
								<b>Total unit rate arrived for the year 2021-22:: 28830.34</b>

  
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