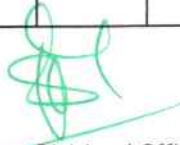


427

UNIT COST FOR RAISING OF PRIMARY BEDS

Sl. No.	FSR-2019-20 Code	Item of work	Unit	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	7
1	01.00.00	PRIMARY BEDS of 1x1x0.3 m size for Miscellaneous species including bamboo - 50 primary beds for 1 lakh nursery is permitted. Primary beds should start from Jan - May depending on availability of fresh seeds. Once primary beds are formed, they can be used upto 5 years without changing the medium - what is required each time is solarization, burning a layer of grass on it and adding the below recommended fungicides and insecticides to the medium.			
2	01.01.01	Preparation of New Site by clearing jungle growth, uprootal of stumps and removal of surface stones, pebbles etc.	Bed	4.95	4.95
3	01.01.03	Digging soil of the demarcated beds of 1x1x0.30 m size	Bed	38.15	38.15
4	01.01.04	Cost of sandy soil and transportation with 5 kms lead including loading and unloading charges (sandy soil and FYM in 5:1 ratio, i.e., 0.125 cum sandy soil and 0.025 cum FYM per primary bed	Bed	28.85	28.85
5	01.01.05	For every extra km beyond 5 km upto 25 km	Bed	1.15	1.15
6	01.01.06	Cost and transport of 0.025 cum FYM	Bed	24.80	24.80
7	01.01.07	Mixing of sandy soil and FYM in 5:1 proportion (50 % of volume of bed) with excavated soil and refilling the bed and lavelling.	Bed	10.85	10.85
8	01.01.08	Covering the beds with dried grass and leaf litter and burning them to ash which can form the upper layer	Bed	12.40	12.40
10	01.01.10	Cost of seed - seed weight, germination percentage and target of planting stock of individual species are to be taken into consideration while estimating the requirement of seeds	Bed	350.00	350.00
11	01.01.12	Sowing of seed (finer seeds like Adina, Mitragyna, Anthocephalus etc. to be mixed with sand and bradcasted - Bigger seeds to be dibbled in lines 1-2 cm apart) and covering the bed to a thickness of 2.5 cm with paddy hay including cost and conveyance	Bed	12.35	12.35
12	01.01.13	Watering the primary nursery beds with rose water cans twice daily for a maximum period of 2 months.	45 Days	13.90	13.90
13	01.01.14	Kerbing the primary beds all around with Cement Bricks (in permanent nurseries only), if required. In all such permanent primary beds, no incurring of expenditure for making the primary beds every year is permitted except for cost of fungicides.	Bed	39.00	39.00
14	01.01.15	Cost of chemicals, fungicide and insecticide	Bed	39.00	39.00
16		Electrical Charges		32.00	32.00
		Total			607.40
		Rasing of seedlings 110% for abtaining 100%		10%	60.74
		Total			668.14
		cost of each plant (2000 plants per bed)			0.33


Forest Divisional Officer,
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429

UNIT COST FOR BAG PLANT NURSERY

Sl. No.	FSR-2019-20 Code	Item of work	Unit	Quantity	As per FSR		Amount (Rs.)
					Rate (Rs)	Per	
		BAG PLANT NURSERY: Seedlings need to be raised in 4"x7" (200 gauge) or 5"x9" (250 gauge) bags which are to be converted into 6"x12" (400 gauge) or 8"x12" (400 gauge) polybags. The seedlings are to be transplanted from primary beds in June - July. Hence the bags are to be filled during April-May when the soil is dry.					
		Raising of Nursery in Polythene bags in sizes of 4"x7" (200 gauge) or 5"x9" (250 gauge) bags and arranging in secondary beds (Bed size: 10 X 1 M).					
1	01.03.01	Site preparation for New Sites - Clearing of growth, uprootal of stumps and removal of surface stones, rubbish of all sorts etc.	Bed	1	49.60	1	49.60
		Cost of Polybags (including the cost of certification by): To ensure quality control, the quality of bags have to be certified by CIPET (Central Institute of Plastic Engineering & Technology), Hyderabad at the cost of tenderer by taking samples from various lots of polybags.					
2	01.03.03	10 cm x 17.5 cm (4" x 7") size bags of 200 g: 589 bags / kg	Kg	4.41	156.00	1	687.96
	01.03.04	Cost and Transport of ingredients for Potting Mixture: (As per CSSR) Red Soil, tank-silt, FYM in 2:1:1 ratio. To this soil mixture, 220 gm of Indophyll M-45, 4.5 kg of single super phosphate (SSP) and 250 gm of phorate granules per 1 cum of potting mixture will be added. Cost of chemicals is as per actuals.					
	01.03.05	Distance upto 5 km					
3	a	10 cm x 17.5 cm (4" x 7") size bags: 2600 bags / bed	No's	2600	197.20	1000	512.72
	01.03.06	For every extra km beyond 5 km upto 25 km					
4	a	10 cm x 17.5 cm (4" x 7") = 0.56 cum vol. for 1000 bags	No's	2600	5.15	1000	13.39
	01.03.08	Preparation of Potting Mixture by powdering of various ingredients, sieving and mixing them in prescribed proportion; opening of bags and filling with potting mixture and gently pressing the same with finger tips and arranging in beds.					
5	a	10 cm x 17.5 cm (4" x 7") size bags: 2600 bags / bed	No's	2600	583.90	1000	1518.14
6	01.03.09	Alignment of beds including alignment of inspection paths etc	Bed	1	7.60	1	7.60
7	01.03.10	Pricking out seedlings from primary beds and transplanting into polybags	No's	2600	140.70	1000	365.82
8	01.03.11	Sowing / dibbling of pretreated seeds (e.g. Yegisa, Nalamadi, Yerumaddi etc.) directly into bags including cost of treatment	No's	2600	83.70	1000	217.62
9	01.03.12	Watering the plants (2 Months) twice a day from Feb-March - a) Manually with rose cans or finely perforated nozzle attached to a hose pipe	Bed	4	273.10	1	1092.40
10	01.03.13	Weeding to be done for every 2 months from the date of transplantation up to March	Bed	4	50.15	1	200.60

Sl. No.	FSR-2019-20 Code	Item of work	Unit	Quantity	As per FSR		Amount (Rs.)
					Rate (Rs)	Per	
11	01.03.14	1st shifting and grading after three months and consecutive shifting and grading after every two months till the nursery stock is lifted	Bed	1	234.25	1	234.25
12	01.03.15	Replacement of casualties after sorting out the empty bags and keeping at one end of the bed (maximum 10% of total stock is permissible)	Bed	1	66.50	1	66.50
13	01.03.16	Cost of foliar nutrient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from July to Oct.	Bed	1	34.00	1	34.00
14	01.03.18	Weeding in the space between the beds, inspection path and surroundings of Nursery	Bed	2	34.20	1	68.40
15	01.05.04	Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondary beds or Teak beds of 10 x 1 m size or combination of both. For more than 3 lakh RT or 300 secondary beds of Teak beds or combination of both another additional Nursery Watcher is allowed. While calculating the number of Nursery Watcher, care shall be taken to include the nursery raising under all Schemes at a particular site. No extra Nursery Watcher is allowed for primary beds of 1x1 m size. However, the above narrative is subject to the provisions cited under general instructions.	Bed	4	8754.60	100	350.18
16		Electricity charges					300.00
		Total					5719.18
17		Add casualty 10%					751.09
		2019-20 Grand Total					6470.27
		cost of each plant (2600 plants per bed)					3.8060

10% escalation every year


Forest Divisional Officer,
Kamareddy.

431

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

Sl. No.	S.R-2019-20 Code	Item of work	Unit	Quantity	As per FSR		Amount (Rs.)
					Rate (Rs)	Per	
		Maintenance of 4"x7" or 5"x9" bag-plants from April – August - Watering the plants twice a day from April – August					
1	01.03.19	(a) Manually with rose cans or finely perforated nozzle attached to a hose pipe	Bed	5	273.1	1	1365.50
2	01.03.20	Weeding the beds during May & July	Bed	2	50	1	100.30
3	01.03.21	Shifting, grading and rearrangement in beds	Bed	1	234	1	234.25
4		Electricity charges					300.00
5	01.05.04	Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondary beds or Teak beds of 10 x 1 m size or combination of both. For more than 3 lakh RT or 300 secondary beds of Teak beds or combination of both another additional Nursery Watcher is allowed. While calculating the number of Nursery Watcher, care shall be taken to include the nursery raising under all Schemes at a particular site. No extra Nursery Watcher is allowed for primary beds of 1x1 m size. However, the above narrative is subject to the provisions cited under general instructions.	Bed	4	8754.60	100	350.18
		2019-20 Total					2350.23
		cost of each plant (2600 plants per bed)					0.9039

10% escalation every year


Forest Divisional Officer,
Kamareddy.

433

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

No.	FSR-2019-20 Code	Item of work	Unit	Quantity	As per FSR		Amount (Rs.)
					Rate (Rs)	Per	
		CONVERSION of Root Trainer plants or 4"x7" or 5"x9" bag-plants into higher size bags - to be done during September - October. At the time of conversion, the height of the plants should be at least above 0.45m in height (excluding the height of polybag).					
		Cost and Transport of ingredients for Potting Mixture: Red Soil, tank-silt / 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	Transportation of soil mixture ingredients					
		Distance up to 5 km					
1	c	4" x 7" to 6" x 12" polybags (2.15 - 0.56 = 1.59 cum)	No	1100	560.00	1000	616.00
	01.03.25	Transportation of soil mixture ingredients more than 5 km distance and upto 25 km distance					
2	c	4" x 7" to 6" x 12" polybags (2.15 - 0.56 = 1.59 cum)	No	1100	14.60	1000	16.06
	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)					
3	c	4" x 7" to 6" x 12" polybags (2.15 - 0.56 = 1.59 cum)	No	1100	998.45	1000	1098.30
	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 weedings					
4		Weeding the plants (2 weedings)	Bed	2	50.15	1	100.30
5	01.03.34	Shifting, Grading and rearranging in secondary beds - One Grading in February	Bed	2	234.25	1	468.50
	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.					
6	a	Manually with rose spray or finely perforated nozzle attached to a hose pipe	Bed	5	273.15	1	1365.75
	01.03.37	Cost of foliar nutrient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from July to Oct.					30.00
7	01.05.04	Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondray beds or Teak beds of 10 x 1 m size or combination of both. For more than 3 lakh RT or 300 secodary beds of Teak bedsor combination of both another additional Nursery Watcher is allowed. While calculating the number of Nursery Watcher, care shall be taken to include the nursery raising under all Schemes at a particular site. No extra Nursery Watcher is allowed for primary beds of 1x1 m size. However, the above narrative is subject to the provisions cited under general instructions.	Bed	4	8754.60	100	350.18
8		Cost of the ploythene bags					2340.00
9	01.03.39	Electricity charges					500.00
		Total					6885.09
10	01.03.38	Contingencies @ 5%					344.254
		2019-20 Total for 1100 plants					7229.34
		cost of each plant					6.5721

10% escalation every year


Forest Divisional Officer,
Kamareddy.

435

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

Sl. No.	SR-2019-20 Code	Item of work	Unit	Quantity	As per FSR		Amount (Rs.)
					Rate (Rs.)	Per	
	01.04.00	MAINTAINANCE OF BAG PLANTS NURSERY UPTO PLANTING SEASON (APRIL TO AUGUST) for 10 m X 1 m size secondary beds (2600 Nos of 4" X 7" bags; 1700 Nos of 5" X 9" bags ; 1100 Nos. of 6"X12" bags; 800 Nos. of 8"X12" bags; 400 Nos. of 10"x16" bags per bed)					
	01.04.01	Watering polybag secondary beds twice a day for 4 months					
1	a	Manually with rose spray or finely perforated nozzle attached to a hose pipe	Bed/month	4	273.10	1	1092.40
2	01.04.02	Weeding once during maintenance year	Bed/weeding	1	50.15	1	50.15
3	01.04.03	Shifting, grading and rearrangement in beds	Bed/shifting	2	234.25	1	468.50
4	01.04.05	Cost of foliar nutritient formulations like multiplex or NPK-19:19:19; fungicides and insecticides from April to August	As per actuals	1	20.00	1	20.00
	01.04.06	Cowdung Slurry application (One can apply chemical foliar spray or apply cowdung slurry - not both)					
5	a	Cost and transportation of fresh cowdung	As per actuals	1	25.00	1	25.00
6	01.04.07	Weeding in the space between the beds, inspection path and surroundings of Nursery	Bed	1	27.60	1	27.60
7	01.05.04	Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondray beds or Teak beds of 10 x 1 m size or combination of both. For more than 3 lakh RT or 300 secodary beds of Teak bedsor combination of both another additional Nursery Watcher is allowed. While calculating the number of Nursery Watcher, care shall be taken to include the nursery raising under all Schemes at a particular site. No extra Nursery Watcher is allowed for primary beds of 1x1 m size. However, the above narrative is subject to the provisions cited under general instructions.	Watcher/ month	4	8754.60	100	350.18
8	01.04.09	Electricity charges			500.00		500.00
		Total					2533.83
9	01.04.08	Contingencies @ 5%					126.69
		2019-20 Total					2660.53
		cost of each plant (1100 Plants per bed)					2.4187

10% escalation every year


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437 ✓
UNIT COST FOR MAINTENANCE OF BAG PLANTS (September to till disposal)

Sl. No.	FSR-2019-20 Code	Item of work	Unit	Quantity	As per FSR		Amount (Rs.)
					Rate (Rs.)	Per	
		MAINTENANCE OF BAG NURSERY FROM SEPTEMBER TO TILL DISPOSAL					
1	01.05.01	Watering plants for 10 m X 1 m size secondary bed	Bed/month	4	168.70	1	674.80
2	01.05.02	Shifting, grading and rearrangement in beds	Bed/weeding	1	234.25	1	234.25
3	01.05.04	Cost of Protection: One Nursery Watcher is allowed up to 1 lakh RT nursery or 100 secondary beds of polybags / 100 Teak beds of 10 x 1 m size or combination of both. One additional Nursery Watcher is permitted for nurseries having more than 1 lakh upto 3 lakh RT seedlings or more than 100 upto 300 secondary beds or Teak beds of 10 x 1 m size or combination of both. For more than 3 lakh RT or 300 secondary beds of Teak beds or combination of both another additional Nursery Watcher is allowed. While calculating the number of Nursery Watcher, care shall be taken to include the nursery raising under all Schemes at a particular site. No extra Nursery Watcher is allowed for primary beds of 1x1 m size. However, the above narrative is subject to the provisions cited under general instructions.	Watcher/month	5	8754.60	100	437.73
		Total					1346.78
		cost of each plant (1100 Plants per bed)					1.2243

10% escalation every year


Forest Divisional Officer,
Kamareddy.