

GOVERNMENT OF KARNATAKA
FOREST/HORTICULTURE/WATERSHED DEPARTMENT
Common Sanctioned Schedule of Rates for the year 2021-22

Item No.	Particulars of the work	Unit	2021-22 rate sanctioned (in Rs.)
1	HORTICULTURE AND FOREST NURSERY WORKS		
1.1A	Clearing and Formation of Nursery site		
(a)	Clearing weeds, shrubs and small trees by cutting & uprooting the growth and transporting the cut materials to the periphery of the area in <u>thick jungle growth area</u> – for preparation of site to form new nursery.	Ha.	33,274.99
(b)	Clearing weeds, shrubs and small trees by cutting & uprooting the growth and transporting the cut materials to the periphery of the area in <u>medium growth areas</u> - for preparation of site to form new nursery.	Ha.	10,889.96
(c)	Clearing weeds, shrubs and small trees by cutting & uprooting the growth and transporting the cut materials to the periphery of the area in <u>sparse growth areas</u> – for preparation of site to form new nursery.	Ha.	5,323.94
(d)	Clearing weeds and shrubs by uprooting the growth and burning the uprooted weeds in the existing nursery which was abandoned for more than 2 years.	Ha.	4,235.02
1.1B(a)	cleaning of nursery site by clearing and cutting of of small plants,bushes etc and planting the cut parts by the side of beds.	1000 m2	3,345.38
(b)	Ploughing ,digging and levelling of new seed beds		
(i)	Normal Soil	1 m3	80.73
(ii)	Hard soil	1 m3	113.53
(c)	Formation of sunken beds of size 12mx1.25mx0.3m and covering with polytehene sheets(note:polyethene sheets rate should be fixed by tender/quotation)	bed	248.09
(d) (i)	Formation of new beds: Preparation of raised standard nursery beds of size 8 m x 1.20 m x 0.30 m, by deep digging up to 45 cm depth, including breaking of clods, leveling, etc.	bed	120.80
(ii)	Procurement of materials required for bed(fine coarse red earth:sand:farmyard manure in1:1:1 ratio)0.75 m3	bed	
(iii)	Sowing of seeds in beds and covering/mulching the beds with grass	bed	23.17
(iv)	watering of seed beds twice a day with rose can(per day)	bed	7.43
(v)	Weeding of seed beds(minimum two times in eight weeks)	bed	14.51
1.2	Procurement of Ingredients: Procurement of farmyard manure/compost, sand and red-earth (ingredients) required for raising seedlings inclusive of transportation, breaking of clods, sieving and heaping each ingredient separately at nursery site (Ceiling rate)		
(a)	Fine coarse Red-earth/soil	m3	494.21
(b)	Natural Sand	m3	1,070.08
(c)	Farm yard manure/compost	m3	1,453.04

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	Note:(1) <u>Garden development works</u> :for procurement of one cmt fine coarse red earth / soil 20% weightage on 1.2(a) is given (2) <u>Biocenter works</u> :for procurement of one cmt Natural Sand 30% weightage on 1.2(b) and10% weightage on 1.2(b) for biocenters of other cities. For bangalore biocenter for procurement of of one cmt Fine coarse red earth/soil 25% weightage given on rate fixed for garden development works and for biocenters of other cities10% weightage given on rate fixed for garden development works. (3) In 2020-21 Schedule of Rates of Horticulture Department sand rate was fixed for eight divisions as per PWD rates. Since as per the uni SR committe recommendation only one rate is to be fixed for		
1.3	Collection of Seeds, Seedlings , Root stocks and other materials required for propagation		
(a)	All seeds(Forest pecies)	Annexure - 1	
(b)	Where seeds are not supplied by Silviculturist		
	(i) Collection of teak seeds	Kg.	55.55
	(ii) Collection of other seeds	R.Q/Tender	
(c)	Collection/procurement of Horticulture seeds/Cuttings/suckers		
i	Mango stones	No	0.92
ii	Amla seeds	Kg.	2,200.00
iii	Guava seeds	No	0.28
iv	Jamun seeds	Kg.	110.00
v	Cashew seeds	No	1.10
vi	Setaphal seeds	Kg.	55.00
vii	Tamarind seeds	No	0.78
viii	Jackfruit seeds	No	0.80
ix	Roseapple seeds	Kg.	110.00
x	Curryleaf,lemon,drumstick,cheekurmuni etc seeds/cuttings	No	2.15
xi	Papaya,Malayan apple,Fig seeds,avacado cuttings/ seeds	No	3.25
xii	Papaya (hybrid) seeds	No	6.63
xiii	Medicinal seeds/cuttings	No	1.43
xiv	Tree species medicinal plants seeds/cuttings	No	1.65
xv	Vegetable seeds(Local)	No	0.14
xvii	Cardamom seeds	Kg.	5,500.00
xviii	Pepper cuttings	No	0.55
xix	Bird of paradise	No	30.00
xix	Arecanut	No	5.25
xx	Coconut	No	28.00
xi	chrysanthemum cuttings	No	0.17
xii	Orange seeds	No	1.25
xii	Udupi jasmine cuttings	No	1.00
	Note:Rate for any other Species seeds/cuttings required for propogation can be procured/fixed by quotation/tender		
(d) (i)	procurement of polythene bags, 4"x6", 5"x8", 6"x9", 8"x12", 12"x12", 12"x15",	per kg	Rate quotation
(ii)	Procurement of woven sack bags 6"x9, 8"x12, 10"x16, 14"x20"	per no	Rate quotation
(e)	Procurement of pots/Tubs/seed pans/protrays	per no	Rate quotation
(f)	Procuremenof polythene tapes/polytheen sheets/gunny or twine thread/Sphagnum mass	Per Kg	Rate quotation

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(g)	Procurement of Plant protection chemicals/neemcake/oil cake etc	Per Kg	Rate quotation
(h)	Procurement of cocopeat etc.,	Per Kg	Rate quotation
(i)	Providing of shadenet/shade roof for seed/seedling beds	m2	Rate quotation
(j)	Procurement of Kirni stock plants	No	26.00
(k)	Procurement of Brazillian Hippali	No	2.00
(l)	Procurement of stakes	No	5.50
1.4	Purchase of Scions for grafting		
(a)	Mango	No	2.20
(b)	Sapota	No	2.20
(c)	Amla	No	2.20
(d)	Guava	No	2.75
(e)	Jamun/Roseapple	No	2.20
(f)	Cashew	No	2.10
(g)	Setaphal	No	2.10
(h)	Tamarind	No	2.20
(i)	Jackfruit	No	2.65
(j)	Guava	No	2.20
(k)	Pepper	No	1.37
(l)	Grapes	No	3.60
	Note: The rates for other Species scions required for propogation can be procured/fixed by quotation/tender		
1.5	Curing of Scions		
(a)	Mango	No	0.78
(b)	Sapota	No	1.19
(c)	Amla	No	1.56
(d)	Guava	No	1.56
(e)	Jamun/Roseapple	No	0.78
(f)	Cashew	No	0.78
(g)	Setaphal	No	0.73
(h)	Tamarind	No	1.56
(i)	Jackfruit	No	0.78
(j)	Guava	No	1.56
(l)	Pepper	No	0.78
	Note: Rate for Scion curing of other horticulture species required for propogation can be procured/fixed by Tender /quotation.		
(m)	Plastic tapes and other materials required for grafting of one plant	No	0.16
(n)	Plant protection chemicals and other materials required for production of pepper grafts/seedling,cardamom ,orange etc seedling	No	0.11
(o)	plant protection chemicals and other materials required for production of arecanut seedling	No	0.44
(p)	plant protection chemicals and other materials required for production of papaya hybrid seedlings, bird of paradise etc seedling	No	0.12
(q)	Collection and transport of wildlings of important economic species from forest area to nursery.	1000	643.07

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	NOTE: Collection of wildlings should be avoided. Seedlings should be raised from seeds only. If collection of wildlings is inevitable it should be done under supervision of forestry staff and restricted to 50 % of the available natural regeneration.		
1.6	Raising of Sunken / Transplant / Seed Beds of 12 M x 1.20 M size		
(a)	Formation new beds: Aligning the nursery beds, clearance of debris, digging of soil 30 cm. deep & allowing the soil for weathering, breaking of clods, mixing the ingredients, leveling and forming new nursery beds of size 12 m x 1.20 m and raising the bunds and consolidating on all the sides of the beds.	bed	847.04
(b)	Reformation of old beds: Re-digging of old nursery beds of size 12 m x 1.20 m , to a depth of 30 cm. & forming nursery beds after mixing the ingredients including pesticides & consolidating the bunds on all sides of the bed.	bed	272.26
(c)	Application of ingredients (Manure and Sand) (Quantity of manure and sand to be prescribed by the CCF/DOH by considering the fertility and sand content in the soil of the nursery bed)	bed	30.22
(d)	Sowing of seeds in beds	bed	36.10
(e)	Covering the seed bed with grass / straw including the cost of collection & transport of grass / straw to the nursery site.	bed	54.46
(f)	Pricking out the seedlings from the seed beds and transplanting the same in transplant beds	bed	328.87
(g)	Watering the beds twice a day	bed	17.07
(h)	Weeding the seed beds / transplant beds	bed /weeding	54.46
1.7	Raising of Dowga / Medri Bamboo Rhizomes in Nursery beds of 12 M x 1.20 M size		-
(a)	Formation new beds	bed	847.04
(b)	Reformation of old beds	bed	272.03
(c)	Application of ingredients (Manure and Sand)	bed	30.22
(d)	Uprooting of Dowga/Medri bamboo seedlings from beds	1000	665.43
(e)	Transplanting of Dowga / Medri bamboo seedlings in beds	1000	723.37
(f)	Watering the beds twice a day	bed	17.07
(g)	Weeding the seed beds / transplant beds	bed	54.46
1.8	Raising of Marihal bamboo (Oxytenanthera stocksii) in Nursery beds of 12 M x 1.20 M size		
(a)	Formation new beds	bed	847.04
(b)	Reformation of old beds	bed	272.26
(c)	Application of ingredients (Manure and Sand)	bed	30.22
(d)	Purchase of Marihal bamboo (Delivery at Nursery site)	1000	Rate quotation
(e)	Preparation of Marihal bamboo cuttings	1000	1,935.93
(f)	Planting of Marihal bamboo cuttings in bed	bed	1,330.93
(g)	Watering the beds twice a day	bed	17.07
(h)	Weeding the seed beds / transplant beds		54.46
1.9	Raising of Agave Suckers in Nursery beds of 12 M x 1.20 M size		
(a)	Formation new beds	bed	847.04
(b)	Reformation of old beds	bed	272.26
(c)	Application of ingredients (Manure and Sand)	bed	30.22
(d)	Transplanting of Agave seedlings / bulbils at 7.5 cm. X 7.5 cm. apart, including loosening of soil.	1000	328.87
(e)	Collection and transportation of Agave bulbils from the field	1000	584.01

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(f)	Flooding the beds once in a week	week/100beds	467.77
(g)	Weeding the Agave beds	bed/weeding	32.01
1.10	Raising Khus grass in the Nursery beds of 12 M x 1.20 M size		
(a)	Formation new beds	bed	847.04
(b)	Reformation of old beds	bed	272.26
(c)	Application of ingredients (Manure and Sand)	bed	30.22
(d)	Collection of Khus grass slips	1000	145.96
(e)	Transplanting of Khus grass slips in nursery beds	1000	151.27
(f)	Watering the beds twice a day	bed	17.07
(g)	Weeding the Agave beds	bed	32.00
1.11	Raising of Teak and other Hardwood Seedlings for producing stumps		
(a)	Formation of new beds: Preparation of raised standard nursery beds of size 12 m x 1.20 m x 0.30 m, by deep digging up to 45 cm depth, including breaking of clods, leveling, etc.	Bed	786.45
(c)	Reformation of old beds: Reformation of the old raised nursery beds of standard size of size 12 m x 1.20 m	Bed	483.93
(d)	Uprooting of stumps of trees of above 60 cm girth existing in the nursery bed space for raising new nursery (To be allowed by the CCF, for raising fresh beds only in rare cases)	stump	332.69
(e)	Pre-treatment of teak seeds at the rate of 6 Kg seeds per bed - pretreatment involves soaking in cow-dung slurry for 7 days followed by drying the same for 7 days, repeating the operation thrice (total 42 days)	bed	96.78
(f)	Sowing the seeds in beds	Bed	65.73
(g)	Weeding in beds of Teak and other hardwood species like Matti, Nandi Honne, Burga, Rosewood etc., where stumps are to be prepared from the seedlings		
	(i) For the first three weeding	Bed / weeding	121.10
	(For 4th and subsequent weeding	Bed / weeding	42.32
1.12	Raising of Agave Seedlings in Farmers' Land by transplanting from nursery beds		
(a)	Rent of farmers' best land	As fixed by Tahasildar	
(b)	Uprooting the Agave seedlings from the transplant bed	1,000	151.22
(c)	Transportation of Agave seedlings from the nursery site to planting site and then to planting point on head-load	1,000	345.98
(d)	Grading of Agave seedlings into large, medium and small size seedlings for planting	1,000	427.41
(e)	Aligning in the planting area and marking spots for planting Agave seedlings	1,000	211.72
(f)	Digging the earth by pickaxe to the required depth, planting of Agave seedlings, and pressing the soil around the seedling.	1,000	1,815.00
(g)	Hoeing around the Agave seedling raised in the field by using the bullock-drawn country plough for loosening of soil. (i.e., intermediate cultivation)	On quotation basis	
(h)	Removal of weeds around the Agave seedlings twice	ha. each time	9,074.94
1.13	Raising of Seedlings in Polythene Bags of 4"X6" Size		
(a)	Procurement of 0.51 m ³ of ingredients i.e. farmyard manure/compost, sand and red earth in 1:1:2 proportion for Forest species	1,000	447.72

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(b)	Procurement of 0.54 m ³ . of ingredients i.e. farmyard manure/compost, sand , red earth,Saw dust in 1:1:1:1 proportion mixed with biofertilizers for Horticulture species	1,000	635.69
(c)	Mixing of ingredients, filling the polythene bags and duly arranging in rows after scraping the earth	1,000	1,209.96
(d)	Dibbling of seeds in polythene bags	1,000	131.58
(e)	Pricking out the seedlings from seed beds and transplanting in the polythene bags	1,000	328.87
(f)	Watering to the polythene-bagged seedlings twice a day	1,000 / day	10.26
(g)	Weeding the polythene-bagged seedlings	1,000 each time	54.46
(h)	Shifting & grading the polythene-bagged seedlings	1,000 each time	118.34
(i)	Spraying of plant protection chemicals for seedlings	1000 each time	29.10
(j)	Preparation of softwood cuttings(medicinal/fruit crops)	1,000	1,344.93
1.14	Raising of Seedlings in Polythene Bags of 5" X 8" Size		
(a)	Procurement of 1.08 m ³ . of ingredients i.e. farmyard manure/compost, sand and red earth in 1:1:2 proportion	1,000	948.12
(b)	Procurement of 1.101 m ³ of ingredients i.e. farmyard manure/compost, sand , red earth,Saw dust in 1:1:1:1 proportion mixed with biofertilizers for Horticulture species	1,000	1,271.39
(c)	Mixing the ingredients, filling the polythene bags and arranging in rows after scraping the earth	1,000	1,815.00
(d)	Dibbling of seeds in polythene bags	1,000	131.58
(e)	Pricking out the seedlings from seed beds & transplanting in the polythene bags	1,000	328.76
(f)	Planting of prepared teak / hard wood stumps in the filled polythene bags	1,000	328.76
(g)	Watering to the polythene-bagged seedlings twice a day	1,000 / day	15.73
(h)	Weeding the polythene-bagged seedlings	1,000 each time	90.74
(i)	Shifting & grading the polythene-bagged seedlings	1,000 each time	190.64
(k)	Spraying of plant protection chemicals for seedlings/grafted plants	1,000 each time	29.10
(l)	Preparation of softwood cuttings(medicinal/fruit crops)	1,000	1,344.93
1.15	Raising of Seedlings/grafts in Polythene Bags of 6" X 9" Size		
(a)	Procurement of 1.77 m ³ . of ingredients i.e. farmyard manure/compost sand and red earth in 1:1:2 proportion	1,000	1,553.86
(b)	Procurement of 1.65 m ³ of ingredients i.e. farmyard manure/compost, sand , red earth,Saw dust in 1:1:1:1 proportion mixed with biofertilizers for Horticulture species	1,000	2,083.66
(c)	Mixing the ingredients, filling the polythene bags and arranging in rows after scraping the earth	1,000	2,117.46
(d)	Dibbling of seeds in polythene bags	1,000	131.58
(e)	Pricking out the seedlings from seed beds & transplanting in the polythene bags	1,000	328.76
(f)	Planting of prepared teak / hard wood stumps in the filled polythene bags	1,000	328.76
(g)	Watering to the polythene-bagged seedlings/graftsttwice a day	1,000 / day	19.14
(h)	Weeding in polythene bags/grafts	1,000 each time	108.88
(i)	Shifting & grading the polythene-bagged seedlings/grafts	1,000 each time	263.05
(k)	Colour coding in grafted plants	1,000	82.50
(l)	Removal/cut open to polyethene tape in grafted plants	1,000	61.88
(m)	Removal of shoots/leaves etc in grafted plants	1,000 each time	42.90
(n)	Spraying of plant protection chemicals for grafted plants	1,000 each time	29.04

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(o)	Preparation of softwood cuttings(medicinal/fruit crops)	1,000	1,344.93
1.16	Raising of Seedlings/grafts in Polythene Bags of 8" X 12" Size		
(a)	Procurement of 4.20 m3 of ingredients i.e. farmyard manure/compost, sand and red earth in 1:1:2 proportion	1,000	3,687.12
(b)	Procurement of 4.047 m3 of ingredients i.e. farmyard manure/compost, sand , red earth,Saw dust in 1:1:1:1 proportion mixed with biofertilizers for Horticulture species	1,000	4,944.28
(c)	Mixing the ingredients, filling the polythene bags and arranging in rows after scraping the earth	1,000	3,206.47
(d)	Dibbling of seeds in polythene bags	1,000	131.58
(e)	Pricking out the seedlings from seed beds & transplanting in the polythene bags	1,000	328.76
(f)	Transplanting of 4" x 6" or 5" x 8"size bagged seedlings into 8" x 12" size bags after removal of the seedlings along with the trimmed ball of earth	1,000	328.76
(g)	Watering to the polythene-bagged seedlings/grafts twice a day	1,000 / day	45.51
(h)	Weeding the polythene-bagged seedlings/grafts	1,000 each time	139.19
(i)	Shifting & grading the polythene-bagged seedlings/grafts	1,000 each time	394.59
(k)	Colour coding in grafted plants	1,000	99.00
(l)	Removal/cut open to polyethene tape in grafted plants	1,000	82.50
(m)	Removal of shoots/leaves etc in grafted plants	1,000 each time	49.50
(n)	Spraying of plant protection chemicals for grafted plants	1,000 each time	43.49
1.17	Rebagging of 6"X9"Polythene Bags raised grafted plants into 8" X 12" Size polythene bags		
(a)	Procurement of 2.85 m3 of ingredients i.e. farmyard manure/compost, sand , red earth,Saw dust in 1:1:1:1 proportion mixed with biofertilizers for Horticulture species(75% new soil mixture and 25% old soil mixture)	1,000	3,355.05
(b)	Mixing the ingredients, filling the polythene bags and arranging in rows after scraping the earth	1,000	1,265.63
(c)	Transplanting of 6" x 9"size bagged seedlings into 8" x 12" size bags	1,000	422.32
(d)	Watering to the polythene-bagged seedlings/grafts twice a day	1,000 / day	38.70
(e)	Weeding the polythene-bagged seedlings/grafts	1,000 each time	85.09
(f)	Shifting & grading the polythene-bagged seedlings/grafts	1,000 each time	265.89
(g)	Colour coding in grafted plants	1,000	99.00
(h)	Spraying of plant protection chemicals for grafted plants	1,000 each time	43.49
1.18A	Rebagging of 6"X9"Polythene Bags raised grafted plants into 12" X 12" Size polythene bags		
(a)	Procurement of 6.76 m3 of ingredients i.e. farmyard manure/compost, sand , red earth,Saw dust in 1:1:1:1 proportion mixed with biofertilizers for Horticulture species(90% new soil mixture and 10% old soil mixture)	1,000	7,957.94
(b)	Mixing the ingredients, filling the polythene bags and arranging in rows after scraping the earth	1,000	2,531.25
(c)	Transplanting of 6" x 9"size bagged seedlings into 12" x 12" size bags	1,000	520.00
(d)	Watering to the polythene-bagged seedlings/grafts twice a day	1,000 / day	58.05
(e)	Weeding the polythene-bagged seedlings/grafts	1,000 each time	127.63
(f)	Shifting & grading the polythene-bagged seedlings/grafts	1,000 each time	398.83
(g)	Colour coding in grafted plants	1,000	99.00
(h)	Spraying of plant protection chemicals for grafted plants	1,000 each time	43.49

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1.18B	Rebagging of 8"X12"Polythene Bags raised grafted plants into 12" X 12" Size polythene bags		
(a)	Procurement of 4.72 m3 of ingredients i.e. farmyard manure/compost, sand , red earth,Saw dust in 1:1:1:1 proportion mixed with biofertilizers for Horticulture species(90% new soil mixture and 10% old soil mixture)	1,000	5,556.43
(b)	Mixing the ingredients, filling the polythene bags and arranging in rows after scraping the earth	1,000	2,531.25
(c)	Transplanting of 8" x 12" size bagged seedlings into 12" x 12" size bags	1,000	1,004.00
(d)	Watering to the polythene-bagged seedlings/grafts twice a day	1,000 / day	58.05
(e)	Weeding the polythene-bagged seedlings/grafts	1,000 each time	127.63
(f)	Shifting & grading the polythene-bagged seedlings/grafts	1,000 each time	398.83
(g)	Colour coding in grafted plants	1,000	99.00
(h)	Spraying of plant protection chemicals for grafted plants	1,000 each time	43.49
1.19A	Rebagging of 6"X9"Polythene Bags raised grafted plants into 12" X 15" Size polythene bags		
(a)	Procurement of 10.47 m3 of ingredients i.e. farmyard manure/compost, sand, red earth,Saw dust in 1:1:1:1 proportion mixed with biofertilizers for Horticulture species(90% new soil mixture and 10% old soil mixture)	1,000	12,325.39
(b)	Mixing the ingredients, filling the polythene bags and arranging in rows after scraping the earth	1,000	3,164.06
(c)	Transplanting of 6" x 9" size bagged seedlings into 12" x 15" size bags	1,000	1,002.00
(d)	Watering to the polythene-bagged seedlings/Grafted plants twice a day	1,000 / day	72.56
(e)	Weeding the polythene-bagged seedlings/grafts	1,000 each time	159.53
(f)	Shifting & grading the polythene-bagged seedlings/grafts	1,000 each time	498.53
(g)	Colour coding in grafted plants	1,000	99.00
(h)	Spraying of plant protection chemicals for grafted plants	1,000 each time	43.49
1.19B	Rebagging of 8"X12"Polythene Bags raised grafted plants into 12" X 15" Size polythene bags		
(a)	Procurement of 7.875 m3 of ingredients i.e. farmyard manure/compost, sand , red earth,Saw dust in 1:1:1:1 proportion mixed with biofertilizers for Horticulture species(90% new soil mixture and 10% old soil mixture)	1,000	9,270.53
(b)	Mixing the ingredients, filling the polythene bags and arranging in rows after scraping the earth	1,000	3,164.06
(c)	Transplanting of 8" x 12" size bagged seedlings into 12" x 15" size bags	1,000	2,005.00
(d)	Watering to the polythene-bagged seedlings/Grafted plants twice a day	1,000 / day	72.56
(e)	Weeding the polythene-bagged seedlings/grafts	1,000 each time	159.53
(f)	Shifting & grading the polythene-bagged seedlings/grafts	1,000 each time	498.53
(g)	Colour coding in grafted plants	1,000	99.00
(h)	Spraying of plant protection chemicals for grafted plants	1,000 each time	43.49
1.20	Raising of Seedlings in Polythene Bags of 10" X 16" Size		
(a)	Procurement of 8.72 m3 of ingredients i.e. farmyard manure/compost sand and red earth in 1:1:2 proportion	1,000	7,655.16
(b)	Mixing the ingredients, filling the polythene bags and arranging in rows after scraping the earth	1,000	5,444.95
(c)	Dibbling of seeds in polythene bags	1,000	131.58
(d)	Pricking out the seedlings from seed beds & transplanting in the polythene bags	1,000	328.76
(e)	Transplanting of 4" x 6" or 5" x 8" size bagged seedlings into 10" x 16" size bags after removal of the seedlings along with the trimmed Page 8 of earth	1,000	328.76

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(f)	Watering to the polythene-bagged seedlings twice a day	1,000 / day	72.12
(g)	Weeding in polythene bags	1,000 each time	163.36
(h)	Shifting & grading the polythene-bagged seedlings	1,000 each time	723.37
1.21	Raising of Seedlings in Polythene Bags of 14" X 20" Size		
(a)	Procurement of 21.20 cum. of ingredients i.e. 5.30 cum of farmyard manure/compost, 5.30 cum sand and 10.60 cum of red earth in 1:1:2 proportion	1,000	18,611.17
(b)	Mixing the ingredients, filling the polythene bags and arranging in rows after scraping the earth	1,000	9,074.94
(c)	Dibbling of seeds in polythene bags	1,000	131.58
(d)	Pricking out the seedlings from seed beds & transplanting in the polythene bags	1,000	328.76
(e)	Transplanting of seedlings raised in smaller bags (i.e. 4" x 6" and 5" x 8") into bigger bags along with ball of earth, after tearing the polythene bag of smaller size	1,000	328.76
(f)	Watering to the polythene-bagged seedlings twice a day	1,000 / day	104.70
(g)	Weeding in polythene bags	1,000 each time	211.77
(h)	Shifting & grading the polythene-bagged seedlings	1,000 each time	986.43
1.22	Raising of Bamboo Seedlings in Polythene Bags of 7" x 7" Square x 12" Size		-
(a)	Procurement of 10.08 m ³ of ingredients i.e. farmyard manure/ compost, sand and red earth in 1:1:2 proportion	1,000	8,849.08
(b)	Mixing the ingredients, filling the polythene bags and arranging in rows after scraping the earth	1,000	4,839.96
(c)	Uprooting of naked bamboo seedlings from beds	1,000	127.67
(d)	Watering to the polythene-bagged seedlings twice a day	1,000 / day	97.65
(e)	Weeding in polythene bags	1,000 each time	151.22 -
(f)	Shifting and grading of polythene-bagged seedlings	1,000 each time	442.89 -
1.23	Raising Seedlings in Pots of 9" Size:		
(a)	Procurement of 1.38 m ³ of ingredients i.e. farmyard manure/compost, sand and red earth in 1:1:2 proportion	1,000	1,211.48
(b)	Mixing of ingredients of Manure, Sand and Red-earth, cleaning and filling the same into pots and keeping them in rows.	1,000	3,472.68
(c)	Transplanting of seedlings into pots	1,000	328.76
(d)	Watering to the polythene-bagged seedlings twice a day	1,000 / day	121.04
(e)	Weeding in the pots	1,000 / Weeding	78.54
(f)	Shifting and grading of potted seedlings	1,000 each time	282.77
1.24	Raising Seedlings in Pots of 12" Size		
(a)	Procurement of 4.44 m ³ of ingredients i.e. farmyard manure/compost, sand and red earth in 1:1:2 proportion	1,000	3,897.81
(b)	Mixing of ingredients of Manure, Sand and Red-earth, cleaning and filling the same into pots and keeping them in rows	1,000	5,130.33
(c)	Transplanting of seedlings into pots	1,000	328.76
(d)	Watering to the polythene-bagged seedlings twice a day	1,000/ day	133.07
(e)	Weeding in the pots	1,000/ weeding	205.66
(f)	Shifting and grading of potted seedlings	1,000 each time	342.01
1.25	Softwood grafting	1 no	

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
(a)	Mango	1 no	2.70
(b)	Sapota	1 no	2.70
(c)	Amla	1 no	2.20
(d)	Guava	1 no	2.70
(e)	Jamun/Roseapple	1 no	2.70
(f)	Cashew	1 no	2.70
(g)	Setaphal	1 no	2.51
(h)	Tamarind	1 no	2.20
(i)	Jackfruit	1 no	2.70
(j)	Pepper	1 no	2.70
(k)	All other crops	1 no	2.20
1.26	Gooty/air layering	1000 nos	
(a)	Spagnum mass	12 kg	2,059.20
(b)	Polythene sheet	4kg	873.60
(c)	Twine thread	4 kg	286.00
(d)	saw dust	12kg	137.28
(e)	Tieing of gooty/layer	1000 nos	1,964.28
(f)	6"X9"polybags/polycovers	1000nos	924.00
(g)	Procurement of 1.65 m3. of ingredients i.e. farmyard manure/compost, sand, red earth,Saw dust in 1:1:1:1 proportion mixed with biofertilizers	1000nos	1,942.40
(h)	Seperation of gooty and planting in polyethene bags	1000nos	1,272.86
(i)	watering and maintainance(4 months)	1000nos	3,928.57
1.27	Flower seedlings production (protrays)		
(a)	Procurement of flower seeds(Local)	1150nos	463.10
(b)	Protays	11 nos	242.00
(c)	Soil mixture	16.5 kg	272.25
(d)	Filling of protrays and sowing of flower seeds	1150 nos	190.53
(e)	Maintainance(1.5 months)	1150 nos	491.08
1.28	Vegetable seedlings production (protrays)		
(a)	Procurement of Vegetable seeds(Local)	1150nos	161.00
(b)	Protays	11 nos	121.00
(c)	Soil mixture	16.5 kg	83.00
(d)	Filling of protrays and sowing of flower seeds	1150 nos	65.00
(e)	Maintainance(1.5 months)	1150 nos	50.00
1.29	Other operations in raising of polyethene bagged seedlings		
(a)	Purchase of polythene bags	by Tender	
(b)	Uprooting and preparation of teak / hardwood stumps from the dry nursery beds	1,000	544.53
(c)	Transportation of teak / hard wood stumps from dry beds to nursery within the Division	1,000	30.31
(d)	Application of DAP or NPK to the seedling in polythene bags @ 5 gm or so (only for tall seedlings for roadside planting)	1,000 each time	459.77
(e)	Providing overhead shade pandal to the seedlings raised in nursery beds and polythene bags, including collection and transportation of material required for pandal – Rate for 12.00 Meter X 1.20 Meter size	each	605.00

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
(f)	Purchase of 8-10 ft long stakes of 'chewa' or split dowga bamboos from private parties for providing vertical support to each plant including delivery at nursery site (for tall seedlings only) ceiling rate	1,000	8,469.35
(g)	Cost of collection of 8-10 ft long stakes of 'chewa' or split dowga bamboos from departmental forest / plantation for providing vertical support to each plant including delivery at nursery site (for tall seedlings only)	1,000	8,476.52
(h)	Tying of plant to the vertical stake, and pluming of buds as it grows once in a fortnight (for tall seedlings only)	1,000 each time	544.53
(i)	Providing horizontal stakes of split bamboos to the seedlings at an height of 5 ft. from ground level to avoid falling of tall seedlings due to wind (for tall seedlings only)	On lowest quoted rates	
(j)	Pruning of taller seedlings as seedling grows	1,000	453.78
1.30	Harvesting of matured coconuts	no	1.38
1.31	Harvesting of matured Mangoes		
	a) Less than 15 years	Qtl.	117.86
	b) More than 15 years	Qtl.	166.97
1.32	Harvesting and loading of Sapota and Guava	Qtl.	392.86
1.33	Chopping of green manures and covering /mulching around the plant	Ac.	6,875.00
1.34	Collection of fallen coconut fronds (chopping the fronds to fine powder and mulching around plant)	FronD	2.75
1.35	Production of Jeevamruta (including material cost)	Ltr	2.46
1.36	Production of Beejamruta(including material cost)	Ltr	2.16
1.37	Production of Panchagavya (including material cost)	Kg	42.60
1.38	Production of biodigester solution (including material cost)	Ltr	3.14
1.39	Drenching of coconut/Arecanut tree fronds with plant protection solution	Palm	27.50
1.40	Cutting and removing of parasite plants in Sapota/Mango plants	Tree	13.75
1.41	Thin out of mango/sapota plants.		
1.42	a) Less than 15 years	Tree	13.75
	b) More than 15 years	Tree	27.50
1.43	coconut nursery		
a	Formation of 8mt x 1.25 mt. raised beds and sowing of coconut seed nuts (100 seed nuts per bed)	Bed	321.59
b	Procurement of materials(Sand and pesticide)	Bed	128.71
c	Watering, Weeding ,and plant protection etc (15 months)	Bed	558.86
d	Watering and uprooting of coconut seedlings)	Bed	97.68
e	Watering and maintainance of seedlings/seeds(Upto the sale of seedligs)- maximumum 4 months	Bed	21.78
1.44 A	Loading of Polythene Bagged Seedlings:		
a	4"x6"	1000nos	107.84
b	5"x8"	1000nos	175.24
c	6"x9"	1000nos	215.68
d	8"x12"	1000nos	1,090.56
e	12"x12"	1000nos	1,635.84
f	12"x15"	1000nos	2,044.80

Item No.	Particulars of the work	Unit	2021-22 rate sanctioned (in Rs.)
1.44 B	Unloading of Polythene Bagged Seedlings:		
a	4"x6"	1000nos	68.75
b	5"x8"	1000nos	148.28
c	6"x9"	1000nos	175.24
d	8"x12"	1000nos	903.19
e	12"x12"	1000nos	1,354.74
f	12"x15"	1000nos	1,693.42
1.45	Transportation of polybag seedlings		
	Upto 50 Km distance	1000 bags	1,800.00
		2000 bags	2,400.00
	More than 51 Km distance(Per km)	1000 bags	16.80
		2000 bags	19.20
		3000 bags	21.60
	Note(1):Survival/success percentage of grafts and seedlings		
	Crop/Variety	Success ratio (Total Grafts: Final survival)	
	(a) Mango(Badami,Dasheri,Kesar, Amrapali) grafts,Udupi jasmine seedlings	1600:1000	
	(b)Mango(other varieties), Amla, Guava, Seetaphal, Sapota,Pepper,Jamun,Rose apple,other fruit plant grafts	1400:1000	
	(c)Jackfruit grafts	2500:1000	
	(d)Cashew grafts	1900:1000	
	(e)Pepper grafts	1666:1000	
	(e)Pepper seedlings	1400:1000	
	(e)Gooty (all crops)	1250:1000	
	(f)Grape grafts	1200:1000	
	(f)Areca seedlings	1250:1000	
	(g)All other seedlings(fruit crops/medicinal)	1100:1000	
	(h)Papaya hybrid	1150:1000	
	(i)Rebagging lime	1200:1000	
	(j)Rebagging of all grafts	1050:1000	
	Note:(2) A separate department specific work book or SR can be prepared for Horticulture and water shed Departments. It includes some of department specific works.Detailed crop/variety wise production cost of grafts/seedlings/budded/layered plants can be worked out separately in the department specific workbook considering the rates given in the common SR.Specifications of Grafts/Rootstock / seedlings/ Budded plants can be mentioned in the workbook .Schedule of activities can be mentioned in the workbook		
	Note:(3) Success rate of grafted plants/seedlings/cuttings/layers depends on crops/ varieties and to be calculated sepertely for different crops/varieties. There fore Cropwise production cost per graft/seedling/layer/cutting should be calculated and included in department specific work book of SR		
	Note:(4) Germination percentage of seeds varies for different crops and should be calculated separatelywhile arriving cropwise production cost of grafts/seedligs		
	Note:(5) Department specific works which are not included in the common SR can be included in Department Specific Work book of SR.		

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
	Note:(6) Any other new works/items for which schedule of rates required immediately to implement the works, it can be approved by the as when required by the Competant authority		

Item No.	Particulars of the work	Unit	2021-22 rate sanctioned (in Rs.)
2	PLANTATION WORKS(For Non aerable land)		
2.1	Clearance of undergrowth in thick forest areas of Western Ghat areas		
(a)	Clear felling, burning, heaping and re-burning in moderate area where there is thick under growth and bushes	Ha.	12,099.96
(b)	Clearance of jungle growth, scattered type low density areas, burning heaping and re-burning to make the area suitable for planting	Ha.	7,260.00
(c)	For spot clearing of site at pit point in moderate area where there is thick under growth and bushes	m2	1.76
(d)	For spot clearing of site at pit point in scattered type low density areas	m2	1.24
(e)	Clearance of weed growth of eupatorium and thorny bushes in open gaps, cutting stumps of saplings flush to the ground, singling of coppice shoots, cutting of woody climbers, carrying and heaping the debris at places where planting is not necessary, for raising plantation in areas where the canopy cover is between 0.2 to 0.4 (burning and re-burning operations not to be done)	Ha.	6,521.93
(f)	Clearance of weed growth of eupatorium and thorny bushes in open gaps, cutting stumps of saplings flush to the ground, singling of coppice shoots, cutting of woody climbers, carrying and heaping the debris at places where planting is not necessary, for raising plantation in areas where the canopy cover is between 0.4 to 0.6 (burning and re-burning operations not to be done)	Ha.	5,418.40
2.2	Clearance of undergrowth in Maidan areas		-
(a)	Clearing the unwanted growth such lantana, eupatorium and such other thorny species over the entire area, heaping and burning the debris in areas where there is thick growth.	Ha.	4,839.96
(b)	Clearing the unwanted growth such lantana, eupatorium and such other thorny species over the entire area, heaping and burning the debris in areas where there is medium undergrowth.	Ha.	3,629.98
(c)	Clearing the unwanted growth such lantana, eupatorium and such other thorny species over the entire area, heaping and burning the debris in areas where there is sparse undergrowth.	Ha.	2,420.00
2.3	Loading & unloading of Polythene Bagged Seedlings: Loading of polythene-bagged seedlings into the vehicle at the nursery site and unloading at the site nearest to the planting site		-
(a)	Seedlings raised in 4" x 6" size bags	1,000	302.46
(b)	Seedlings raised in 5" x 8" size bags	1,000	605.00
(c)	Seedlings raised in 6" x 9" size bags	1,000	846.95
(d)	Seedlings raised in 8" x 12" size bags	1,000	2,420.00
(e)	Seedlings raised in 10" x 16" size bags	1,000	5,142.44
(f)	Seedlings raised in 14" x 20" size bags	1,000	11,192.52
(g)	Seedlings raised in 7" x 7" x 12" size bags	1,000	6,050.03
2.4	Transportation: Transportation of polythene-bagged seedlings in hired truck from the nursery site to planting site		-
(a)	Seedlings raised in 4" x 6" size bags :		-
	(i) Distance up to 10 Km.	1,000	263.49
	(ii) Distance from 11 to 20 Km	1,000	395.20
	(iii) Distance from 21 to 30 Km	1,000	500.62
	(iv) Distance from 31 to 40 Km	1,000	606.03
(b)	Seedlings raised in 5" x 8" size bags :		-
	(i) Distance up to 10 Km.	1,000	526.99

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	(ii) Distance from 11 to 20 Km	1,000	737.78
	(iii) Distance from 21 to 30 Km	1,000	895.89
	(iv) Distance from 31 to 40 Km	1,000	1,053.95
(c)	Seedlings raised in 6" x 9" size bags :		-
	(i) Distance up to 10 Km.	1,000	922.22
	(ii) Distance from 11 to 20 Km	1,000	1,317.46
	(iii) Distance from 21 to 30 Km	1,000	1,580.97
	(iv) Distance from 31 to 40 Km	1,000	1,976.20
(d)	Seedlings raised in 8" x 12" size bags :		-
	(i) Distance up to 10 Km.	1,000	1,976.20
	(ii) Distance from 11 to 20 Km	1,000	2,634.93
	(iii) Distance from 21 to 30 Km	1,000	3,425.44
	(iv) Distance from 31 to 40 Km	1,000	4,215.91
(e)	Seedlings raised in 10" x 16" size bags :		-
	(i) Distance up to 10 Km.	1,000	3,161.93
	(ii) Distance from 11 to 20 Km	1,000	4,215.91
	(iii) Distance from 21 to 30 Km	1,000	5,401.63
	(iv) Distance from 31 to 40 Km	1,000	6,587.33
(f)	Seedlings raised in 14" x 20" size bags :		-
	(i) Distance up to 10 Km.	1,000	6,587.33
	(ii) Distance from 11 to 20 Km	1,000	8,168.31
	(iii) Distance from 21 to 30 Km	1,000	10,276.27
	(iv) Distance from 31 to 40 Km	1,000	12,384.26
(h)	Seedlings raised in 7" x 7" x 12" size bags :		-
	(i) Distance up to 10 Km.	1,000	5,269.92
	(ii) Distance from 11 to 20 Km	1,000	6,587.33
	(iii) Distance from 21 to 30 Km	1,000	8,958.80
	(iv) Distance from 31 to 40 Km	1,000	11,066.78
2.5	Watering by dipping: Watering polythene bagged seedlings at planting site by dipping in water, including carrying of water (Note: This should be resorted to in dry conditions)		-
(a)	4" x 6" size bagged seedlings	1,000	726.02
(b)	5" x 8" and 6" x 9" size bagged seedlings	1,000	786.50
(c)	8" x 12" size bagged seedlings	1,000	1,028.48
(d)	10" x 16" and above size bagged seedlings	1,000	1,088.98
2.5A	Conveyance: Conveyance of polybagged seedlings on head load from the dumping site to planting location near each trench/pits(distance upto 3km)		-
(a)	4" x 6" size bagged seedlings	1,000	1,028.48
(b)	5" x 8" size bagged seedlings	1,000	2,117.46
(c)	6" x 9" size bagged seedlings	1,000	3,176.24
(d)	8" x 12" size bagged seedlings	1,000	4,839.96
(e)	10" x 16" size bagged seedlings	1,000	6,050.03
(f)	14" x 20" size bagged seedlings	1,000	12,099.96
(h)	7" x 7" x 12" size bagged seedlings	1,000	10,284.98
2.6	Planting: Planting of P.B. Seedlings after tearing with blade & removing the polythene bags in trenches / pits including scooping the soil to required depth, pressing the soil gently around the seedlings after planting.		-
(a)	4" x 6" size bagged seedlings	1,000	1,315.26

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(b)	5" x 8" size bagged seedlings	1,000	2,170.22
(c)	6" x 9" size bagged seedlings	1,000	2,630.67
(d)	8" x 12" size bagged seedlings	1,000	4,603.61
(e)	10" x 16" size bagged seedlings	1,000	5,918.89
(f)	14" x 20" size bagged seedlings	1,000	13,153.09
(g)	7" x 7" x 12" size bagged seedlings	1,000	6,247.70
2.7	Raising of Block Plantations : Trench-mound method (manual)		-
(a)	Aligning in the planting area along the contours & marking for trenches	1,000	1,512.44
(b)	Excavation of contour trenches of size 4 m x 0.5 m x 0.5 m with uncut portion of 25 cm. In between the adjacent trenches, and depositing the 1/3rd top soil on upper slopes and remaining 2/3rd excavated earth on lower slopes of the trenches in:		-
	(i) Ordinary soil	cum.	163.35
	(ii) Hard soil	cum.	217.78
(c)	Refilling of trenches, cutting the edges of the excavated trench on the lower side & refilling the trench with 75% of the excavated earth duly breaking the clods & formation of uniformly sloping continuous mound all along the lower side of the trench.	cum.	21.77
(d)	Sowing of seeds on trench mound of 4 Meter in length.	trench	5.17
(e)	Weeding inside the trenches and on mounds of 4 Meter length trench	Trench	11.22
(f)	Scraping of grass and other growth around the trenches & mounds to a width of 60 cm on each side of trenches (4 meter length trench)	Trench	10.29
	(Note: Scraping is allowed only in grass infested areas)		-
(g)	Soil working the trenches by digging with pickaxe to a depth of 15 cm. and to a width of 60 cm. starting from the lower edge of the trench towards the other side of the trench of 4 m length so as to loosen the soil uniformly including scraping around the plant before digging and reformation of damaged mounds during rains. (Trench mound should not be disturbed while soil working)	Trench	17.51
2.8	Raising of Block Plantations: Pit Planting Method		-
(a)	Preparation and delivery of stakes to planting site	1,000	508.61
(b)	Aligning in the planting area along the contours & marking for pit (without staking)	1,000	484.00
(c)	Excavation of pits with vertically cut edges to make an uniform cube and heaping the excavated soil (1/3rd top soil on the upper side & 2/3rd on the lower side)		-
	(i) Ordinary soil	M ³	217.78
	(ii) Hard Soil	M ³	254.06
	(iii) Sandy Soil (Coastal areas)	M ³	151.22
(d)	Refilling of pits, cutting of edge of the pit on the lower side and refilling 75% or 100% of the pit as the case may be with the excavated soil, duly breaking the clods & arranging the remaining soil on the lower slope.	M ³	27.19
(e)	(i) First weeding around the plants (pits) to a radius of 60 cm.	1,000	1,512.44
	(ii) First weeding around the plants (pits) to a radius of 1 meter	1,000	3,024.96
(f)	(i) 2nd & subsequent weeding around the plants to radius of 60 cm.	1,000	1,209.96
	(ii) 2nd & subsequent weeding around the plants to radius of 1 meter	1,000	2,420.00
(g)	Clear weeding by cutting all weeds flush to the ground, retaining seedlings of important species, not directly interfering with the main		-

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	(i) First weeding	ha.	4,537.44
	(ii) Second weeding	ha.	3,629.98
	(iii) Third weeding	ha	2,420.00
(h)	Clear weeding by cutting all weeds flush to the ground, retaining seedlings of important species, not directly interfering with the main crop in areas with ordinary intensity of weed growth of Eupatorium, <i>Solanum</i> etc.		-
	(i) First weeding	ha.	3,327.40
	(ii) Second weeding	ha.	2,722.42
	(iii) Third weeding	ha	1,815.00
(i)	Scraping of grass and other weed growth around the plant (PITS) (Scraping item is allowed only)		-
	(i) 30 cm. radius around the plant	1,000	1,088.98
	(ii) 50 cm. radius around the plant	1,000	2,722.42
	(iii) 60 cm. radius around the plant	1,000	3,750.98
	(iv) 90 cm. radius around the plant	1,000	8,469.96
(j)	Saucer Bharav: Scraping out of grass and weeds to a radius of 50 cms around the plant, earthening up of soil in the form of a semi-circular slanting saucer shape slope, loosening of boulders if any with soil by using pickaxe and arranging the loosened boulders and soil in semi-circular fashion at the lower side of the plant (Dimension 80 cms diameter and 25 cms depth at deepest point)	1,000	13,310.00
(k)	Hoeing & soil working with pickaxe around the plant to a depth of 15 cm & to a radius of 30 cm. so as to loosen the soil around the plants (pits only).	1,000	2,117.46
(l)	Hoeing & soil working with pickaxe around the plant to a depth of 15cm. & to a radius of 50 cm. so as to loosen the soil around the plants (pits only).	1,000	4,537.44
(m)	Hoeing & soil working with pickaxe around the plant to a depth of 15cm. & to a radius of 60 cm. so as to loosen the soil around the plants (pits only).	1,000	6,050.03
(n)	Hoeing & soil working with pickaxe around the plant to a depth of 15cm. & to a radius of 90 cm. so as to loosen the soil around the plants (pits only).	1,000	12,099.96
(o)	Karada and other pernicious grass cutting flush to the ground in highly problematic plantation areas where the grass is suppressing the plants.	Ha.	6,050.03
(p)	Excavation of ponds of 5 Mtr. top width, 3 Mtr. bottom width and 4 Mtr. depth in coastal areas for watering to the Casuarina plants at the rate of one pond per ha.	pond	6,896.99
(q)	Hand watering to the Casuarina plants in the coastal plantations	1,000	1,209.96
(r)	Mulching works around the Cane and MFP plants i.e. collection of available green/dry leaves and spreading it on the soil worked area uniformly around the cane plants including cutting and unwanted growth (1 Meter dia)	1,000	4,235.05

Item No.	Particulars of the work	Unit	2021-22 rate sanctioned (in Rs.)
2.9	Raising of Block Plantation: Semi-circular pit planting (pit in pit method) (For low		-
(a)	Aligning in the planting area along the contours & marking for pit (without staking)	1,000	423.46
(b)	Excavation of semi-circular pit of 1.25 m radius and 30 cm. deep in hard soil mixed with boulders including digging of pit of size 50 cm x 50 cm x 50 cm at the centre abutting the periphery of the semi-circular pit at the deep end point & heaping the soil on the lower side in half moon shape and consolidation of mound by putting the available stone pieces & grasses on the lower side of the mound	for each semicircular pit	211.72
(c)	Refilling of pits, cutting of edge of the pit on the lower side and refilling 75% of the pit with the excavated soil, duly breaking the clods & formation of saucer shaped mound on the lower side of the pit size 50 cm. X 50 cm. X 50 cm. dug in the semi-circular pit	pit	2.07
(d)	Spot sowing of seeds on mound of the semi-circular pit	pit	5.17
(e)	Weeding in the semi-circular pits of 1.25 m. radius and on the mounds	semi-circular pit	12.10
(f)	Scraping of grass and other growth to a width of 60cm. around the semi-circular pit	semi-circular pit	14.23
(g)	Hoeing and soil-working with pickaxe around the plant to a depth of 10 cm in the entire semi-circular pit so as to loosen the soil around the plant & putting soil around the collar of the plant	semi-circular pit	21.21
2.10	Raising of Block Plantations: Trench-mound method (by ripping with bulldozer)		-
(a)	Bulldozing & site preparation: Preparing the site of felled or scrubby jungle growth by dozing and uprooting existing growth, creation of intermittent bunds across the slope and using the debris as check-dams on depressions – for raising commercial monoculture crops only (on area basis).	By tender (Items of works to be described accurately in the tender notice)	-
(b)	Ripping: Ripping along contours at an appropriate interval to a depth of 75 cm, with a ripper attached to the bulldozer; the ripper having side flange attachment, which will rip open a trench to a width of 45 cm (on running meter basis)	By tender	-
	Note: The horsepower of the bulldozer and the type of ripper and flange may vary from make to make, causing reduction or increase the depth or width of the trench. While inviting tender, the various available types of bulldozers have to be considered, and the specification should be kept flexible for enabling maximum competition.		-
(c)	Mound formation in ripped area by breaking the clods, removing stones, roots, etc., from the broken-up soil, placing the soil from uphill side to downhill side, cutting and dragging the soil to make the width of the trench uniform to hold sufficient rain water by forming septa at 4 m apart to have a trench of 4 m length and also consolidation of mound by putting available stone pieces and grasses on the lower side of the mound	trench of 4 m length	25.98
2.11	Raising of Roadside Plantations		-
(a)	Aligning in the planting area & marking for pit (without staking)	1,000	453.79
(b)	Excavation of pits of size 1 m x 1 m x 1 m with vertically cut edges to make an uniform cube and heaping the excavated soil outside the pits (1/3rd top soil to be deposited on the upper side & 2/3rd on the lower side):		-
(i)	In ordinary soil	pit	217.78
(ii)	In hard soil	pit	254.06

Item No.	Particulars of the work	Unit	2021-22 rate sanctioned (in Rs.)
(c)	Refilling of pits, cutting of edge of the pit on the lower side and refilling 75% of the pit with the excavated soil, duly breaking the clods & formation of saucer shaped mound on the lower side of the pit	pit	27.19
(d)	Cost of collection of 2.5 to 3 meter length wooden stakes of sufficient stoutness and strength from departmental forests / plantations, application of coal tar to the stake, transportation and delivery - complete (ceiling rate)	100	1,501.85
(e)	Purchase of 2.5 to 3 meter length wooden stakes of sufficient stoutness and strength from private parties including application of coal tar to the stake, transportation and delivery - complete (ceiling rate)	100	1,549.93
f(i)	Conveyance of tall seedlings raised in HDPE bags of size 14" x 20" from the dumping point to the planting site near each pit on head-load, fixing the supporting stake firmly in the pit, planting the tall seedling in the pit tying the seedling to the supporting stake at 3 points (excluding cost of supporting stake)	each tall seedling	60.50
f(ii)	Conveyance of tall seedlings raised in HDPE bags of size 25" x 25" from the dumping point to the planting site near each pit on head-load, fixing the supporting stake firmly in the pit, planting the tall seedling in the pit tying the seedling to the supporting stake at 3 points (excluding cost of supporting stake)	each tall seedling	85.58
(g)	Cutting & collection of Prosopis juliflora (PJ) branches loading the same into the lorry & unloading at the planting site (10 branches per tall plant)	each	36.24
(h)	Conveyance of P. J. branches to individual pit, tying P. J. branches around the supporting stake properly covering the tall plant with P. J. thorny branches to a height of more than 2 m and tying the P. J. branches with G. I. wire at 3 places (10 P.J. branches to be used for tying the tall seedling). Alternately phoenix leaves could be used depending on availability.	tall seedling	42.32
(i)	Cutting two phoenix leaves to each plant and tying firmly around the plant and stake in a spiral way	plant	9.65
(j)	I weeding around the plants (Pits) to a radius of 60 cm.	1,000 pits	1,512.44
(k)	II & subsequent weeding around the plants (pit) to radius of 60 cm.	1,000 pits	1,209.96
(l)	Saucer Bharav: Scraping out of grass and weeds to a radius of 50 cms around the plant, earthening up of plants in the form of a semi-circular slanting saucer shape slope, loosening of boulders if any with soil with the help of pickaxe and arranging the loosened boulders and soil in semi-circular fashion at the lower side of the plant (Dimension 80 cms diameter and 25 cms depth at deepest point)	1,000	13,310.00
(m)	Hoeing & soil working with pickaxe around the plant to a depth of 15cm. & to a radius of 60 cm. so as to loosen the soil around the plants (pits only).	1,000	6,050.03
(n)	Hoeing & soil working with pickaxe around the plant to a depth of 15cm. & to a radius of 90 cm. so as to loosen the soil around the plants (pits only).	1,000	12,099.96
(o)	Scraping of grass and other growth around the plant to a radius of 1 m.	1,000	10,424.08
(p)	Watering to the seedlings along roadside and in the city limits at 50 liters/plant		-
	(i) by utilizing the departmental vehicle (ceiling rate)	Plant each time	18.27
	(ii) by hiring the private vehicle (ceiling rate)	Plant each time	33.61
2.12	Planting of Bamboo Rhizomes		-
(a)	Digging of bamboo beds, uprooting of 1 to 2 year old bamboo Rhizomes, (without causing damage) tying in bundles and loading them into the lorry at nursery site (excluding cost of bags and fibre thread)	1,000	6,328.28

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
(b)	Transportation of bamboo Rhizome bundles in lorry from nursery to the plantation site and unloading – up to 10 km distance	1,000	4,244.38
(c)	Conveyance of bamboo Rhizome bundles from roadside to pits at the rate of 2 rhizomes per pit	1,000	4,235.02
(d)	Opening of pits, filling with red earth up to 30 cms and planting Rhizomes	1,000	3,472.68
2.13	Agave Planting		-
(a)	Uprooting of Agave suckers from the nursery beds	1,000	361.16
(b)	Transportation of Agave suckers from nursery to planting site (including loading and unloading) and conveyance to planting spot on head load	1,000	937.02
(c)	Collection of Agave suckers of one foot and above height from field areas, and transportation to the plantation area, including loading and unloading charges, for planting in the plantation - distance up to 8 Km	1,000	2,143.60
(d)	Collection of Agave suckers of one foot and above height from field areas, and transportation to the plantation area, including loading and unloading charges, for planting in the plantation - distance above 8 Km	1,000	2,572.29
(e)	Conveyance of Agave suckers from plantation boundary to planting site on head load	1,000	605.00
(f)	Digging the earth by pickaxe to the required depth, planting of Agave seedlings in the plantation and pressing the soil around the seedling.	1,000	2,117.46
2.14	Planting Ficus Cuttings : Collection of ficus cutting of size 2 Mtr. Length and girth not less than 15 cms at the thick end, treating the cutting with root harmones by dipping the lower end (one ml. Root harmones solution to be mixed with 3 to 5 ltrs. of water) for one hour, transporting and planting in pits of 0.45 M3 size, covering the cutting with thorny material and covering exposed ends with cowdung (excluding the cost of thorny materials)	cutting	60.48

Item No.	Particulars of the work	Unit	2021-22 rate sanctioned (in Rs.)
2.15	Raising of Mangrove Plantations		-
(a)	Uprooting of mangrove wildlings carefully with the roots and conveyance to planting site – in hired boat.	1,000	1,742.24
(b)	Uprooting of mangrove wildlings carefully with the roots and conveyance to planting site – in departmental boat.	1,000	1,494.36
(c)	Aligning and staking	1,000	1,718.20
(d)	Digging a pit at the marked spot in the plantation site and planting the polythene-bagged or the wildlings, refilling up the soil and consolidation.	1,000	4,821.82
2.16	Raising of Fodder Farm		-
(a)	Tractor ploughing with cultivator twice	on rate quotation	-
(b)	Formation of blocks of convenient size with bunds in the ploughed area	Ha.	2,534.85
(c)	Sowing of fodder seeds of african maize, hamata, fodder jowar, cowpea, horsegram, etc. by broadcast sowing	Ha.	427.41
(d)	Sowing of seeds by line sowing or furrow sowing	Ha.	683.88
(e)	Application of fertilizer by broadcasting at prescribed quantity	Ha.	284.31
(f)	Cutting of fodder in plantation and conveyance to the roadside after bundling into convenient sizes	Lorry load of 28 M ³	9,679.93
2.17	Common Items of Works pertaining to Raising of Plantations		-
(a)	Bharav by loosening the soil to a depth of 10 cm around the plants and to a radius of 50 cm, and earthing up of the loosened soil at the collar region for natural plants	1,000	1,885.15
(b)	Preparation of bamboo stakes, transportation to planting site, fixing and tying to the miscellaneous plants	1,000	707.38
(c)	Carrying the water manually from the water source and watering at the rate of not less than 50 liters of water per plant for seedlings planted in MFP plots / Refractory plots with plant density not more than 100 per hectare (ceiling rate)	plant	48.40
(d)	Collection of thorny materials of 2 meters and above in length and tying the materials firmly to the stem of the plant wherever stakes are not provided	plant	14.52
(e)	Application of chemical fertilizer around the plants about 15 cm. away in a furrow duly covering with soil (excluding the cost of fertilizer)	1,000	483.93
(f)	Staking and dibbling of sandal seeds in natural bushes at the rate of 2 Kg. per ha.	Ha.	394.59
(g)	Marking and selection of naturally grown Acacia auriculiformis saplings with lime at an approximate espacement of 2 M x 2 M in felled Acacia plantations, thinning out other remaining Acacia seedlings by cutting flush to the ground to allow the retained selected seedlings to grow; and carrying the debris and heaping at places where there is no growth.	Ha.	6,394.86
(h)	Providing and fixing plantation boards		-
(i)	Excavation of pits by mechanical or size by 0.75m x 0.75m x 0.75m and 1m x 1m x 1m with vertically cut edges to make an uniform cube and heaping the excavated		-
	(i) Ordinary soil	m ³	128.10
	(ii) Hard Soil	m ³	140.00
(j)	Scooping / Digging of soil to a depth of 5 cm, 2-3 Mtrs apart marking the spot in the natural forest area and sowing of seeds, refilling up the soil after sowing and formation of small mound with mummtly at lower side of the slope.	1000	2,283.59
		scooping and digging	-
	MAINTENANCE OF PLANTATIONS – SECOND YEAR(39 to 43)		-
2.18	Maintenance of Block Plantations: Trench-mound planting		-

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
(a)	Re-opening of pits of size 0.30 m x 0.30 m x 0.30 m for replacement of causalities	m ³	72.61
(b)	Weeding inside the trenches and on mounds of 4 meter length	trench	9.00
(c)	Scraping of grass and other growth around the trench of 4 m length to a width of 60 cm. on each side of the trenches	trench	9.00
(d)	Soil working the trenches by digging with pickaxe to a depth of 15 cm. and to a width of 60 cm. starting from the lower edge of the trench towards the other side of trench of 4 m. length so as to loosen the soil uniformly including scraping around the plants before digging & reformation of damaged mounds during rains	Trench	12.12
2.19	Maintenance of Block Plantations: Pit Planting		-
(a)	Re-opening of pits of size 0.30 m x 0.30 m x 0.30 m for replacement of causalities	m ³	72.61
(b)	(i) First weeding around the plants (pits) to a radius of 60 cm.	1,000	1,512.44
	(ii) First weeding around the plants (pits) to a radius of 1 meter	1,000	3,024.96

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
(c)	(i) 2nd & subsequent weeding around the plants to radius of 60 cm.	1,000	1,209.96
	(ii) 2nd & subsequent weeding around the plants to radius of 1 meter	1,000	2,420.00
(d)	Weeding in grassy areas and areas with heavy weed growth:		-
	(i) First weeding	ha.	4,537.44
	(ii) Second weeding	ha.	3,024.96
(e)	Weeding in ordinary areas with ordinary weed growth:		-
	(i) First weeding	ha.	3,327.42
	(ii) Second weeding	ha.	2,722.42
(f)	Scraping of grass and other growth around the plant (Pits) (Scraping item is allowed only in grass-infested areas)		-
	(i) 30 cm. radius around the plant	1,000	1,088.98
	(ii) 50 cm. radius around the plant	1,000	2,722.42
	(iii) 60 cm. radius around the plant	1,000	3,750.98
	(iv) 90 cm. radius around the plant	1,000	8,469.96
(g)	Karada and other pernicious grass cutting flush to the ground in highly problematic plantation areas where the grass is suppressing the plants.	Ha.	6,050.03
(h)	Hoeing & soil working with pickaxe around the plant to a depth of 15 cm. & to a radius of 30 cm. so as to loosen the soil around the plants	1,000 Plants	2,117.46
(i)	Hoeing & soil working with pickaxe around the plant to a depth of 15cm. & to a radius of 50 cm. so as to loosen the soil around the plants	1,000 Plants	4,537.44
(j)	Hoeing & soil working with pickaxe around the plant to a depth of 15cm. & to a radius of 60 cm. so as to loosen the soil around the plants	1,000 Plants	6,050.03
(k)	Hoeing & soil working with pickaxe around the plant to a depth o 15cm. & to a radius of 90 cm. so as to loosen the soil around the plants	1,000 Plants	12,099.96
2.20	Maintenance of Roadside Plantations		-
(a)	Re-opening of pits of size 1 m x 1 m x 1 m for replacement of causalities	m3	72.61
(b)	Refilling of pits, cutting of edge of the pit on the lower side and refilling 75% of the pit with the excavated soil duly breaking the clods & formation of saucer shaped mound on the lower side of the pit size 1m x 1m x 1m	pit	12.10
(c)	Conveyance of tall seedlings raised in HDPE bags of size 14" x 20" from the dumping point to the planting site near each pit on head load, fixing the supporting stake firmly in the pit, planting the tall seedling in the pit tying the seedling to the supporting stake at 3 points. (excluding cost of supporting stake)	for each Tall seedling	60.50
(d)	Cutting & collection of P. J. branches loading the same into the lorry & unloading at the planting site (8-10 branches per plant)	for each Tall seedling	36.24
(e)	Conveyance of P. J. branches to individual pit, tying P. J. branches around the supporting stake properly covering the tall plant with P. J. thorny branches to a height of more than 2m. and tying the P. J. branches with G. I. wire at 3 places (10 P. J. branches to be used for tying the tall seedling)	Each tall seedling	42.32
(f)	I weeding around the plants (Pits) to a radius of 60 cm.	1,000 pits	1,512.44
(g)	II & subsequent weeding around the plants (Pit) to radius of 60 cm.	1,000 pits	1,209.96
(h)	Scraping of grass and other growth around the tall plant to a radius of 60 cm (Pits)	1,000 Plants	3,750.98
(i)	Hoeing & soil working with pickaxe around the plant to a depth of 15cm. & to a radius of 60 cm. so as to loosen the soil around the plants	1,000 Plants	6,050.03
(j)	Watering to the seedlings along roadside and in the city limits at 50 liters/plant		-
	(i) by utilizing the departmental vehicle (ceiling rate)	Plant each time	18.13

Item No.	Particulars of the work	Unit	2021-22 rate sanctioned (in Rs.)
	(ii) by hiring the private vehicle (ceiling rate)	Plant each time	48.40
2.21	Maintenance of Plantations – Third Year		-
(a)	(i) First weeding around the plants (pits) to a radius of 60 cm.	1,000 pits	1,433.86
	(ii) First weeding around the plants (pits) to a radius of 1 meter	1,000 pits	2,873.71
(b)	(i) 2 nd & subsequent weeding around the plants to radius of 60 cm.	1,000 pits	1,149.53
	(ii) 2 nd & subsequent weeding around the plants to radius of 1 meter	1,000 pits	2,298.98
(c)	Weeding inside the trenches and on mounds of 4 meter length	Trench	8.52
(d)	Soil working the trenches by digging with pickaxe to a depth of 15 cm. and to a width of 60 cm. starting from the lower edge of the trench towards the other side of trench of 4 m. length so as to loosen the soil uniformly including scraping around the plants before digging & reformation of damaged mounds during rains	Trench	9.63
(e)	Scraping of grass and other growth around the trench of 4 m length to a width of 60 cm. on each side of the trenches	Trench	8.15
(f)	Scraping of grass and other growth around the plant (Pits)		-
	(i) 30 cm. radius around the plant	1,000	907.44
	(ii) 50 cm. radius around the plant	1,000	2,420.00
	(iii) 60 cm. radius around the plant	1,000	3,327.42
	(iv) 90 cm. radius around the plant	1,000	7,260.00
	Note: Scraping item is allowed only in grass-infested areas		-
(g)	Hoeing & soil working with pickaxe around the plant to a depth of 15 cm. & to a radius of 30 cm. so as to loosen the soil around the plants (Pits only.)	1,000 Plants	1,935.93
(h)	Hoeing & soil working with pickaxe around the plant to a depth of 15cm. & to a radius of 50cm. so as to loosen the soil around the plants (Pits only)	1,000 Plants	4,053.51
(i)	Hoeing & soil working with pickaxe around the plant to a depth of 15cm. & to a radius of 60cm. so as to loosen the soil around the plants (Pits only)	1,000 Plants	5,445.00
(j)	Hoeing & soil working with pickaxe around the plant to a depth of 15cm. & to a radius of 90cm. so as to loosen the soil around the plants (Pits only)	1,000 Plants	10,889.96
(k)	Weeding in areas with heavy weed growth of Eupatorium / Lantana, etc. by cutting flush to the ground	ha.	3,024.96
(l)	Weeding in other areas with ordinary weed growth	ha.	2,722.42
(m)	Karada and other pernicious grass cutting flush to the ground in highly problematic plantation areas where the grass is suppressing the plants.	Ha.	6,050.03
2.22	Cultural Operation in Older Plantations		-
(a)	<u>Cultural operation</u> : Clearing of unwanted growth in 4 to 10 year old plantations, climber cutting, singling of coppice growth, trimming of lower side branches and removal of Loranthus	Ha.	3,024.96
(b)	Cutting and clearing of eupatorium weeds in 4 to 10 year old plantations	ha.	5,445.00
(c)	<u>Tending operations</u> : Clearing of unwanted growth in 11 year old or older plantations, including climber cutting, singling out of multiple shoots and removal of Loranthus		-
	(i) in heavily infested areas	ha.	7,260.00
	(ii) in ordinary areas	ha.	2,722.42
(d)	Loranthus cutting in teak plantation of		-
	(i) 10 to 30 years old (ceiling rate)	tree	36.24
	(ii) more than 30 years old (ceiling rate)	tree	48.40
(e)	Big (Dowga) Bamboos		
	(i) Decongestion of clump by removing dead / malformed clumps		

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
	(ii) Soil working around the clumps at 1 m. radius from the periphery by digging 15 cm depth.	Per Clump	457.30
	(iii) Application of fertilizer (rock phosphate etc.)		
(f)	Small (Medri) Bamboos		
	(i) Decongestion of clump by removing dead / malformed clumps	Per Clump	291.45
	(ii) Soil working around the clumps at 1 m. radius from the periphery by digging 15 cm depth.		
	(iii) Application of rock phosphate.		

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
3	Horticulture Farm development works		
3.1	Planting / Maintainance of Plants Clearing / cleaning of site by removing unwanted weeds, shrubs and small trees etc.,		
(a)	Thick jungle clearance	1 Hectare	39,678.58
(b)	Medium jungle clearance	1 Hectare	29,768.75
(c)	Sparse Jungle clearance	1 Hectare	19,845.17
3.2 (a)	Marking the layout for pits at prescribed dimensions Upto 5X5 mt	1000nos	495.53
(b)	More than 5X5mt	1000 nos	992.16
3.3	Procurement of Stakes	Nos	R.Q / Tender
3.4	Digging of pits cubicaly and lifting the soil from the pits and heaping the soil beside the pits		
a)	0.3 x 0.3 x 0.3 Cum. * Normal soil	per pit	4.33
	*Hard soil	per pit	5.96
b)	0.45 x 0.45 x 0.45 Cum. * Normal soil	per pit	14.61
	*Hard soil	per pit	20.11
c)	0.6 x 0.6 x 0.6 Cum. * Normal soil	per pit	34.58
	*Hard soil	per pit	47.64
d)	0.75 x 0.75 x 0.75 Cum. * Normal soil	per pit	67.53
	*Hard soil	per pit	93.04
e)	0.90x 0.90 x 0.90Cum. * Normal soil	per pit	116.69
	*Hard soil	per pit	150.78
f)	1 x 1 x 1 Cum. * * Normal soil	per pit	160.09
	* Hard soil	per pit	220.09
3.5	Mixing of dug soil with sand and other materials and filling upto 90% of pit		-
a)	0.3 x 0.3 x 0.3 cum	per pit	1.67
b)	0.45 x 0.45 x 0.45 Cum.	per pit	2.30
c)	0.6 x 0.6 x 0.6 Cum. .	per pit	3.81
d)	0.75 x 0.75 x 0.75 Cum.	per pit	4.46
e)	0.90x 0.90 x 0.90Cum.	per pit	7.70
f)	1 x 1 x 1 Cum.	per pit	17.36
3.6	Shifting of plants to pits, planting and staking	plant	7.44
3.7	Removal of weeds and Basin preparation around plants		-
(a)	0.6 m radius	basin	9.63
(b)	1.2m radius	basin	28.93
(c)	1.0 m radius	basin	32.42
(d)	1.8 m radius	basin	48.33
(e)	2.4 m radius	basin	77.39
(f)	3.0 m radius (Basin depth - 15 centimeter.)	basin	96.74

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
3.8	Weeding in plants.		-
(a)	0.6 m radius	basin	2.45
(b)	1.2m radius	basin	9.63
(c)	1.8 m radius	basin	19.34
(d)	2.4 m radius	basin	25.83
(e)	3.0 m radius	basin	32.22
3.9	Irrigation channel - 0.3m.breadth X 0.2m depth X 1 m. Length.	0.06 cmt	7.95
3.10	Application of Organic and inorganic manures around the plant basin: Application and spreading of Organic and inorganic manures by preparing small basin at the dimension of 15cm depth and 15cm breadth		-
(a)	0.6 m radius	nos	2.45
(b)	1.2m radius	nos	4.81
(c)	1.8 m radius	nos	9.63
(d)	2.4 m radius	nos	14.53
(e)	3.0 m radius Note: Dosage as per the package of practice	nos	19.34
3.11	Plant protection measures : Spraying Below 5 years old plants	100 plants	249.31
(a)	5 - 10 years old plants	100 plants	981.16
(b)	Above 10 years old plants Note: Dosage as per the package of practice	100 plants	1,473.33
3.12	Deep digging of soil and cleaning 1x1x0.45 m = 0.45 m (Removal of Hariyali and other weeds)	0.45 m3	71.30
3.13	Ploughing		-
(a)	Bullock ploughing (10 Pairs)	Hectare	3,608.15
(b)	Tractor ploughing	Hectare	-
(i)	Disc ploughing	Hectare	7,500.00
(ii)	Cultivator ploughing	Hectare	3,750.00
(iii)	M.B.Ploughing	Hectare	10,000.00
(iv)	Rotavator	Hectare	5,000.00
3.14	Formation of fire belt		-
(a)	Removal and burning of unwanted bushes,shrubs,grass and other weeds grown upto 3mt height.	1 Km	3,035.23
(b)	Formation of fire protection ring - Excluding 1 mt circumference canopy	l Sqm.	0.98
3.15	Fencing around the orchard :		-
*	Procurement of 8"x6"x4" stone pillars, binding wires and barbed wires As per PWD S.R rates		-
*	Shifting and erection of stone pillars from procured site to pits	100nos	3,326.80
*	Digging of pits size 0.040 cum for erection of stone pillars . (0.3x0.3x0.45 cum)	100nos	31.92
	Strengthening the erected poles by filling the collected stones and pebbles at the base of the pole by using crowbar making the pole stand strong.	100nos	2,666.04

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
	<p>* Dismantelling of the barbed fencing wire bunch</p> <p>* Removal of the barbed wire from the bunch and tighing the barbed fencing wire to the errected stone pillars alternatively and biding of the barbed fencing wire to the stone pillars using binding wire. .</p> <p>Note:To replace portion of old and damaged barbed fencing wires by replacing with new barbed fencing wires the above mentioned rates and particulars should be followed.(800gms of binding wire is required for 100 points)</p>	100 point	946.78
(a)	<p><u>Seepage channels :</u></p> <p>a)Digging of seepage channels measuring 0.6 m widthx 1.0m depth x1 m length</p>	m3	132.09
	b) 0.6 x 0.6 x 1m.	m3	79.16
(b)	Annual maintenance of channels by cleaning and deepening.(0.6 x 1.0 x 1.0m.)(25% of the total amount shold be utilised for removal of top soil)	m3	26.42
	b) 0.6 x 0.6 x 1m.	m3	15.81
3.16	Cattle proof trenching:		-
	<p>Digging cattile proof trench or measurement 1.7m at top ,1m at the bottom and 1mt depth. Heightning 2mt in the begining and spreading of the dug soil evenly inside the cattlle proof trench and formation of 1mt height triangular mound.</p> <p>(Cattle entry can be restricted if the trench is straight towards the orchard and slopy outside)</p>		-
*	Normal soil	m3	159.99
*	Hard soil	m3	220.00
*	Rocky area (blasting of rock)	m3	267.83
3.17	Removal of unwanted plants,shurbs,grass and other debries using JCB	Hectare	26,962.00
3.18	Digging of pits measuring (1 x 1 x 1 cubic mt) and heaping of the dug soil near the pit using JCB/Mechanical means		46.00

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
4	EXTRACTION OF FOREST PRODUCE		
	Extraction of Teak Thinning Poles		
4.1	Marking: Marking for thinning with bands of coal-tar, paint, etc., for:		
(a)	First thinning	100	248.08
(b)	Second thinning	100	496.10
(c)	Third thinning	100	592.76
(d)	Fourth thinning	100	671.56
4.2	Felling & Conversion: Felling, conversion, collection of thinned poles & stacking near the motorable roadside: (For I, II, III and IV thinning)		-
(a)	I - a Category poles	100	12,519.57
(b)	II - a Category poles	100	8,584.87
(c)	III - a Category poles	100	7,154.03
(d)	I - b Category poles	100	5,723.25
(e)	II - b Category poles	100	5,365.46
(f)	III - b Category poles	100	4,650.07
(g)	Issus	100	2,146.25
4.3	Loading: Loading of teak thinned poles into truck:		-
(a)	I - a Category poles	100	5,590.22
(b)	II - a Category poles	100	3,946.11
(c)	III - a Category poles	100	2,762.23
(d)	I - b Category poles	100	2,301.88
(e)	II - b Category poles	100	1,578.42
(f)	III - b Category poles	100	920.78
(g)	Issus	100	427.46
4.4	Transportation : Transportation of teak thinned poles in plain & moderate areas for the first 10 KM distance: Flat rate:		-
(a)	I - a Category poles	100	3,316.55
(b)	II - a Category poles	100	2,678.68
(c)	III - a Category poles	100	1,913.30
(d)	I - b Category poles	100	1,403.26
(e)	II - b Category poles	100	1,020.41
(f)	III - b Category poles	100	510.33
(g)	Issus	100	255.06
4.5	Transportation in Steep Areas : Transportation of teak thinned poles in steep & slopy areas for the first 10 KM distance: Flat rate:		-
(a)	I - a Category poles	100	4,125.92
(b)	II - a Category poles	100	3,333.69
(c)	III - a Category poles	100	2,381.39
(d)	I - b Category poles	100	1,746.74
(e)	II - b Category poles	100	1,269.50
(f)	III - b Category poles	100	634.63
(g)	Issus	100	317.28
4.6	Transportation beyond 10 km: Transportation of teak thinned poles for the remaining distance : Beyond 10 KM		-
(a)	I - a Category poles	100/KM	197.62
(b)	II - a Category poles	100/KM	158.11
(c)	III - a Category poles	100/KM	105.39

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
(d)	I - b Category poles	100/KM	79.02
(e)	II - b Category poles	100/KM	52.70
(f)	III - b Category poles	100/KM	31.57
(g)	Issus	100/KM	13.15
4.7	Unloading: Unloading of teak thinned poles from the truck		-
(a)	I - a Category poles	100	1,644.15
(b)	II - a Category poles	100	1,249.61
(c)	III - a Category poles	100	855.02
(d)	I - b Category poles	100	723.38
(e)	II - b Category poles	100	526.08
(f)	III - b Category poles	100	262.98
(g)	Issus	100	118.34

Item No.	Particulars of the work	Unit	2021-22 rate sanctioned (in Rs.)
4.8	Stacking : Stacking of teak thinned poles in depot:		-
(a)	I - a Category poles	100	3,419.96
(b)	II - a Category poles	100	2,630.78
(c)	III - a Category poles	100	1,578.42
(d)	I - b Category poles	100	1,446.91
(e)	II - b Category poles	100	920.72
(f)	III - b Category poles	100	559.04
(g)	Issus	100	262.98
	Extraction of Acacia auriculiformis, Casuarina and Eucalyptus thinning poles from plantations (75 to 81) (Classification as per Grading Rules for Jungle wood poles)		
4.9	Felling & Conversion: Felling, conversion, collection and stacking of Acacia auriculiformis, Casuarina and Eucalyptus poles near the roadside:		
(a)	I - a Category poles	100	13,950.39
(b)	II - a Category poles	100	10,995.82
(c)	III - a Category poles	100	8,584.87
(d)	I - b Category poles	100	7,511.69
(e)	II - b Category poles	100	6,438.70
(f)	III - b Category poles	100	5,630.23
(g)	Issus	100	2,589.64
4.10	Loading : Loading of Acacia auriculiformis, Casuarina and Eucalyptus thinning poles into truck:		-
(a)	I - a Category poles	100	7,398.85
(b)	II - a Category poles	100	5,425.86
(c)	III - a Category poles	100	3,202.88
(d)	I - b Category poles	100	2,959.53
(e)	II - b Category poles	100	2,117.70
(f)	III - b Category poles	100	1,085.14
(g)	Issus	100	493.26
4.11	Transportation up to 10 km :Transportation of Acacia auriculiformis, Casuarina and Eucalyptus thinning poles in plain & moderate areas for the first 10 KM distance: Flat rate:		-
(a)	I - a Category poles	100	5,357.37
(b)	II - a Category poles	100	3,826.63
(c)	III - a Category poles	100	2,933.88
(d)	I - b Category poles	100	2,295.87
(e)	II - b Category poles	100	1,530.74
(f)	III - b Category poles	100	765.38
(g)	Issus	100	382.56
4.12	Transportation in Steep Areas up to 10 km: Transportation of Acacia auriculiformis, Casuarina and Eucalyptus thinning poles in steep & slopy areas for the first 10 KM distance: Flat rate :		-
(a)	I - a Category poles	100	6,664.92
(b)	II - a Category poles	100	4,760.54
(c)	III - a Category poles	100	3,649.64
(d)	I - b Category poles	100	2,856.45
(e)	II - b Category poles	100	1,904.12
(f)	III - b Category poles	100	952.05

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
(g)	Issus	100	469.81
4.13	Transportation beyond 10 km: Transportation of Acacia auriculiformis, Casuarina and Eucalyptus thinning poles for the remaining distance beyond 10 KM		-
(a)	I - a Category poles	100/KM	184.44
(b)	II - a Category poles	100/KM	131.72
(c)	III - a Category poles	100/KM	92.21
(d)	I - b Category poles	100/KM	65.89
(e)	II - b Category poles	100/KM	44.74
(f)	III - b Category poles	100/KM	26.34
(g)	Issus	100/KM	13.15

Item No.	Particulars of the work	Unit	2021-22 rate sanctioned (in Rs.)
4.14	Unloading: Unloading of Acacia auriculiformis, Casuarina and Eucalyptus thinning poles from the truck :		-
(a)	I - a Category poles	100	2,630.78
(b)	II - a Category poles	100	2,104.62
(c)	III - a Category poles	100	1,512.69
(d)	I - b Category poles	100	1,315.32
(e)	II - b Category poles	100	920.74
(f)	III - b Category poles	100	460.35
(g)	Issus	100	210.45
4.15	Stacking: Stacking of Acacia auriculiformis poles in the Depot:		-
(a)	I - a Category poles	100	5,261.48
(b)	II - a Category poles	100	4,274.90
(c)	III - a Category poles	100	3,288.42
(d)	I - b Category poles	100	2,630.78
(e)	II - b Category poles	100	1,512.66
(f)	III - b Category poles	100	789.24
(g)	Issus	100	361.68
	Extraction of Jungle-wood thinning Poles		-
4.16	Felling & Conversion : Felling, conversion, collection of jungle wood poles & stacking near the motorable roadside:		-
(a)	I - a Category poles	100	18,600.56
(b)	II - a Category poles	100	14,665.82
(c)	III - a Category poles	100	11,446.43
(d)	I - b Category poles	100	10,015.61
(e)	II - b Category poles	100	8,584.87
(f)	III - b Category poles	100	7,511.69
4.17	Loading : Loading of Jungle-wood poles into truck:		-
(a)	I - a Category poles	100	9,865.32
(b)	II - a Category poles	100	7,234.53
(c)	III - a Category poles	100	4,274.90
(d)	I - b Category poles	100	3,946.11
(e)	II - b Category poles	100	2,828.04
(f)	III - b Category poles	100	1,446.91
4.18	Transportation : Transportation of Jungle-wood poles in plain & moderate areas for the first 10 KM distance: Flat rate:		-
(a)	I - a Category poles	100	5,357.37
(b)	II - a Category poles	100	3,826.63
(c)	III - a Category poles	100	2,933.72
(d)	I - b Category poles	100	2,296.11
(e)	II - b Category poles	100	1,530.74
(f)	III - b Category poles	100	765.38
4.19	Transportation in Steep Areas : Transportation of Jungle-wood poles in steep & slopy areas for the first 10 KM distance: Flat rate:		-
(a)	I - a Category poles	100	6,664.92
(b)	II - a Category poles	100	4,760.54
(c)	III - a Category poles	100	3,649.64
(d)	I - b Category poles	100	2,856.45

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
(e)	II - b Category poles	100	1,904.12
(f)	III - b Category poles	100	952.05
4.20	Transportation beyond 10 km: Transportation of Jungle-wood poles for the remaining distance: beyond 10 KM		-
(a)	I - a Category poles	100/KM	316.18
(b)	II - a Category poles	100/KM	210.81
(c)	III - a Category poles	100/KM	131.72
(d)	I - b Category poles	100/KM	118.54
(e)	II - b Category poles	100/KM	84.26
(f)	III - b Category poles	100/KM	52.70

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
4.21	Unloading: Unloading of Jungle-wood poles from the truck:		-
(a)	I - a Category poles	100	2,630.78
(b)	II - a Category poles	100	2,104.62
(c)	III - a Category poles	100	1,512.69
(d)	I - b Category poles	100	1,315.32
(e)	II - b Category poles	100	920.78
(f)	III - b Category poles	100	460.35
4.22	Stacking : Stacking of Jungle-wood poles in the Depot:		-
(a)	I - a Category poles	100	5,261.48
(b)	II - a Category poles	100	4,274.90
(c)	III - a Category poles	100	3,288.42
(d)	I - b Category poles	100	2,630.79
(e)	II - b Category poles	100	1,512.69
(f)	III - b Category poles	100	789.24
	Note: All poles of higher than the maximum butt-end girth specified for poles are to be considered as timber		-
	EXTRACTION OF TIMBER (89 to 99)		-
4.23	Marking of trees: Marking of trees in coupes and compartments and elsewhere, with bands of coal-tar / paint & chiseling the number: (cost of coal-tar / paints extra)		-
(a)	In plain areas	100	1,512.44
(b)	In slopy areas	100	1,996.49
4.24	Extraction Path :		-
(a)	Formation of 3 m. wide new extraction path	KM	20,570.01
(b)	Maintenance of 3 m. wide existing extraction path	KM	8,415.52
4.25	EXTRACTION AND DELIVERY OF TIMBER / LOGS		-
(a)	Felling of marked trees, cutting of main bole as well as branches and converting into logs, dressing the logs by removing knots and forks and removal of bark 30 cm. wide around the mid length of the log - complete.	m3	1,155.35
(b)	Lopping branches of trees, tying wire rope to the top of the tree, felling the tree and guiding the same with the help of side ropes so as to direct the fall on land, converting into logs, dressing the logs by removing knots and forks and removal of bark 30 cm. wide around the mid length of the log complete. [Please see note below 68(p)]	m3	6,939.40
(c)	Dressing of Rosewood logs by removing sap wood	m3	786.88
(d)	Debarking of Kiralbogi logs soon after felling	m3	223.17
(e)	Chiseling the numbers on the prepared timber (logs) in the forest as prescribed in the Karnataka Forest Code.	100 logs	327.26
(f)	Collection of timber and dragging to roadside in:		-
	(i) Difficult areas	m3	1,973.01
	(ii) Moderate areas	m3	1,367.88
	(iii) Easy areas	m3	887.78
	Note: If the quantity of timber extracted is less than 1.00 cubic meters per ha of logging area, 20% additional rate will be applicable.		-
(g)	Collection of timber in extremely steep and extremely slopy areas and dragging to the motorable roadside with the help of 150 H.P. Winch mounted on 10 tonne capacity truck and assisted by 6 unskilled mazdoors	m3	6,564.84

Item No.	Particulars of the work	Unit	2021-22 rate sanctioned (in Rs.)
(h)	Dragging of timber through departmental elephants – tying and untying of chains to the elephant and the logs and assisting while dragging the timber by elephant	m3	187.51
(i)	Loading of timber into truck and tying with rope	m3	611.69
(j)	Transport of timber up to 10 KM distance - Flat rate:		-
	(i) In plain and moderate areas	m3	484.73
	(ii) In steep & slopy areas	m3	710.95
	(iii) In extremely steep and extremely slopy areas	m3	1,068.88
	[Please see note below 68(p)]		-
(k)	Transportation of timber by 4 wheel drive truck up to 10 Km. distance Flat rate	m3	1,319.96
	[Please see note below 68(p)]		-
(l)	Transport of timber on main road beyond 10 km and up to 50 km	m3 / Km	15.89
(m)	Unloading of timber from the truck	m3	182.75
(n)	Chiseling the depot number on the logs	100 logs	328.76
(o)	Dragging of timber in the Depot		-
	(i) Depots which annually handle less than 1,000 cum of timber	m3	253.86
	(ii) Depots which annually handle more than 1,000 cum of timber	m3	427.46
(p)	Stacking of timber into lots in the Depot	m3	378.09
	Note: (1) Item No.68 (b), 68 (g), 68(j)(iii) 68(k) 69 (d) and 69(g) are to be allowed only for extraction of Teak, Rosewood and Hardwood species from extremely steep, extremely slope and inaccessible areas after personal inspection of the spot by the Deputy Conservator of Forests and furnishing necessary certificate regarding personal inspection and justifying the rate with a sketch of the area and approval of the Chief Conservator of Forests after personal inspection. (2) The Extraction cost of any Hard wood species (Timber / Logs / Firewood should not be more than the selling price per cum.		-
4.26	EXTRACTION AND DELIVERY OF FIREWOOD		-
(a)	Preparation of firewood and stacking	M ³	-
(b)	Collection of prepared firewood/RK billets and carrying it to the motorable roadside on head-load and loading into truck in:		715.41
	(i) Easy & moderate areas	M ³	230.16
	(ii) Steep & slopy areas	M ³	328.76
(c)	Loading of firewood/RK billets into truck (excluding collection)	M ³	98.62
(d)	Collection of prepared firewood/RK billets from extremely steep, extremely slope and inaccessible areas, carrying the same to the motorable roadside and loading into truck	M ³	394.59
	[Please see note below 68(p)]		-
(e)	Separating of selected billets of Teak, Rosewood and hardwood species in case of logging areas tagged to running of firewood depots.	M ³	302.46
(f)	Transport of firewood/RK billets up to 10 KM distance: Flat rate:		-
	(i) In easy and moderate areas	M ³	107.10
	(ii) In steep and slopy areas	M ³	152.34
(g)	Transport of firewood/RK billets by 4-wheel drive truck up to 10 KM distance: Flat rate.	M ³	256.03
(h)	Transport of firewood/RK billets beyond 10 Km distance		-
	(i) From 11 to 30 KM distance	M ³ /KM	8.61
	(ii) From 31 to 50 KM distance	M ³ /KM	7.88

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
	(iii) From 51 to 80 KM distance	M ³ /KM	6.65
	(iv) From 81 KM and above	M ³ /KM	4.53
(i)	Unloading of firewood/RK billets from the truck	M ³	78.88
(j)	Stacking of firewood/RK billets in the Depot	M ³	92.02
(k)	Felling of Eucalyptus / Acacia auriculiformis / Casuarina etc. trees in plantations and converting them into 1 Mtr. long firewood billets, carting to roadside and stacking	M ³	500.72
(l)	Felling of trees and preparation of billets of 4'-5' length including debarking and stacking for supply of pulpwood to paper and rayon industries:		-
	(i) In respect of thinned Acacia-auriculiformis Plantations-	M ³	872.40
	(ii) In respect of clear felled Acacia-auriculiformis Plantations-	M ³	654.31
(m)	Preparation and stacking of Solid, straight and sound billets	M ³	933.54
4.27	Extraction of green Dowga Bamboo for supply to Medars and Others:		-
(a)	Cutting at ground level and preparation of green dowga bamboo pieces from clumps having not less than 25 culms in each clump in an inverted "V" shape on the up-hill side of the clump and stacking them near motorable road side. (The extraction should be done in such a way as to result in decongestion):		-
	(i) For dowga bamboo having above 18' length	100	5,261.48
	(ii) For dowga bamboo having 12' - 18' length	100	3,946.11
(b)	Loading of dowga bamboos into truck in forest area and unloading the same in Depot:		-
	(i) For dowga bamboos of above 18 feet length	100	526.08
	(ii) For dowga bamboos of 12 to 18 feet length	100	394.65
(c)	Loading of dowga bamboos into truck:		-
	(i) For above 18 feet length	100	361.68
	(ii) For 12 to 18 feet length	100	276.22
(d)	Transportation of dowga bamboos from forest area to Depot:		-
	(i) For above 18 feet length		526.99
	a. Up to 15 km distance: Flat rate	100	79.02
	b. For remaining distance: beyond 15km distance: Flat rate	100	-
	(ii) For 12 to 18 feet length		-
	a. Up to 15 KM distance: Flat rate	100	447.92
	b. For remaining distance: beyond 15km distance: Flat rate	100	65.89
(e)	Unloading of dowga bamboos from the truck:		-
	(i) For above 18 feet length	100	164.43
	(ii) For 12 to 18 feet length	100	118.34
(f)	Stacking of dowga bamboos in the Depot:		-
	(i) For dowga bamboos of above 18 feet length	100	328.76
	(ii) For dowga bamboos of 12 to 18 feet length	100	263.05
4.28	Extraction of Medri Bamboo for supply to Medars:		-
(a)	Cutting at ground level and preparation of green medri bamboo pieces from clumps having not less than 25 culms in each clump in an inverted "V" shape on the up-hill side of the clump in steep slopes and stacking them near motorable roadside. (The extraction should be done in such a way as to result in decongestion)		-
	(i) For medri bamboo having above 18' length	100	2,630.78
	(ii) For medri bamboo having 15' - 18' length	100	2,301.88

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
(b)	Cutting at ground level and preparation of green medri bamboo pieces from clumps having not less than 25 culms in each clump in an inverted "V" shape on the up-hill side of the clump in plain areas and stacking them near motorable roadside. (The extraction should be done in such a way as to result in decongestion)		-
	(i) For medri bamboo having above 18' length	100	1,808.60
	(ii) For medri bamboo having 15' - 18' length	100	1,644.15
(c)	Loading of Medri bamboos into the truck in forest area and unloading the same in Depot	100	131.58
(d)	Loading of Medri bamboos into the truck in forest area	100	92.02
(e)	Transportation of Medri bamboos from forest area to Depot:		-
	(i) Up to 15 KM distance: Flat rate	100	277.07
	(ii) For the remaining distance: beyond 15 KM distance (Flat rate)	100	39.36
(f)	Unloading of Medri bamboos from the truck	100	39.43
(g)	Stacking of 20' Medri bamboos in the Depot	100	39.43
4.29	Extraction of Same / Marihal bamboo (Dendrocalamus stocksii) from plantations:		-
(a)	Extraction of fully developed Same alias Marihal bamboo pieces of 12 to 15 feet length from plantations	100	1,118.03
(b)	Cutting & preparation of 8 ft. length stakes of Medri and Marihal bamboo pieces from the clumps, while decongestion, bundling and stacking near the motorable road side (lead up to 200 M)	100	657.68
(c)	Loading of Dendrocalamus stocksii bamboos pieces of length 12 to 15 feet into the vehicle in the plantation	100	84.02
(d)	Un loading of Dendrocalamus stocksii bamboos pieces of length 12 to 15 feet from the vehicle in the depot.	100	29.85
(e)	Stacking of Dendrocalamus stocksii bamboos pieces of length 12 to 15 feet in the depot.	100	29.85
4.30	Extraction of Dead and Dried Bamboos (all species) of 2 M, length for supply to Paper Mills:		-
(a)	Removal of congestion in the clumps by cutting of dead and broken bamboos and conversion into 2 M length pieces, carrying and stacking the same near motorable road side lead upto 200 M in:		-
	(i) Plain areas	M ³	887.78
	(ii) Steep and slopy areas	M ³	1,117.99
(b)	Loading of dead & dried bamboos of 2 M length into truck in forest area and unloading and stacking in the Depot.	M ³	78.88
(c)	Transportation of 2 M length dead and dried bamboos up to 10 KM distance: Flat rate		-
	(i) In easy & moderate areas	stacked cum.	38.27
	(ii) In steep and slopy areas	stacked cum.	50.94

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
(d)	Transportation of 2 M length dead and dried bamboos beyond 10KM distance:		-
	(i) From 11 to 20 KM distance	M ³ /KM	2.63
	(ii) From 21 to 30 KM distance	M ³ /KM	1.93
	(iii) From 31 to 40 KM distance	M ³ /KM	1.30
	(iv) From 41 KM and above	M ³ /KM	1.05
(e)	Cutting and preparation of 'marihal' bamboo pieces of 2 m. length from clumps for pulp purpose and stacking near the motorable roadside (lead up to 200 m.)	M ³	624.80
4.31	Extraction of Canes		-
(a)	Extraction of canes i.e. cutting and cleaning, transportation to the nearest work site, washing, dragging end cutting, polishing and bundling of:		-
	(i) Super size canes of 12 feet length and above 15 cm. girth	100	4,603.82
	(ii) Big Canes	100	3,288.38
	(iii) Small Canes	100	986.45
(b)	To bring the canes of 12' length on head load over a distance of 5 Km in steep slops of interior forest areas from cutting site to stacking spot near to motorable road:		-
	(i) Super size canes of 12 feet length and above 15 cm. girth	100	1,209.96
	(ii) Big Canes	100	846.95
	(iii) Small Canes	100	211.72
4.32	Extraction of Sandalwood Trees (including stumps)		-
(a)	Enumeration and marking of Sandalwood trees or stumps, cleaning unwanted growth all round marked trees	100	1,778.76
(b)	Extraction of Sandalwood trees or stumps by excavation round the base, uprooting the Sandal trees / stumps and trimming		-
	(i) below 20 cm girth at the base	No.	129.09
	(ii) 21 cm to 40 cm girth at the base	No.	263.57
	(iii) 41 cm to 60 cm girth at the base	No.	392.78
	(iv) 61 cm to 80 cm girth at the base	No.	525.11
	(v) 81 cm to 100 cm girth at the base	No.	789.05
	(vi) above 100 cm girth at the base	No.	1,051.65
(c)	Collection of Sandalwood pieces from different points within 200 m. by Bullock cart, including loading, tying with ropes, transporting over a distance of 800 m. forest road, untying, unloading and stacking near the lorry path	MT	2,357.12
(d)	Searching out fallen material and carrying to Central Depot (within a radius of 200 m.)	MT	3,418.19
(e)	Loading of Sandalwood into lorry	MT	966.80
(f)	Transportation of extracted Sandalwood to the nearest safe place / local depot up to 10 Km	MT	429.75
(g)	Unloading of Sandalwood at the local depot	MT	482.76
(h)	Transportation of Sandalwood to Government Sandalwood Depot:		-
	(i) Up to 30 Km distance	MT	426.82
	(ii) Above 30 Km for every additional 1 Km.	MT	20.00
(i)	Weighing of sandalwood and stacking	MT	570.88
(j)	Putting tar numbers and re-measuring in the depot	MT	889.29
4.33	Conversion of Sandalwood		-

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
(a)	Conversion of undressed sandalwood trees into roots, rootlets, billets and chilta classes	MT of heart wood & Chilta	62,097.15
(b)	Weighing of sandalwood billets, chilta, white chips and sawdust including transport from work site to storing depot	MT	889.29
(c)	Filling Sandalwood chilta in gunny bags	MT	444.08
(d)	Preparation of sandalwood Milva Chilta and Bosala Bukni from sapwood	MT	14,737.35
(e)	Loading of Sandalwood billets into lorry	MT	966.80
(f)	Loading of Sandalwood Chilta class and white chips to lorry	MT	1,446.91

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
5.0	TIMBER DEPOT WORKS		-
5.1	<u>Separating out selected billets:</u> Separating out solid and good firewood billets in the depot which are fit for sawing and likely to fetch much better rates (than normal firewood) in auction sale and stacking them as separate lots called "selected billet lots"	M ³	328.76
5.2	<u>Turning, re-measuring & chiseling:</u> Turning of logs, re-measuring them and chiseling depot number on the cut surface of the logs by applying paint.	Nos	13.15
5.3	<u>Clearance of vegetative growth:</u> Clearance of heavy growth of shrubs & thorny bushes and over growth and sweeping the resultant material away from the logs stacked in the Timber Depots.	Nos	3,024.96

Item No.	Particulars of the work	Unit	2021-22 rate sanctioned (in Rs.)
6.0	FIRE PROTECTION WORKS		-
6.1	Fire Protection in Timber Depots:		-
(a)	First weeding work i.e., clearance of undergrowth, removal of undergrowth and loose timber barks away from the lots, sweeping, heaping & burning the debris & leaves in the depot area	Ha	2,117.46
(b)	Second sweeping and burning	Ha	1,815.00
(c)	Third sweeping and burning	Ha	1,572.90
6.2(A)	Fire Protection in Forest areas: New fire lines in non-lantana infested areas. (Fire lines work should be completed by December and no payment to be made for work carried out after December. No funds will be released after the month of December.)		-
(a)	New Fire Lines: Clearing and formation of new fire lines to a width of 3 m., heaping and burning		-
	(i) In areas having thick under growth	Km.	5,445.01
	(ii) In areas having thin/sparse growth	Km.	4,235.02
(b)	Maintenance of Fire Line: Cleaning existing fire lines and fire tracing to a width of 3 m. heaping and burning		-
	(i) In areas having thick under growth	Km.	2,722.54
	(ii) In areas having thin/sparse growth	Km.	2,117.45
6.2(B)	New Firelines in Lantana infested areas (3 Mtr Width)		-
(a)	Thick growth area:		-
	(i) Clearing and formation of New fire lines to a width of 3 Mtr and heaping in middle	Km.	16,282.89
	(ii) Burning of the above heaped debris and grass / weed growth in the fire lines up to a width of 3 Mtrs.	Km.	9,304.50
(b)	Thin / Sparse growth area:		-
	(i) Clearing and formation of New fire lines to a width of 3 Mtr and heaping in middle	Km.	10,020.23
	(ii) Burning of the above heaped debris and grass / weed growth in the fire lines upto a width of 3 Mtrs.	Km.	5,427.63
6.2(C)	New Firelines in Lantana infested areas (10 Mtr Width)(more than 70% dense canopy)		-
(a)	Thick growth area:		-
	(i) Clearing and formation of New fire lines to a width of 10 Mtr and heaping in middle	Km.	32,565.79
	(ii) Burning of the above heaped debris and grass / weed growth in the fire lines upto a width of 10 Mtrs.	Km.	20,353.61
(b)	Thin / Sparse growth area:		-
	(i) Clearing and formation of New fire lines to a width of 10 Mtr and heaping in middle	Km.	16,282.89
	(ii) Burning of the above heaped debris and grass / weed growth in the fire lines upto a width of 10 Mtrs.	Km.	9,046.05
6.2(D)	New Fire lines in Lantana infested areas (25 Mtr Width) (Note : This item of work to be taken up after the approval of jurisdictional the Chief Conservator of Forests (CCF) / Addl. Principal Chief Conservator of Forests(APCCF) after his personal field inspection)		-
(a)	Thick growth area:		-
	(i) Clearing and formation of New fire lines to a width of 25 Mtr and heaping in middle	Km.	90,460.55

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
	(ii) Burning of the above heaped debris and grass in the fire lines upto a width of 25 Mtrs.	Km.	60,307.04
6.2(E)	Clearing the lantana and up-rooting the stumps in areas having more than 70% dense canopy and heaping the debries in open area upto 100 mtr	Ha	81,414.48
6.3	Fire Protection work in Plantations: New Fire Lines: Cutting of all existing weed growth to a width of 3 m. heaping, burning and re-burning in younger plantations	Km, each side	2,540.97
6.4	Maintenance of Fire Line along Roadside, Plantation, Block and Compartment Boundaries:		-
(a)	Cleaning existing fire lines and fire tracing 3 M wide.	Km, each side	1,512.44
(b)	Re-sweeping and re-burning the above fire line.	Km, each side	211.72

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
6.5(A)	Clearance of firelines and view lines in /national parks and wildlife sanctuaries		-
	Maintainance of fire line:Recutting and reclearing weed growth including grass to awidth of 10 meters for maintainance of fire lines including burning		-
	(i) In areas having thick under growth	Km.	8,469.97
	(ii) In areas having thin growth	Km.	5,747.52
6.6	Formation and Maintenance of "D" lines		-
(a)	Clearing and formation of new "D" lines to a width of 6 m and then heaping and burning all along the lines in evergreen and semi-evergreen forest areas	Km.	6,352.44
(b)	Clearing and formation of new "D" lines to a width of 4 m and then heaping and burning along the lines in deciduous forest areas	Km.	3,992.87
(c)	Re-clearing of "D" line, heaping and burning all along the line		-
	(i) 6 m width in evergreen and semi-evergreen forest areas	Km.	816.67
	(ii) 4 m width in deciduous forest areas	Km.	544.53

Item No.	Particulars of the work	Unit	2021-22 rate sanctioned (in Rs.)
7.0	OTHER PROTECTION WORKS		-
7.1	Barbed Wire Fencing (4 strands) with wooden fence posts		-
(a)	Preparation of fence posts, duly fashioned conical at the top, debarked and tar coated complete; 2 m length and 38 cm Girth (Wooden post material should be obtained from dead timber material already available in forest areas or by singling out of forked poles of appropriate size and not by cutting live tree)	No.	36.24
(b)	Transport of fence posts up to 10 km distance including loading & unloading charges – private truck	No.	12.46
(c)	Transportation of fence posts over longer distance including loading and unloading charges (total transportation cost) – private truck	No.	16.72
(d)	Loading of fence posts in to Govt. Truck and unloading the same in the field	No.	4.27
(e)	Fixing the fence posts after digging pits of 30 cm x 30 cm x 40 cm depth and consolidation, ensuring firm fixture	No.	60.48
(f)	Unrolling and fixing barbed wire with 'U' nails in four rows, ensuring proper fixture	No.	48.40
	<u>Note:</u> For more or less than 4 stands, the rates will be applicable on a pro-rata basis		-
7.2	Barbed Wire Fencing (4 Strands) with stone pillars		-
(a)	Excavation of pits of size 0.30 x 0.30 x 0.50 m. depth to accommodate the pillars	No.	9.63
(b)	Carrying the stone pillars from unloading point to the pits and placing them upright in the pits	No.	60.48
(c)	Collection of available stones filling the soil and stones, ramming with crow bar & fixing	No.	48.40
(d)	Unrolling the barbed wire, drawing the barbed wire, looping around the alternate pillar, fastening binding wire to the remaining pillars and fixing the barbed wire (including binding wire cost)	No.	21.14
7.3	Pulling out of barbed wire fencing with wooden posts		-
(a)	Removing 'U' nails from wooden posts	No.	1.46
(b)	Digging round the base, pulling out of fence posts and stacking them near roadside	No.	12.70
(c)	Pulling out the barbed wire after removing the binding wire, rolling up the barbed wire into bundles	No.	2.98
(d)	Loading fence posts into the truck	No.	2.46
(e)	Unloading fence posts from truck	No.	1.46
7.4	Pulling out barbed wire fencing and stone pillars		-
(a)	Digging round the base of stone pillars, pulling them out and carrying and stacking on the roadside	No.	90.74
(b)	Loading of stone pillars into truck	No.	36.24
(c)	Unloading of stone pillars from truck	No.	24.10
7.5	Brushwood fencing: Brushwood fencing with thorns and jungle-wood posts at every 2 m. to a height of 1.5 m. including collection of material.	Rmtr.	60.48
7.6	Four-sided wooden-frame Tree-guards with chicken-wire mesh		-

Item No.	Particulars of the work	Unit	2021-22 rate sanctioned (in Rs.)
(a)	Fabrication of tree guards after cutting, collecting, debarking and transportation of 4 poles of 2.5 m. length and 12 batons of 40 cms length, treating with creosote oil completely from bottom to top, fixing side batons and chicken wire mesh of 28 gauge to a height of 2m. from the top of the poles (including the cost of chicken wire mesh and creosote oil) Transportation of the tree guards and fixing the tree guards firmly over the seedlings planted in towns/cities – complete. (Poles sourced from departmental plantations)	No.	846.95
(b)	Fabrication of tree guards of 4 poles of 2.5 m. length and 12 batons of 40 cms length, treating with creosote oil completely from bottom to top, fixing side batons and chicken wire mesh of 28 gauge to a height of 2m. from the top of the poles (including the cost of chicken wire mesh and creosote oil) Transportation of the tree guards and fixing the tree guards firmly over the seedlings planted in towns/cities – complete. (Including the cost of purchase and delivery of poles and batons)	No.	1,209.96
7.7	Bamboo Tree-guards: Fabrication of bamboo tree guards of size horizontal 36” length 18 bamboo strips of 1” wide spacing 1” strip to strip put 4 holes to each strip of 7’ length and knit them in the form of mat by twisting galvanized steel wire of 16 gauge of Tata make, leaving 6” wire at both the ends free for tying purposes, immersing the tree guard in 5% copper-chrome-arsenic compound solution for 7 days, drying, stacking complete (inclusive of cost of steel wire, chemicals for treatment and exclusive of cost of bamboo)	No.	393.17
7.8	Tree-guard with triangular frame & PJ: Providing and fixing stakes of length 2.2 m. with 6 to 8 cm diameter in crow-bar holes duly applying coal-tar to the bottom of the stakes, one for the support of the plant and 3 at 45 cm. apart as to form equilateral triangle around the plant, firmly fixing by ramming the soil around the stakes, cutting and dragging P.J. thorns over a distance of 300 m. Twining horizontally in 3 bands, 30 cm. from the ground and 75 cm. each to the top vertical netting of P.J. thorns / Kalli closely three sides of 45 cm each finally horizontal twining of P.J. thorns / Kalli at 10 cm. apart to the height 1.5 m. complete (including cost of stakes and coal-tar)	No.	177.86
7.9	Cattle-proof Trenching		-
(a)	Mechanical excavation of cattle proof trench of size top width 1.5 M. bottom 1.0 M. and vertical depth 1.0 M. with an initial lead upto 2 M. and depositing the excavated soil uniformly over the inner side of the CPT and forming conical mound of height 1.0 M.,	cum.	120.44
(b)	Sowing of P.J. Seeds / Acacia nilotica or other thorny species on the mounds of cattle proof trench	1,000 running meters	971.30
(c)	Preparation of Duranta / Glyricidia cuttings of 3’ length, conveyance on head-load up to motorable roadside, loading into truck, unloading from the truck, conveyance by head-load up to planting site and planting on cattle proof trench mound-complete.	1,000 cuttings	3,735.29
(d)	Transportation of Duranta / Glyricidia cuttings of 3’ length (ceiling rate)	1,000 cuttings	263.49
(e)	Repairs to cattle-proof trenches: Digging out the fallen earth and placing it on the mound and reshaping the mound with the placed earth / silt (rate not to exceed 10% of the CPT formation cost)	M3	151.22

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
7.10	Construction of cattle-proof dry, uncoursed rubble stone masonry wall: Construction of dry rubble stone masonry wall around the forest area / plantation areas including collection of boulders up to a distance of 200 m. and construction wall of dimension:		588.82
	0.75 m. top width	Running meter	-
	1.00 m. bottom width		-
	1.25 m. height		-
	<u>Note:</u> For collection of boulders beyond 200 mtr. distance, tender shall be invited.		-
7.11	Elephant-proof Trench using JCB / Hitachi excavators:		-
(a)	Excavation of elephant-proof trench of size 3.0 mtr. top width, 3.0 mtr depth, and 1.5 mtr bottom width with an initial lead up to 3 mtr. and depositing the excavated soil uniformly over the inner side of the elephant-proof trench and forming conical mound of height 1.5 m, including compacting the mound.	M3	146.30
(b)	Excavation of elephant-proof trench of size 3.0 mtr. top width, 3.0 mtr depth, and 1.5 mtr bottom width in Soft rock with blasting including stacking and depositing the excavated soil uniformly over the inner side of the elephant-proof trench and forming conical mound of height 1.5 m, including compacting the mound and with all leads, cost of explosives, labour, hire of machinaries.	M3	587.01
(c)	Excavation of elephant-proof trench of size 3.0 mtr. top width, 3.0 mtr depth, and 1.5 mtr bottom width in Hard rock by drilling, blasting, breaking ,trimming of bottom and side slopes in accordance with the said cross sections, dumping the excavated material on one side shoulder of the trench with all kind of lifts complete as per specification.	M3	886.80
7.12	Maintenance of Elephant-proof Trenches for specification mentioned @ SI.No.7.11 a, b & C	M3	-

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
7.13	Elephant-proof Un coursed Dry Rubble Stone Wall		-
	Construction of elephant-proof dry rubble stone wall of size 2 m bottom width, 1 m top width and 2.25 m height after clearing jungle growth and leveling the ground to 2 m width all along the wall to be constructed and collecting locally available field stones and loose boulders of above 30 cm size by engaging manual labour and transportation on head load to a distance / lead upto 3 Km and dumping them at convenient places of the construction point (1 Rmtr x 3 x 2.25 / 2 = 3.375 cum) including collection of Rubble stone wall and transportation charges. (Note : This item of work to be taken up after obtaining the approval of jurisdictional the Chief Conservator of Forests (CCF) / Addl. Principal Chief Conservator of Forests(APCCF) after his personal inspection. Normally not to exceed 500 mtr in a location)	M3	10,057.66

Item No.	Particulars of the work	Unit	2021-22 rate sanctioned (in Rs.)
8.0	SURVEY AND DEMARCATION WORKS		-
8.1	Laying of Coupes & Compartments: Laying out coupes or compartments by clearing rank growth to a width of 2 m. in areas with :		-
	(a) Thick under growth	KM	6,304.07
	(b) Sparse under growth	Km	2,522.86
8.2	Survey & Demarcation of Planting Areas : Survey and demarcation of plantation boundary lines after clearing the rank growth to a width of 2 m. in the areas		-
	(a) With thick under growth	KM	3,291.16
	(b) With sparse under growth	KM	1,300.65
	WORKING PLAN WING RELATED WORKS		
8.3	Survey and Demarcation of Forest Boundaries / delineation of Block / Compartment boundaries and laying of sample plots		
(a)	Survey and demarcation of Forest / block / compartment boundary including clearing of jungle growth to a width of 2 meters by engaging a gang of following persons		
	Particulars	Thick growth	Thin growth
	Head mazdoor	1	1
	Chain men	2	2
	Alignment coolies	2	2
	Peg mazdoor	1	1
	Jungle clearing	14	5
	Camp servant	1	1
	Total	21	12
	Work done per day = 40 chains i.e. 20 M x 40 = 0.8 Km.		
	(i) In areas with thin undergrowth 2 Mtr. wide clearance - Mazdoor requirement for 1 Km = 12 / 0.8 = 15	Km	7,686.50
	(ii) In areas with thick undergrowth 3 Mtr. wide clearance - Mazdoor requirement for 1 Km = 21 / 0.8 = 26.25	Km	13,451.57
(b)	Engaging qualified Surveyor by paying Rs.338.11 per day @ one manday for 0.80 Km of work	Km	764.27
(c)	Engaging qualified Draughtsman by paying Rs.338.11 per day @ one manday for 0.80 Km of work	Km	764.27
(d)	Fixing the reference point / bench mark on the ground with reference to the map and surveying the tie lines for measuring the accuracy of the survey work done @ 10% of the rate provided for item (a):		-
	(i) In areas with thin undergrowth	Km	768.58
	(ii) In areas with thick undergrowth	Km	1,024.87
(e)	Formation of cairns of specified dimension using loose stones for demarcation of boundary	RQ/Tender	Tender / rate quotation
(f)	Purchase of stones of specified dimension and inscriptions	RQ/Tender	Tender /Rate quotation / Taxes applicable
(g)	Transportation, loading, unloading, conveying to the spot and fixing of stones of specified dimension	RQ/Tender	Tender / rate quotation

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
(h)	Purchase of Block and Compartment Plates of specified material and dimension	RQ/Tender	Tender /Rate quotation / Taxed applicable
(i)	Marking of boundary trees, preparing the list of such trees and fixing of Plates on compartment/block	RQ/Tender	Tender / rate quotation
(j)	Construction of labour shed using locally available forest material – 10 Unskilled heavy mazdoors	Shed	5,119.70
(k)	Setting up and winding up of officers / staff tents of about 12' x 10' dimension along with its furniture	tent each time	2,722.42
(l)	Transportation of camp articles and survey equipments from Headquarters to working spot and working spot to Head Quarter (lump-sum)		Rate quotation
(m)	Transportation of camp articles and survey equipments from camp to camp	each time	658.11

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
	<p>Laying of sample plots for collection of data and estimation of carbon as per national working plan code-2014.</p> <p>Along with the nested quadrates of size 3x3m and 1x1m, one more quadrate of size 5x5m at NE and SW direction, has to be laid out in the selected grid for the estimation of carbon stock.</p> <ul style="list-style-type: none"> - in 5x5m plot, all the dead wood above 5cm diameter to be collected, weighed and recorded. - in 3x3, all the woody litter, that is all branches below 5cm diameter, to be collected, weighed and recorded. All shrubs and climbers in 3x3m plots would be up-rooted, weighed and recorded. - in 1x1m plot, all the herbs/grasses including leaf litter to be collected, weighed and recorded. - Dry biomass to be converted into carbon stock. - For collecting data on humus and soil carbon, forest floor of 1mx1m plot at NE and SW corner of the main plot has to be swept and materials thus collected, to be weighed and a portion of the same would be kept for the carbon analysis. - A pit of 30x30x30cm to be dug at the centre of these 1x1m plots and by using soil quadrate method a composite sample of soil weighing 200 gm kept for organic carbon analysis. 		
	In dense forest areas	per inventory plot	2,434.84
	In open forest areas	per inventory plot	1,217.42
8.6	Collection of Seeds:		
(a)	Collection of seeds of various species from mother trees / seed stands / clonal orchards / seed production areas / plus trees		Rates approved by the PCCF / APCCF (R&U)
(b)	Scarification of Raw Teak Seeds	kg	15.50
(c)	Supply of Scarified Teak Seeds	kg	225.23
8.7	Collection of Teak buds and grading	100	944.74
8.8	Marking of Seed / Mother Trees		
(a)	Clearance of weed growth to an extent of 6 sq.m. to approach the tree and move around the trees, marking of seed mother trees by smoothening of bark and band painting to a width of 3" and numbering on the bark after chiseling in a rectangular fashion		
	(i) In areas with heavy weed growth		
	a. GBH less than 150 cms	Per tree	67.90
	b. GBH more than 150 cms	Per tree	77.66
(a)	(ii) In areas with sparse weed growth		-
	a. GBH less than 150 cms	Per tree	38.84
	b. GBH more than 150 cms	Per tree	48.40
8.9	Laying out block plots, sub-plots etc. as per standard design for various experiments	100 Mtr	186.05
	Removal of Eucalyptus stumps for Research plots: Digging and removal of Eucalyptus stumps including collection and carrying the stumps nearer to the lorry path and stacking for stumps having girth:		-

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
8.10	(a) 0.25 Mtr. to 0.60 Mtr.	each	169.40
	(b) 0.61 Mtr. to 1.20 Mtr.	each	205.66
	(c) 1.21 Mtr. to 1.80 Mtr.	each	302.46
	(d) 1.80 Mtr. to 2.40 Mtr.	each	605.00
8.11	Approach/Wedge grafting		-
a	Selection of root stock	100	296.41
b	cutting and collection of rootstock	100	160.78
c	Payment of royalty to the owner of plus tree	100	289.66
d	Transportation of scion from plus tree to nursery	100	84.26
e	Preparation of scion	100	163.36
f	wedge grafting	100	808.94
g	cost of fungicides	100	8.27
h	Cost of polyethene strips for tying	100	24.81
i	cost of polyethene tube and labeling tag	100	339.33
j	shifting of grafts into polyhouse	100	322.27
k	Water to grafts in polyhouse	100	883.27
l	Removing the polyethene tube	100	133.07
m	Shifting of grafts to the shadenet	100	322.27
n	Watering the grafts inside the shadenet	100	296.41
o	Shifting the grafts from shadenet to open area	100	322.27
p	Untying the plastic strips and tagging each seedlings	100	235.93
8.12	Preparation of Vegetative Cuttings and raising them in root trainers		
(a)	Purchase of IBA (Root hormone) at the rate of 0.5 gram per 1000 cuttings		On RQ
(b)	Carrying the filled polythene bags of size 4' x 6' and properly arranging in the mist chamber	1,000	253.12
(c)	Cutting and collection of selected clonal cutting, tying identity tags and bundling	1,000	441.85
(d)	Transportation of collected clonal material to the nursery site by private vehicle	1,000	210.81
(e)	Removing side shoots, trimming leafs to half size and making plantable cuttings	1,000	776.79
(f)	Soaking the prepared cuttings in fungicides and root hormones and planting them in root trainers	1,000	675.10
(g)	Watering the bottom of the mist chamber for maintaining humidity and water level of the mist chamber for 45 days	1,000	13.53
(h)	Shifting of rooted polythene bagged seedlings from mist chambers and rearranging in the partial shade	1,000	657.68
(i)	Arranging separately the unrooted polythene bags left over after shifting of rooted seedlings	1,000	253.12
(j)	Preparing and applying liquid fertilizer to successful cuttings – twice	1,000	168.81
(k)	Providing overhead shade pandal		605.00
(l)	Watering to the seedlings in the root trainers:		-
	(a) For the first 2 months (60 days)	1,000/day	16.86
	(b) After 2 months (60 days)	1,000/day	11.27
(m)	Removing weeds from root trainer seedlings once in a month	1,000	48.05

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
8.13	Plantation Board: Providing and fixing RCC plantation boards of 2' x 1 ' size duly inscribing about experimental sample plot	board Ceiling rate	2,402.45

Item No.	Particulars of the work	Unit	2021-22 rate sanctioned (in Rs.)
9.0	TRAINING INSTITUTIONS		
9.1	Honorarium to Guest Faculty/Adjunct Faculty/ Visiting Faculty and Subject Matter Experts for teaching per session (90 minutes).		
1	For teaching the Group 'A' Officers		
	a) In-service Govt Officers	Per session	1,000.00
	b) Retired Govt Officers and all others	Per session	2,000.00
	c) Subject Matter Experts from Academic/Research Institutions and Consultants	Per session	4,000.00
2	For teaching the Group 'B' Officers		-
	a) In-service Govt Officers	Per session	1,000.00
	b) Retired Govt Officers and all others	Per session	1,500.00
	c) Subject Matter Experts from Academic/Research Institutions and Consultants	Per session	3,000.00
3	For teaching the Group 'C' employees		-
	a) In-service Govt Officers	Per session	750.00
	b) Retired Govt Officers and all others	Per session	1,000.00
4	For teaching the Group 'D' employees		-
	a) In-service Govt Officers	Per session	500.00
	b) Retired Govt Officers and all others	per session	750.00
9.2	Honorarium to Guest faculty /Adjunct faculty/ Resource persons for accompanying the trainees during study tours.		
1	For accompanying Group 'A' Officers		
	a) On inter state tours	Per day	3,000.00
	b) On state tours	Per day	2,500.00
2	For accompanying Group 'B' Officers		-
	a) On inter state tours	Per day	2,500.00
	b) On state tours	Per day	2,000.00
3	For accompanying Group 'C' employees		-
	a) On inter state tours	Per day	2,000.00
	b) On state tours	Per day	1,500.00
4	For accompanying Group 'D' employees on state tours	Per day	1,000.00
9.3	TA to Guest Faculty/Adjunct Faculty/Subject Matter Experts/Resource persons while travelling for teaching purpose.		
	a) To in-service officers and employees(At the rates applicable to their respective cadre if they are not using official vehicle)		At the rates applicable to their respective cadre if they are not using official vehicle
	b) To retired officers and employees(At the rates they were entitled at the time of retirement)		At the rates they were entitled to at the time of retirement
	c) Other Resource Persons(II Ac express train fare or sleeper coach or bus fare)		II AC express train fare or sleeper coach or bus fare.

Item No.	Particulars of the work	Unit	2021-22 rate sanctioned (in Rs.)
	d) Subject Matter Experts from Academic/Research Institutions and Consultants(First Ac express train fare or air fare by economic class)		First class AC train charges of Air fare by economy class
	Note 1: Number of times TA can be paid in case whole subject is being taught to the trainees(Maximum of 6 times for whole course)		Max of 6 times for the whole course
9.4	Boarding charges to Guest Faculty/Adjunct Faculty/Subject Matter Experts/Resource persons.		
	a) At the training centres(Actual charges of room rent and food charges at the rates determined by the institute for guests)		Actual charges of room rent and food charges at the rates determined by the institute for guests
	b) Outside the training institute(50% above the rate applicable to the trainees)		50% above the rate applicable to the trainees
9.5	Editing reading materials and publishing them as booklets of standard text book size specifications for distribution among the trainees (excluding printing charges).		
	Receiving the manuscript/typescript from Guest Faculty / Regular Faculty, designing cover page, editing text, page setting, proof reading etc., and overseeing the printing work.		
	a) Booklets up to 100 pages	up to 100 pages	5,000.00
	b) Booklets from 100 to 200 pages	up to 100-200 pages	7,500.00
	c) Booklets above 200 pages	above 200 pages	10,000.00
9.6	Preparing common question papers for Induction Training Courses for final examinations for each subject and final exams for the pre-promotion training courses (Rate applicable to regular faculty also)		
1	a) For group 'A' Officers	Per subject	3,000.00
	b) For group 'B' Officers	Per subject	2,000.00
	c) For group 'C' Officials	Per subject	1,500.00
	d) For group 'D' Officials	Per subject	1,000.00
2	Preparing Answer keys for the above question papers (Only for descriptive question papers)	Per subject	25% of question by security press
3	Translating the question papers to Kannada for subordinate staff	Per Page	100.00
4	Type setting and printing of question papers at a security press	Per paper	As per the rate quotation by security press
9.7	Evaluation of descriptive answer papers of induction as well as pre-promotion trainees (Rate applicable to regular faculty also)		-
	a) Rate for interviewing group 'A' Officers	Per paper	70.00
	b) Rate for interviewing group 'B' Officers	Per paper	50.00

Item No.	Particulars of the work	Unit	2021-22 rate sanctioned (in Rs.)
	c) Rate for interviewing group 'C' Officials	Per paper	40.00
	d) Rate for interviewing group 'D' Officials	Per paper	30.00
9.8	Conducting viva voce (interviews) for trainees at the end of the training course (Rate applicable to regular faculty also).		-
	a) Answer scripts of group 'A' Officers	Per candidate	300.00
	b) Answer scripts of group 'B' Officers	Per candidate	200.00
	c) Answer scripts of group 'C' Officials	Per candidate	100.00
9.9	Cost of study tour per day including transportation and accommodation to the Induction and Pre-Promotion trainees.		-
	a) For group 'A' Officers	Per trainee/day	2,000.00
	b) For group 'B' Officers	Per trainee/day	1,500.00
	c) For group 'C' Officials	Per trainee/day	1,000.00
	d) For group 'D' Officials	Per trainee/day	800.00
	Note 1: Rate limited to 60% only in case government accommodation is provided at nominal rates or free of cost.		
	Note 2: For inter-state tours the local State Tourism Corporation vehicles or ITDC vehicles should be preferred. In case private vehicles are used, rates should not be more than these rates.		
9.10	Cost of lodging and boarding for in-service trainees at the Training Centre/Institute which includes bed tea/coffee for Group A officers; breakfast, launch , dinner and tea/ coffee with biscuits once in forenoon & once in afternoon for all cadres for in-service trainings, workshops, seminars, conferences etc.		
(A)	Cost of Lodging		
	a) Group 'A' Officers	Per trainee/day	480.00
	b) Group 'B' Officers	Per trainee/day	320.00
	c) Group 'C' Officials	Per trainee/day	240.00
	d) Group 'D' Officials	Per trainee/day	160.00

Item No.	Particulars of the work	Unit	2021-22 rate sanctioned (in Rs.)
(B)	Cost of Boarding		-
	a) Group 'A' Officers	Per trainee/ day	720.00
	b) Group 'B' Officers	Per trainee/ day	480.00
	c) Group 'C' Officials	Per trainee/ day	360.00
	d) Group 'D' Officials	Per trainee/ day	240.00
9.11	Cost of reading materials and stationery kit for refresher courses including carry bag, hand books, writing pad, pen, empty folders etc.		-
	a) For group 'A' Officers	Per trainee	3,000.00
	b) For group 'B' Officers	Per trainee	2,000.00
	c) For group 'C' Officials	Per trainee	1,500.00
	d) For group 'D' Officials	Per trainee	1,000.00
9.12	Hiring teaching hall for out station trainings / workshop / seminar/conference etc., for a batch of 30-40 in-service trainees)	Per day	10,000.00
9.13	Hiring accommodation for the night halt of trainees for in-service trainings conducted outside the Training Centre/Institute.		-
	a) For group 'A' Officers	Per person	2,000.00
	b) For group 'B' Officers	Per person	1,500.00
	c) For group 'C' Officials	Per person	750.00
	d) For group 'D' Officials	Per person	500.00
9.14	Hiring of IT services including projector, computer operator, sound system, display boards, consumables like marker pens, flip charts etc.		
	For each occasion	Rate quotation	Based on the local rate quotation
9.15	Transport cost for local field visits during in-service training/workshop etc.	Rate quotation	rate quotation
9.16	Invigilation work during examinations (Rate applicable to regular faculty also)		
	a) Honorarium to Observer / Coordinator	Per day of two sessions	3,000.00
	b) Supervisor of Examination Centre	Per day of two sessions	2,000.00
	c) Invigilator	Per day of two sessions	1,000.00
	d) Clerical assistance	Per day of two sessions	600.00
	e) Group D assistance	Per day of two sessions	300.00
	In case only one session is held the cost should be limited to 60% of the above rates		
9.17	Hiring authorised agents for LMV Driving training to executive officers and staff during induction training		
	Charges to be paid to authorised agents for imparting training in driving of Light Motor Vehicles to Executive Officers & staff during induction training including hiring charges for the vehicles and securing of driving licence	Per Trainee	4,000.00
9.18	Payment of costs for subsidiary training to the probationers	Per Time	500.00

Item No.	Particulars of the work	Unit	2021-22 rate sanctioned (in Rs.)
1	Payment of Charges towards subsidiary trainings such as survey, weapon handling, Jungle warfare, un armed combat, forensic science & crime investigation, swimming, horse riding, first aid, sniffer dogs, wireless, house keeping, etc., to Govt. agencies-all costs included.(Rate as claimed by govt. Agency)	Per Time	Rate as claimed by Govt agency
2	Engaging technical support staff such as Sports coach, Physical Education Instructor, Yoga Teacher, Hostel Steward, Software Technician, Laboratory Assistant, Library Assistant, Telephone Operator, Class Room Attendant, Cook, Butler, Kitchen Assistant, Mess Servers, Security staff / Watchman, etc..	Basic salary of an equivalent post in the respective line departments including annual increments but without allowances	

Item No.	Particulars of the work	Unit	2021-22 rate sanctioned (in Rs.)
10.0	OTHER WORKS (151 to 153)		
10.1	Vegetative (Khus grass) Bunds: Planting Khus grass or local available suitable grass on bunds with the following items of works (including transportation)		
(a)	Marking the contour lines on the area	100 Rmtr.	24.10
(b)	Formation of furrow line	100 Rmtr.	126.40
(c)	Transportation of Khus grass to planting site after uprooting the same from nursery beds	1,000 slips	72.11
(d)	Planting of Khus grass slips in plantation area at suitable spacing all along the contour of the bed and gullies	1,000 slips	789.24
10.2	Collection of GCPs (Ground Control Point) for Cadastral Mapping, including identification of suitable points, collection of co-ordinates using handheld DGPS (Differential Global Positioning System) recording the location including snapshot in prescribed manner and uploading the data in RRSC-South (Regional Remote Sensing Centre-South) as per the SOP(Standard operating procedure)		
	a) For each village (up to 20 GCPs)	village	18,268.60
	b) For each Satellite scene (up to 50 GCPs)	Satellite scene	45,671.50
	Note: For additional GCPs Pro-rata rate may be applied.		
10.3	Sorting, Cleaning, Measuring, weighing, Marking (With hammer and Paint), recording of Measurement, classifying and lotting logs and pieces of red sanders	KG	3.83

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
11.0	Floriculture		
11.1	Raising Seedlings in Pots of 6" Size:		
(a)	Procurement of 0.97 m3. of ingredients i.e. farmyard manure/compost, sand and red earth in 1:1:1 proportion for Horticulture species	1,000	1,141.89
(b)	Mixing of ingredients of Manure, Sand and Red-earth, cleaning and filling the same into pots and keeping them in rows.	1,000	1,322.86
(c)	Weeding , loosening of soil and manure/fertilizer application	1,000	734.80
(d)	Shifting in to pots	1,000	944.44
11.2	Raising Seedlings in Pots of 9" Size:		-
(a)	Procurement of 1.38m3. of ingredients i.e. farmyard manure/compost, sand and red earth in 1:1:1 proportion for Horticulture species	1,000	1,624.55
(b)	Mixing of ingredients of Manure, Sand and Red-earth, cleaning and filling the same into pots and keeping them in rows.	1,000	1,984.30
(c)	Weeding , loosening of soil and manure/fertilizer application	1,000	1,102.30
(d)	Shifting in to pots	1,000	1,416.70
11.3	Raising Seedlings in Pots of 12" Size		-
(a)	Procurement of 4.44 m3 of ingredients i.e. farmyard manure/compost, sand and red earth in 1:1:1 proportion for Horticulture species	1,000	5,226.81
(b)	Mixing of ingredients of Manure, Sand and Red-earth, cleaning and filling the same into pots and keeping them in rows.	1,000	2,480.70
(c)	Weeding , loosening of soil and manure/fertilizer application	1,000	1,416.70
(d)	Shifting in to pots	1,000	1,653.50
11.4	Raising Seedlings in Pots of 14" Size		-
(a)	Procurement of 5.40 m3 of ingredients i.e. farmyard manure/compost, sand and red earth in 1:1:1 proportion for Horticulture species	1,000	6,356.93
(b)	Mixing of ingredients of Manure, Sand and Red-earth, cleaning and filling the same into pots and keeping them in rows.	1,000	3,307.00
(c)	Weeding , loosening of soil and manure/fertilizer application	1,000	1,984.30
(d)	Shifting in to pots	1,000	2,480.70
11.5	Mixing of ingredients of Manure, Sand and Red-earth, cleaning and filling the same into tubs/pan and keeping them in rows		-
(a)	18" tubs	1,000	9,921.20
(b)	24" tubs	1,000	12,401.70
(c)	12"Seed pan	1,000	4,960.60
11.6	Removing weeds from pots and tubs, loosening the soil and applying of manures		-
(a)	18" tubs	1,000	2,480.70
(b)	24" tubs	1,000	3,307.00
(c)	12" seed pan	1,000	3,307.00
11.7	Transplanting of seedlings		-
(a)	18" tubs	1,000	3,307.00
(b)	24" tubs	1,000	4,960.60
11.8	Cuttings preparation		-
a)	Hardwood /Semihardwood/Softwood cuttings (Thorny-Bougenvilla, Rose,Schefflera, Crotons, etc)	100 cuttings	164.57

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
b)	Hardwood /Semihardwood/Softwood cuttings(Non thorny- Draceana,Arelia,Acelepha etc)	100 cuttings	82.42
c)	Indoor plants cuttings (Diffenbechia,Aglonema, Pepperomia etc)	100 cuttings	49.81
d)	Filling seed pan with soil mixture and transferring the pots after planting	100 cuttings	496.06
11.9	Pinching of buds in annual flowering plants .	100 pots	248.07
11.10	Preparation of plot/site for planting of flowering plants	Item no 3.1-3.8	-

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
11.11	Digging of soil to 0.45 mt depth filling the 50% with top soil and other 50% area with 1:2:3 ratio Sand:FYM:Red soil and planting of seeds/seedlings/ corms(including cost of seeds/seedlings/ corms)		-
	* Normal soil	m2	241.74
	* Hard soil	m2	265.97
11.12	Basin preparation and application of manures(0.6 mt radius)	1m3	2.41
11.13	Watering of Rose and ornamental plants		-
	*with Hose pipe(every time))	5000plants	496.06
	* Watering by hands((every time)	5000plants	1,984.29
11.14	seed production of commercial flowers		-
A	Shifting and application of sand, manure and soil to planting area for commercial flowers seed production(aster,tuberose,gladiolus etc.)	1m3	92.60
B	10x10x0.30mt Digging,levelling,bund preperation and preperation of 10x10x0.30mt trenches for irrigation.	30 m3	529.17
C	*sowing/planting of commercial flowers seed/seedling/corm	1000 m2	248.07
	* Irrigation of flowerig/mother plants in seed production plot.	10000 m2	248.07
D	Weeding in seed production plots (10x10x0.10 mt.)	10 m3	248.07
E	Harvesting of flowers from mother plants, drying, cleaning and storage of seeds	1 kg	1,157.45
F	Harvesting of tuberose,gladiolus corms/bulbs by seperating soil, cleaning and storage	1000 bulbs/corms	396.78
G	Growing of rose stock plants in polythene covers	100 plants	330.70
H	Air layering of croton,hibiscus and other ornamental plants	100 layers	Follow Pomegranate Airlayering
I	Watering of mother plants planted in the nursery using hose pipe (one time).{rose, popy,jasmine,hibiscus, croton and other ornamental plants }	200 pits	248.07
J	Weeding and basin preparation of mother plants planted in nursery(0.6 mt radius) .{rose, popy,jasmine,hibiscus, croton and other ornamental plants }	1 plant	9.63
K	Filling of 500x325x100 mm measurement plastic crates with FYM and Sand mixture for progation	50 crates	248.07
L	Planting of stem cuttings in filled plastic crates ,and transferring the crates into propogation room/chamber	50 crates	248.07
M	Harvesting cut flowers like Gladiolus,Tuberose etc .	250 flowers	248.07
11.15	Rose cultivation under polyhouse condition		-
A	Red Soil + Sand + FYM mixture preparation and application to the beds prepared in polyhouse	2 m3	248.07
B	Raised bed preparation (10 X 1 X 0.3 m) and application of 25 kgs of FYM, 100 kgs of DAP to the prepared beds.	3m3	330.70

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
C	Sterilization of prepared beds by using chemicals and covering it with plastic mulch for up to 2 days. After 2 days each bed is irrigated with 100 lt of water to drain out left out chemicals used for sterilization	9 m3	248.07
D	Loosening of soil in bed and planting of 2 – 3 months old well rooted budded plants with spacing of 45 X 15 cm.	10 m2	248.07
E	Loosening of soil in bed up to 1 – 2 inches in 15 days interval.	-	248.07
F	Weeding	200 m2	248.07
G	According to requirement, irrigation and fertigation done through drip system.	4000 sq mt /per day	248.07
H	Application of fertilizers in 15 days intervals (2 labours)	4000m2	248.07
I	After 4 – 6 weeks of planting bending of plants and disbudding (removal of flowers) is done from 15 – 20 cm of budded place of plants (35 labours / 8000 plants)	250 plants	248.07
J	Pruning of plants (per sq mt., according to plants)	250 plants	248.07
K	Pinching	30 m2	248.07
L	Spraying of plant protection chemicals	4000m2	248.07
M	Harvesting of flowers and precooling, shifting to grading place.	200 Flowers	248.07
N	Sorting, grading and packaging of flower	300 Flowers	248.07
11.16	Gerbera cultivation under polyhouse condition		-
A	Red Soil + Sand + FYM mixture preparation and application to the beds prepared in polyhouse	2m3	248.07
B	Raised bed preparation (10 X 1 X 0.3 m) and application of 25 kgs of FYM, 100 kgs of DAP to the prepared beds.	3 m3	330.70
C	Sterilization of prepared beds by using chemicals and covering it with plastic mulch for up to 2 days. After 2 days each bed is irrigated with 100 lt of water to drain out left out chemicals used for sterilization.	9 m3	248.07
D	Loosening of soil in bed and planting of well rooted plants with spacing	10 m2	248.07
E	Loosening of soil in bed up to 1 – 2 inches in 15 days interval.	250 m2	248.07
F	Weeding	200 m2	248.07
G	According to requirement, irrigation and fertigation done through drip system.	4000 m2 /per day	248.07
H	Application of fertilizers in 30 days intervals (2 labours)	4000 m2	248.07
I	Spraying of plant protection chemicals	4000 m2	248.07
J	Harvesting of flowers and precooling, shifting to grading place.	200 Flowers	248.07
K	Sorting, grading and packaging of flower	300 Flowers	248.07
11.17	Carnation cultivation under polyhouse condition		-

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
A	Red Soil + Sand + FYM mixture preparation and application to the beds prepared in polyhouse	2 m3	248.07
B	Raised bed preparation (10 X 1 X 0.3 m), materials used in preparation of beds (per every 10 sq m), sand- 10 kg, cocopeat – 50 kg, DAP – 0.5 kg, CAN – 1 kg, NH ₄ NO ₃ – 05 kg, MOP – 0.5 kg, MgSO ₄ – 0.5 kg, neem cake – 10 kg and FYM – 40 kgs.	3 m3	330.70
C	Sterilization of prepared beds by using chemicals and covering it with plastic mulch for up to 2 days. After 2 days each bed is irrigated with 100 lt of water to drain out left out chemicals used for sterilization.	9 m3	248.07
D	Loosening of soil in bed and planting of 2 – 3 months old well rooted plants with spacing of 15 X 15 cm with 5 – 6 cm deep.	10 m2	248.07
E	Loosening of soil in bed up to 1 – 2 inches in 15 days interval	4000 m2	248.07
F	Weeding	200 m2	248.07
G	According to requirement, irrigation and fertigation done through drip system.	4000 m2 /per day	248.07
H	Fertilizer application in 15 days interval :In crop life cycle N:P:K of 250:80::200 g each, calcium – 120 g and magnesium – 400 g, each fertilizers per each sq mt per year 20 – 24 times should be given (2 labours).	4000m2 /per day	248.07
I	First netting is done from 12 cm height from bed and 12.5 X 12.5 cm or 15 X 15 cm should be square form. Second netting is done 15 to 20 cm height and 15 X 15 cm should be square form. To support netting for every 10 feet iron poles are planted.	9 m3	248.07
K	Pinching : After 3 months of planting pinching is done by leaving 4 – 6 leaves. (per every sq m., plants)	50 m2	248.07
L	Disbudding : Floral bud initiates from 12 – 15 weeks after planting. Single main bud is left and rest other floral buds are removed.	50 m2	248.07
M	Spraying of plant protection chemicals	4000 m3	248.07
N	Harvesting of flowers and precooling, shifting to grading place.	200 Flowers	248.07
O	Sorting, grading and packaging of flower	300 Flowers	248.07
11.18	<u>Anthuriums cultivation under polyhouse condition</u>		-
A	Application of coir + coconut husk inside polyhouse	2m3	248.07
B	Raised bed preparation (10 X 1 X 0.3 m)	3 m3	330.70
C	Beds prepared by using coir + coconut husk are treated with CAN for 24 hours and then those beds are sterilized by using fungicide and other PP chemicals.	9 m3	248.07

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
D	Planting of well rooted plants with spacing of 45 X 45 cm.	10 m2	248.07
E	Weeding	250 m2	248.07
F	According to requirement, irrigation and fertigation done through drip system.	4000 m2 /per day	248.07
G	Fertilizers given in 15 days interval : NPK – 350:150:100 kgs per hectare (2 labours)	4000 m2	248.07
H	Removal of dried leaves by leaving 4 – 5 leaves per plant.	250 m2	248.07
I	Spraying of plant protection chemicals	4000 m2	248.07
J	Harvesting of flowers and precooling, shifting to grading place.	200 Flowers	248.07
K	Sorting, grading and packaging of flower	300 Flowers	248.07
11.19	Orchids cultivation under polyhouse condition		-
A	Application of coconut husk inside polyhouse	2m3	248.07
B	Pillars are put at 5 X 5 feet distance and supporting nets are constructed at 2.5 feet height .	3 m3	330.70
C	Beds prepared by using coconut husk are treated with CAN for 24 hours and then those beds are sterilized by using fungicide and other PP chemicals.	9 m3	248.07
D	Planting of well rooted plants with spacing of 45 X 45 cm.	10m2	248.07
E	Weeding	250 m2	248.07
F	According to requirement, irrigation and fertigation done through drip	4000 m2 /per	248.07
G	Fertilizers given in 15 days interval : NPK – 350:150:100 kgs per hectare (2 labours)	4000 m2	248.07
H	Removal of dried leaves by leaving 4 – 5 leaves per plant.	250 m2	248.07
I	Spraying of plant protection chemicals	4000 m2	248.07
J	Harvesting of flowers and precooling, shifting to grading place.	200 Flowers	248.07
K	Sorting, grading and packaging of flower	300 Flowers	248.07
11.20	T-Budding in Rose		-
1	Preparatipon of 8 mt x 1.25mt . Raised bed and procurement of materials .		120.80
2	Procurement of rose cuttings: (1700 cuttings are required to get 1530 succesfull plants) (Note: To get 90% successful rooted plants)	1700 cuttings	3,400.00
3	Materials required for rooting of cuttings :Red soil:Sand:FYM-1:1:0.5)	2.5m3	2,822.13
4	Planting	1700nos	264.59

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
5	T-Budding	1530 nos	3,005.36
6	Maintainance: Transferring to polyethene covers and maintainance		1,838.70
Note for Horticulture : (1)Refer Department specific workbook for Specifications of Grafts/Rootstock / seedlings/ Budded plants. (2)Refer Department specific workbook for crop wise production cost of grafted plants/ seedlings (3) Refer Department specific workbook for Schedule of activities for production of Grafts/ Budded plants			
Note for Forest 1. The terms and conditions of any tender and agreement for purchase of any items or carrying out of any work shall be as per the prescribed terms and conditions as given in the Karnataka Forest Code, duly updated. In the absence of such terms and conditions in the KFC, the tender inviting officer shall get the terms and conditions duly approved by the PCCF(HOFF). This condition is mandatory in case of purchases / works involving large sums of money. The PCCF (HOFF) after due application of mind may permit adoption of such approved terms and conditions in similar cases elsewhere.			
2. Fire lines work should be completed by December and no payment to be made for work carried out after December. No funds will be released after the month of December.			

Item No.	Particulars of the work	Unit	2021-22 rate sanctioned (in Rs.)
12.0	Landscape works		
12.1	Cleaning/clearing of land		
(a)	clearing of land by cutting of thick and sparse growth plants(0.25 mt thickness plants and clearing of bushes along with roots(throwing away to 1.5mtr height and 50 mtr far)	Sq mt	6.75
12.2	Planting of trees		
	Digging pits of size 0.75 x 0.75x 0.75m, filling 50% of the pit with top soil and remaining 50% of pit with 1:2:3 proportion of sand (0.035cum) FYM (0.070cum) Red earth (0.105 cum) and planting of well grown tree saplings (excluding cost of plants)		
(a)	Normal soil	1No	307.00
(b)	Hard soil	1No	330.00
12.3	Planting of Shrubs		
	remaining 50% of pit with1:2:3 proportion of sand (0.007), FYM (0.014cm) red earth (0.021cm) and and planting of well grown tree saplings (excluding cost of plants)		
(a)	Normal soil	1No	68.00
(b)	Hard soil	1No	73.00
12.4	Planting of Creepers		
	Digging pits of size 0.45 x 0.45 x0.45m filling 50% of the pit with top soil and remaining 50% of pit with1:2:3 proportion of sand (0.007), FYM (0.014cm) red earth (0.021cm) and planting of well grown (excluding cost of plants)		
(a)	Normal soil	1No	68.00
(b)	Hard soil	1No	73.00
12.5	Planting of Ground cover plants		
	Digging of 1.0mx1.0mx0.45m area and filling 50% of the area with top soiland remaining 50% area with 1:2:3 proportion of sand (0.0375 cum),FYM (0.075 cum) red earth (0.0112 cum) and planting of well grown saplings/plants (excluding cost of plants)		
(a)	- do - Normal soil	1No	317.00
(b)	- do - Hard soil	1No	342.00
12.6	Rose garden/growing of rose plants		
	Digging pits of 0.6x 0.6 x0.6m size and filling 50% of the pit with top soil and remaining 50% of pit with 1:6:6 proportion of sand (0.008), FYM (0.048cm) red earth (0.048cm), Neem oil cake (200 gram), Bone meal (100gram), Gingali oil (100gram),Suphala (10 gms), Rose mix (5 gms) and other plant protection chemicals and planting of different varieties of rose plants etc. (excluding cost of plants)		
(a)	Normal soil	1No	177.00
(b)	Hard soil	1No	190.00
12.7	Growing of Flower beds		
	Digging of 1.0mx1.0mx0.45m area and filling 50% of the area with top soil and remaining 50% area with 1:2:3 proportion of sand (0.0375 cum),FYM (0.075 cum) red earth (0.0112 cum) and planting of well grown saplings/plants (excluding cost of plants)		
(a)	Normal soil	1No	317.00
(b)	Hard soil	1No	342.00

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
12.8	Growing of Flower beds using corms/bulbs (Cana,Tuberose,Gladiolus etc)		
	Digging of 1.0mx1.0mx0.45m area and filling 50% of the area with top soil and remaining 50% area with 1:2:3 proportion of sand (0.0375 cum),FYM (0.075 cum) red earth (0.0112 cum) and planting of corms/bubs/tubers in the following spacing. Cana and tuberose-0.2mx0.3m,gladiolus and others-02mx0.2m((excluding cost of planting materail)		
(a)	Normal soil	1No	317.00
(b)	Hard soil	1No	342.00

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
12.9	Growing of Hedges		
	Digging trench of size 1mx0.30mx0.45m and filling 50% of the trench with top soil and remaining 50% trench with 1:2:3 proportion of sand (0.0112), FYM (0.0224cum) red earth (0.0336cum) and planting of well grown plants (excluding cost of plants)		
(a)	Normal soil	1Rmt	100.00
(b)	Hard soil	1Rmt	107.00
12.10	Lawn development :		
A	SCRAPPING AND REMOVING TOP SOIL :-Scrapping the area by removing 0.15m soil and removing of unwanted plants,grass along with roots.25km initial transport, including lead, lift loading and unloading charges. (1x1x0.15mt)	0.15 m3	42.72
B	1 ST DIGGING:-Digging of the area for developing lawn including removing weeds, debris if any and breaking of clumps, watering etc. (1x1x0.45mt)	0.45 m3	75.98
C	2 ND DIGGING:- Digging of soil by removing grass etc if any and levelling of the soil etc .. (1x1x0.45mt)	0.45 m3	37.99
D	procurement of quality red earth/soil and heap around pit (1x1x0.15mt)	0.15 m3	72.39
E	Supply of inputs such as sand, FYM, Red earth in 1:3:6 ratio.mixing and spreadingthe mixture to 7.50cm thickness wherever required		
*	Red soil	0.0075m3	108.90
*	Farm Yard manure	0.0225m3	
*	Sand	0.045m3	
F	Supply of Fertiliser	1m2	As per market rate by Quotation /Tender
	Super Phosphate	50 gram	
	Neem oilcake	250gram	
	Bone meal	250gram	
	Potash	50gram	
	Furadan	25gram	
	Ammonium Sulphate	100gram	
	Chlorophyriphos	0.05 mili ltr	
G	Procurement of quality lawn grass		
(a)	Bermuda Grass		
	Dibbling	1m2	15.00
	Turf	1m2	100.00
(b)	American Bermuda Grass	1m2	15.00
(c)	Mexican Grass		
	Dibbling	1m2	50.00
	Turf	1m2	200.00
(d)	Korean Grass		
	Dibbling	1m2	50.00
	Turf	1m2	200.00
(e)	Phasphalam Grass		
	Dibbling	1m2	15.00
	Turf	1m2	150.00

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
(f)	Kentucky Blue Grass	1m2	15.00
(g)	Stentoporam Nikanditam	1m2	15.00
(h)	Bifullo Grass		-
	Dibbling	1m2	20.00
(i)	Ooty kiku Grass		-
	Dibbling	1m2	15.00
	Turf	1m2	100.00
(j)	St.Augustian		-
	Dibbling	1m2	20.00

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
H	Labour Charges		
	Mixing Inputs as per prescribed proportion and quantity and spreading, applying fertilizers,digging, levelling , and dibbling with lawn grass at a spacing of 5cm x5cm & as per the direction of the Officer in charge of the work.	1m2	56.28
I	Lawn development cost		-
(a)	Bermuda Grass		-
	Dibbling	1m2	400.00
	Turf	1m2	485.00
(b)	American Bermuda Grass	1m2	400.00
(c)	Mexican Grass		-
	Dibbling	1m2	435.00
	Turf	1m2	585.00
(d)	Korean Grass)		-
	Dibbling	1m2	435.00
	Turf	1m2	585.00
(e)	Phasphalam Grass		-
	Dibbling	1m2	400.00
	Turf	1m2	550.00
(f)	Kentucky Neeli Grass	1m2	400.00
(g)	Stentoporam Nikanditam	1m2	400.00
(h)	Buffalo Grass)		-
	Dibbling	1m2	405.00
(i)	Ooty kiku Grass		-
	Dibbling	1m2	400.00
	Turf	1m2	500.00
(j)	St.Augustian		-
	Dibbling	1m2	405.00
12.11	WORK TO BE UNDER TAKEN DURING MAINTENANCE:-		
	Watering : The plants and lawns in the garden should be watered frequently as required looking to the climate, soil and plant conditions: If sprinklers are made available, it can be used other wise hose pipe can be used for watering, problems regarding pipe line damage during watering/maintenance should be repaired and taken care.		
	Weeding : Weeding has to be done regularly in the entire garden area including extra weed growth in the pathways and other remaining areas in the park. Weeding should be done regularly once in a fortnight and the weeds collected should be used for preparing manure or it should be disposed from the garden appropriately.		

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
	Sweeping : Sweeping of the garden area has to be done daily. The pathways, entire garden area should be swept and kept free of fallen leanves, branches, flowers, dust etc., and should be made use for the public. Dust bins in the garden area should be emptied and disposed properly and regularly. Any dead rodent, pets or animals are founds should be removed immediately and the garden spaces should be free from foul smell. Gazeboo, Chairs and Other Adomments should be cleaned daily.		
	Maintenance of Shrubs, Edges, Ground cover and other area by regular pruning, digging so as to maintain the garden aesthetically.		

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
	Lawn moving should be done regularly every fortnight.		
	Digging of soil around plants in the garden, should be carried out. Soil basins should be prepared around the hedges/ edges/ trees/ shrubs/ ground covers by digging the soil so as to maintain retention of water. This should be done before and after monsoon.		
	Pruning of plants in the garden, such as the Hedges, Trees, Shrubs, Ground cover plants, Topiary plants, Rose plants etc., should be carried out as and when required and as per the directions of officer in-charge of work.		
	Transportation of plastic and other materials should be removed from the garden, must be taken care. The swept leaf materials only should be used for preparation of compost manure in the garden itself and the compost manure should be used in the garden. All dead plants, branches and other waste materials should be removed regularly and transported outside the garden. In the garden area dried leaves and other waste materials should be regularly removed from the garden at the risk of contractors.		
12.11(a)	Upto 8000.0 m ² (2.0 Acres)	m ² / per month	9.00
12.11(b)	From 8001.0 m ² upto 16000.0 m ² (2.0 acres to 4.0 acres)	m ² / per month	8.00
12.11(c)	From 16001.0 m ² upto 24000.0 m ² (4.0 acres to 6.0 acres)	m ² / per month	7.50
12.11(d)	From 24001.0 m ² upto 40000.0 m ² (6.0 acres to 10.0 acres)	m ² / per month	7.00
12.11(e)	From 40001.0 m ² upto 80000.0 m ² (10.0 acres to 20.0 acres)	m ² / per month	6.50
12.11(f)	Above 80001.0 m ² (above 20.0 acres)	m ² / per month	6.00
Note: The area weightage for hill station is above 25% of the rates adopted for all garden development works			

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
13.0	Tissue culture laboratory		
I	WASHING YARD		
13.1	Loading and unloading of contaminated / used bottles for sterilization in autoclave, along with waste media disposal. (Nos.)	500nos	175.00
13.2	Over night hot water chemical soaking of baby jar bottles and caps, consolidated 4 time washing of bottles along with caps, (two time machine wash and two times hand wash) later shifting to sterilization (Nos.)	500nos	1,085.00
II	LABORATORY (MATERIAL PREPARATION ONLY)		-
13.3	Pre washed bottles and caps are washed with distilled water and loaded to autoclave for sterilization, later bottle caps are oven dried after cleaning with cotton swab dipped in surface sterilizer. (Nos.)	500nos	262.50
13.4	Material for daily lab activities: (two time washing of Test tube/Conical flask/Forecep/Blade holder with the help of brush in hot water then sealed in PP cover). (Filling up of cotton/filter paper in the bottles/PP covers, sealed and arranged in the media storage room after sterilization in the autoclave. (Nos.)	100nos	875.00
13.5	Material for explant Preparation: Washing of conical flask, collection of distilled, loading/unloading for sterilization, film wrapping & arranging in the media storage room (Nos.)	50nos	525.00
13.6	Preparation of methanol solution in prescribed quantity. (Ltr)	100ltr	43.75
13.7	Washing of lab coats/mask/caps/slippers, Vaccum cleaning of sterile room, weighing of chemicals/fumigants for fumigation of lab and other minor cleaning etc., (One time)	1time	700.00
13.8	Overnight soaking of glass beads in soap solution, rinsing with methanol solution, drying/filling/autoclave sterlizing/wrapping and assembling in media storage room (Kg) once a week	5Kg	131.25
13.9	Chemical/detergent washing and drying of material/utensils used during media preparation (cooker, utensil, beaker, trolley, trays (One time)	1time	218.75
13.10	Loading/unloading of media filled bottles in autoclave for sterilization, wrapping and arranging in the media storage room (Nos.)	500nos	87.50
III	LABORATORY (PRODUCTION RELATED ONLY)		-
13.11	Stock preparation: Chemical weighing, Dilution, labeling, filtering & storing in refrigerator without getting contaminated (Skilled work) (Ltr.)	20ltrs	575.00
13.12	Preparation of media using stock solution, weighing of other chemicals, pH maintainance, media dispensing, capping, labeling & sterilization. (skilled work) (Ltr)	20ltrs	575.00
13.13	Inspection, Tagging/Selection and procurement of genuine quality explant from disease/pest free mother plant, digging/sorting/loading/unloading and primary cleaning with water including explant cost (skilled work)		-
	Banana (G-9, Robusta & Cavendish) sucker	1no	10.00
	Yelakki/Redbanana/Nendran/Rasabale (sucker)	1no	15.00
	Others	1no	3.00
13.14	Standardization/development of protocol for invitro micro propogation of various new plants - Skilled work (per day)	per day	575.00
13.15	Weighing of chemicals/solutions for overnight soaking treatment of explant in Antifungal & Antibacterial solution (Skilled work) (Nos.)		-
	Banana	100nos	551.00
	Other	100nos	431.25

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
13.16	Prepared explant are washed/treated for 4 to 5 times and trimmed layer by layer for 2 times using (antibacterial/antifungal/surftants/antioxidents/bleaching agents and sterile distilled water, final washing in LAF using sterilent and inculation/labeling (skilled work) (Nos.)		-
	Banana	100nos	1,528.97
	Other	100nos	1,078.13
13.17	Inspection and distrubution of contamination free culture bottles /media bottles for subculturing in inoculation room from media storage and growth room. (Skilled work). (Nos.)	1000nos	690.00

Item No.	Particulars of the work	Unit	2021-22 rate sanctioned (in Rs.)
13.18	Subculturing /wrapping/labeling /arranging of cultured bottles in growth room.(skilled work)		-
	Banana	100nos	753.75
	Yelakki/Redbanana/Nendran/Rasabale (sucker)	100nos	993.33
	Test tubes	100nos	610.00
13.19	Inspection/Identification/Recording/disposing of defective/offtype/contaminated culture bottles in the growth room. (Nos.) (Skilled work)	500nos	287.50
13.20	Inspection/Identification/Recording/dispatching of fully grown ready to harden rooted plants to the washing area. (No. of bottles) (Skilled work)	500nos	143.75
13.21	2-3 times washing of rooted plants dipping antifungal solutions, grading/sorting followed by transferring them to the primary hardening chamber (No. of plants)	500nos	109.37
IV	LABORATORY (EQUIPMENT MAINTAINANCE)		-
13.22	Maintenance and management of Autoclave, Boiler, Millipore, Water softening unit, Generator (using log book), Hot Air Oven, Rotary shaker, Growth room UV lights/Air conditioning and other equipment (Skilled work) (per hour)	8 hrs	575.00
13.23	Cleaning of tissue culture laboratory and corridors (sqm)	500m2	218.75
13.24	Daily cleaning of Inoculation, R&D and other rooms floor/ chair/trolley/laminar equipments and spraying of chemicals to the walls of sterile rooms. (one time)	1 time	175.00
13.25	Every day switching on the UV lights of LAF for surface sterilization, cleaning and made ready for usage (hour/LAF)	1 hour	21.10
13.26	Cleaning and maintenance work of water storage tank/sump (1 time per month)	1 time	175.00
V	HARDENING UNIT		-
13.27	Preparation and filling the potting mixture in protrays followed by the planting rooted plants in the protrays, labeling and arranging the trays in the constructed poly tunnel in the greenhouse. (Plants)	500 plants	218.75
13.28	Watering the protray plants - using rose head can (Plants)	500 plants	5.83
13.29	Transplanting of primary hardened protray plants to poly bag, arranging the bags on the raised bed poly tunnels covered with polythene mulch (skilled work) (Plants)	500plants	291.66
13.30	Identification/Collection/Packing/Labeling of samples from mother stock culture/hardening stage plants for virus indexing and genetic fidelity testing. (Nos.) Skilled work	10 nos	71.87
13.31	Green House Maintenance (Side Rolling Opening and Closing / Maintenance of Foggers, Fan and Pads/ground watering. (1 time)	1 time	21.87
13.32	Technical Assistants to the Laboratory. (Post Graduate in Biotechnology) - (per day)	Salary to be paid as per prevailing UGC/ICAR/DST Norms for the particular Cadre/position.	

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
14.0	PLANT NUTRITION		
I	Soil, water, leaf and organic manure analysis laboratory		
14.1	Collection of soil, water and organic manure samples by technical person	15 samples	575.00
14.2	Reciept, Documentation and labelling of soil, water, leaf and organic manure samples	50 samples	350.00
14.3	Cleaning the soil samples. Grinding and sieving the soil samples. Numbering and labelling the sieved samples	50 samples	175.00
14.4	Drying and grinding the leaf samples and numbering the samples	10 samples	350.00
14.5	Filling the water samples to the respective containers and labelling them.Drying and numbering the organic manure samples	50 samples	43.75
14.6	Washing of glasswares used for different analysis and rinsing them with distilled water	50 glasswares	21.88
14.7	Preparation of filter papers for potash, phosporous, micronutrients, secondary nutrients and heavy metals	50 filter paper	10.94
14.8	Analysis of pH and EC: weighing the labelled samples and preparation of samples for analysis. Calibartion of pH and EC meter		-
a	soil samples	50 samples	575.00
b	water samples	50 samples	287.50
c	organic manure samples	50 samples	575.00
14.9	Phosphorous estimation: Labelling and weighing the samples, reagents and chemicals required for analysis.Filtering the samples after the process of shaking. Calibration of UV spectrophotometer. Preparation of standard graph and documentation of the readings. Preparation of standards for the analysis.		-
a	soil samples	10 samples	575.00
b	leaf samples	5 samples	575.00
c	organic manure samples	5 samples	575.00
14.10	Potassium estimation: Labelling and weighing the samples, reagents and chemicals required for analysis.Filtering the samples after the process of shaking. Calibration of flame photometer. Documentation of the readings. Preparation of standards for the analysis.		-
a	soil samples	10 samples	575.00
b	leaf samples	5 samples	575.00
c	organic manure samples	5 samples	575.00
14.11	Organic carbon analysis: Weighing the samples and labelling them. Weighing the chemicals for analysis addition of		-
a	soil samples	10 samples	215.63
b	organic manure samples	10 samples	215.63
14.12	Nitrogen estimation in soil: weighing the soil samples to feed in Kjeldahl distillation tubes and carrying the process of distillation and titration	15 samples	575.00
14.13	Nitrogen estimation in leaf: weighing the leaf samples and addition of acids for digestion process under hot plate and to feed in Kjeldahl distillation tubes and carrying the process of distillation and titration	10 samples	575.00
14.14	Nitrogen estimation in organic manure: weighing the organic manure samples and addition of acids for digestion process under hot plate and to feed in Kjeldahl distillation tubes and carrying the process of distillation and titration	10 samples	575.00

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
14.15	Sodium content estimation in water: preparation of required standards and feeding to the flame photometer. Documentation of readings	15 samples	287.50
14.16	Chlorides content estimation in water: preparation of required chemicals and titrate against suitable chemicals. Documentation of readings	15 samples	287.50
14.17	Bicarbonates content estimation in water: preparation of required chemicals and titrate against suitable chemicals. Documentation of readings	15 samples	287.50
14.18	Micronutrients estimation: Preparation of standards. Weighing the samples and chemicals. Prepared Samples are placed in shaker. Filtering the samples to record the readings in AAS/ICPOES		-
(a)	soil samples	10 samples	575.00
(b)	water samples	5 samples	143.75
(c)	leaf samples	5 samples	575.00
(d)	organic manure samples	5 samples	575.00
14.19	Secondary nutrients estimation: Preparation of standards. Weighing the samples and chemicals. Prepared Samples are placed in orbital shaker. Filtering the samples to record the readings in UV spectrophotometer/AAS/ICPOES		-
(a)	soil samples	10 samples	575.00
(b)	leaf samples	5 samples	575.00
(c)	organic manure samples	5 samples	575.00
14.20	Boron estimation: Preparation of reagents and buffer solutions. Weighing the samples and chemicals. Feed the samples to record the readings in UV spectrophotometer/ICPOES. Preparation of standard graph.		-
(a)	soil samples	10 samples	575.00
(b)	leaf samples	5 samples	575.00
(c)	organic manure samples	5 samples	575.00
14.21	Heavy metals estimation: Preparation of standards. Weighing the samples and chemicals. Prepared Samples are placed in orbital shaker. Filtering the samples to record the readings in AAS/ICPOES		-
(a)	soil samples	10 samples	575.00
(b)	water samples	10 samples	143.75
(c)	leaf samples	5 samples	575.00
(d)	organic manure samples	5 samples	575.00
14.22	Documentation and report preparation of soil, water, leaf and organic manure	50 samples	575.00
14.23	Maintaninace and cleaning of labororty instruments	per day	131.25
14.24	Floor cleaning of labororty and platforms	per day	87.50
II	Plant microbiology laboratory		-
A	Analysis of biofertilisers and biocontrol agents		-
14.25	Samples are diluted water for pH and EC estimation. Calibration of pH meter and EC meter to record the readings.	one sample	35.94
14.26	Preparation of media perticular to the microorganisms. Autoclaving the required flasks, petriplates other glasswares.	one sample	71.88
14.27	Prepared glasswares and sterilised media are serial diluted under laminar air flow. Inoculation of culture in the media and clin wrapping it for the further growth.	one sample	287.50

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
14.28	Preparation of glass slides for straining process and observation of microorganisms and documentation of it. B.Sc. (Microbiology)	one sample	143.75
14.29	Washing the glasswears used for the analysis and rinsing it with th distilled water	50 glasswares	35.94
B	Biofertilisers and biocontrol agents production		-
14.30	Preparation of subculture-I: preparartion of the suitable media for the organism, plugging the test tubes with cotton and autoclaving the media. Inoculation of the culture to the media under Laminar Air Flow and clin wrapping it.	20 Petriplates/ Test tubes	575.00
14.31	Preparation of subculture-II: preparartion of the suitable media for the organism, plugging the test tubes with cotton and autoclaving the media. Inoculation of the culture to the media under Laminar Air Flow.	4litre	431.25
14.32	starter culture- I weighing of chemicals for the preparation of media. Autoclaving the media, inoculation of sterilized media with Trichoderma Culture (For Trichoderma only)	4litre	575.00
14.33	starter culture- II weighing of chemicals for the preparation of media. Autoclaving the media, inoculation of sterilized media with suitable Culture (For broth media)	8litre	287.50
14.34	Preparation of media for the mass culture of the suitable micro organisms and autoclaving it (For Trichoderma only).	40litre	431.25
14.35	Inoculation of cooled media under laminar air flow. Plugging the flasks with cotton and keeping it for agetation in Incubator.	40litre	143.75
14.36	Washing of glasswares, rinsing them with distilled water and sterilizing the glasswares - Conical flasks,glass bottles, trays, test tubes and pippettes.	50	87.50
14.37	Maintaninace and cleaning of laboratoroty instruments	per day	131.25
14.38	Floor cleaning of laboratoroty and platforms	per day	175.00

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
C	Bioinputs Production		-
14.39	Cleaning the raw materials for the production of Bio inputs (Trichoderma only)	40 kg	131.25
14.40	Prepared media mixture is poured into the fermentor for strelization. Strelized and cooled media is poured into the tray/bucket/drum. Inoculation of culture to the media (For Trichoderma only)	200 L	431.25
14.41	Cleaning of Fermentor and sterilizing the media in the fermentor. Inoculation of the sterilized and cooled media with suitable culture.	200 L	431.25
14.42	Pasteurisation of Lignite/Talc powder. Suitable amount of culture is drawn from the fermentor and mixed with pasteurised lignite/talc powder along with carboxymethyl cellulose. Making it a fine powder and shifting to the packing area.	100 kg	262.50
14.43	Mixed biofertilizer/bio control agent is weighed for 1 kg and filled in (8X9) milky pouch and sealing it. The sealed milky pouch is placed into the printed covers. Sealing and labeling the printed covers and assembling them.	100 kg	525.00
14.44	Preparation of 50 kg bags and sealing them, to transport them to the respective talukas/districts	1000 kg	262.50
14.45	Cleaning and fumigation of fermentor room, mixing area, packing area and instruments (mixing machine, Packing machine, Weighing scale, etc.,) and maintaining the overall hygeine.	1 Man day	350.00
D	Prepration of Vermi compost :		-
14.46	Cleaning the raw materials, seperating the plastic and unwanted materials. Cleaned raw materials are filled into the tanks (10' X 4' X 21/2') (for 5 tanks)	1500 kg	350.00
14.47	Watering the raw materials in the tank twice per week.	5 tanks	87.50
14.48	Mixing the cowdung with the waater and applying them over the raw materials in the tank. Twice (12-15 days later)	5 tanks	350.00
14.49	Transfer of semi decomposed mixture into another tank after 15- 20 days	1000 kg	350.00
14.50	Introducing the earthworms to the semi decomposed mixture transfered to the tank. Seperation of earthworms and introduing them to the other tank after 20 days.	625 kg	175.00
14.51	Seiving the compost and separating the small earthworms, eggs and other undecomposed materilals.	500 kg	175.00
14.52	Weighed 5kg/10kg/ 20kg/50 kg bags are stitched and stored in cool place	5 kg (100 bag)	350.00
		10 kg (50 bag)	175.00
		20 kg (50 bag)	87.50
		50 kg (20 bag)	43.75
D	VAM preparation/production :		-
D(A)	Preparation of VAM culture :		-
14.53	Preparation of VAM culture pots (12" pots) by strelizing it and filling it with the mixture of sand, soil and manure in 1:1:1 ratio.	200 pots	350.00
14.54	Inoculating the VAM culture into the pots with sand mixture. Sowing of finger millet or jowar into the pots.	200 pots	153.13
14.55	Watering the pots during the preparation of VAM culture for complete crop cycle.	200 pots	656.25
14.56	Removing weeds in pots during preparation of VAM culture twice per week.	200 pots	218.75
14.57	Allowing to grow the ragi/jowar plants for 75 days (2 ½ months). Mixing the soil of the roots with VAM culture.	100 pots	87.50
D(B)	Preparation/production of VAM :		-

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
14.58	Preparation of seed bed by mixing soil, sand and farm yard manure for the production of VAM (8m X1.125mX0.3m measurement) Covering the Black Polythene sheet on the land. Preparation of beds by mixing soil, sand, vermiculite and farm yard manure. (25' X 4' X 1') Covering the Black Polythene sheet on the beds for one week.	3 m3	350.00
14.59	Inoculation of VAM culture after one week. Sowing of finger millet /jowar on beds.	3 m3	43.75
14.60	Watering the plants in the pots for complete cycle. Watering the sown beds for 8 weeks (for 56 days).	3 m3	350.00
14.61	Removing the weeds from the VAM beds (for complete crop cycle)	3 m3	87.50
14.62	8 to 10 weeks (56 to 70 days later) after the start of preparation, harvest the crop mix it with the seed bed and leave it for 7 days. Powder the VAM seed bed, dry it in shade, filling in the packets of 5/10/20 kg(5/10/20 kg) and seal it.	5 kg (200 bag)	350.00
		10 kg (175 bag)	350.00
		20 kg (150 bag)	350.00

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
E	Preparation/Production of Biomix :		-
14.63	Collect the seived vermicompost to the Biomix preparation room.The collected vermicompost is to be mixed with Arka microbial consortium.	1000 kg	175.00
14.64	To weigh and to fill the Biomix in 5kg/10kg polysac bags.Seal and store in cool place/room.	5 kg (100 bag)	350.00
		10 kg (50 bag)	218.75
III	Resedue analysis :		-
14.65	Clean the samples and wash in a water.Take the approximate sample,cut it into small pieces then crush in a Mixer Grinder by adding distilled water.After crushing transfer to the jar bottles and store in freeze condtion.	per one sample	43.75
14.66	Activation of chemicals by keeping in muffle furnace and store in a dessicator.Before analysis in a LCMS prepare the mobile phase(by adding required solvents and chemicals) and sonicate it and keep ready for analysis	once/15 sample	718.75
14.67	Before analysis in GCMS, stabilize the equipment by generating the vacuum, after stabilization equipment is ready for analysis,run the blank and make the correction of base line if any	per one sample	359.38
14.68	Prepare the primery standards from CRMs which is required for the analysis as per the SOPs. Transfer into volumetric flasks and then prepare working standards as per SOPs and store in deep freezer(-20)	once	1,150.00
14.69	Take the weighed sample from stored jar bottles to the centrifuge tubes as per SOPs, before weighing calibrate the equipment(balance). Add the required quantity of chemicals, solvents and water as per SOPs in centrifuge tubes and wiat for few minutes to blending.	per one sample	71.88
14.70	Wash the Homoginizer with distilled water.Take the blended sample and keep for homozinisation .After homosinisation for centrifugation take the supernatant to the another centrifuge tubes go for vortexer. At the end filter the supernatant to vails once all the procedures completed as per SOPs.	per one sample	431.25
14.71	For analysis of sample in LCMS ,follow the solvent reconstitute procedure in Nitrogen Concentrator as per SOPs.	per one sample	359.38
14.72	Insist the equipment for analysis by setting up of all the parameters as per SPOs(Sample sequence table, labelling, vails position, etc) Run the samples in equipments. At the end of analysis go for data processing, quantification, qualification and result interpretation	per one sample	503.13
14.73	After the analysis wash the columns with blank(solvents) and mentain the equipment clean and keep it in a good condition	per one sample	287.50
14.74	Wash/rinse the all the glassware', Trays, pipettes others materials in the laboratory which is used for analysis.	50.00	21.88
14.75	In a laboratory mentain the housekeeping procedures time to time.	per day	87.50

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
15	Mushroom Laboratorty works		-
I	Mushroom Spawn Production		-
A	Pure Culture preparation		-
15.1	Contaminated/used test tubes/petriplates are taken out of the laboratory and cleaned with brush, hotwater, distilled water. Cleaned test tubes/petriplates are wrapped in paper and placed in PP cover, sterilized and oven dried (no)	100nos	175.00
15.2	cotton plugs are prepared : by cutting the cotton which is sutable to test tube mouth(no)	100nos	43.75
15.3	Measurement of chemicals required for media preparation. Preparation of media solution. Prepared media is filled to conical flask/test tube and sterilized in autoclave (skilled work)(no).	100nos	143.74
15.4	Sterilized media is taken from autoclave and required amount of media is poured in to petriplates. Testubes are kept in slants.(no).	100nos	43.75
15.5	Inoculating the media with pure culture / sub culture (no) (skilled work)	100nos	287.48
B	Steps involved in commercial spawn preparation		-
15.6	Required bottles for spawn prepatation are washed with brush, hot water and then sterilized in autoclave. (no)	100nos	175.00
15.7	Cotton plug preparation which is required for commercial spawn and p v c ring preparation . (no)	100nos	131.25
15.8	Cleaning of white jowar seeds, boiling , mixing with chalk powder and filling in pp cover/ sterilized bottles, plugging with cotton, loading in autoclave for sterilization, after sterilization bottles/PP cover are kept in inoculation chamber under laminar air flow for innoculation. (1kg packet/bottle)	100nos	218.75
15.9	Inoculation of Mother spawn bottles under laminar air flow and incubation in BOD Incubator (no). (skilled work)	10nos	71.87
15.10	Inoculation of generation-1/ generation- 2 spawn botles and placing for incubation in BOD Incubator (no). (skilled work)	100nos	287.48
15.11	Inoculation of Commercial spawn packets and incubation in BOD Incubator (no).	100nos	175.00
C	Production of different varieties of mushroom.oyster and milky (1to3)		-
15.12	Dry paddy straw are cut into 2.5 to 3 inches, soaked in cold water and shade dried.(kg)	50nos	218.75
15.13	Optimally dried paddy straw are filled in PP cover, mouth of PP cover are tied using PVC ring and and stuffed with non absorbent cotton and kept in autoclave for sterilization.(no)	75nos	262.50
15.14	After sterilization bags are taken out of autoclave and allowed for cooling of bags, bags are inoculated with spawn and placed in spawn running room for incubation.(no)	75nos	262.50
15.15	Oyster mushroom : after spawn run the bags are shifted to cropping room for cropping (no)	75nos	131.25
15.16	milky mushroom : preparation of casing mixture. (kg)	50Kg	175.00
15.17	milky mushroom : after completion of spawn running, casing layer is applied on bags and bags are kept in cropping room	125nos	175.00
D	shitake mushroom		-

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
15.18	shiitake mushroom :- required amount of saw dust, wood chips, rice/wheat bran and chalk powder are weighed and mixed with water. Prepared substrate is sterilized in autoclave, sterilized substrate is inoculated under laminar air flow and placed in spawn run room for incubation. (kg)	50kg	131.25
15.19	cold water treatment is given after spawn running for crop initiation (once) (no)	50nos	175.00
	Details of work relating to sl.no C and D		-
15.20	maintenance of bags in cropping room .(spraying of water/relative humidity/temperature/ etc) (no)	200nos	175.00
15.21	harvesting of cultivated mushroom and packing. (kg)	50kg	131.25
E	white button mushroom :-		-
15.22	preparation of compost and pasteurizing the prepared compost. (kg)	300kg	962.50
15.23	preparation of 5 kg pasteurised compost bags and inoculating them with spawn and arranging the bags in incubation room for mycelium development (nos)	20nos	218.75
15.24	Application of casing material and shifting to the cropping room (no)	20nos	87.50
15.25	Maintenance of bags in cropping room .(spraying of water/relative humidity/temperature/ etc) (no)	100nos	175.00
15.26	Harvesting of cultivated mushroom and packing. (kg)	50Kg	218.75
15.27	Preparation of casing material and pasteurisation (kg)	20Kg	218.75
F	Miscallaneous activities		-
15.28	Maintenance of cleanliness in and around the laboratory. Periodic washing and cleaning of lab apparel, foot mat and other materials. Removal of weed growth around the lab and other related activities	1time	218.75
15.29	Regular maintenance of Grain cleaner, Grain Boiler, Mixing cum filler Machine, Autoclaves, Hot Air Oven and other equipment	1 hour	218.75
15.30	Spraying/fumigation in the lab with disinfectants (one)	1time	87.50
15.31	Drying and dehydration of freshly harvested mushrooms (kg)	1kg	43.75
15.32	Inspection and Examination of inoculated Test Tubes/Petri plates/bottles of various generations/commercial spawn for contamination (skilled work)	100 nos	71.87
15.33	Washing of contaminated Test Tubes/Petri plates/bottles, sterilising them and drying in hot air oven	200 nos	175.00
15.34	Transferring of contaminated Spawn packets/RTF bag and spent mushroom substrate to composting pits	1nos	43.75

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
16	Parasite Production Laboratory		-
A.16.1	Cleaning of glass tubes and drying them in a hot air oven.	700 tubes	248.07
16.2	Collection of well-grown corcyra larvae and transferring them to glass tubes and separating the female larvae and transferring these female larvae to tubes containing larvae of corcyra or Black headed caterpillar (BHC) larvae.	700 tubes	248.07
16.3	Separating parasitized larvae and spreading them on tissue sheets and removing of dead BHC or Corcyra larvae.	700 tubes	248.07
16.4	Transfer of parasitic pupae into glass tubes.	40 tubes	124.05
16.5	Separate the mature parasite larvae and transfer them to glass tubes and feeding them with honey which can be used for re multiplication of parasites or releasing in the affected gardens. (Approximately 7500 number of larvae can be obtained)	30 tubes	248.07
B)	Brachymeria production: -		-
16.6	Collect Corcyra moths and preserving them in egg collection box as needed.	1 bigbox	124.05
16.7	Cleaning of Corcyra multiplication box and collection of Corcyra eggs.	40box	124.05
16.8	Cleaning of Corcyra multiplication boxes and laboratory with insecticides to protect against Bracon and other diseases and pests.	40box	124.05
16.9	Addition of crushed jowar, streptomycin sulphate and yeast to the Corcyra box (Upto 15 days) and transfer corcyra larvae from small boxes to large boxes and provide crushed jowar (upto 20 to 30 days)	40box	124.05
16.10	Cleaning of glass tubes and Petriplates and sterlise them in a hot air oven.	600tubes chinmeys	124.05
16.11	Collection and transfer Black Headed Caterpillar or Corcyra larvae to other glass tubes to obtain pupae.	600tubes	124.05
16.12	Collection and transfer of BHC and Corcyra pupae from glass tube to petriplates and inoculating them with Brachymeria parasitoid. (approx. 1175 numbers of Brachymeria parasites can be obtained)	20 glass chimeys	124.05
C)	Anthocorid Bug Production:		-
16.13	Addition of crushed jowar, streptomycin sulphate and yeast to the Corcyra box (Upto 15 days) and transfer corcyra larvae from small boxes to large boxes and provide crushed jowar (upto 20 to 30 days)	40 box	124.05
16.14	Cleaning of Corcyra multiplication boxes and laboratory with insecticides to protect against Bracon and other diseases and pests.	40box	124.05
16.15	Collect Corcyra moths and preserving them in egg collection box as needed.	1 big box	124.05
16.16	Cleaning of Corcyra multiplication box and collection of Corcyra eggs.	40box	124.05
16.17	Placing of Corcyra eggs on cotton pad in a plastic box and addition of Anthocorid bugs to these boxes for multiplication.	30box	124.05
16.18	Separation of adult Anthocorid bugs from the multiplication boxes. (Approx. 1980 number of parasites can be obtained.	30box	124.05

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
17	Plant Protection		-
17.1	Survey: Inspection and treatment of total number of infested trees	4hectare	248.07
17.2	Root treatment with pesticide for the control of Black Headed Caterpillars and Mite infestation.		-
A	*Root feeding of pesticide solution by selecting red coloured finger sized root and giving a slant cut and then dipping it into polythene cover containing pesticide (excluding fungicide cost)	1palm	8.26
	Injection to the trunk	1palm	3.30
B	Control of stem bleeding disease in coconut palms can be done through root feeding and application of paste to the infested portion.	1palm	8.26
	* Treatment through root feeding of pesticide refer Sl. No. (2A).	1palm	8.26
	* Removal of affected bark with sharp knife and application of fungicide paste after washing with clean water. (excluding fungicide cost)	1palm	3.30
	* Injection to the trunk	1palm	3.30
C	Insecticide treatment for the control of Red Palm Weevil* Insect tagulina tree trunks with cement to cover all the perforations, damage to the parts cleaned with a hole at the top of insecticide solution is poured through a wide hole drilled through alikeya closes (silindranasaka, while the cement excludes the trap pharamon) closure of all holes in stem part of infested palm with cement, cleaning of infested stem part and feeding of insecticide solution through funnel in a hole after widening the hole by drilling on upper portion of the palm.	1palm	6.62
	* Use of Pheromone Trap	1palm	-
D	Control of Bud rot and disease and rhinoceros beetles i) For the control of rhinoceros beetles, climbing the palm and removal of beetles from growing bud and destroying them. Cleaning of 2-3 whorls of the growing bud and holes and filling them with sand and insecticide mixture (insecticide and sand cost excluded).	1palm	16.54
	* Use of Pheromone Trap	1palm	-
	ii)Removal and cleaning of affected portions of the Bud rot disease infested plants and application of fugicide to the infested portion (Fungicide cost excluded))	1palm	16.54
E	Spraying of Coconut and Arecanut trees with sprayers.	1palm	-
	Spraying of insecticide/ fungicide to upper parts of the palm and neighbouring Coconut trees with sprayers by climbing on the tree.	1palm	19.84
	Spraying of insecticide/ fungicide to upper parts of the palm and neighbouring Arecanut trees with sprayers by climbing on the tree.	1palm	8.26

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
18	Oil Palm maintainance and sprout production		-
I	Maintaince of Oil palm plots		-
18.1	Digging around oilpam trees , removal of weeds in the basin.		-
(a)	0.6 m radius	basin	9.63
(b)	1.2m radius	basin	28.93
(c)	1.0 m radius	basin	32.42
(d)	1.8 m radius	basin	48.33
(e)	2.4 m radius	basin	77.39
(f)	3.0 m radius (Basin depth - 15 centimeter.)	basin	96.74
18.2	leaving the basin area as such , cleaning the remaing area of the farm with dense weed plants and grass	1ha	39,678.58
18.3	leaving the basin area as such , cleaning the remaing area of the farm with medium weed plants and grass	1ha	29,768.75
18.4	Appllication of fertilizers along with mud to oil palm trees.	per tree/3 m3	19.34
18.5	removal and cleaning of fronds and unproductive flower bunches from oil palm trees(twice a year) for one time	1plant	58.92
18.6	removal and cleanig of weeds / other plants / debries grown on trunk of the oil palm tree.	1plant	107.84
18.7	harvesting of oil palm fruits and loading on to the tractor.		-
a	trees below 15years	1 tonne	1,600.00
b	trees above 15years	1 tonne	1,815.00
18.8	removal of dry fronds and excess fronds and cutting them into small pieces and covering around basin.	100 fronds	2.75
18.9	watering of oilpalm trees for 6 months (leaving rainy season)	100 plant	273.63
18.10	fire safety measure : removal and burning of grasses/ plants/ weeds for a width of 3 mts. and to create fire safety region	1 km	3,035.23
18.11	day and night watchman in the farm	1 man day	Tender/ Quotation
18.12(a)	cleaning anddeepening of water drain in the farm	0.60 m3	26.42
(b)	cleaning and deepening of water drain in the farm	0.36 m3	15.81
II	Details of oil palm sprouts Production cost through artificial pollination(For 2.00 lakhs sprouts)		-
18.13	Identification of oil pal trees (Dura/Phisifers), bending of fronds with flower bunch of 350 no. Flowers, cleaning around the flower bunch , spraying with formalin solution and closing the bunch with white cloth and taking up artificial pollinatio continously for 3 days.	1 sprouts	3.00
18.14	after 5-6 months cutting of matured/ ripened bunch with 350 no. fruits, transfer of fruit bunche to laboratory, removal of fruits from bunches, separation of pulp from the seeds by putting into depericarp machine,cleaning of seeds in sand and soap water, soaking in water and treatmnet with bavistin fungicide and transfer to heating chamber and after 50-60 days transfer to germination room to initiate sprouting.	1 sprouts	4.40

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
18.15	packing of good quatlity sprouts in cartoon boxes with thermocol and transporation.	1sprouts	2.00
18.16	purchase of cora cloth and stiching of bags.	1 no	0.80
18.17	purchase of polythene cover, thermocol, beads, sand shampoo/soap, formalin, fungicide.	LS	0.80

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
19	SURVEY AND ALLIED ACTIVITIES OF WATERSHED IN AERABLE LANDS		
	Alignment and Supervision of :		
19.1	A). Contour Bunds / Graded Bunds / Terracing/ Trench Cum Bund	1 Hectare	64.00
	B). Joining Pipes	1 Hectare	170.00
	C). Construction of Nala Bund	100cum	170.00
	D). Construction of Waterways and Diversion Channel	100m	12.00
	E) Brush wood dam	m	3.00
	F) Gabion	m	8.00
	g) Sand filled bag check	m	3.00
19.2	Marking Contour key line in the field	100m	8.00
19.3	Direct alignment of Bunds using dumpy level/ Total station with Bench Marks Fixation.	100m	85.00
	EARTH EXCAVATION (Inclusive of dressing up to 1 m. depth/Height)		-
19.4	Construction of Contour/Graded bunds as per specification by excavating soil from borrow pits:		-
	A) Ordinary soil- Black soils/Red sandy Soils.	1 m ³	83.00
	B) Kankar/Gravelly soils	1 m ³	91.00
19.5	Excavation for Waterways and also bund formation as per specification.	1 m ³	83.00
19.6	Excavation for Diversion Channel with bund formation as per specification on the downstream side (soil bank):		-
	A) Arable Lands	1 m ³	83.00
	B) Non – arable Land		-
	i) In Ordinary Soils	1 m ³	83.00
	ii) In Hard Soils	1 m ³	91.00
19.7	LAND LEVELLING (Up to 0.50 m depth)		-
	a) Excavation of soil and Land Levelling in Red / Black soils	1 m ³	83.00
	b) Excavation of soil and Land Levelling in Western ghat Taluks and Coastal areas (Zone 9 and 10) where slope is > 8% and forming Bench terraces	1 m ³	114.00
	c). Zing Terracing works	1 m ³	83.00
19.8	EXCAVATION OF FOUNDATION AS PER DESIGN SPECIFICATION (Up to 1 m depth)		-
19.9	a) Foundation excavation for COF/ waste weir.	1 m ³	83.00
	b) Foundation excavation for Sod strip/ Sodded earthen check/ Shrub check as per design.	1 m ³	87.00
	c) Foundation excavation of 0.30 x 0.30 m trench for nala training by vegetative measures.	1 m ³	87.00
	d) Gully Revetment:		-
	1. Foundation excavation to a depth of 0.30m.	1 m ³	87.00
	2. Nala bank shaping		-

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
	i) In Red soils : 1.30 : 1 Side Slopes	1 m ³	87.00
	ii) In Black soils 1.50 : 1 Side slopes	1 m ³	87.00
19.10	a) Foundation excavation as per design for Boulder Checks/ Rubble Checks & Middle Reach Treatments in Red and Black soils	1 m ³	87.00
	b) Foundation excavation as per design for Boulder Checks/ Rubble Checks & Middle Reach Treatments in Kankar/Gravelly soils	1 m ³	91.00
	c) Foundation excavation as per design for Boulder Checks/ Rubble Checks & Middle Reach Treatments in Lateritic soils	1 m ³	114.00
19.11	Foundation excavation for construction of RRS/CD /VD/digging foundation for bund seat of NB/PT with a lead and lift of 50 m and 2.00 m respectively.	1 m ³	-
	(a) Up to a depth of 2.0m in Red / Black soils	1 m ³	151.00
	(b) 2.0 to 3m depth in red/Black soils	1 m ³	195.00
	(c) Lateritic soil up to a depth of 2.0m.	1Cum	167.00
	(d) 2.0 to 3m depth in Lateritic soils	1Cum	216.00
19.12	Lift charges for all class of soils above nala bed: (For works like MPT, NB, PT etc.)		-
	a) 0.00 m to 1.50 m lift	1 m ³	-
	b) 2.00 m to 3.00 m lift	1 m ³	4.00
	c) 3.00 m to 4.50 m lift	1 m ³	7.00
	d) 4.50 m to 6.00 m lift	1 m ³	11.00
	19.13	When water is struck while digging foundation (Western ghat and Coastal area only) add 10% to 4.3.a to 4.3d	
19.14	Digging foundation for core-wall construction :		-
	a) Gorge	1 m ³	124.00
	b) Core Trench	1 m ³	171.00
	c) Excavation of earth for Core- wall (Inner impervious layer) from selected site.		114.00
	d).Construction of nala bund/PT in 0.15 m layers as per design from the soil excavated in borrow pit (clay) with watering, compacting using pannars /rollers/ vibrators and bring to the required design and shape.		99.00
19.15	Excavation from borrow pits and Construction of Main bund of Nalabund / PT including watering and compacting of soil using pannars/rollers/vibrators etc:		-
	a)up to 2.00 m. height from nala bed	1 m ³	113.00
	b) More than 2.00 m height from nala bed : Add rates quoted in the 4.4	1 m ³	-
19.16	a) Excavation at outlet point and formation of main bund in 0.15 m layers as per design including watering and compacting with pannars / rollers / vibrators etc.	1 m ³	147.00
20	DESILTING OF TANKS MADAGA AND TRANSPORTATION OF SILT TO DESIGNATED PLACE WITH INITIAL LEAD AND LIFT OF 50m and 2.00m respectively:		-
	a) Dry silt	1 m ³	87.00
	b) Wet silt	1 m ³	95.00

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
	NOTE: Loading, transportation of desilted soil and formation of marginal bund/ spreading on lands will have to be carried out by Farmers.		-
21	FARM POND		-
21.1	Construction of Farm Pond/ Sunken Pond/Dugout pond/ Gokatte/Malnad katte /Shallow wells/Recharge ponds in arable/non-arable lands : Excavation in all types of soils and formation of bund around the structure with a berm of minimum 1.0 m from upstream toe of pond as per design ; dressing etc.& completion		-
	SOUTHERN DISTRICTS:		-
	Depth (m)/Mode of excavation		-
A(1)	0.00-0.60	1 m ³	114.00
	(a) MANUAL	1 m ³	-
	(b) MECHANICAL MEANS	1 m ³	48.00
B(1)	0.60-1.20	1 m ³	114.00
	(a) MANUAL	1 m ³	-
	(b) MECHANICAL MEANS	1 m ³	48.00
C(1)	1.20-1.80	1 m ³	114.00
	(a) Manual	1 m ³	-
	(b) MECHANICAL MEANS	1 m ³	48.00
D(1)	1.80-2.00	1 m ³	114.00
	(a) Manual	1 m ³	-
	(b) MECHANICAL MEANS	1 m ³	48.00
E(1)	2.00-2.40	1 m ³	118.00
	(a) Manual	1 m ³	-
	(b) MECHANICAL MEANS	1 m ³	60.00
F(1)	2.40-3.00	1 m ³	118.00
	(a) Manual	1 m ³	-
	(b) MECHANICAL MEANS	1 m ³	60.00
G(1)	3.00-3.60	1 m ³	121.00
	(a) Manual	1 m ³	-
	(b) MECHANICAL MEANS	1 m ³	60.00
H(1)	3.60-4.50 Manual	1 m ³	121.00
I(1)	4.50-6.00 Manual	1 m ³	145.00
J(1)	6.00-7.50 Manual	1 m ³	172.00
K(1)	7.50-9.00 Manual	1 m ³	201.00
	NORTHERN DISTRICTS:		
	Depth (m)/Mode of execution		
A(2)	0.00-0.60	1 m ³	121.00
	(a) MANUAL	1 m ³	
	(b) MECHANICAL MEANS	1 m ³	48.00
B(2)	0.60-1.20	1 m ³	123.00
	(a) MANUAL	1 m ³	
	(b) MECHANICAL MEANS	1 m ³	48.00

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
C(2)	1.20-1.80	1 m ³	134.00
	(a) Manual	1 m ³	
	(b) MECHANICAL MEANS	1 m ³	
D(2)	1.80-2.00	1 m ³	134.00
	(a) Manual	1 m ³	
	(b) MECHANICAL MEANS	1 m ³	
E(2)	2.00-2.40	1 m ³	134.00
	(a) Manual	1 m ³	
	(b) MECHANICAL MEANS	1 m ³	
F(2)	2.40-3.00	1 m ³	143.00
	(a) Manual	1 m ³	
	(b) MECHANICAL MEANS	1 m ³	
G(2)	3.00-3.60	1 m ³	143.00
	(a) Manual	1 m ³	
	(b) MECHANICAL MEANS	1 m ³	
H(2)	3.60-4.50 Manual	1 m ³	167.00
I(2)	4.50-6.00 Manual	1 m ³	189.00
J(2)	6.00-7.50 Manual	1 m ³	189.00
K(2)	7.50-9.00 Manual	1 m ³	210.00
1) If water is struck while excavating, add 10% to the basic rate at 6.1.			
2) Southern Districts: i) Bengaluru (Urban) ii) Bengaluru (R) iii) Tumkur iv) Hassan v) Mysorevi) Mandya vii) Chamarajnagar viii) Chikkamagalur ix) Udupi x) Kolar xi) Shimogaxii) Dakshina Kannada xiii) Chitradurga xiv) Kodagu xv) Ramanagara xvi) Chickaballapur			
3) Northern Districts: i) Davanagere ii) Dharwar iii) Haveri iv) Gadag v) Koppal vi) Raichur vii) Kalburgi viii) Bidar ix) Bagalkote x) Vijayapur xi) Belagavi xii) Bellary xiii) Yadgir xiv) Uttara kannada			
21.2	Excavation of Earth for silt trap construction in farm ponds and otherworks and raising of bund around structure.	1 m ³	83.00
21.3	Revetment to silt trap of Farm pond	1 m ³	-
	a. boulders	1 m ³	675.00
	b. construction charges	1 m ³	180.00
21.4	Construction of inlet cum outlet with boulder as per design	1 m ³	855.00
21.5	Murrum backing to a thickness of 5 cm. below the stone pitching	1 m ³	80.80
21.6	Filling up of gaps noticed during execution of Check Dam, RRS, Vented dam, Multi ARCH buttress Check Dam with Clay, watering and compacting.	1 m ³	1,036.00

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
22	VEGETATIVE WORKS LIKE VEGETATIVE BUND, SOD STRIP, SODDED EARTHEN CHECK, SHRUB CHECK, VEGETATIVE FILTER STRIP, GRASSED OUTLET, NALA TRAINING, TURFING – WATERWAYS, NALABUND, CONSTRUCTION OF DROPS & FLUMES:		
22.1	Planting of Agave for construction of Shrub Checks, Sodded Earthen Check, Boulder Checks, Rubble Checks, and other Gully and Nala management works:	100nos	1,385.30
22.2	1 Collection of suckers		
	2 a) Digging trenches 0.30 m x 0.30 m for planting of agave.	1 m ³	83.50
22.3	Planting of suckers	100nos	260.00
	Digging the earth by pickaxe to the required depth, planting of Agave seedlings in the place and pressing the soil around the seedling.		
22.4	The cost of Grass slips for turfing (Napier, Anjan, etc.)	1000nos	260.00
22.5	Planting of 2 rows of grass slips at 10 cm apart, or planting of 1 row at 5 cm apart.	100no	95.30
22.6	Turfing of grassed outlet, water way, terrace batter, outlet portion of nala bund, sodded earthen check, and such other works with watering for 15 days, inclusive of 0.5 Km lead.	1Sqmt	20.70
22.7	Turfing of Nala bund/other water harvesting structure's banks and side slopes over a layer of 5 cm thickness of sand layer, watering for 15 days, 0.5Km lead for turf and 5.0 Km lead for sand.	1Sqmt	49.70
22.8	a) Sowing of Haemata/Scabra and the like grass seeds on the bunds / sides of the bunds	100m	16.00
	b) Sowing of Haemata/Scabra and the like grass seeds in the strips.	100m	2.00
	The grass seeds to be purchased and used as per the guidelines issued by the WDD		
22.9	Watering of Suckers	1000 nos	
23	STONE WORKS Use of locally available Boulders/Rubbles for construction of : Boulder / COF waste weir/Channel Weir/ Pipe outlet/Well waste weir/ Boulder check/ Rubble check/ Boulder Flume, Drops, Stone pitching for Nalabund, Nala revetment; Inlet – cum- outlet/Pipe outlet/Silt trap of Farm pond. Gabion etc.		
	NOTE: 1) For construction of Boulder Bunds only locally available Boulders have to be used. Transportation of Boulders is prohibited.		
	2). For construction of Boulder / Rubble checks transportation of stones beyond 15 Km is prohibited.		
23.1	Stone		675.00
23.2	Construction		180.00
23.3	Supply and spreading of murrum for COF Waste weir, Channel weir, boulder waste weir, nala revetment, farm pond: silt trap, inlet and outlet, and other works	1 m ³	80.80
23.4	Stone pitching of Nalabund, Checkdam, RRS and Other structures:.		

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
	If the stones are not locally available, to be transported from approved quarry Rough stone pitching to a thickness of 0.45 m in Granite/ Trap/ Basalt stones, over a 0.15 m thick layer of 40 mm jelly as per design. The size of the stones shall be not less than 0.30 m or 0.04 Sqm cross sectional area. Construction with pin headers and gap filling with chips.		
	a) Collection	1 m ³	675.00
	b) Construction	1 m ³	208.40
24	SHALLOW WELL :		
	Construction of steining to the shallow well using granite/trap/basalt stones		
	Cost of stones:		
24.1	a) 30x30x45 cm size stones (double size bond stones)	100nos	2,400.00
	b) 15x15x20-45 cm single size stones	100nos	931.50
	c) Rough Lateritic stone for Foundation 17 x 22 x 32 cm	each	28.00
	d) Dressed Lateritic stone for Super structure- 17 x 22x32cm.	each	29.00
24.2	Construction cost	1 m ³	208.40
24.3	Construction of header line using double size bond stones		-
	a) Cost of stones of 23x23x45 cm size	100nos	2,400.00
	b) Construction	1 m ³	208.40
25	LAND RECLAMATION		-
25.1	Excavation of soil for the purpose of land reclamation both for main drain (Lx0.45x1.05 m) and lateral drains (Lx0.45x0.90 m),compacting the base etc.	1 m ³	86.90
25.2	Main Drain:		
	a) Aligning nicely burnt and cured terra- cotta pipe of 15 cm inner diameter (Catchment area is 4.8 ha) whose thickness is not less than1.25 cm on a sand bed of 5 cm thickness, in the Main drain, according to slope, the slits facing up, pipes covered with 5 cm layer of sand over the coconut fibre, the last pipe to be packed with concrete, the channel to be closed by pre-excavated soil.	1m	163.80
	b) Aligning nicely burnt and cured terra- cotta pipe of 22.50 cm inner diameter and thickness is not less than 1.25 cm on a sand bed of 5 cm thickness, in the main drain, according to slope for the catchment area of 5ha to 12 ha., pipe joints to be packed with cement mortar. The last pipe end to be packed with concrete and channel to be closed.	1m	185.60
	c) Aligning nicely burnt and cured terra- cotta pipe of 30 cm inner diameter and thickness is not less than1.25 cm on a sand bed of 5 cm thickness, in the main drain, according to slope for catchment area between 12ha to 25 ha., the pipe joints to be packed with cement mortar. The last pipe end to be packed with concrete, the channel to be closed by pre- excavated soil.	1m	196.50
25.3	(a) Aligning nicely burnt and cured terra-cotta pipe of 10 cm inner diameter whose thickness is not less than1.25 cm on a sand bed of 5 cm thickness, in the lateral drain, according to slope, the slits facing up, pipes covered with 5 cm layer of sand over the coconut fibre, the last pipe to be packed with concrete, the channel to be closed by pre-excavated soil.	1m	174.70

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
	(b) CONSTRUCTION OF SUB- SURFACE DRAIN WITH PERFORATED PIPE OF 10Cm INTERNAL DIAMETER OF METAL / ASBESTOS / CEMENT CONCRETE / PVC, CLOSELY JOINTED, PERFORATIONS RANGING FROM 3mm to 6mm depending upon size of crushed stone material surrounding the pipe, with 15Cm. bedding below the pipe and 03Cm. cushion above the pipe, cross-section of excavation 45 x 55 Cm. Excavated material to be utilised in roadway at site complete as per specifications.	m	515.00
	(c) CONSTRUCTION OF SUB- SURFACE DRAIN 30 x45 cm. with crushed stone aggregates, excavated material to be utilised in roadway at site complete as per specifications.	m	185.00
	(d) CONSTRUCTION OF COVERED DRAIN 1m. X 1m.(inside dimension) with 10cm. thick RCC 1:2:4 for walls and floor, laid over 10cm thick pcc,1:3:6 bed and covered with 15 cm. RCC SLAB M30 excluding earth work including @35kg/rmt and form work complete as per specifications.	m	5,567.00
25.4	Laying a 2 m, 15 cm diameter, 1:2:4 PCC Concrete pipe, sloping in one direction including cost of pipe, for outlet purpose.	1m	683.40
25.5	To join 10 cm lateral drain to main drain of 15 cm or 22cms or 30cms terracotta ' T ' joint free from cracks including cost of pipe.	1pipe	45.50
25.6	Construction of Masonry Guard wall in 1:6 cement sand mortar of the size (0.60x1.05x0.30), to place the outer face of the terracotta pipe with pointing of exposed surfaces in 1:3 CSM, curing with water and complete the work.	total	1,171.30
25.7	Construction drop chamber of size 0.90x0.90x1.0 for lateral and main drain with 0.30 m size stones with plastering inside in 1:3 cement sand mortar complete with curing and covering the chamber with the slab.	1Chamber	3,305.10
	Special Note 1). Rates provided for terra-cotta pipes, and other materials are inclusive of transportation and other costs. 2). To confirm regarding quality of terra-cotta pipes, two pipes are selected randomly and soaked for 24 hours in water: a) The pipes should not dissolve. b) The pipes should withstand the weight of a person. c) The pipes should produce a metallic sound when hit with fingers. All these tests are to be made before making the payment and the Assistant Director Agriculture should certify to that extent.		
26	MACHINERY WORKS		
26.1	Rates for Soil and Water Conservation works when JCB/POKELINER or any other machines which are used for excavation of foundation of Stone masonry structures.		
(a)	Red/Red Sandy/Black Soils, Depth 0.00 to 2.0 m	1 m ³	48.00
(b)	Red/Red Sandy/Black Soils, Depth 2.00 to 3 m	1 m ³	57.00
(c)	Hard Soil/Gravel mixed red soils/Laterite Soils,0.00 to 2.0 m	1 m ³	55.00
(d)	Hard Soil/Gravel mixed red soils/Laterite Soils, 2 to 3 m	1 m ³	62.00

Item No.	Particulars of the work	Unit	2021-22 rate sactioned (in Rs.)
26.2	Construction of Contour/Field Bunds/Trench cum bund/Diversion Channel/ Water Way		-
(a)	Red/Red Sandy/Black Soils, Depth 0.00 to 2.0 m	1 m ³	48.00
(b)	Hard Soil/Gravel mixed red soils/Laterite Soils, 0.00 to 2.0 m	1 m ³	55.00
26.3	(I) Formation & Dressing of Bunds / Bunds around Farm Pond/Gokatte/ Recharge Pond/Sunken pond/Dugout pond ; Spoil bank of Diversion channel/ Bunds on either side of Waterway/Bunds around Trenches constructed by Machines to enable seeding/Planting of Horticulture or Forestry or Medicinal plant seedings	1 m ³	3.40
	(II). Smoothing of the Trench bottom surface on excavation using Machinery	1Sqmt	6.84
26.4	Desilting of Tanks and such other structures in all types soils:		-
	1.Dry Condition	1 m ³	44.40
	2.Slushy Condition	1 m ³	55.20
26.5	Bund sowing of Horticulture seeds		
	(a)Collection of vegatable seeds	RQ/Tender	RQ/Tender
	(b)Sowing of seeds by scooping and filling soil(2 sides of each bund)	Unit(250 Rmt/Ha) (<2 feet distance sowing)	
		Unit(250 Rmt/Ha)>2 feet distance sowing)	
	(c)Demand survey documentation charges		