

कार्यालय प्रधान मुख्य वन संरक्षक, (होफ) राजस्थान, जयपुर ।

क्रमांक:-एफ 3 (13)प्रमुखसं/ट्री/मॉडल/तक./2017-18/1170-85 दिनांक:-11-12-18

निमित्त,

- 1-परियोजना निदेशक, आर.एफ.बी.पी.-2 जयपुर।
- 2-समस्त संभागीय मुख्य वन संरक्षक, अजमेर/जयपुर/जोधपुर/कोटा/
बीकानेर/उदयपुर/भरतपुर/(वन्यजीव)जयपुर/कोटा/उदयपुर/सवाईमाधोपुर
सरिस्का/जोधपुर/विभागीय कार्य जयपुर।

विषय:-नवीन मॉडल कॉष्ट नोर्म्स न्यूनतम श्रमिक दर रु.213/एवं सामग्री दर 2018

महोदय,

उपरोक्त विषयान्तर्गत निवेदन है कि श्रमिक दर 213/रुपये प्रति दिन के आधार पर प्राप्त हुए वृक्षारोपण मॉडल राज्य स्तरीय मॉडल कमेटी की अनुशंसा पर प्रधान मुख्य वन संरक्षक, (होफ) राजस्थान, जयपुर के अनुमोदन उपरान्त संलग्न कर आवश्यक कार्यवाही हेतु प्रेषित किये जा रहे हैं ।

- 1- Assisted Natural Regeneration
- 2- Canal Side Plantation (Distributory)
- 3- Canal Side Plantation (Main)
- 4- Block Plantation IGNP
- 5- Block Plantation Non-IGNP areas
- 6- Sand Dune Stabilization
- 7- Silvi-Pastoral Plantation in IGNP areas
- 8- Silvi-Pastoral Plantation in Non- IGNP areas
- 9- Reforestation of Degraded Forests-I (RDF-I)
- 10-Reforestation of Degraded Forests-II (RDF-II)
- 11-Fuel wood Plantation
- 12-Productivity Enhancement Operations
- 13-Closure for Biodiversity Conservation
- 14-Enrichment of Old Plantations
- 15Coppice Maintenance with Gap Planting (Without Fencing)
- 16-Raising of plants in the Nursey Model-1
- 17-Raising of Plants in the Nursery Model -2
- 18-Raising of Plants in the Nursery Model-3
- 19-Raising of Plants in the Nursery Model-4
- 20-Raising of Plants in the Nursery Model-5

(2)

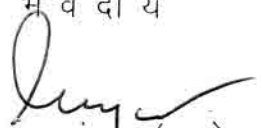
- 21-Raising of Plants in the Nursery Model-6
- 22-Raising of Plants in the Nursery Model-7
- 23-Raising of Plants in the Nursery Model-8

उक्त सभी मॉडल विभागीय वेबसाइट के निम्न लिंक पर उपलब्ध है ।

<http://www.forest.rajasthan.gov.in/content/raj/forest/en/forest,-department/departmental-wings/forest-development/model-for-developmental-aactivities.html>

संलग्न-मॉडल की प्रति ।

भव दी य


मुख्य वन संरक्षक(आयोजना)
राजस्थान, जयपुर ।

Model Cost Norms ANR (Assisted Natural Regeneration)

UNIT : 50 Ha

PERIMETER: 60 M/Ha.

LABOUR RATE: Rs.213. /Day

COST ESTIMATE: in Rs./Ha.

0 YEAR (ADVANCE ACTION)

S.No.	ITEMS	Unit	Qty.	Rate	LABOUR	MATERIAL	TOTAL
1	Collection of Data for Microplanning, preparation of microplan and management plan	Prorata			497.00	50.61	547.61
2	Survey of area, Layout of contour trenches/ furrows, Pits and marking of segments /plots	Prorata			389.71	50.61	440.32
3	Fencing by stone wall and or by ditch.					0.00	
	a). Stone wall fencing 1.20m high 0.80m at base & 0.60m at top(on an average 30 m/ha.)	meter	30	213.00	6390.00	0.00	6390.00
	b). Ditch fencing 1.20m deep,1.50m wide at top & 0.90m at bottom (on an average 30m/ha.)	meter	30	230.84	6925.07	0.00	6925.07
4	Cost of raising 220 seedlings	Plant no.	220	7.90	1135.89	602.20	1738.09
5	Digging up Trenches :					0.00	
a.	Digging up 100 rmt Staggered Contour Trenches with cross section size: $0.6 \times ((1.05+0.45)/2)$ Sqmt. in area with 6-20% slop .	Meter	100	55.85	5918.43	0.00	5918.43
b.	Digging up 80 rmt Continuous Contour Trenches with cross section size: $0.6 \times ((1.70+0.5)/2)$ Sqmt. in area with 3-6% slop	Meter	80	81.91	6944.01	0.00	6944.01
c.	Digging up 20 rmt Deep Continuous Contour Trenches with cross section size: $1.0 \times ((1.50+0.5)/2)$ Sqmt. in area with 0-3% slop	Meter	20	124.10	2630.18	0.00	2630.18
6	Digging of 200 pits size: $0.45 \times (0.4+0.5/2)$	no.	200	16.67	3333.57	0.00	3333.57
7	Cost of collection and purchase of grass and other seeds of indegenous trees and shrubs	per ha	1	428.00	0.00	428.00	428.00
8	In situ Soil & Moisture Conservation measures like Check dam, Percolation Tanks, Earthen Bunds etc.	per ha	1	4083.32	4083.32	0.00	4083.32
9	Construction of Thatched cattle guard hut.	Prorata			213.00	36.49	249.49
10	Purchase of tools and plants	Prorata			0.00	90.63	90.63
11	Labour amenities	Prorata			78.90	70.62	149.52
12	Cattle guard wages for 4 months	Prorata			443.36	0.00	443.36
13	Restoration of Natural regeneration by cutback cultural operation, pruning and by making crescent shaped ridges on lower side of seedling and saplings	Prorata			1065.00	0.00	1065.00
14	Misc. and unforeseen expenses including running of vehicles	Prorata			200.16	47.08	247.24
	TOTAL YEAR 0				40247.61	1376.24	41623.85

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DCF (Plan)

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राजस्थान, जयपुर

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YEAR I (PLANTATION YEAR)

1	Maintenance of 220 seedling in nursery	Plant no.	220	1.87	309.98	100.90	410.88
2	Digging of 30cmx30cm cross section trench along inner side of stone wall fencing and seed sowing	meter	30	17.82	534.69	0.00	534.69
3	Sowing/dibbling of seeds of grass, trees and shrubs including seeds of medicinal plants on the mounds of trench/ditch fencing.	meter	230	0.52	127.16	0.00	127.16
4	Sowing of grass seeds including raking in the interspaces.	Prorata			482.80	0.00	482.80
5	Transportation of 200 plants from nursery to planting site	Plant no.	200	1.24	202.73	44.73	247.46
6	Planting of 200 seedlings including Refilling of pits	Plant no.	200	3.84	749.35	18.83	768.19
7	Purchase and application of insecticide and fertiliser in 200 plants	Plant no.	200	4.21	654.39	188.32	842.71
8	Making of 200 crescent shaped mounds below planted sapling after planting and dibbling of 3 seeds of thorny tree species.	Plant no.	200	3.39	677.50	0.00	677.50
9	Weeding and Hoeing of 200 plants two times including repairing of plants mound	Plant no.	400	3.39	1354.98	0.00	1354.98
10	Weeding on contour trenches/ V-ditches and spacement / singling	Prorata	1	387.62	387.62	0.00	387.62
11	Restoration of Natural regeneration by cutback cultural operation, pruning and by making crescent shaped ridges on lower side of seedling and saplings	Prorata	1	1065.00	1065.00	0.00	1065.00
12	Raising of 10% Plants (20 plants) in Nursery for casualty replacement in year 2	Plant no.	20	7.90	103.26	54.75	158.01
13	Watch & ward charges for 12 months	Prorata			1328.50	0.00	1328.50
14	Construction of approach roads / inspection path	Prorata			362.90	0.00	362.90
15	Construction of gate and fixing of sign boards	Prorata			482.80	69.44	552.24
16	Misc. and unforeseen expences including (additional watering, fencing and frost protection measures and running of vehicles etc.)	Prorata			206.79	216.57	423.36
TOTAL YEAR 1			1702	1496.80	9030.47	693.53	9724.00

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(प्रिय रंजन)

YEAR 2 MAINTENANCE

1	Maintenance of 20 plants in nursery	Plant no.	20	1.87	28.18	9.17	37.35
2	Repair of fencing	Prorata			213.00	0.00	213.00
3	Casualty replacement of 20 plants (10%) including re-digging of pits, transportation, planting, watering and application of insecticides	Plant no.	20	11.12	213.00	9.42	222.42
4	Weeding and Hoeing in 200 plants two times	Plant no.	400	3.39	1354.98	0.00	1354.98
5	Watch & ward charges for 12 months	Prorata			1328.50	0.00	1328.50
6	Misc. and unforeseen expences including (additional watering, fencing and frost protection measures and running of vehicles etc.)	Prorata			182.85	117.70	300.55
TOTAL YEAR 2					3320.52	136.29	3456.81

YEAR 3 : MAINTENANCE

1	Watch & ward charges for 12 months	Prorata			1328.50	0.00	1328.50
2	Expenditure on Maintenance including (Repair of fencing/Structures, Subsidiary silvicultural operations, Frost Protection, etc.)	Prorata			388.34	128.29	516.63
TOTAL YEAR 3.					1716.84	128.29	1845.13

YEAR 4 : MAINTENANCE

					0.00		
1	Watch & ward charges for 12 months	Prorata			1328.50		1328.50
2	Expenditure on Maintenance including (Repair of fencing / Structures, Subsidiary silvicultural operations, Frost Protection, etc.)	Prorata			388.34	128.29	516.63
TOTAL YEAR 4.					1716.84	128.29	1845.13
GRAND TOTAL					56032.27	2462.64	58494.91

Yearwise Cost Statement ANR (Assisted Natural Regeneration)

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION				40248	1376	41624
2	YEAR 1 - PLANTING YEAR				9030	694	9724
3	YEAR 2 - MAINTENANCE I				3321	136	3457
4	YEAR 3 - MAINTENANCE II				1717	128	1845
5	YEAR - 4 MAINTENANCE III				1717	128	1845
Grand Total					56032	2463	58495

नोट :- मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है। कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/ परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें। डीप सीसीटी, सीसीटी एवं स्टेगर्ड कन्टूर ट्रेन्च बनाते समय क्षेत्र में विद्यमान पेड़ों को क्षति नहीं पहुंचाई जाये।

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(प्रिय रंजन)

Model Cost Norms - Canal side Plantation (Distributory)

Labour rate Rs. 213/- per day

Unit 100 RKM (33 ha.)

Perimeter - Average 6200 RM

250 plants per RKM

Spacing 3MX4M

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
YEAR 0 ADVANCE ACTION							
1	Collection of data for microplan, preparation of microplan and management plan	RKM	1	183.86	165.67	18.19	183.86
2	Survey of area, alignment of pits for fencing posts, marking of segments/ plots, preparation of plantation card and journal.	Prorata			131.86	18.19	150.05
3	Fencing on both sides of canal with Cement / Angle iron posts (1.5 mt high, 6 m apart having 4 strand barbed wire)- 62 meters	Meter	62	151.61	4204.78	5194.85	9399.63
4	Raising of 300 plants (250 for planting and 20% extra).	Plant	300	6.31	1147.65	745.49	1893.14
5	Purchase of irrigation equipments-					0.00	
a	Purchase of 5 HP engine	Prorata			0.00	312.44	312.44
b	Purchase of HDPE/ LGS pipe - (3 inch diameter) 2 m per RKM	Prorata			0.00	294.25	294.25
c	Purchase of PVC pipes of 3 inch dia & 1 inch dia	Prorata			0.00	184.04	184.04
6	Purchase of Tools & plants	Prorata			30.43	96.30	126.73
7	Purchase of Insecticides, Fertilizers - DAP/ NPK/Urea/ vermi compost	Prorata			0.00	225.77	225.77
8	Sign Board including Painting and Fixing	Prorata			11.27	63.13	74.40
9	Watch and Ward for 4 months	Prorata			222.02	0.00	222.02
10	R&M of Motor Vehicles	Prorata			0.00	110.21	110.21
11	Labour Amenities	Prorata			58.60	141.24	199.84
12	Site Clearance including removal of unwanted bushes	RKM	1	306.19	278.37	27.82	306.19
13	Cattle guard hut	RKM	1	368.18	255.83	112.35	368.18
14	Mulching (to be done on active dunes in 5 Ha area)	Prorata			299.78	0.00	299.78
15	Misc. and unforeseen expenditure.	Prorata			61.98	59.92	121.90
Total					6868	7604	14472
YEAR 1 - PLANTING YEAR							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 300 Plants in Nursery.	Plant	300	2.16	488.04	159.43	647.47
2	Digging of 400 RMT trench (0.4mX0.15m) in command area-for irrigation	Meter	400	2.13	852.00	0.00	852.00
3	Transport of 275 plants upto site including loading and unloading (upto 5 kms)	Plant	275	1.61	413.60	28.89	442.49
4	Planting					0.00	
a	Lay out & digging of 45cmx 45cmx 45cm pits and planting of 125 seedlings including local transport and initial watering in command area.	Plant	125	12.89	1611.59	0.00	1611.59
b	Lay out & digging of 45cmx 45cmx45 cm pits and planting of 125 seedlings including local transport and initial watering with engine in uncommand area.	Plant	125	14.49	1648.78	162.64	1811.42

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5	Irrigation					0.00	
a	5 times through watercourse(Khala) or syphon in command area (125 Plants).	Plant	625	1.76	1098.81	0.00	1098.81
b	5 times through engine in uncommand area (125 Plant).	Plant	625	3.33	1275.75	802.50	2078.25
6	Treatment and sowing of seeds on trenches (400 m).	Meter	400	0.44	175.81	0.00	175.81
7	Weeding and hoeing of 250 Plants	Plant	250	2.93	732.54	0.00	732.54
8	Hoeing of 50% Plants 5 times (125 Plants)	Plant	625	1.76	1098.81	0.00	1098.81
9	Application of fertilisers and pesticides (250 plants)	Plant	250	0.53	75.51	56.71	132.22
10	Raising of 50 plants for replacement	Plant	50	6.31	191.28	124.25	315.52
11	Running & Maintenance of Vehicles	Prorata			0.00	72.76	72.76
12	Maintenance of equipments/watercourses	Prorata			0.00	72.76	72.76
13	Labour amenities	Prorata			86.78	18.19	104.97
14	Watch & ward for 12 months	Prorata			664.92	0.00	664.92
15	Misc and unforeseen expenditure	Prorata			28.17	22.47	50.64
Total					10442	1521	11963

YEAR 2 MAINTENANCE I

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 50 Plants for casualty replacement	Plant	50	2.16	81.34	26.57	107.91
2	Transport of 50 plants from nursery to site for casualty replacement including loading and unloading	Plant	50	1.60	75.51	4.28	79.79
3	Re-digging of Pits & Planting for casualty replacement including treatment, local transport and initial watering					0.00	
a	In command area (25 Plants)	Plant	25	9.11	227.65	0.00	227.65
b	In uncommand area (25 Plants)	Plant	25	10.70	234.41	33.17	267.58
4	Irrigation					0.00	
a	6 times through watercourse (Khala) or syphon in command area (125 Plants).	Plant	750	1.76	1318.57	0.00	1318.57
b	6 times through engine in uncommand area (125 Plants).	Plant	750	3.33	1538.33	955.51	2493.84
5	Weeding and hoeing of 250 plants	Plant	250	2.93	732.54	0.00	732.54
6	Hoeing of 50% Plants 6 times (125 Plants)	Plant	750	1.76	1318.57	0.00	1318.57
7	Application of fertilisers and pesticides (250 plants)	Plant	250	0.53	75.51	56.71	132.22
8	Prunning of Plants as per requirement	Prorata			174.68	0.00	174.68
9	Purchase of PVC Pipes	Prorata			0.00	294.25	294.25
10	Watch & ward for 12 months	Prorata			664.92	0.00	664.92
11	Running & Maintenance of Vehicles/equipments	Prorata			0.00	164.78	164.78
12	Labour amenities	Prorata			65.37	38.52	103.89
13	Misc works like shifting of pipelines, engines etc. and unforeseen expenditure/watercourses repair	Prorata			65.37	38.52	103.89
Total					6573	1612	8185

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Priya Ranjan

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(प्रिय रंजन)

YEAR - 3 MAINTENANCE II

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Irrigation						
a	6 times through watercourse(Khala) or syphon in command area (125 Plants).	Plant	750	1.76	1318.57	0.00	1318.57
b	6 times through engine in uncommand area (125 Plants).	Plant	750	3.33	1538.33	955.51	2493.84
2	Hoeing of 50% Plants 6 times (125 plants)	Plant	750	1.76	1318.57	0.00	1318.57
3	Prunning of Plants as per requirement (125Plants)	Prorata			315.56	0.00	315.56
4	Purchase of PVC Pipe	Prorata			0.00	274.99	274.99
5	Watch & ward for 12 months	Prorata			664.92	0.00	664.92
6	Running & Maintenance of Vehicles	Prorata			0.00	72.76	72.76
7	Maintenance of equipments	Prorata			0.00	92.02	92.02
8	Labour amenities	Prorata			0.00	54.57	54.57
9	Misc works like shifting of pipelines, engines etc. and unforeseen expenditure/watercourses repair	Prorata			66.49	14.98	81.47
Total					5222	1465	6687

YEAR - 4 MAINTENANCE III

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Irrigation						
a	4 times through watercourse (Khala) or syphon in command area (125 plants).	Plant	500	1.76	879.05	0.00	879.05
b	4 times through engine in uncommand area (125).	Plant	500	3.32	1025.56	636.65	1662.21
2	Hoeing of 50% Plants 4 times (125 Plants)	Plant	500	1.76	879.05	0.00	879.05
3	Prunning of Plants as per requirement	Prorata			561.24	0.00	561.24
4	Watch & ward for 12 months	Prorata			664.92	0.00	664.92
5	Running & Maintenance of Vehicles	Prorata			0.00	72.76	72.76
6	Maintenance of equipments	Prorata			0.00	72.76	72.76
7	Labour amenities	Prorata			21.41	7.49	28.90
8	Misc works like shifting of pipelines, engines etc. and unforeseen expenditure/watercourses repair	Prorata			43.95	29.96	73.91
Total					4075	820	4895

YEAR - 5 MAINTENANCE IV

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Irrigation						
a	2 times through watercourse(Khala) or syphon in command area (125 Plants).	Plant	250	1.76	439.52	0.00	439.52
b	2 times through engine in uncommand area (125 Plants).	Plant	250	3.32	512.78	317.79	830.57
2	Hoeing of 50% Plants 2 times (125 Plants)	Plant	250	1.76	439.52	0.00	439.52
3	Prunning of Plants as per requirement	Prorata			556.73	0.00	556.73
4	Watch & ward for 12 months	Prorata			664.92	0.00	664.92
5	Running & Maintenance of Vehicles	Prorata			0.00	47.08	47.08
6	Maintenance of equipments	Prorata			0.00	47.08	47.08
7	Misc works like shifting of pipelines, engines etc. and unforeseen expenditure/watercourses repair	Prorata			61.98	36.38	98.36
Total					2675	448	3124

(Sudher Jain)

DCF (Plan)

उ. व. स. (मि.स.)
प्र.म.व.स. टी.आर.ई.ईPriya Ranjan
CCF (Plan)

YEAR - 6 MAINTENANCE V							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Irrigation						
	2 times through watercourse (Khala) or syphon in command area (125 Plants).	Plant	250	1.76	439.52	0.00	439.52
2	Watch & ward for 12 months	Prorata			664.92	0.00	664.92
3	Misc works and unforeseen expenditure/watercourse repair	Prorata			63.11	34.24	97.35
Total					1168	34	1202
YEAR - 7 MAINTENANCE VI							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch & ward for 6 months	Prorata			333.59	0.00	333.59
2	Repairing of fencing	Prorata			120.59	73.83	194.42
TOTAL					454	74	528
Grand Total					37478	13578	51056

Yearwise Cost Statement Canal side Plantation (Distributory)

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION				6868	7604	14472
2	YEAR 1 - PLANTING YEAR				10442	1521	11963
3	YEAR 2 - MAINTENANCE I				6573	1612	8185
4	YEAR 3 - MAINTENANCE II				5222	1465	6687
5	YEAR - 4 MAINTENANCE III				4075	820	4895
6	YEAR - 5 MAINTENANCE IV				2675	448	3124
7	YEAR - 6 MAINTENANCE V				1168	34	1202
8	YEAR - 7 MAINTENANCE VI				454	74	528
Grand Total					37478	13578	51056

नोट :- मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है।
कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें।

(Sudher Jain)
DCE (Plan) (प्रशा.)
प्र.मु.व.स., टी.आर.ई.ई.
म.प्र.राज.स.स.स.स.स.

Priya Ranjan
CCF (Plan)
(प्रशा.)

Model Cost Norms - Canal side Plantation (Minor)

Labour rate Rs. 213/- per day
Unit 50 RKM (16.5 Ha)
Perimeter - Average 6200 RM

Average Perimeter=124m/ha
250 plants per RKM
Spacing 3MX4M

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
YEAR 0 ADVANCE ACTION							
1	Collection of data for microplan, preparation of microplan and management plan	RKM	1	183.86	165.67	18.19	183.86
2	Survey of area, alignment of pits for fencing posts, marking of segments/ plots, preparation of plantation card and journal.	Prorata			158.90	35.31	194.21
3	Fencing on both sides of canal with Cement / Angle iron posts (1.5 mt high, 6 m apart having 4 strand barbed wire)- 124 meters	Meter	124	151.54	8362.22	10429.29	18791.51
4	Raising of 300 plants (250 for planting and 20% extra).	Plant	300	6.31	1147.65	745.49	1893.14
5	Purchase of irrigation equipments					0.00	
a	Purchase of 5 HP engine	Prorata			0.00	623.81	623.81
b	Purchase of HDPE/ LGS pipe - (3 inch diameter) 3 m per RKM	Prorata			0.00	438.70	438.70
c	Purchase of PVC pipes of 3 inch dia & 1 inch dia	Prorata			0.00	363.80	363.80
6	Purchase of Tools & plants	Prorata			31.56	147.66	179.22
7	Purchase of Insecticides, Fertilizers - DAP/ NPK/Urea/ vermi compost	Prorata			0.00	224.70	224.70
8	Sign Board including Painting and Fixing	Prorata			21.41	128.40	149.81
9	Watch and Ward for 4 months	Prorata			442.90	0.00	442.90
10	R&M of Vehicles	Prorata			0.00	72.76	72.76
11	Labour Amenities	Prorata			76.63	155.15	231.78
12	Site Clearance including removal of unwanted bushes.	RKM	1	306.19	278.37	27.82	306.19
13	Cattle guard hut	RKM	1	369.25	255.83	113.42	369.25
14	Mulching (tobe done on active dunes in 2.5 Ha area)	Prorata			299.78	0.00	299.78
15	Misc. and unforeseen expenditure	Prorata			84.52	60.99	145.51
Total					11325	13585	24911

(Sudhar Jain)

DCF (Plan)

प्र.मु.व.सं., टी.आर.ई.ई.

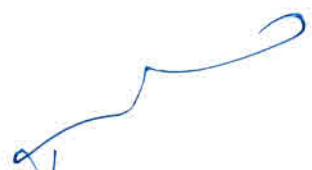
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(प्रिय रंजन)

YEAR 1 - PLANTING YEAR

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 300 Plants in Nursery	Plant	300	1.63	488.04	0.00	488.04
2	Digging of 400 RMT trench (0.4mX0.15m) in command area-for irrigation	Meter	400	2.13	852.00	0.00	852.00
3	Transport of 275 plants upto site including loading and unloading (upto 5 kms)	Plant	275	1.62	413.60	31.03	444.63
4	Planting					0.00	
a	Laying out & digging of 45cmx 45cmx 45cm pit and planting of 125 seedlings including local transportation and initial watering in command area.	Plant	125	12.90	1612.71	0.00	1612.71
b	Laying out & digging of 45cmx 45cmx45 cm pit and planting of 125 seedlings including local transportation and initial watering with engine in uncommand area.	Plant	125	14.51	1649.90	163.71	1813.61
5	Irrigation					0.00	
a	5 times through watercourses (Khala) or syphon in command area (125 Plants).	Plant	625	1.76	1098.81	0.00	1098.81
b	5 times through engine in uncommand area (125 Plants).	Plant	625	3.32	1273.49	803.57	2077.06
6	Treatment and sowing of seeds on trenches (400 m).	Meter	400	0.44	175.81	0.00	175.81
7	Weeding and hoeing of 250 Plants	Plant	250	2.93	732.54	0.00	732.54
8	Hoeing of 50% Plants 5 times (125 Plants)	Plant	625	1.76	1098.81	0.00	1098.81
9	Application of fertilisers and pesticides-250 Plants	Plant	250	0.53	76.63	55.64	132.27
10	Raising of 50 plants for replacement	Plant	50	3.83	191.28	0.00	191.28
11	Running & Maintenance of Vehicles	Prorata			0.00	71.69	71.69
12	Maintenance of equipments	Prorata			0.00	71.69	71.69
13	Labour amenities	Prorata			86.78	18.19	104.97
14	Watch & ward for 12 months	Prorata			1329.84	0.00	1329.84
15	Misc and unforeseen expenditure/repair of watercourses	Prorata			33.81	26.75	60.56
Total					11114	1242	12356


(Sudher Jain)

DCF (Plan)

उप वन संरक्षक (प्रशासन)
प्रधान मुख्य वन संरक्षक
Priya Ranjan

(DCR (Plan))

मुख्य वन संरक्षक (प्रशासन)

YEAR 2 MAINTENANCE I

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 50 Plants for casualty replacement	Plant	50	1.63	81.34	0.00	81.34
2	Transportation of 50 plants from nursery to site for casualty replacement including loading and unloading	Plant	50	1.62	76.63	4.28	80.91
3	Re-digging of Pits & Planting for casualty replacement including treatment, local transport and watering					0.00	
a	In command area (25 Plants)	Plant	25	9.11	227.65	0.00	227.65
b	In uncommand area (25 Plants)	Plant	25	10.70	234.41	33.17	267.58
4	Irrigation					0.00	
a	6 times through watercourses (Khala) or syphon in command area (125 Plants).	Plant	750	1.75	1310.68	0.00	1310.68
b	6 times through engine in uncommand area (125 Plants).	Plant	750	3.33	1536.08	965.14	2501.22
5	Weeding and hoeing of 250 plants	Plant	250	2.92	730.29	0.00	730.29
6	Hoeing of 50% Plants 6 times (125 Plants)	Plant	750	1.75	1310.68	0.00	1310.68
7	Application of fertilisers and pesticides (250 plants)	Plant	250	0.53	76.63	55.64	132.27
8	Prunning of Plants as per requirement	Prorata			175.81	0.00	175.81
9	Purchase of PVC Pipes	Prorata			0.00	367.01	367.01
10	Watch & ward for 12 months	Prorata			1330.97	0.00	1330.97
11	Running & Maintenance of Vehicles/equipments	Prorata			0.00	162.64	162.64
12	Labour amenities	Prorata			0.00	55.64	55.64
13	Misc works like shifting of pipelines, engines etc. and unforeseen expenditure/repair of watercourses	Prorata			58.60	36.38	94.98
Total					7150	1680	8830

YEAR - 3 MAINTENANCE II

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Irrigation						
a	6 times through watercourses (Khala) or syphon in command area (125 Plants).	Plant	750	1.75	1310.68	0.00	1310.68
b	6 times through engine in uncommand area (125 Plants).	Plant	750	3.33	1536.08	965.14	2501.22
2	Hoeing of 50% Plants 6 times (125 plants)	Plant	750	1.75	1310.68	0.00	1310.68
3	Prunning of Plants as per requirement	Prorata			315.56	0.00	315.56
4	Purchase of PVC Pipe	Prorata			0.00	274.99	274.99
5	Watch & ward for 12 months	Prorata			1330.97	0.00	1330.97
6	Running & Maintenance of Vehicles	Prorata			0.00	72.76	72.76
7	Maintenance of equipments	Prorata			0.00	92.02	92.02
8	Labour amenities	Prorata			0.00	55.64	55.64
9	Misc works like shifting of pipelines, engines etc. and unforeseen expenditure/repair of watercourses	Prorata			69.87	25.68	95.55
Total					5874	1486	7360

(Sudhar Jain)

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DCF (Plan)
प्रधान मुख्य वन संरक्षक

Priya Ranjan
CCF (Plan)

YEAR - 4 MAINTENANCE III

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Irrigation						
a	4 times through watercourses (Khala) or syphon in command area (125 plants).	Plant	500	1.76	879.05	0.00	879.05
b	4 times through engine in uncommand area (125 plants).	Plant	500	3.32	1024.43	637.72	1662.15
2	Hoeing of 50% Plants 4 times (125 Plants)	Plant	500	1.76	879.05	0.00	879.05
3	Prunning of Plants as per requirement	Prorata			561.24	0.00	561.24
4	Watch & ward for 12 months	Prorata			1330.97	0.00	1330.97
5	Running & Maintenance of Vehicles	Prorata			0.00	72.76	72.76
6	Maintenance of equipments	Prorata			0.00	72.76	72.76
7	Labour amenities	Prorata			22.54	39.59	62.13
8	Misc works like shifting of pipelines, engines etc. and unforeseen expenditure/repair of watercourses	Prorata			47.33	27.82	75.15
		Total			4745	851	5595

YEAR - 5 MAINTENANCE IV

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Irrigation						
a	2 times through watercourses (Khala) or syphon in command area (125 Plants).	Plant	250	1.76	439.52	0.00	439.52
b	2 times through engine in uncommand area (125 Plants).	Plant	250	3.33	516.16	315.65	831.81
2	Hoeing of 50% Plants 3 times (125 Plants)	Plant	375	1.76	659.29	0.00	659.29
3	Prunning of Plants as per requirement	Prorata			557.86	0.00	557.86
4	Watch & ward for 12 months	Prorata			1330.97	0.00	1330.97
5	Running & Maintenance of Vehicles	Prorata			0.00	47.08	47.08
6	Maintenance of equipments	Prorata			0.00	70.62	70.62
7	Misc works like shifting of pipelines, engines etc. and unforeseen expenditure/repair of watercourses	Prorata			39.44	31.03	70.47
		Total			3543	464	4008

YEAR - 6 MAINTENANCE V

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Irrigation						
	2 times through watercourse (Khala) or syphon in command area (125 Plants).	Plant	250	1.76	439.52	0.00	439.52
2	Watch & ward for 12 months	Prorata			1330.97	0.00	1330.97
3	Misc works and unforeseen expenditure	Prorata			49.59	18.19	67.78
		Total			1820	18	1838

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(विन संरक्षण)

YEAR - 7 MAINTENANCE VI							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch & ward for 6 months	Prorata			664.92	0.00	664.92
2	Repairing of fencing	Prorata			84.52	65.27	149.79
TOTAL					749	65	815
Grand Total					46320	19392	65713

Yearwise Cost Statement Canal side Plantation (Minor)

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION				11325	13585	24911
2	YEAR 1 - PLANTING YEAR				11114	1242	12356
3	YEAR 2 - MAINTENANCE I				7150	1680	8830
4	YEAR 3 - MAINTENANCE II				5874	1486	7360
5	YEAR - 4 MAINTENANCE III				4745	851	5595
6	YEAR - 5 MAINTENANCE IV				3543	464	4008
7	YEAR - 6 MAINTENANCE V				1820	18	1838
8	YEAR - 7 MAINTENANCE VI				749	65	815
Grand Total					46320	19392	65713

नोट :- मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है।

कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें।

(Sudher Jain)

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Priya Ranjan
CCF (Plan)

(प्रशासन)

Block Plantation_IGNP

Plantation Unit -12.5 ha (500 m X 250 m)

No. of Plants - 800 per ha.

Spacing 3mX4M

Unit for Model calculation- per ha.

Perimeter-Average=1500 m

Perimeter/ha=120 m

Labour rate Rs. 213/- per day

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
Year-O Advance Action							
1	Collection of data for microplanning, preparation of microplan and management plan	Prorata			81.14	58.85	139.99
2	Survey of area, alignment of pits for pole fixing, division of area into segments, preparation of treatment map and plantain card.	Prorata			355.00	100.58	455.58
3	Fencing of plantation area with 1.5 mt. high Angle iron / RCC Post and 4 strand barbed wire / local thorny material or 1.50 m angle iron post and two lines of wire and 1.2 M broad welded wiremesh (details given at annexure "A" for Angle Iron, annexure "B" for RCC Post, C for wire mesh) 120 M	RMT	120	151.49	8056.81	10122.20	18179.01
4	Raising of 960 plants	Plant	960	6.31	3672.48	2385.56	6058.04
5	Purchase of 8 HP Engine	Prorata			0.00	2448.16	2448.16
6	Purchase of PVC/HDPE Pipes of 3 inch dia and 1 inch dia	Prorata			0.00	2409.64	2409.64
7	Purchase of tools and plants	Prorata			40.57	335.98	376.55
8	Purchase of fertilizers and insecticides	Prorata			0.00	706.20	706.20
9	Purchase of Plantation Board including painting and fixing	Prorata			108.19	282.48	390.67
10	Watch and ward for four months	Prorata			1771.62	0.00	1771.62
11	R & M of Vehicle	Prorata			0.00	230.05	230.05
12	Labour amenities	Prorata			355.00	202.23	557.23
13	Miscellaneous expenditure (Labour, Instruments, Machine etc)	Prorata			55.22	119.84	175.06
Total					14496	19402	33898

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Year 1 Planting Year

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 960 Plants in nursery.	Plant	960	2.16	1561.73	510.17	2071.90
2	Raising of 160 Plants for casualty replacement.	Plant	160	6.31	612.08	397.59	1009.67
3	Transportation of 880 plants from Nursery to plantation site	Plant	880	1.61	1280.25	140.17	1420.42
4	Plantating 800 plants - Planting Activity					0.00	
a	Un-command area- Includes digging of pits ; local transportation, treatment of pit with pesticides and fertiliser, making of Thanwala. And initial watering 400 plants	Plant	400	11.51	4602.60	0.00	4602.60
b	Command area- Includes digging of pits ; local transportation, treatment of pit with pesticides and fertiliser, making of Thanwala. And initial watering 400 plants	Plant	400	13.09	4722.06	515.74	5237.80
5	Removal of unwanted bushes and ploughing	Prorata			0.00	1553.64	1553.64
6	Digging of 1250 m trench of size 0.40 cm wide and 0.15 cm deep-for irrigation	RMT	1250	2.13	2663.06	0.00	2663.06
7	Levelling of area	Prorata			2429.78	0.00	2429.78
8	Watering of plants after replacement- 6 times				0.00	0.00	
a	400 plants by pump	Plant	400	20.01	4919.29	3084.81	8004.10
b	400 plants by Khala/syphon	Plant	400	10.55	4219.43	0.00	4219.43
9	Weeding and Hoeing 800 plants two times	Plant	1600	2.93	4688.25	0.00	4688.25
10	Hoeing 800 two times	Plant	1600	1.76	2812.95	0.00	2812.95
11	Application of urea and fertilisers	Plant	800	0.53	241.17	181.90	423.07
12	Purchase of PVC pipes	Prorata			0.00	2070.45	2070.45
13	Maintenance of engine	Prorata			0.00	551.05	551.05
14	Construction of cattle guard hut	Prorata			1065.00	918.06	1983.06
15	Watch and Ward charges	Prorata			5315.98	0.00	5315.98
16	R & M of Vehicles	Prorata			0.00	551.05	551.05
17	Labour amenities	Prorata			607.44	36.38	643.82
18	Miscellaneous expenditure (Labour, Instruments, Machine etc)	Prorata			37.19	63.13	100.32
Total					41778	10574	52352


(Sudher Jain)वन संरक्षक (प्रशासन)
DCF (Plan)
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Priya Ranjan
CCF (Plan)

Year-2 Maintenance-I

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 160 Plants in nursery.	Plant	160	2.16	260.29	85.03	345.32
2	Transportation of 160 plants	Plant	160	1.63	260.33	0.00	260.33
3	Re planting of 80 plants in hard soil in command area including digging of pits, treating with pesticides, fertilisers and watering	Plant	80	9.10	728.03	0.00	728.03
4	Re planting of 80 plants in sandy soil in un-command area including digging of pits, treating with pesticides, fertilisers and watering	Plant	80	10.70	747.19	109.14	856.33
5	Watering of plants after replacement- 6 times					0.00	
a	400 plants by pump	Plant	2400	3.33	4917.03	3086.95	8003.98
b	400 plants by Khala/syphon	Plant	2400	1.76	4219.43	0.00	4219.43
6	Application of urea and fertilisers- 2 times, 800 plants	Plant	1600	0.53	482.35	363.80	846.15
7	Weeding and Hoeing- 800 plants, 2 times	Plant	1600	2.93	4688.25	0.00	4688.25
8	Hoeing 800 plants two times	Plant	1600	1.76	2812.95	0.00	2812.95
9	Khala repair and cleaning	Prorata			460.94	0.00	460.94
10	R&M of vehicles	Prorata			0.00	367.01	367.01
11	Maintenance and repair of engine	Prorata			0.00	367.01	367.01
12	Watch and Ward charges	Prorata			5315.98	0.00	5315.98
13	Miscellaneous expenditure (Labour, Instruments, Machine etc)	Prorata			21.41	9.63	31.04
Total					24914	4389	29303

Year-3 Maintenance-II

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watering of plants- 5 times						
a	400 plants by pump	Plant	2000	3.34	4098.84	2571.21	6670.05
b	400 plants by Khala/syphon	Plant	2000	1.76	3516.19	0.00	3516.19
2	Hoeing 800 plants two times	Plant	1600	1.76	2812.95	0.00	2812.95
3	Khala repair and cleaning	Prorata			365.14	0.00	365.14
4	Purchase of PVC pipes	Prorata			0.00	1129.92	1129.92
5	R&M of vehicles	Prorata			0.00	282.48	282.48
6	Application of urea and fertilisers- 2 times, 800 plants	Plant	1600	0.53	482.35	363.80	846.15
7	Maintenance & repair of Engine	Prorata			0.00	423.72	423.72
8	Pruning and tending of 800 plants	Plant	800	1.76	1406.48	0.00	1406.48
9	Watch and Ward charges	Prorata			5315.98	0.00	5315.98
10	Miscellaneous expenditure (Labour, Instruments, Machine, repair of watercourse etc)	Prorata			89.03	57.78	146.81
Total					18087	4829	22916

(Sudher Jain)
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Priya Ranjan
CCF (Plan)

Year-4 - Maintenance-III

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watering of plants 4 times						
a	400 plants by pump	Plant	1600	3.33	3277.27	2058.68	5335.95
b	400 plants by Khala/syphon	Plant	1600	1.76	2812.95	0.00	2812.95
2	Hoeing 800 plants two times	Plant	1600	1.76	2812.95	0.00	2812.95
3	Pruning and tending of 800 plants (2 times)	Plant	1600	1.76	2812.95	0.00	2812.95
4	R&M of vehicles	Prorata			0.00	156.22	156.22
5	Maintenance & repair of Engine	Prorata			0.00	353.10	353.10
6	Watch and Ward charges	Prorata			5315.98	0.00	5315.98
7	Miscellaneous expenditure/repair of watercourse	Prorata			126.22	95.23	221.45
Total					17158	2663	19822

Year-5 Maintenance-IV

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watering of plants 2 times						
a	400 plants by pump	Plant	800	3.33	1638.63	1029.34	2667.97
b	400 plants by Khala/syphon	Plant	800	1.76	1406.48	0.00	1406.48
2	Pruning and tending of 500 plants	Plant	500	7.02	3510.56	0.00	3510.56
3	R&M of vehicles	Prorata			0.00	155.15	155.15
4	Maintenance & repair of Engine	Prorata			0.00	254.66	254.66
5	Watch and Ward charges	Prorata			5315.98	0.00	5315.98
6	Miscellaneous expenditure/repair of watercourse	Prorata			34.94	21.40	56.34
Total					11907	1461	13367

Year-6 Maintenance-V

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watering of plants- 2 times						
a	400 plants by Khala/syphon	Plant	800	1.76	1406.48	0.00	1406.48
2	Pruning and tending of 450 plants	Plant	450	7.01	3154.43	0.00	3154.43
3	Watch and Ward charges	Prorata			5315.98	0.00	5315.98
4	Miscellaneous expenditure/repair of watercourse	Prorata			43.95	39.59	83.54
Total					9921	40	9960


 (Sudher Jain)
 डीसी (प्रशासन)
 प्रधान मुख्य वन संरक्षक


 Priya Ranjan
 CCF (Plan)

Year-7 Maintenance-IV							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch and Ward charges four months	Prorata			1771.62	0.00	1771.62
2	Fencing repair	Prorata			172.43	104.86	277.29
			Total		1944.05	104.86	2048.91
Grand Total					140205	43462	183667

Yearwise Cost Statement Block Plantation_IGNP

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION				14496	19402	33898
2	YEAR 1 - PLANTING YEAR				41778	10574	52352
3	YEAR 2 - MAINTENANCE I				24914	4389	29303
4	YEAR 3 - MAINTENANCE II				18087	4829	22916
5	YEAR - 4 MAINTENANCE III				17158	2663	19822
6	YEAR - 5 MAINTENANCE IV				11907	1461	13367
7	YEAR - 6 MAINTENANCE V				9921	40	9960
8	YEAR - 7 MAINTENANCE VI				1944	105	2049
Grand Total					140205	43462	183667

नोट :- मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है।

कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें।

(Sudher Jain)

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Priya Ranjan

CCF (Plan)
(प्रिय रंजन)

Block Plantation_Non IGNP (Afforestation Model I)

- | | |
|---|---------------------------------|
| 1 Plantation Unit -15 ha. (500 m X 300 m) | 5 Perimeter - 1600 Meters |
| 2 No. of Plants - 500 per ha. | 6 Perimeter per ha. 107 m |
| 3 Spacing 4mX5M | 7 Labour rate Rs. 213/- per day |
| 4 Unit for Model calculation- per ha. | 8 Period - 8 Years |

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
Year-0 Advance Action							
1	Collection of data for microplanning, Preparation of microplan and management plan	Prorata	1		81.14	58.85	139.99
2	Survey of area, alignment of pits for pole fixing, division of area into segments, preparation of treatment map, plantation card and making of inspection path .	Prorata	1		355.00	101.65	456.65
3	Fencing of plantation area with 1.5 mt. high Angle iron / RCC Post and 4 strand barbed wire / local thorny material or 1.50 m angle iron post and two lines of wire and 1.2 M broad welded wiremesh (details given at annexure "A" for Angle Iron, annexure "B" for RCC Post, C for wire mesh)107 M	RMT	107	151.57	7195.79	9022.24	16218.03
4	Water and Soil Conservation measures in plantation area A. Digging V- ditch 200 RM/Ha.	RMT	200	21.74	4347.90	0.00	4347.90
	B. Construction of Check Dam/Nadi	Prorata			1243.06	707.27	1950.33
5	Raising of 550 plants					0.00	
a	Shady Plants (one year old) 110 Plants	Plant	110	7.90	567.95	301.10	869.05
b	Thorny Plants(6 Months old) 440 plants	Plant	440	4.72	1094.65	982.37	2077.03
6	Digging pits for 500 plants	PIT	500	11.36	5680.00	0.00	5680.00
7	Expenditure on purchase of pesticides	Prorata			0.00	506.11	506.11
8	Purchase of Nitrogen fertilizers	Prorata			0.00	252.52	252.52
9	Purchase of seeds of grasses (sewan/ dhaman) 2.5 KG and indigenous tree species (kumut, ber, khejari, raunj,etc.) 2.5 KG	Kg.	5.00	106.49	264.93	267.50	532.43
10	Construction of one water storage tank-50,000 liters capacity	Prorata			7586.86	4405.19	11992.05
11	Construction of cattle guard hut	Prorata			355.00	202.23	557.23
12	R & M of Vehicle	Prorata			0.00	101.65	101.65
13	Plantation Board	Prorata			15.78	262.15	277.93
14	Plantation Gate	Prorata			355.00	470.80	825.80
15	watch and ward for four months	Prorata			1478.60	0.00	1478.60
16	Expenditure on purchase of Material for irrigation measures except traditional system	Prorata			0.00	184.04	184.04
17	Miscellaneous expenditure (Labour, Instruments, Machine etc)	Prorata			55.22	247.17	302.39
Total					30677	18073	48750

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प्रधान मुख्य वन संरक्षक

Priya Ranjan
CCF (Plan)

Year-1 Planting Year

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of Plants in nursery.						
a	Shady Plants 110 plants	Plant	110	1.87	154.99	50.45	205.44
b	Thorny Plants 440 plants	Plant	440	2.45	811.62	265.85	1077.48
2	Raising of Plants for casualty replacement.					0.00	
a	One year old 22 Plants	Plant	22	7.90	113.59	60.22	173.81
b	Six months old 88 Plants	Plant	88	4.72	218.93	196.47	415.41
3	Transportation of 550 plants from Nursery to plantation site	Plant	550	2.87	1214.89	364.87	1579.76
4	Planting 500 plants - Planting Activity					0.00	
	Includes digging of pits ; local transportation, treatment of pit with pesticides and fertiliser, making of Thanwala, and initial watering	Plant	500	18.85	9427.22	0.00	9427.22
5	Ploughing with tractor disc-plough in rows of 5 meter distance and sowing of seeds on trenches and in ploughed area-	Prorata			0.00	757.56	
	A.Ploughing with tractor in between plant rows						757.56
	B. Seeds sowing in ploughed area and on V-ditches	Prorata			1332.10	0.00	1332.10
6	Seed sowing of kumtha, ber, raunj,etc. near fencing or/and planting thor (as per availability near the site)	Prorata			194.97	0.00	194.97
7	Watering-					0.00	
a	450 plants four times per year (15 ltr. Per plant) (1800-200=1600)	Plant	1600	11.22	15430.67	2520.92	17951.59
b	200 plants from rain water available in tanka/s (one time)	Plant	200	7.34	1467.33	0.00	1467.33
8	Weeding and Hoeing 450 plants after rains	Plant	450	3.79	1704.00	0.00	1704.00
9	Hoeing of 450 plants after each watering (4 times)	Plant	1800	2.34	4219.43	0.00	4219.43
10	Protection cover for 50 plants from heat/cold	Plant	50	7.49	355.00	19.26	374.26
11	Prunning of 10% plants (50 plant)	Plant	50	2.05	102.56	0.00	102.56
12	Watch and Ward charges	Prorata			4434.68	0.00	4434.68
13	R & M of Vehicle	Prorata			0.00	171.20	171.20
14	Miscellaneous expenditure (Labour, Instruments, Machine etc)	Prorata			67.62	211.86	279.48
Total					41250	4619	45868

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CCF (Plan)

Year-2 Maintenance-I							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of Plants in nursery.						
a	One year old 22 Plants	Plant	22	1.87	31.00	10.09	41.09
b	Six months old 88 Plants	Plant	88	2.45	162.32	53.17	215.50
2	Transportation of 110 plants from nursery to plantation site	Plant	110	2.86	243.43	71.69	315.12
3	Planting of 100 plants after re-digging of pits, treating with pesticides, using chemical fertilizers and watering with local transportation and making of thanwlas, making thanwlas and planting,	Plant	100	24.53	2291.16	161.57	2452.73
4	Watering					0.00	
a	Watering 450 plants three times per year (15 ltr./ plant) (1350-200=1150)	Plant	1150	11.24	11162.78	1767.64	12930.42
b	200 plants from rain water available in tanka/s-one time	Plant	200	7.28	1456.06	0.00	1456.06
4	Weeding and Hoeing of 450 plants after rains	Plant	450	3.79	1704.00	0.00	1704.00
5	Hoeing of 450 plants after each watering (three times	Plant	1350	2.34	3164.57	0.00	3164.57
6	Protection cover for 50 plants from heat/cold	Plant	50	7.51	355.00	20.33	375.33
7	Prunning of 70% plants (350 plant)	Plant	350	2.05	717.89	0.00	717.89
8	Repair of Fencing	Prorata			68.75	20.33	89.08
9	Expenditure of maintenance of vehicles and contract vehicles	Prorata			0.00	134.82	134.82
10	Watch and Ward charges	Prorata			4434.68	0.00	4434.68
11	Miscellaneous expenditure (Labour, Instruments, Machine etc)	Prorata			55.22	188.32	243.54
Total					25847	2428	28275
Year-3 Maintenance-II							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watering -A. 50 plants once per year (15 ltr. Per plant)	Plant	50	11.26	490.24	72.76	563.00
	B. 200 plants from rain water available in tanka/s	Plant	200	7.28	1456.06	0.00	1456.06
2	Weeding and Hoeing 250 plants after rains	Plant	250	3.79	946.67	0.00	946.67
3	Hoeing of 250 plants (one time)	Plant	250	2.34	586.03	0.00	586.03
4	Prunning of 20% plants (100 plants)	Plant	100	2.03	202.86	0.00	202.86
5	Watch and Ward charges	Prorata			4434.68	0.00	4434.68
6	Miscellaneous expenditure (Labour, Instruments, Machine etc)	Prorata			127.35	50.29	177.64
Total					8244	123	8367
Year-4 Maintenance-III							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch and Ward charges	Prorata			4434.68	0.00	4434.68
2	Fencing repair	Prorata			71.00	20.33	91.33
3	Miscellaneous expenditure	Prorata			22.54	127.33	149.87
Total					4528.22	147.66	4675.88

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Year-5 Maintenance-IV

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch and Ward charges	Prorata			4434.68	0.00	4434.68
2	Fencing repair	Prorata			71.00	20.33	91.33
3	Miscellaneous expenditure	Prorata			24.79	127.33	152.12
		Total			4530.48	147.66	4678.14

Year-6 Maintenance-V

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch and Ward charges	Prorata			4434.68	0.00	4434.68
2	Fencing repair	Prorata			71.00	20.33	91.33
3	Miscellaneous expenditure	Prorata			24.79	127.33	152.12
		Total			4530.48	147.66	4678.14

Year-7 Maintenance-VI

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch and Ward charges	Prorata			4434.68	0.00	4434.68
2	Fencing repair	Prorata			71.00	20.33	91.33
3	Miscellaneous expenditure	Prorata			24.79	127.33	152.12
		Total			4530.48	147.66	4678.14
		Grand Total			124137	25833	149970

Yearwise Cost Statement Block Plantation_Non IGNP (Afforestation Model I)

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION				30677	18073	48750
2	YEAR 1 - PLANTING YEAR				41250	4619	45868
3	YEAR 2 - MAINTENANCE I				25847	2428	28275
4	YEAR 3 - MAINTENANCE II				8244	123	8367
5	YEAR - 4 MAINTENANCE III				4528	148	4676
6	YEAR - 5 MAINTENANCE IV				4530	148	4678
7	YEAR - 6 MAINTENANCE V				4530	148	4678
8	YEAR - 7 MAINTENANCE VI				4530	148	4678
		Grand Total			124137	25833	149970

नोट :- मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है।
कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/ परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें।

(Sudhar Jain)

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Model Cost Norms Sand Dune Stabilisation

Labour rate Rs. 213/- per day

Unit - 25 Ha

Perimeter - Average 2050 RM (625 MX400M)

No. of Plants 600

Spacing 4MX5M (in interdunal Area)

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
YEAR- 0 Advance Action							
1	Collection of data for miroplanning, preparation of microplan and management plan	Prorata	1	350.50	265.97	84.53	350.50
2	Survey of area, alignment of pits for fencing posts, division of area into segments, preparation of treatment map, plantation Journal and card.	Prorata	1	456.65	355.00	101.65	456.65
3	Fencing of plantation area with 1.5 mt. high Angle iron / RCC Post and 4 strand barbed wire / local thorny material or 1.50 m angle iron post and two lines of wire and 1.2 M broad welded wiremesh (details given at annexure "A" for Angle Iron, annexure "B" for RCC Post, C for wire mesh) 82 M	Meter	82	151.46	5492.92	6927.18	12420.10
4	Raising of plants					0.00	
a	One year old 110 Plants	Plant	110	7.90	567.95	301.10	869.05
b	Six months old 550 Plants	Plant	550	4.72	1368.32	1227.96	2596.28
5	Purchase of pesticides, fertilisers, etc.	Prorata	1	757.56	0.00	757.56	757.56
6	Digging of 100 pits ((0.4M+0.5M)/2)^2X0.45M)	Pit	100	7.57	757.33	0.00	757.33
7	Purchase of 4 kg seeds/ ha. (khimp, tumba, sonamukhi sewan, etc.)	Kg.	4	107.00	0.00	428.00	428.00
8	Mulching on shifting dunes (on an average in 20% area) 800 m /Ha	Meter	800	10.40	8321.65	0.00	8321.65
9	Construction of water storage tanks/Water harvesting structures and other SMC works	Prorata	1	7180.82	4550.76	2630.06	7180.82
10	Construction of cattle guard hut (Jhompā)	Prorata	1	333.91	213.00	120.91	333.91
11	Running and Maintenance of Vehicles	Prorata	1	60.99	0.00	60.99	60.99
12	Purchase of plantation board, its painting and fixing on site.	Prorata	1	387.37	42.83	344.54	387.37
13	Construction of plantation gate (including purchase of material)	Prorata	1	495.48	213.00	282.48	495.48
14	Purchase of material for watering purposes.	Prorata	1	92.02	0.00	92.02	92.02
15	Watch and Ward for 2 months.	Prorata	2	222.02	444.03	0.00	444.03
16	Miscellaneous expenditure like labour amenities, tools and plants, etc.	Prorata			188.21	156.22	344.43
Total					22781	13515	36296

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 CCF (Plan)

YEAR 1 - PLANTING YEAR

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of Plants in nursery-						
a	One year old 110 Plants	Plant	110	1.87	154.99	50.45	205.44
b	Six months old 550 Plants	Plant	550	2.45	1014.53	332.31	1346.84
2	Raising of Plants for casualty replacement.					0.00	
a	One year old 32 Plants	Plant	32	7.90	165.22	87.59	252.81
b	Six months old 100 Plants	Plant	100	4.72	248.79	223.27	472.05
3	Making and sowing of pellets / balls-					0.00	
a	Making of pellets / balls total quantity will be 24 kg. (Ratio of seed, manure, sand & clay will be 1:1:2:2) rate	6 Kg.	4	51.93	151.02	56.71	207.73
b	Sowing of pellets/ balls.	6 Kg.	4	213.00	852.00	0.00	852.00
4	Transportation of 660 plants from Nursery to Plantation site.	Plant	660	2.86	1447.05	440.84	1887.89
5	Planting in sandy soil- Planting Activity					0.00	
	Includes digging of pits ; local transportation, treatment of pit with pesticides and fertiliser, making of Thanwala. And initial watering (500 plants)	Plant	500	20.15	9317.90	756.49	10074.39
6	Plantating in interdunal area- Planting Activity					0.00	
	Includes local transportation, treatment of pit with pesticides and fertiliser, making of Thanwala and initial watering (100 Plants)	Plant	100	18.14	1673.57	140.17	1813.74
7	Watering of 540 plants, twice in a year (15 liters per watering)					0.00	
a	on uneven sand dunes 450 Plants	Plant	900	12.09	8934.73	1946.33	10881.06
b	on even surface (twice) 90 plants	Plant	180	11.26	1750.21	276.06	2026.27
c	on even surface from water in tanka (once)90 plants	Plant	90	7.29	655.90	0.00	655.90
8	Weeding & Hoeing of 90 plants in inerdunal area-					0.00	
a	Weeding & Hoeing of plants after rains	Plant	90	3.78	340.35	0.00	340.35
b	Hoeing (three times) after every watering	Plant	270	2.33	629.98	0.00	629.98
9	Silvicultural operations (in interdunal area) like protection from heat & cold, pruning etc.	Prorata	1	896.34	797.90	98.44	896.34
10	Watch & ward	Prorata	1	2657.43	2657.43	0.00	2657.43
11	Running & Maintenance of Vehicles	Prorata	1	101.65	0.00	101.65	101.65
12	Miscellaneous expenditure like labour amenities, tools and plants, etc.	Prorata			56.35	201.16	257.51
Total					30848	4711	35559

(Sudhir Jain)

DCF (Plan)

उप-वि. सहायक (प्रशासन)

(Priya Ranjan)

CCF (Plan)

YEAR 2 - Maintenance I							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of Plants in nursery-						
a	One year old 32 Plants	Plant	32	1.87	45.09	14.68	59.76
b	Six months old 100 Plants	Plant	100	2.45	184.46	60.42	244.88
2	Transportation of 110 plants from Nursery to Plantation site.	Plant	110	2.86	241.17	73.83	315.00
3	Planting in sandy soil- Planting Activity					0.00	
	Includes digging of pits ; local transportation, treatment of pit with pesticides and fertilisers, making of Thanwala and initial watering (80 Plants)	Plant	80	20.15	1491.00	120.91	1611.91
4	Planting in interdunal area- Planting Activity					0.00	
	Includes re-digging of pits in interdunal area ; local transportation, treatment of pit with pesticides and fertilisers, making of Thanwala and initial watering (20 plants)	Plant	20	22.18	414.73	28.89	443.62
5	Watering of 540 plants, thrice in a year (15 litres per					0.00	
a	on sand dunes (three times) 450 plants	Plant	1350	12.09	13402.10	2918.96	16321.06
b	on even surface/interdunal area (three times) 90 plants	Plant	270	11.27	2627.00	415.16	3042.16
c	on even surface from water in tanka (once)90 plants	Plant	90	7.29	655.90	0.00	655.90
6	Weeding &Hoeing of plants in inerdunal area (90					0.00	
a	Weeding &Hoeing of plants after rains	Plant	90	3.78	340.35	0.00	340.35
b	Hoeing (four times) after every watering	Plant	360	2.34	840.73	0.00	840.73
7	Silvicultural operations (in interdunal area) like protection from heat & cold, pruning etc.	prorata			1361.40	80.25	1441.65
8	Watch & ward	prorata			2657.43	0.00	2657.43
9	Running & Maintenance of Vehicles	prorata			0.00	80.25	80.25
10	Miscellaneous expenditure (labour amenities, Tool & plants,fencing repair, etc.	prorata			93.54	234.33	327.87
Total					24355	4028	28383
YEAR 3 - Maintenance II							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watering of 250 plants, once in a year (15 liters per						
a	on uneven sand dunes (160 Plants)	Plant	160	12.20	1693.86	257.87	1951.73
c	on even surface from water in tanka (90 Plants)	Plant	90	7.29	655.90	0.00	655.90
2	Weeding &Hoeing of plants in interdunal area-					0.00	
	Hoeing after watering	Plant	90	2.33	209.62	0.00	209.62
3	Prunning (90 plants)	Plant	90	2.28	205.11	0.00	205.11
4	Watch & ward	prorata	1	2657.43	2657.43	0.00	2657.43
5	Miscellaneous expenditure	prorata	1	246.08	63.11	182.97	246.08
Total					5485	441	5926

(Sudhir Jain)
DCF (Plan)
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CCF (Plan)
(प्रिय रंजन)

YEAR 4 - Maintenance III							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch & ward	Prorata	1	2657.43	2657.43	0.00	2657.43
2	Miscellaneous expenditure	Prorata	1	232.19	190.46	41.73	232.19
Total					2848	42	2890
YEAR 5 - Maintenance IV							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch & ward	Prorata	1	2657.43	2657.43	0.00	2657.43
2	Miscellaneous expenditure	Prorata	1	232.19	190.46	41.73	232.19
Total					2848	42	2890
YEAR 6 - Maintenance V							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch & ward	Prorata	1	2657.43	2657.43	0.00	2657.43
2	Miscellaneous expenditure	Prorata	1	232.19	190.46	41.73	232.19
Total					2848	42	2890
YEAR 7 - Maintenance VI							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch & ward for 6 months	Prorata	1	1329.84	1329.84	0.00	1329.84
2	Miscellaneous expenditure	Prorata	1	88.78	41.70	47.08	88.78
Total					1372	47	1419
Grand Total					93384.02	22867.46	116251

Yearwise Cost Statement- Sand Dune Stabilisation

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION				22781	13515	36296
2	YEAR 1 - PLANTING YEAR				30848	4711	35559
3	YEAR 2 - MAINTENANCE I				24355	4028	28383
4	YEAR 3 - MAINTENANCE II				5485	441	5926
5	YEAR - 4 MAINTENANCE III				2848	42	2890
6	YEAR - 5 MAINTENANCE IV				2848	42	2890
7	YEAR - 6 MAINTENANCE V				2848	42	2890
8	YEAR - 7 MAINTENANCE VI				1372	47	1419
Grand Total					93384	22867	116251

नोट :- मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है। कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/ परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें।

(Sudhir Jain)
DCF (Plan)

(Priya Ranjan)
CCF (Plan)

Model Cost Norms silvi-pastoral plantation in IGNP area

Labour rate Rs. 213/- per day

Perimetre/ha- 60 m

Unit- 50 Ha

No. of Plants- 200

Perimeter - Average 3000 RM (625 MX400M)

Spacing -5MX5M

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
YEAR- 0 Advance Action							
1	Collection of data for Microplanning, preparation of microplan and management plan	Prorata	1	174.66	131.86	42.80	174.66
2	Survey of area, alignment of pits for pole fixing, division of area into segments, preparation of treatment map and plantaion card.	Prorata	1	369.40	322.32	47.08	369.40
3	Fencing of plantation area with 1.5 mt. high Angle iron / RCC Post and 4 strand barbed wire / local thorny material or 1.50 m angle iron post and two lines of wire and 1.2 M broad welded wiremesh (details given at annexure "A" for Angle Iron, annexure "B" for RCC Post, C for wire mesh) 60 M	Meter	60	151.48	4027.84	5061.10	9088.94
4	Raising of 240 plants for planting including 20% extra	Plant	240	7.90	1239.16	656.94	1896.10
5	Raising of Sewan Grass slips and other indigenous plants in 10cmX15 cm bags (includes 20% extra)					0.00	
a	Sewan Grass 960 slips	Plant	960	2.02	1190.32	750.72	1941.04
b	Other indigenous plants like ber khejari, raunj, etc. 240 plants	Plant	240	2.02	297.58	187.68	485.26
6	Purchase of irrigation equipments				0.00	0.00	
a.	Purchase of 8 HP Engine	Prorata	1	642.00	0.00	642.00	642.00
b.	Purchase of HDPE/LGS pipe (3 inch diameter) 13.2 m per Ha	Prorata	1	1816.86	0.00	1816.86	1816.86
c.	Purchase of PVC pipes of 3 inch dia & 1 inch dia	Prorata	1	551.05	0.00	551.05	551.05
7	Purchase of tools, plants & insecticides	Prorata	1	147.66	0.00	147.66	147.66
8	Purchase of fertilizers, DAP & Urea Vermi compost, NPK	Prorata	1	353.10	0.00	353.10	353.10
9	Sign board including painting and fixing	Prorata	1	110.21	0.00	110.21	110.21
10	Purchase of seeds of Sewan grass/ Ber/Khejari and other indigenous species (6 Kg/Ha)	Prorata	6	107.00	0.00	642.00	642.00
11	Construction of Cattle guard hut	Prorata	1	615.39	426.00	189.39	615.39
12	R & M of Vehicle	Prorata	1	184.04	0.00	184.04	184.04
13	Labour amenities	Prorata	1	68.48	0.00	68.48	68.48
14	Watch & Ward for 4 months	Prorata	1	444.03	444.03	0.00	444.03
15	Misc. and unforeseen expenditure	Prorata	1	109.55	29.30	80.25	109.55
TOTAL YEAR 0					8108	11531	19640

(Sudhir Jain)

DCF (Plan) (प्रशासन)

(Priya Ranjan)

CCF (Plan)
(प्रिय रंजन)

YEAR 1 - PLANTING YEAR

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 240 plants in Nursery	Plant	240	1.87	338.16	110.07	448.23
2	Maintenance of Sewan Grass and plants in					0.00	
a	Sewan Grass (960)	Plant	960	1.19	795.43	346.75	1142.18
b	Other indigineous plants like ber khejari, raunj ,etc. (240)	Plant	240	1.19	198.86	86.69	285.54
3	Construction of Nadi/ water storage tanks	Prorata	1	1586.02	852.00	734.02	1586.02
4	600 m trench digging- of size 20cmX30cmX50 cm for irrigation	Meter	600	1.76	1054.86	0.00	1054.86
5	Transport of 220 plants upto site including loading and unloading (upto 5 kms.)	Plant	220	1.63	334.71	24.61	359.32
6	Transport of 800 grass slips and 200 plants raised in 10 cmX15cm bags upto site including loading and unloading (upto 5 kms.)	Plant	1000	0.73	729.16	0.00	729.16
7	Mulching on shifting sand dunes (200 m/Ha)	Meter	200	7.16	1432.40	0.00	1432.40
8	Sowing of grass seeds	Prorata	1	192.71	192.71	0.00	192.71
9	Planting-					0.00	
	a. Digging of 45cm×45cm×45 cm pit and planting of 200 plants	Pit	200	13.08	2416.25	199.02	2615.27
	b. Planting of 800 grass slips and 200 pre-germinated plants, including local transport and watering	Plant	1000	2.49	1753.59	731.88	2485.47
10	Watering of 200 plants (4 times)	Plant	800	3.63	1866.29	1035.76	2902.05
11	Watering of 1000 grass slips/plants on trenches (3 times)	Plant	3000	1.99	3776.52	2192.43	5968.95
12	Weeding and hoeing of 200 plants	Plant	200	2.92	584.90	0.00	584.90
13	Application of urea and fertilizer (200 Plants)	Plant	200	0.55	71.00	39.59	110.59
14	Raising of 40 plants for casualty replacement	Plant	40	7.90	206.53	109.49	316.02
15	Running & Maintenance of Vehicles	Prorata	1	110.21	0.00	110.21	110.21
16	Maintenance of Engine.	Prorata	1	72.76	0.00	72.76	72.76
17	Labour amenities	Prorata	1	145.52	0.00	145.52	145.52
18	Watch & Ward for 12 months	Prorata	1	1330.97	1330.97	0.00	1330.97
19	Misc. and unforeseen expenditure	Prorata	1	80.10	39.44	40.66	80.10
TOTAL PLANTING YEAR 1					17974	5979	23953

YEAR 2 - MAINTANANCE-I

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 40 plants in Nursery	Plant	40	1.87	56.36	18.35	74.71
2	Transportation of 40 plants from nursery to site for casualty replacement including loading and unloading(upto 5km)	Plant	40	1.63	58.60	6.42	65.02
3	Planting for casualty replacement including treatment, local transport and watering 40 Plants	Plant	40	10.26	369.65	40.66	410.31
4	Irrigation -					0.00	
a	Before casualty replacement					0.00	
i	160 plants watering 1 time	Plant	160	3.62	371.90	206.51	578.41
ii	750 grass slips/plants on trenches - 1 watering	Plant	750	1.97	930.89	544.63	1475.52
b	After casualty replacement					0.00	
i	200 plants- 2 waterings	Plant	400	3.62	929.76	516.81	1446.57
ii	750 grass slips/plants on trenches - 1 watering	Plant	750	1.97	929.76	545.70	1475.46
5	Running & Maintenance of Vehicles	Protata	1	110.21	0.00	110.21	110.21
6	Maintenance of Engine.	Protata	1	110.21	0.00	110.21	110.21
7	Labour amenities	Protata	1	184.04	0.00	184.04	184.04
8	Purchase of PVC pipes of 1 Inch dia	Protata	1	197.95	0.00	197.95	197.95
9	Watch & Ward for 12 months	Protata	1	1329.84	1329.84	0.00	1329.84
10	Miscellaneous and unforeseen expenditure	Protata	1	158.87	94.67	64.20	158.87
Total Year 2					5071	2546	7617

(Sudhir Jain)

DCF (Plan)

प्रशासन

(Priya Ranjan)

CCF (Plan)

YEAR 3 - MAINTENANCE-II							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch & Ward charges for 12 months	Prorata	1	1329.84	1329.84	0.00	1329.84
2	Irrigation of plants-					0.00	
	Watering - 2 times (180 plants)	Plant	360	3.62	839.60	463.31	1302.91
3	Maintenance of Engine with oil etc.	Prorata	1	72.76	0.00	72.76	72.76
4	Miscellaneous and unforeseen expenditure	Prorata	1	60.23	48.46	11.77	60.23
Total Year 3					2218	548	2766
YEAR 4 : MAINTENANCE-III							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch & Ward charges for 12 months	Prorata	1	1329.84	1329.84	0.00	1329.84
2	Irrigation of plants-					0.00	
	Watering - 2 times (180 plants)	Plant	360	3.62	839.60	463.31	1302.91
3	Maintenance of Engine with oil etc.	Prorata	1	72.76	0.00	72.76	72.76
4	Miscellaneous and unforeseen expenditure	Prorata	1	60.23	48.46	11.77	60.23
Total Year 4					2218	548	2766
YEAR 5 : MAINTENANCE-IV							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch & Ward charges for 12 months	Prorata	1	1329.84	1329.84	0.00	1329.84
2	Fencing repairing etc	Prorata	1	51.83	30.43	21.40	51.83
Total Year 5					1360	21	1382
YEAR 6 : MAINTENANCE-V							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch & Ward charges for 12 months	Prorata	1	1329.84	1329.84	0.00	1329.84
2	Fencing repairing etc	Prorata	1	51.83	30.43	21.40	51.83
Total Year 6					1360	21	1382
YEAR 7 : MAINTENANCE-VI							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch & Ward charges for 4 months	Prorata	1	444.03	444.03	0.00	444.03
2	Fencing repairing etc	Prorata	1	55.21	33.81	21.40	55.21
Total Year 7					478	21	499
Yearwise Cost Statement - silvi-pastoral plantation in IGNP area							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION				8108	11531	19640
2	YEAR 1 - PLANTING YEAR				17974	5979	23953
3	YEAR 2 - MAINTENANCE I				5071	2546	7617
4	YEAR 3 - MAINTENANCE II				2218	548	2766
5	YEAR - 4 MAINTENANCE III				2218	548	2766
6	YEAR - 5 MAINTENANCE IV				1360	21	1382
7	YEAR - 6 MAINTENANCE V				1360	21	1382
8	YEAR - 7 MAINTENANCE VI				478	21	499
Grand Total					38788	21216	60004

नोट :- मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है।
कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/ परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें।

(Sudhir Jain)

DCF (Plan) अधिक (प्रशासन)

जन मर्यादा वन संरक्षक

(Priya Ranjan)

CCF (Plan)

Model Cost Norms silvi-pastoral plantation in Non-IGNP area

Labour rate Rs. 213/- per day

Unit- 50 Ha

Perimeter - Average 3000 RM (1000 MX500M)

No. of Plants- 200

Spacing - 5MX5M

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
YEAR- 0 Advance Action							
1	Collection of data for Microplanning, preparation of microplan and management plan	Prorata	1	174.66	131.86	42.80	174.66
2	Survey of area, alignment of pits for pole fixing, division of area into segments, preparation of treatment map and plantation card.	Prorata	1	369.40	322.32	47.08	369.40
3	Fencing of plantation area with 1.5 mt. high Angle iron / RCC Post and 4 strand barbed wire / local thorny material or 1.50 m angle iron post and two lines of wire and 1.2 M broad welded wiremesh (details given at annexure "A" for Angle Iron, annexure "B" for RCC Post, C for wire mesh) 60 M	Meter	60	151.48	4027.84	5061.10	9088.94
4	Raising of 240 plants for planting including 20% extra	Plant	240	7.90	1239.16	656.94	1896.10
5	Raising of Sewan Grass and plants in 10cmX15					0.00	
a	Sewan Grass 960 slips	Plant	960	2.02	1190.32	750.72	1941.04
b	Other indigineous plants like ber khejari, raunj ,etc. 240 plants	Plant	240	2.02	297.58	187.68	485.26
6	Construction of water storage tanks/Water harvesting structures	Prorata	1	849.72	426.00	423.72	849.72
7	Purchase of tools, plants & insecticides	Prorata	1	147.66	0.00	147.66	147.66
8	Purchase of fertilizers, DAP & Urea Vermi compost, NPK	Prorata	1	176.55	0.00	176.55	176.55
9	Sign board including painting and fixing	Prorata	1	110.21	0.00	110.21	110.21
10	Purchase of seeds of Sewan grass/ Ber/Khejari and other indogenous species (6 Kg/Ha)	Prorata	1	642.00	0.00	642.00	642.00
11	Construction of Cattle guard hut	Prorata	1	615.39	426.00	189.39	615.39
12	R & M of Vehicle	Prorata	1	184.04	0.00	184.04	184.04
13	Labour amenities	Prorata	1	68.48	0.00	68.48	68.48
14	Watch & Ward for 4 months	Prorata	1	444.03	444.03	0.00	444.03
15	Misc. and unforeseen expenditure	Prorata	1	111.58	27.05	84.53	111.58
TOTAL YEAR 0					8532	8773	17305

(Sudhir Jain)

DCF (Plan)

(Priya Ranjan)

CCF (Plan)

YEAR 1 - PLANTING YEAR							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 240 plants in Nursery	Plant	240	1.87	338.16	110.07	448.23
2	Maintenance of Sewan Grass and plants in 10cmX15 cm bags (includes 20% extra)					0.00	
a	Sewan Grass (960)	Plant	960	1.19	795.43	346.75	1142.18
b	Other indigineous plants like ber khejari, raunj, etc. (240)	Plant	240	1.19	198.86	86.69	285.54
3	600 m trench digging- of size 20cm deepX30cm at bottom and 50 cms at top- for irrigation	Meter	600	1.76	1054.86	0.00	1054.86
4	Transport of 220 plants upto site including loading and unloading (upto 5 kms.)	Plant	220	1.63	333.59	24.61	358.20
5	Transport of 800 grass slips and 200 plants raised in 10 cmX15cm bags upto site including loading and unloading (upto 5 kms.)	Plant	1000	0.73	730.29	0.00	730.29
6	Mulching on shifting sand dunes (200 m/Ha)	Meter	200	7.17	1433.52	0.00	1433.52
7	Sowing of grass seeds	Prorata	1	192.71	192.71	0.00	192.71
8	Planting					0.00	
	a. Digging of 45 cm×45 cm×45 cm pit and planting of 200 plants	Pit	200	13.08	2416.25	199.02	2615.27
	b. Planting of 800 grass slips and 200 pre-germinated plants, including local transport and watering	Plant	1000	2.49	1753.59	731.88	2485.47
9	Watering of 200 plants (4 times)	Plant	200	44.98	7770.56	1225.15	8995.71
10	Weeding and hoeing of 200 plants	Plant	200	2.93	586.03	0.00	586.03
11	Hoeing of 200 plants 3 times	Meter	600	1.76	1054.86	0.00	1054.86
12	Application of urea and fertilizer (200 Plants)	Plant	200	0.55	72.13	38.52	110.65
13	Raising of 40 plants for casualty replacement	Plant	40	7.90	206.53	109.49	316.02
14	Running & Maintenance of Vehicles	Prorata	1	110.21	0.00	110.21	110.21
15	Labour amenities	Prorata	1	147.66	0.00	147.66	147.66
16	Watch & Ward for 12 months	Prorata	1	1329.84	1329.84	0.00	1329.84
17	Misc. and unforeseen expenditure	Prorata	1	85.63	42.83	42.80	85.63
TOTAL PLANTING YEAR 1					20310	3173	23483
YEAR 2 - MAINTANANCE-I							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 40 plants in Nursery	Plant	40	1.87	56.36	18.35	74.71
2	Transportation of 40 plants from nursery to site for casualty replacement including loading and unloading(upto 5km)	Plant	40	1.63	58.60	6.42	65.02
3	Planting for casualty replacement including treatment, local transport and watering 40 Plants	Plant	40	10.23	369.65	39.59	409.24
4	Irrigation					0.00	
	A. Before casualty replacement-					0.00	
	160 plants- watering- one time	Plant	160	11.24	1554.11	245.03	1799.14
	B. After casualty replacement-					0.00	
	200 plants -2 waterings	Plant	400	11.24	3885.84	612.04	4497.88
5	Hoeing of 200 plants 3 times	Meter	600	1.76	1054.86	0.00	1054.86
6	Running & Maintenance of Vehicles	Protata	1	110.21	0.00	110.21	110.21
7	Labour amenities	Protata	1	184.04	0.00	184.04	184.04
8	Watch & Ward for 12 months	Protata	1	1329.84	1329.84	0.00	1329.84
9	Misc. and unforeseen expenditure	Protata	1	158.75	92.41	66.34	158.75
Total Year 2					8402	1282	9684

(Sudhir Jain)

DCF (Plan) (प्रशासन)

(Priya Ranjan)

CCF (Plan)

YEAR 3 - MAINTENANCE-II							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch & Ward charges for 12 months	Prorata	1	1329.84	1329.84	0.00	1329.84
2	Irrigation of plants					0.00	
	a. Watering - 2 times (180 plants)	Plant	360	11.24	3493.65	553.19	4046.84
3	Hoeing of 180 plants 2 times	Meter	360	1.79	644.63	0.00	644.63
4	Misc. and unforeseen expenditure	Prorata			46.21	8.56	54.77
Total Year 3					5514	562	6076
YEAR 4 : MAINTENANCE-III							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch & Ward charges for 12 months	Prorata	1	1329.84	1329.84	0.00	1329.84
2	Irrigation of plants-					0.00	
	Watering - 2 times (180 plants)	Plant	360	11.24	3493.65	554.26	4047.91
3	Hoeing of 180 plants 2 times	Meter	360	1.79	644.63	0.00	644.63
4	Misc. and unforeseen expenditure	Prorata	1	54.77	46.21	8.56	54.77
Total Year 4					5514	563	6077
YEAR 5 : MAINTENANCE-IV							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch & Ward charges for 12 months	Prorata	1	1329.84	1329.84	0.00	1329.84
2	Fencing repairing etc	Prorata	1	51.89	31.56	20.33	51.89
Total Year 5					1361	20	1382
YEAR 6 : MAINTENANCE-V							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch & Ward charges for 12 months	Prorata	1	1329.84	1329.84	0.00	1329.84
2	Fencing repairing etc	Prorata	1	51.89	31.56	20.33	51.89
Total Year 6					1361	20	1382
YEAR 7 : MAINTENANCE-VI							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch & Ward charges for 4 months	Prorata	1	444.03	444.03	0.00	444.03
2	Fencing repairing etc	Prorata	1	53.97	30.43	23.54	53.97
Total Year 7					474	24	498
Grand Total					51470	14417	65886
Yearwise Cost Statement - silvi-pastoral plantation in Non-IGNP area							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION				8532	8773	17305
2	YEAR 1 - PLANTING YEAR				20310	3173	23483
3	YEAR 2 - MAINTENANCE I				8402	1282	9684
4	YEAR 3 - MAINTENANCE II				5514	562	6076
5	YEAR - 4 MAINTENANCE III				5514	563	6077
6	YEAR - 5 MAINTENANCE IV				1361	20	1382
7	YEAR - 6 MAINTENANCE V				1361	20	1382
8	YEAR - 7 MAINTENANCE VI				474	24	498
Grand Total					51470	14417	65886

नोट :- मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है।
कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/ परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें।

(Sudhir Jain)

DCF (Plan) (प्रशासन)

(Priya Ranjan)

CCF (Plan)

(पिरा चंनन)

Model Cost Norms for RDF I

Labour rate Rs. 213/- per day

Unit- 50 Ha

Perimeter - Average 3000 RM (1000 MX500M)

No. of Plants - 500

Spacing- 4MX5M

S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
YEAR- 0 Advance Action							
1	Collection of data for Microplanning, preparation of microplan and management plan	Prorata			497.00	50.29	547.29
2	Survey of area, Layout of contour trenches/Furrows, Pits and marking of segments/plots	Prorata			389.94	50.29	440.23
3	Fencing by stone wall and or by ditch.						
a	Stone wall fencing 1.20m high 0.80m at base & 0.60 at top(on an average 30m/ha.)	Meter	30	213.00	6390.00	0.00	6390.00
b	Ditch fencing 1.20m deep, 1.50m wide at top & 0.90m at bottom(on an average 30m/ha.)	Meter	30	230.96	6928.70	0.00	6928.70
4	Cost of raising 550 seedlings	Plant	550	7.90	2839.73	1505.49	4345.23
5	Raising of 240 plants in 10cmX15 cm bags for planting on mounds of trenches and V ditches(includes 20% extra)	Plant	240	2.02	297.58	187.68	485.26
6	Digging up Trenches :					0.00	
a.	Digging up 100 rmt Staggered Contour Trenches with cross section size: $0.6 \times ((1.05 + 0.45)/2)$ Sqmt. in area with 6-20% slop .	Meter	100	55.85	5918.43	0.00	5918.43
b.	Digging up 80 rmt Continuous Contour Trenches with cross section size: $0.6 \times ((1.70 + 0.5)/2)$ Sqmt. in area with 3-6% slop	Meter	80	81.91	6944.01	0.00	6944.01
c.	Digging up 20 rmt Deep Continuous Contour Trenches with cross section size: $1.0 \times ((1.50 + 0.5)/2)$ Sqmt. in area with 0-3% slop	Meter	20	124.10	2630.18	0.00	2630.18
7	Digging of 300 pits size: $0.45 \times ((0.4 + 0.5)/2)$ cum	Plant	300	16.67	5000.43	0.00	5000.43
8	Cost of collection and purchases of grass and other seeds	Prorata			0.00	284.62	284.62
9	Restoration of natural regeneration by cultural operations and making crescent shaped mounds on the lower side of seedlings	Prorata			1065.00	0.00	1065.00
10	In situ Soil & Moisture Conservation measures like Check dams, Nadis, Earthen Bunds etc.	Prorata			4083.06	0.00	4083.06
11	Construction of Thatched cattle guard hut.	Prorata			213.00	36.38	249.38
12	Purchase or construction of Water storage Tank	Prorata			0.00	60.99	60.99
13	Purchase of tools and plants	Prorata			0.00	90.95	90.95
14	Labour amenities	Prorata			77.76	70.62	148.38
15	watch and ward for 4 months	Prorata			444.03	0.00	444.03
16	Misc. and unforeseen expenses including running of vehicles	Prorata			192.71	49.22	241.93
Total 0 year					43912	2387	46298

(Sudhir Jain)
DCF (Plan)

(Priya Ranjan)
CCF (Plan)

YEAR : 1 PLANTATION YEAR

S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maint. of 550 seedling in Nursery	Plant	550	1.87	774.95	252.25	1027.20
2	Maintenance of 240 plants in 10cmX15 cm bags	Plant	240	1.19	198.86	86.69	285.54
3	Digging of 200 pits size 0.45X(0.4+.5)/2 Cum	Plant	200	16.67	3333.62	0.00	3333.62
4	Digging of 30cmx30cm cross section trench along inner side of stone wall fencing and seed sowing 30 m	Meter	30	17.67	517.29	12.84	530.13
5	Sowing/dibbling of seeds of grass/thorny Tree species on the mound of trenches and ditch fencing 230 m	Meter	230	0.55	127.16	0.00	127.16
6	Purchase of fertilizers and insecticide and its application	Prorata			1669.06	444.05	2113.11
7	Sowing of pellets of grass seeds / pieces of seed mud cakes in between rows & pits	Prorata			482.35	0.00	482.35
8	Transport of 500 seedlings from Nursery to planting site	Plant	500	1.31	637.87	14.98	652.85
9	Planting of 500 seedlings including Refilling of pits	Plant	500	3.89	1944.05	0.00	1944.05
10	Transport 200 plants raised in 10 cmX15cm bags upto site including loading and unloading (upto 5 kms.)	Plant	200	0.72	144.25	0.00	144.25
11	Planting of 200 pre-germinated plants, including local transport and watering	Plant	200	2.49	351.62	145.52	497.14
12	Restoration of natural regeneration by making crescent shaped mounds on the lower slope of 150 seedlings and saplings	Plant	150	3.89	583.78	0.00	583.78
13	Making of crescent shaped mounds below 500planted saplings after planting and dibbing of 3 seeds of thorny tree species.	Plant	500	3.39	1696.11	0.00	1696.11
14	Weeding and Hoeings of 500 plants two times with repairing plants mound	Plant	1000	3.39	3392.22	0.00	3392.22
15	Weeding on contour trenches and espacement/singling	Prorata			497.00	0.00	497.00
16	Restoration of natural regeneration by cultural operations and making crescent shaped mounds on the lower side of seedlings	Prorata			1065.00	0.00	1065.00
17	Raising of 10% Plants (55) in Nursery for casualty replacement in year 2	Plant	55	7.90	283.97	150.55	434.52
18	Watch and ward charges for 12 months	Prorata			1330.97	0.00	1330.97
19	Labour hut etc	Prorata			308.79	40.66	349.45
20	Construction of approach roads/inspection path	Prorata			361.76	0.00	361.76
21	Construction of gate and fixing of sign boards	Prorata			482.35	69.55	551.90
22	Misc. and unforeseen expences including (additional watering, fencing and frost protection measures and running of vehicles etc.)	Prorata			191.59	105.93	297.52
TOTAL YEAR 1					20375	1323	21698

(Sudhir Jain)

DCF (Plan)

(Priya Ranjan)

CCF (Plan)

YEAR 2 : MAINTENANCE-I							
S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maint. of 55 plants in nursery	Plant	55	1.87	77.50	25.22	102.72
2	Repair of Fencing	Prorata			213.00	0.00	213.00
3	Casualty replacement of 50 plants (10%) including redigging of pits, transportation planting, watering and application of insecticide	Plant	50	11.13	534.19	22.47	556.66
4	Weeding and Hoeing in 500 plants two times and repairing of mounds	Plant	1000	3.39	3392.22	0.00	3392.22
5	Watch and ward charges for 12 months	Prorata			1330.97	0.00	1330.97
6	Misc. and Unforeseen expenses including (Repair of Structures, Subsidiary silvicultural operations, Frost Protection, etc.)	Prorata			233.29	114.49	347.78
TOTAL YEAR 2					5781	162	5943
YEAR 3 : MAINTENANCE-II							
S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch and ward charges for 12 Months	Prorata			1330.97	0.00	1330.97
2	Expenditure on Maintenance including (Repair of fencing/Structures, Subsidiary silvicultural operations, Frost Protection, etc.)	Prorata			396.70	123.05	519.75
TOTAL YEAR 3.					1728	123	1851
YEAR 4 : MAINTENANCE-III							
S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch and ward charges for 12 Months	Prorata			1330.97	0.00	1330.97
2	Expenditure on Maintenance including (Repair of fencing/Structures, Subsidiary silvicultural operations, Frost Protection, etc.)	Prorata			396.70	123.05	519.75
TOTAL YEAR 4					1728	123	1851
Grand Total					73523	4118	77641

Yearwise Cost Statement RDF I

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION				43912	2387	46298
2	YEAR 1 - PLANTING YEAR				20375	1323	21698
3	YEAR 2 - MAINTENANCE I				5781	162	5943
4	YEAR 3 - MAINTENANCE II				1728	123	1851
5	YEAR - 4 MAINTENANCE III				1728	123	1851
Grand Total					73523	4118	77641

नोट :- मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है। कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें।डीप सीसीटी, सीसीटी एवं स्टेगर्ड कन्दूर ट्रेन्च बनाते समय क्षेत्र में विद्यमान पेड़ों को क्षति नहीं पहुंचाई जाये

(Sudhir Jain)
DCF (Plan) (प्रशासन)

(Priya Ranjan)
CCF (Plan)

Model Cost Norms for RDF II

Labour rate Rs. 213/- per day

Unit - 50 Ha

Perimeter - Average 3000 RM (1000 MX500M)

No. of Plants - 200

S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
YEAR- 0 Advance Action							
1	Collection of data for Microplanning, preparation of microplan and management plan	Prorata			497.00	50.29	547.29
2	Survey of area, Layout of contour trenches/Furrows, Pits and marking of segments/plots	Prorata			389.94	50.29	440.23
3	Fencing by stone wall and/ or by ditch.					0.00	
a	Stone wall fencing 1.20m high 0.80m at base & 0.60 at top(on an average 30m/ha.)	Meter	30	213.00	6390.00	0.00	6390.00
b	Ditch fencing 1.20m deep, 1.50m wide at top & 0.90m at bottom(on an average 30m/ha.)	Meter	30	230.96	6928.70	0.00	6928.70
4	Cost of raising 220 seedlings	Plant	220	7.90	1135.89	602.20	1738.09
5	Raising of 240 plants in 10cmX15 cm bags for planting on mounds of trenches and V ditches(includes 20% extra)	Plant	240	2.02	297.58	187.68	485.26
6	Digging up Trenches :					0.00	
a.	Digging up 100 rmt Staggered Contour Trenches with cross section size: $0.6 \times ((1.05 + 0.45)/2)$ Sqmt. in area with 6-20% slop (assuming 30% area falls in this category).	Meter	100	55.85	5918.43	0.00	5918.43
b.	Digging up 80 rmt Continuous Contour Trenches with cross section size: $0.6 \times ((1.70 + 0.5)/2)$ Sqmt. in area with 3-6% slop (assuming 40% area falls in this category).	Meter	80	81.91	6944.01	0.00	6944.01
c.	Digging up 20 rmt Deep Continuous Contour Trenches with cross section size: $1.0 \times ((1.50 + 0.5)/2)$ Sqmt. in area with 0-3% slop (assuming 30% area falls in this category).	Meter	20	124.10	2630.18	0.00	2630.18
7	Digging of 200 pits size: $0.45 \times ((.4 + .5)/2)$ cum	Plant	200	16.67	3333.62	0.00	3333.62
8	Cost of collection and purchases of grass and other seeds	Prorata			0.00	428.00	428.00
9	Restoration of natural regeneration by cultural operations and making crescent shaped mounds on the lower side of seedlings	Prorata			1065.00	0.00	1065.00
10	In situ Soil & Moisture Conservation measures like Check dam, Nadis, Earthen Bunds etc.	Prorata			4083.06	0.00	4083.06
11	Construction of Thatched cattle guard hut.	Prorata			213.00	36.38	249.38
12	Purchase or construction of Water storage Tank	Prorata			0.00	60.99	60.99
13	Purchase of tools and plants	Prorata			0.00	90.95	90.95
14	Labour amenities	Prorata			77.76	70.62	148.38
15	Watch and Ward for 4 months	Prorata			444.03	0.00	444.03
16	Misc. and unforeseen expenses including running of vehicles	Prorata			201.73	47.08	248.81
Total 0 year					40550	1624	42174

(Sudhir Jain)
DCF (Plan) अधिक प्रशासन

(Priya Ranjan)
CCF (Plan)

YEAR : 1 PLANTATION YEAR

S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 220seedling in nursery	Plant	220	1.87	309.98	100.90	410.88
2	Maintenance of 240 plants in 10cmX15 cm bags	Plant	240	1.19	198.86	86.69	285.54
3	In situ Soil & Moisture Conservation measures like Check dam, Nadis, Earthen Bunds etc.	Prorata			2414.00	201.16	2615.16
4	Digging of 30cmx30cm cross section trench along inner side of stone wall fencing and seed sowing (30 M / Ha)	Meter	30	17.77	533.06	0.00	533.06
5	Sowing/dibbling of seeds of grass, trees and shrubs including seeds of medicinal plants on the mounds of trench/ditch fencing (230 M)	Meter	230	0.55	127.16	0.00	127.16
6	sowing of grass seeds including raking in the interspace	Prorata			482.35	0.00	482.35
7	Transportation of 200 plants from nursery to planting site	Plant	200	1.26	205.11	47.08	252.19
8	Planting of 200 seedlings including Refilling of pits	Plant	200	3.86	749.44	22.47	771.91
9	Transport 200 plants raised in 10 cmX15cm bags upto site including loading and unloading (upto 5 kms.)	Plant	200	0.78	155.52	0.00	155.52
10	Planting of 200 pre germinated plants, including local transport and watering	Plant	200	2.49	351.62	145.52	497.14
11	Purchase and application of insecticide and fertilizer in 200 plants	Prorata			653.65	187.25	840.90
12	Making of crescent shaped mounds below planted sapling after planting and dibbing of 3 seeds of thorny tree species (200 saplings).	Plant	200	3.38	676.19	0.00	676.19
13	Weeding and Hoeings of 200 plants two time repairing plants mound	Plant	400	3.38	1352.38	0.00	1352.38
14	Weeding on Contour Trench/ V ditch and espacement /singling	Prorata			438.40	0.00	438.40
15	Restoration of natural regeneration by cultural operations and making crescent shaped mounds on the lower side of seedlings	Prorata			1065.00	0.00	1065.00
16	Raising of 10% Plants (20 plants) in Nursery for casualty replacement in year 2	Plant	20	7.90	103.26	54.75	158.01
17	Watch and ward charges for 12 months	Prorata			1330.97	0.00	1330.97
18	Labour hut etc	Prorata			308.79	40.66	349.45
19	Construction of approach roads/inspection path	Prorata			361.76	0.00	361.76
20	Construction of gate and fixing of sign boards	Prorata			482.35	69.55	551.90
21	Misc. and unforeseen expences including (additional watering, fencing and frost protection measures and running of vehicles etc.)	Prorata			206.24	216.14	422.38
TOTAL YEAR 1					12506	1172	13678

(Sudhir Jain)

DCF (Plan)क (प्रशासन)

(Priya Ranjan)
CCF (Plan)

YEAR 2 : MAINTENANCE-I							
S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 20 plants in nursery	Plant	20	1.87	28.18	9.17	37.35
2	Repair of Fencing	Prorata			213.00	0.00	213.00
3	Casualty replacement of 20 plants (10%) including redigging of pits, transportation planting, watering and application of insecticide	Plant	20	11.13	213.00	9.63	222.63
4	Weeding and Hoeing in 200 plants two times and repairing of plant mounds	Plant	400	3.38	1352.38	0.00	1352.38
5	Watch and ward charges for 12 months	Prorata			1330.97	0.00	1330.97
6	Misc. and Unforeseen expenses including (Repair of Structures, Subsidiary silvicultural operations, Frost Protection, etc.)	Prorata			184.83	123.05	307.88
TOTAL YEAR 2					3322	142	3464

YEAR 3 : MAINTENANCE-II							
S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch and ward charges for 12 Months	Prorata			1330.97	0.00	1330.97
2	Expenditure on Maintenance including (Repair of fencing/Structures, Subsidiary silvicultural operations, Frost Protection, etc.)	Prorata			388.81	123.05	511.86
TOTAL YEAR 3					1720	123	1843

YEAR 4 : MAINTENANCE-III							
S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch and ward charges for 12 Months	Prorata			1330.97	0.00	1330.97
2	Expenditure on Maintenance including (Repair of fencing/Structures, Subsidiary silvicultural operations, Frost Protection, etc.)	Prorata			388.81	128.40	517.21
TOTAL YEAR4					1720	128	1848
Grand Total					59818	3190	63008

Yearwise Cost Statement RDF II

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION				40550	1624	42174
2	YEAR 1 - PLANTING YEAR				12506	1172	13678
3	YEAR 2 - MAINTENANCE I				3322	142	3464
4	YEAR 3 - MAINTENANCE II				1720	123	1843
5	YEAR - 4 MAINTENANCE III				1720	128	1848
Grand Total					59818	3190	63008

नोट :- मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है। कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें। डीपी सीसीटी, सीसीटी एवं स्टेगर्ड कन्दूर ट्रेन्च बनाते समय क्षेत्र में विद्यमान पेड़ों को क्षति नहीं पहुंचाई जाये।

(Sudhir Jain)
DCF (Plan)

(Priya Ranjan)
CCF (Plan)

Model Cost Norms for Fuelwood plantation

Labour rate Rs. 213/- per day

Unit- 50 Ha

Perimeter - Average 3000 RM (1000 MX500M)

No. of Plants- 500

Spacing- 4MX5M

S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
YEAR- 0 Advance Action							
1	Collection of data for Microplanning, preparation of microplan and management plan	Prorata	1	415.50	387.68	27.82	415.50
2	Survey of area, Layout of contour trenches/Furrows, Pits and marking of segments/plots	Prorata	1	440.23	389.94	50.29	440.23
3	Ditch fencing 1.20 m deep, 1.50m Wide at Top and 0.90 m at Bottom 90m in length	Meter	90	230.82	20773.70	0.00	20773.70
4	Digging of 300m contour trenches of 45cm x 45 cm cross section	Meter	300	26.61	7982.43	0.00	7982.43
5	Cost of raising 880 seedlings	Plant	880	6.31	3366.44	2186.76	5553.20
6	Digging of 400 Pits size 0.45 X (0.4+0.5)/2 cum	Pit	400	13.52	5409.52	0.00	5409.52
7	Cost of collection and purchase of grass and other seeds	Kg.	2.5	107.00	0.00	267.50	267.50
8	Construction of Thatched cattle guard hut	Prorata	1	628.88	481.22	147.66	628.88
9	Construction of water storage tank	Prorata	1	822.02	724.65	97.37	822.02
10	Purchase of tools and plants	Prorata	1	181.90	0.00	181.90	181.90
11	Labour amenities	Prorata	1	464.79	304.29	160.50	464.79
12	Watch and ward charges for 4 Months	Prorata	1	444.03	444.03	0.00	444.03
13	Provision for additional fencing based on actual requirement	Prorata	1	11538.06	11538.06	0.00	11538.06
14	Misc. and unforeseen expenses including running of vehicles	Prorata	1	287.74	231.03	56.71	287.74
TOTAL 0 YEAR					52033	3177	55210
YEAR 1 PLANTATION YEAR							
S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maint. of 880 seedlings in Nursery	Plant	880	2.16	1431.58	467.66	1899.24
2	Digging of 400 pits size 0.45x (0.4 + 0.5)/2 cum	Pit	400	13.52	5409.52	0.00	5409.52
3	Sowing/Dibbing of seeds of grass thorny bushes on trench mound V-ditch Fencing in three lines. 390 meter	Meter	390	0.47	184.83	0.00	184.83
4	Sowing of grass seeds including raking in the interspaces	Prorata	1	1021.37	900.46	120.91	1021.37
5	Transport of 800 seedlings from Nursery to planting site	Plant	800	1.30	1007.52	33.17	1040.69
6	Planting of 800 seedlings including refilling of pits	Plant	800	3.88	3101.46	0.00	3101.46
7	Construction of crescent shaped mounds below the planting pits 800 plants	Plant	800	3.39	2713.78	0.00	2713.78
8	Weeding and Hoeing of 800 plants- Two times and repairing of mounds	Plant	1600	3.39	5427.56	0.00	5427.56
9	One hoeing of 800 plants	Plant	800	1.95	1559.75	0.00	1559.75
10	Cost of raising 88 plants in Nursery for casualty replacement in year 2	Plant	88	6.31	336.64	218.68	555.32
11	Watch and Ward charges for 12 Months	Prorata	1	1330.97	1330.97	0.00	1330.97
12	Cost of insecticide and Fertiliser & its application	Prorata	1	3405.62	2726.17	679.45	3405.62
13	Labour amenities etc.	Prorata	1	146.87	90.16	56.71	146.87
14	Weeding on contour trenches/V-ditches and espacement/singling- (407 rmt)	Meter	407	1.64	669.43	0.00	669.43
15	In situ Soil & Moisture Conservation measures like Check dams/Nadis, Earthen Bunds etc.	Prorata	1	639.00	639.00	0.00	639.00
16	Construction of approach roads/inspection path	Prorata	1	231.03	231.03	0.00	231.03
17	Construction of gate and fixing of sign boards	Prorata	1	859.73	497.00	362.73	859.73
18	Misc. and unforeseen expences including (additional watering, fencing and frost protection measures and running of vehicles etc.)	Prorata	1	212.73	144.25	68.48	212.73
TOTAL YEAR 1					28401	2008	30409

(Sudhir Jain)

DCE (Plan)

(Priya Ranjan)

CCF (Plan)

रतन सिंह (प्रशासक)

YEAR 2 : MAINTENANCE-I							
S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 88 Plants in Nursery	Plant	88	2.16	143.16	46.77	189.92
2	Repair of fencing	Prorata	1	231.03	231.03	0.00	231.03
3	Casualty replacement of 80 plants including Redigging of Pits, Transportation, Planting, watering and application of insecticides	Plant	80	11.50	919.62	0.00	919.62
4	Two weedings and hoeings in 800 Plants and repairing of plant mounds	Plant	1600	3.39	5427.56	0.00	5427.56
5	Watch and Ward charges for 12 Months	Prorata	1	1330.97	1330.97	0.00	1330.97
6	Misc. and unforeseen expenditure including (repairing of structures, pruning and frost protection measures)	Prorata	1	254.08	157.78	96.30	254.08
TOTAL YEAR 2					8210	143	8353
YEAR 3 : MAINTENANCE-II							
S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch and Ward charges for 12 Months	Prorata	1	1330.97	1330.97	0.00	1330.97
2	Misc. and Unforeseen expenses	Prorata	1	174.03	119.46	54.57	174.03
TOTAL YEAR 3					1450	55	1505
YEAR 4 : MAINTENANCE-III							
S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch and Ward charges for 12 Months	Prorata	1	1330.97	1330.97	0.00	1330.97
2	Misc. and Unforeseen expenses	Prorata	1	174.03	119.46	54.57	174.03
TOTAL YEAR 4					1450	55	1505
Grand Total					91545	5436	96982

Yearwise Cost Statement Fuelwood plantation

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION				52033	3177	55210
2	YEAR 1 - PLANTING YEAR				28401	2008	30409
3	YEAR 2 - MAINTENANCE I				8210	143	8353
4	YEAR 3 - MAINTENANCE II				1450	55	1505
5	YEAR - 4 MAINTENANCE III				1450	55	1505
Grand Total					91545	5436	96982

नोट :- मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है। कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें।

(Sudhir Jain)
DCF (Plan) (प्रशासन)

(Priya Ranjan)
CCF (Plan)

MODEL COST ESTIMATES FOR PRODUCTIVITY ENHANCEMENT OPERATIONS

UNIT ; 50 Ha.

PERIMETER ; 60 M/Ha.

Labour rate Rs. 213/- per day

COST ESTIMATE IN Rs./Ha.

S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
Year 0 ADVANCE ACTION							
1	Collection of data for Microplanning, preparation of microplan and management plan	Prorata	1	547.29	497.00	50.29	547.29
2	Survey and layout	Prorata	1	440.23	389.94	50.29	440.23
3	Fencing -				0.00	0.00	
a	Dry random rubble stone wall fencing 1.20 metre Height, 0.80 metre wide at base and 0.60 metre wide at Top (0.84 cubic metre for one running metre)-on an Average 30 metre per Ha	Meter	30	213.00	6390.00	0.00	6390.00
b	Ditch fencing 1.20 metre deep, 1.50 metre wide at top and 0.80 metre at bottom-on an average 30 metre per Ha	Meter	30	230.96	6928.70	0.00	6928.70
4	Cultural operations in bamboo clumps and Inducing root suckers (in indigenous plants like tendu, salar, shyonak, padal, etc.) by making 10 m long trenches of 20 cmX20 cm on downward slope (in all 150 plants to be treated)	Plant	150	60.35	9053.06	0.00	9053.06
5	Cutback/singling of stumps and restoration of Natural regeneration of other species	Prorata	1	1775.00	1775.00	0.00	1775.00
6	Construction of loose rubble stone check dams	Prorata	1	3100.50	2997.78	102.72	3100.50
7	Construction of approach road and inspection path	Prorata	1	232.16	232.16	0.00	232.16
8	Construction of thatched cattleguard hut	Prorata	1	185.86	120.59	65.27	185.86
9	Purchase of signboard and their fixing	Prorata	1	83.02	12.40	70.62	83.02
10	Construction of gate and its fixing	Prorata	1	146.74	66.49	80.25	146.74
11	Purchase of tools and plants	Prorata	1	60.99	0.00	60.99	60.99
12	Watch and ward for 6 months	Prorata	1	664.92	664.92	0.00	664.92
13	Miscellaneous and unforeseen expenses	Prorata	1	243.21	154.40	88.81	243.21
Total					29282	569	29852
YEAR-1							
S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Repair of fencing	Prorata	1	224.77	213.00	11.77	224.77
2	Watch and ward for 12 months	Prorata	1	1330.97	1330.97	0.00	1330.97
3	Miscellaneous and unforeseen expenses	Prorata	1	113.96	52.97	60.99	113.96
Total					1597	73	1670
Grand Total					30879	642	31521
Yearwise Cost Statement							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION				29282	569.24	29852
2	YEAR 1 - PLANTING YEAR				1597	72.76	1670
Grand Total					30879	642	31521

नोट :- मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है। कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें।

(Sudhir Jain)

CCF (Plan) क (प्रशासन)

उत्तम प्रथम नमः २०२०

(Priya Ranjan)

CCF (Plan)

Closure for Biodiversity Conservation

Unit : 50 Ha
 Perimeter: 60 M/Ha
 Labour rate Rs. 213/- per day
 Cost Estimate: Rs. /Ha

Year- 0- Advance Action

S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Collection of data for Microplanning, preparation of microplan and management plan	Prorata	1	547.29	497.00	50.29	547.29
1	Survey of area, Layout of Pits and marking of segments/plots	Prorata	1	440.23	389.94	50.29	440.2265
2	Fencing by stone wall and or by ditch.					0.00	
a	Stone wall fencing 1.20m high 0.80m at base & 0.60 at top(on an average 30m/ha.)	Meter	30	213.00	6390.00	0.00	6390.00
b	Ditch fencing 1.20m deep, 1.50m wide at top & 0.90m at bottom(on an average 30m/ha.)	Meter	30	230.96	6928.70	0.00	6928.70
3	Digging up 400 rmt Staggered Contour Trenches 45x45cm cross section on middle slopes and V-ditch as per site requirement	Meter	400	26.61	10644.37	0.00	10644.37
4	Cost of collection and purchase of seeds/cuttings of shrubs and medicinal plants	Prorata	1	220.42	0.00	220.42	220.42
5	In situ Soil & Moisture Conservation measures like Check dam, Percolation Tanks, Earthen Bunds etc.	Prorata	1	5693.13	5410.65	282.48	5693.13
6	Purchase of tools and plants	Prorata	1	119.84	0.00	119.84	119.84
7	Labour amenities	Prorata	1	177.38	164.54	12.84	177.38
8	Watch & ward for 4 months	Prorata	1	444.03	444.03	0.00	444.03
9	Restoration of Natural regeneration by cutback, cultural operation, and by making crescent shaped ridges on lower side of seedling and saplings	Prorata	1	2130.00	2130.00	0.00	2130.00
10	Construction of approach road inspection path and walking trail	Prorata	1	1576.73	477.84	1098.89	1576.73
11	Misc. and unforeseen expenses including running of vehicles	Prorata	1	332.85	234.41	98.44	332.85
TOTAL YEAR 0					33711	1933	35645

YEAR- I							
S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	In situ Soil & Moisture Conservation measures like Check dam, Nadis, Earthen Bunds etc.	Prorata	1	2803.15	2619.11	184.04	2803.15
2	Digging of 30cmx30cm cross section trench along inner side of stone wall fencing and seed sowing	Meter	30	23.23	686.33	10.70	697.03
3	Sowing/dibbling of seeds of shrubs including seeds of medicinal plants on the mounds of trench/ditch fencing- 430 m	Meter	430	0.55	237.79	0.00	237.79
4	Two times Weeding and Hoeing on trenches and V ditches	Prorata	1	1167.56	1167.56	0.00	1167.56
5	Watch & ward for 12 months	Prorata	1	1329.84	1329.84	0.00	1329.84
6	Construction of gate and fixing of sign boards	prorata	1	544.41	482.35	62.06	544.41
7	Misc. and unforeseen expences including (fencing repair, protection measures and running of vehicles etc.)	prorata	1	297.57	192.71	104.86	297.57
TOTAL YEAR 1					6716	362	7077

(Sudhir Jain)

DCF (Plan)

(Priya Ranjan)

CCF (Plan)

YEAR 2 MAINTENANCE							
S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Repair of fencing	Prorata	1	213.00	213.00	0.00	213.00
2	Weeding and Hoeing	Prorata	1	583.78	583.78	0.00	583.78
3	Watch & ward for 12 months	Prorata	1	1330.97	1330.97	0.00	1330.97
4	Misc. and unforeseen expences including (protection measures,running of vehicles etc.)	prorata	1	281.63	173.56	108.07	281.63
TOTAL YEAR 2					2301	108	2409
Grand Total					42728	2403	45132

Yearwise Cost Statement

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION				33711	1933	35645
2	YEAR 1 - PLANTING YEAR				6716	362	7077
3	YEAR 2 - MAINTENANCE I				2301	108	2409
Grand Total					42728	2403	45132

नोट :- मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है। कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें।

(Sudhir Jain)

DCF (Plan) के (प्रशासन)

(Priya Ranjan)

CCF (Plan)

Model Cost Norms for Enrichment of Old RDF Plantations

Labour rate Rs. 213/- per day

Unit - 50 Ha

No. of Plants - 100

Perimeter - Average 3000 RM (1000 MX500M)

S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
YEAR- 0 Advance Action							
1	Collection of data for Microplanning, preparation of microplan and management plan	Prorata	1	547.29	497.00	50.29	547.29
2	Survey of area, Layout of contour trenches/Furrows, Pits and marking of segments/plots	Prorata	1	440.23	389.94	50.29	440.23
3	Fencing by stone wall and/ or by ditch.					0.00	
a	Stone wall fencing 1.20m high 0.80m at base & 0.60 at top(on an average 30m/ha.)	Meter	30	100.50	3195.00	0.00	3195.00
b	Ditch fencing 1.20m deep, 1.50m wide at top & 0.90m at bottom(on an average 30m/ha.)	Meter	30	108.97	3464.27	0.00	3464.27
4	Cost of raising 110 seedlings	Plant	110	7.41	566.75	300.39	867.14
						0.00	
5	Digging up Trenches :					0.00	
a.	Digging up 150 rmt Staggered Contour Trenches with cross section size: $0.6 \times ((1.05 + 0.45)/2)$ Sqmt. in area with 6-20% slop (assuming 30% area falls in this category).	Meter	150	59.18	8877.54	0.00	8877.54
b.	Digging up 160 rmt Continuous Contour Trenches with cross section size: $0.6 \times ((1.70 + 0.5)/2)$ Sqmt. in area with 3-6% slop (assuming 40% area falls in this category).	Meter	160	86.80	13887.39	0.00	13887.39
c.	Digging up 40 rmt Deep Continuous Contour Trenches with cross section size: $1.0 \times ((1.50 + 0.5)/2)$ Sqmt. in area with 0-3% slop (assuming 30% area falls in this category).	Meter	40.0	131.51	5260.36	0.00	5260.36
6	Digging of 100 pits size: $0.45 \times ((.4 + .5)/2)$ cum (Preferably on the bunds of water harvesting structures)	Plant	100	16.67	1666.80	0.00	1666.80
7	Cost of collection and purchases of grass and other seeds	Prorata			0.00	428.00	428.00
8	Restoration of natural regeneration by cultural operations and making crescent shaped mounds on the lower side of seedlings	Prorata			1065.00	0.00	1065.00
9	In situ Soil & Moisture Conservation measures like Check dam, Nadis, Earthen Bunds etc.	Prorata			4507.97	0.00	4507.97
10	Construction of Thatched cattle guard hut.	Prorata			213.00	36.38	249.38
11	Purchase or construction of Water storage Tank	Prorata			0.00	60.99	60.99
12	Purchase of tools and plants	Prorata			0.00	90.95	90.95
13	Labour amenities	Prorata			77.76	70.62	148.38
14	Watch and Ward for 4 months	Prorata			444.03	0.00	444.03
15	Misc. and unforeseen expenses including running of vehicles	Prorata			201.73	47.08	248.81
Total 0 year					44315	1135	45450

(Sudhir Jain)

DCF (Plan)

(Priya Ranjan)

CCF (Plan)

YEAR : 1 PLANTATION YEAR

S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 110seedling in nursery	Plant	110	1.74	154.05	48.72	202.77
2	In situ Soil & Moisture Conservation measures like Check dam, Nadis, Earthen Bunds etc.	Prorata			2414.00	201.16	2615.16
3	Digging of 30cmx30cm cross section trench along inner side of stone wall fencing and seed sowing (30 M / Ha)	Meter	30	17.77	533.06	0.00	533.06
4	Sowing/dibbling of seeds of grass, trees and shrubs including seeds of medicinal plants on the mounds of trench/ditch fencing (380 M)	Meter	380	0.52	210.14	0.00	210.14
5	sowing of grass seeds including raking in the interspace	Prorata			482.35	0.00	482.35
6	Restoration of natural regeneration by cultural operations and making crescent shaped mounds on the lower side of seedlings	Prorata			1065.00	0.00	1065.00
7	Transportation of 100 plants from nurserly to planting site	Plant	100	1.26	102.56	23.54	126.10
8	Planting of 100 seedlings including Refilling of pits	Plant	100	3.86	374.72	11.24	385.96
9	Purchase and application of insecticide and fertilizer in 100 plants	Plant	100	4.20	326.83	93.63	420.46
10	Making of crescent shaped mounds below planted sapling after planting and dibbing of 3 seeds of thorny tree species (100 saplings).	Plant	100	3.38	338.10	0.00	338.10
11	Weeding and Hoeings of 100 plants two time repairing plants mound	Plant	200	3.38	676.20	0.00	676.20
12	Weeding on Contour Trench and espacement /singling	Prorata			438.40	0.00	438.40
13	Raising of 20% Plants (20 plants) in Nursery for casualty replacement in year 2	Plant	20	7.41	103.05	54.62	157.67
14	Watch and ward charges for 12 months	Prorata			1330.97	0.00	1330.97
15	Labour hut etc	Prorata			308.79	40.66	349.45
16	Construction of approach roads/inspection path	Prorata			361.76	0.00	361.76
17	Construction of gate and fixing of sign boards	Prorata			482.35	69.55	551.90
18	Misc. and unforeseen expences including (additional watering, fencing and frost protection measures and running of vehicles etc.)	Prorata			206.24	216.14	422.38
TOTAL YEAR 1					9909	759	10668


(Sudhir Jain)

DCF (Plan)

वन विभाग (प्रशासन)


(Priya Ranjan)

CCF (Plan)

YEAR 2 : MAINTENANCE-I							
S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 20 plants in nursery	Plant	20	1.74	28.01	8.86	36.87
2	Repair of Fencing	Prorata			213.00	0.00	213.00
3	Casualty replacement of 20 plants (20%) including redigging of pits, transportation planting, watering and application of insecticide	Plant	20	11.13	213.00	9.63	222.63
4	Weeding and Hoeing in 100 plants two times and repairing of plant mounds	Plant	200	3.38	676.20	0.00	676.20
5	Watch and ward charges for 12 months	Prorata			1330.97	0.00	1330.97
6	Misc. and Unforeseen expenses including (Repair of Structures, Subsidiary silvicultural operations, Frost Protection, etc.)	Prorata			184.83	123.05	307.88
TOTAL YEAR 2					2646	142	2788
YEAR 3 : MAINTENANCE-II							
S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch and ward charges for 12 Months	Prorata			1330.97	0.00	1330.97
2	Expenditure on Maintenance including (Repair of fencing/Structures, Subsidiary silvicultural operations, Frost Protection, etc.)	Prorata			388.81	123.05	511.86
TOTAL YEAR 3					1720	123	1843
YEAR 4 : MAINTENANCE-III							
S. No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch and ward charges for 12 Months	Prorata			1330.97	0.00	1330.97
2	Expenditure on Maintenance including (Repair of fencing/Structures, Subsidiary silvicultural operations, Frost Protection, etc.)	Prorata			388.81	128.40	517.21
TOTAL YEAR 4					1720	128	1848
Grand Total					60309	2287	62596

Yearwise Cost Statement

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION				44315	1135	45450
2	YEAR 1 - PLANTING YEAR				9909	759	10668
3	YEAR 2 - MAINTENANCE I				2646	142	2788
4	YEAR 3 - MAINTENANCE II				1720	123	1843
5	YEAR - 4 MAINTENANCE III				1720	128	1848
Grand Total					60309	2287	62596

- नोट :- 1. यह मॉडल पुराने प्लान्टेशन पर लागू किया जायेगा जो कि 6 साल से पुराने हो एवं जिनमें पूर्व में दीवार / डिच फैनसिंग की गई थी। अतः इस मॉडल में स्टोन/डिच फैनसिंग के लिये रिपेयर की दर रखी गई है।
2. क्षेत्र में जो 100 पौधे लगाये जाने हैं उन्हें यथा संभव जल संग्रहण संरचनाओं पर लगाया जावे। 3. डीप सीसीटी, सीसीटी एवं स्टेगर्ड कन्दूर ट्रेन्च बनाते समय क्षेत्र में विद्यमान पेड़ों को क्षति नहीं पहुंचाई जाये।
4. मॉडल्स कार्यस्थल विशेष पर कार्य सम्पादित कराने के लिये प्राक्कलन नहीं है वरन केवल मार्गदर्शक है। कार्यस्थल पर कार्य सम्पादित कराने के लिए कार्य स्थल की विशेषताओं/परिस्थितियों के अनुसार प्राक्कलन के आधार पर कार्य कराये जावें।

(Sudhir Jain)
DCF (Plan) (प्रशासन)
मान मन्त्रालय वन संरक्षण

(Priya Ranjan)
CCF (Plan)
(प्रिया रंजन)

पौध तैयारी – मॉडल 1

श्रम दर:- रु 213/- प्रति दिन

लागत अनुमान 1.00 लाख पौध तैयारी 7.5 सेमी x 12.5 सेमी (3 इन्च x 5 इन्च), 20 माइक्रोन पौलिथीन बैग्स उद्देश्य- इस मॉडल का उद्देश्य 9 इन्च उँचाई तक के पौधे जैसे नीम, करंज, गोंदा, हवन सीताफल, इत्यादि तैयार करना है जिन्हें नोचेज, ट्रेन्चों व वी-डिचों के माउन्ड पर रोपित किया जा सकता है। जिससे की ट्रेन्चों ओर नोचेज पर भी जीवितता प्रतिशत अच्छी रहकर पौध अच्छी बढ़त होने से बेहतर परिणाम प्राप्त होंगे। वर्षा पूर्व मदरबैड में बीजों को बोने के बजाय विकल्प रूप में इन थैलियों में पौधे सीधे ही उगाया जा सकते हैं जिससे की मदरबैड से पौलिथीन बैग्स में पौध के ट्रान्सप्लान्ट करते समय पौधों में क्षति नहीं होगी। इन तैयार पौधों को 5 फिट से अधिक उँचाई के पौधे तैयार करने हेतु मदर बैड में निर्धारित स्थान पर रोपित किया जा सकता है। इस मॉडल में तैयार किये जाने वाले पौधों को तीन माह तक पौधशाला में संधारण किया जायेगा।

उपयुक्त प्रजातियाँ – नीम, करंज, गोंदा, हवन सीताफल, इत्यादि

क्रस	आईटम	राशि रूपयों में		
		श्रम व्यय	सामग्री व्यय	योग व्यय
1	43 किग्रा पौलीथिन थैली बनाई/खरीद आकार 7.5 x 12.5 सेमी (3 इन्च x 5 इन्च), 20 माइक्रोन दर 145.20 रु/किग्रा	0	6681.08	6681.08
2	10 मी X 1.0 मी X 0.15 मी. आकार की 25 क्यारियां तैयार कराना	3195	0	3195
3	बीज सग्रह करना/क्रय करना	2130	1002.59	3132.59
4	फार्म यार्ड मैन्योर (गोबर-मैंगनी की खाद) 7 घमी क्रय करना दर 1434.40 रु/घमी	2782.7761	7934.05	10716.8261
5	चिकनी मिटटी की व्यवस्था करना एवं पौधशाला में परिवहन करना 7 घमी दर 711.37 रु/घमी	667.61194	4654.5	5322.11194
6	रेत की व्यवस्था करना एवं पौधशाला में परिवहन करना 7 घमी दर 534.06 रु/घमी	503.35821	3491.41	3994.76821
7	खाद, चिकनी मिटटी, रेत का मिश्रण बनवाना, पौलीथीन थैलियां भरवाना एवं थैलियों को क्यारी में जमवाना	27690	0	27690
8	पौधशाला में थैलियों में बीज बुवाई, खाली थैलियों में पुनः बीज बुवाई, सिचाई, निदाई, वर्मी कम्पोस्ट बनाई एवं अन्य संधारण कार्य करने हेतु एक माली एवं दो श्रमिकों की मजदूरी (3 माह)	49842	0	49842
9	कीटनाशक उर्वरक, जिप्सम एवं अन्य उपयोगी रसायन क्रय पर व्यय	0	706.2	706.2
10	उपकरण एवं औजार खरीद मय वाहन एवं मशीनों का संधारण व्यय	0	5350	5350
11	बिजली पानी पर व्यय	0	21400	21400
12	जल सग्रह टैंक बनाना/क्रय करना मय पाईप खरीद व्यय	0	4012.5	4012.5
13	अन्य विविध व्यय	1702.9403	1524.75	3227.6903
योग		88514	56757.08	145271

बिजली पानी हेतु देय राशि का उपयोग केवल इन्ही मदों पर व्यय किया जायेगा अन्यथा उक्त मद की राशि का समर्पण किया जावे। एक नर्सरी पर केवल एक चौकीदार ही रखा जावे।

(Sudhir Jain)
DCF (Plan) (प्रशासन)
मुख्य वन संरक्षक

(Priya Ranjan)
CCF (Plan)
(प्रिय रंजन)

पौध तैयारी – मॉडल 2

श्रम दर:- रु 213/- प्रति दिन

लागत अनुमान 1.00 लाख पौध तैयारी 10 सेमी X 15 सेमी (4 इन्च X 6 इन्च) 20 माइक्रोन पौलिथीन बैग्स

उद्देश्य- इस मॉडल का उद्देश्य 15 इन्च उंचाई तक के पौधे तैयार करना है जिनमें की मुख्यतः फुटान की हुई जड़ सहित कटिंग्स (प्री-रूटेड) को मदरबेड से इन पौलिथीन बैग्स में लिया जायेगा। मॉडल में बागवानी सम्बन्धित पौधों के अतिरिक्त वानिकी पौधे तैयार किये जायेगे। इस मॉडल में तैयार किये जाने वाले पौधों का 6 माह तक पौधशाला में संधारण किया जायेगा।

उपयुक्त प्रजातियाँ- नीम, करंज गोदा, हवन, सीताफल, गुलाब, कनेर, शहतुत, बागनवेल इत्यादि।

क्र.स.	आईटम	प्रथम वर्ष			द्वितीय वर्ष			योग		
		श्रम	सामग्री	योग	श्रम	सामग्री	योग	श्रम	सामग्री	योग
1	67 किग्रा पौलिथीन थैली बनाई व खरीद आकर 10 X 15 सेमी (4 इन्च X 6 इन्च), 20 माइक्रोन दर 145.20 रु किग्रा	0	10409	10409	0	0	0	0	10409	10409
2	10 मी X 1.0 मी X 0.15 मी. आकार की 35 क्यारिया तैयार कराना	6390	0	6390	0	0	0	6390	0	6390
3	बीज सग्रह करना/क्रय करना	2130	1003	3133	0	0	0	2130	1003	3133
4	फार्म यार्ड मेन्चौर (गोबर-मेगनी की खाद) 14 घमी क्रय करना दर 1434.40 रु/घमी	5564	15868	21433	0	0	0	5564	15868	21433
5	चिकनी मिटटी की व्यवस्था करना एवं पौधशाला में परिवहन करना 14 घमी दर 711.37 रु/घमी	1334	9309	10643	0	0	0	1334	9309	10643
6	रेत की व्यवस्था करना एवं पौधशाला में परिवहन करना 14 घमी दर 534.06 रु/घमी	1009	6982	7991	0	0	0	1009	6982	7991
7	खाद, चिकनी मिटटी, रेत का मिश्रण बनवाना, पौलिथीन थैलियां भरवाना एवं थैलियों को क्यारी में जमवाना	38340	0	38340	0	0	0	38340	0	38340
8	मदरबेड तैयार कर उसमें बीज बुवाई, एवं कटिंग्स लगाना	15123	0	15123	0	0	0	15123	0	15123
9	मदरबेड से छोटे पौध एवं कटिंग्स निकालकर पौलिथीन थैलियों में लेना ।	15123	0	15123	0	0	0	15123	0	15123
10	नर्सरी पर एक माली व दो श्रमिकों की बीज बुवाई, पुनः बीज बुवाई, निदाई, पानी पिलाई एवं वर्मी कम्पोस्ट तैयार करने की मजदूरी	31950	0	31950	63900	0	63900	95850	0	95850
11	कीटनाशक दवा, जिप्सम एवं उर्वरक खरीद पर व्यय	0	2119	2119	0	1412	1412	0	3531	3531
12	उपकरण एवं औजार खरीद मय वाहन एवं मशीनों का संधारण व्यय	0	8102	8102	0	2675	2675	0	10777	10777
13	बिजली पानी पर व्यय	0	14124	14124	0	23896	23896	0	38020	38020
14	जल सग्रह टैंक बनाना/क्रय करना मय पाईप खरीद व्यय	0	8025	8025	0	4013	4013	0	12038	12038
15	चौकीदारी पर व्यय	5538	0	5538	16614	0	16614	22152	0	22152
16	श्रमिक सुविधाओं पर व्यय	639	1412	2051	426	706	1132	1065	2119	3184
17	छायां हेतु सिरकी आदि क्रय करना	0	0	0	0	2119	2119	0	2119	2119
18	अन्य विविध व्यय	851	847	1698	1917	1299	3216	2768	2146	4914
Total		123991	78200	202191	82857	36120	118977	206848	114320	321168

बिजली पानी हेतु देय राशि का उपयोग केवल इन्ही मदों पर व्यय किया जायेगा अन्यथा उक्त मद की राशि का समर्पण किया जावे। एक नर्सरी पर केवल एक चौकीदार ही रखा जावे।

(Sudhir Jain)
DCF (Plan) (प्रशासन)

(Priya Ranjan)
CCF (Plan)

पौध तैयारी - मॉडल 3

श्रम दर:- रु 213/- प्रति दिन

लागत अनुमान 1.00 लाख पौध तैयारी 15 सेमी X 22.5 सेमी (6 इन्च X 9 इन्च) 20 माइक्रोन पैलिथीन बैग्स

उद्देश्य- इस मॉडल का उद्देश्य चोड़ी पत्तियों वाली प्रजातियां जो की तीव्र गति से बढ़ती हैं के पौधे तैयार करना है। इन तैयार किये गये पौधों को 5 फिट तक के बड़े पौधे तैयार करने हेतु 20X40 सेमी की पोलिथीन बैग्स में भी ट्रान्सप्लान्ट किया जायेगा। इस मॉडल में तैयार किये जाने वाले पौधों का 6 माह तक पौधशाला में संधारण किया जायेगा।

उपयुक्त प्रजातियाँ -शीशम, हवन, पीपल, बरगद, इत्यादि

क्र.सं.	आईटम	प्रथम वर्ष			द्वितीय वर्ष			योग		
		श्रम	सामग्री	योग	श्रम	सामग्री	योग	श्रम	सामग्री	योग
1	147 किग्रा पौलीथिन थैली बनाई व खरीद आकार 15 X 22.5 सेमी (6 इन्च X 9 इन्च), 20 माइक्रोन दर 145.20 रु किग्रा	0	22838	22838	0	0	0	0	22838	22838
2	10 मी X 1.0 मी X 0.25 मी. आकार की 81 क्यारियाँ तैयार कराना	23430	0	23430	0	0	0	23430	0	23430
3	बीज संग्रह करना/क्रय करना	2130	1002.6	3132.6	0	0	0	2130	1003	3133
4	फार्म यार्ड मेन्थोर (गोबर-मैगनी की खाद) 48 घमी क्रय करना दर 1434.40 रु/घमी	19080	54405	73485	0	0	0	19080	54405	73485
5	चिकनी मिट्टी की व्यवस्था करना एवं पौधशाला में परिवहन करना 48 घमी दर 711.37 रु/घमी	4573.3	31918	36491	0	0	0	4573	31918	36491
6	रेत की व्यवस्था करना एवं पौधशाला में परिवहन करना 48 घमी दर 534.06 रु/घमी	3457.6	23938	27396	0	0	0	3458	23938	27396
7	खाद, चिकनी मिट्टी, रेत का मिश्रण बनवाना, पौलीथीन थैलियाँ भरवाना एवं थैलियों को क्यारी में जमवाना	99242	0	99242	0	0	0	99242	0	99242
8	मदरबैड तैयार कर उसमें बीज बुवाई एवं कटिंग्स	15123	0	15123	0	0	0	15123	0	15123
9	मदरबैड से छोटे पौध एवं कटिंग्स निकालकर पौलिथीन थैलियों में लेना ।	15123	0	15123	0	0	0	15123	0	15123
10	नर्सरी पर एक माली व दो श्रमिकों की बीज बुवाई, पुनः बीज बुवाई, निदाई, पानी पिलाई एवं वर्मी कम्पोस्ट तैयार करने की मजदूरी	53250	0	53250	106500	0	106500	159750	0	159750
11	पोलिथीन थैलियों का स्थान परिवर्तन करना व बाहर निकली जड़ों को काटकर हटवाना, दो बार	0	0	0	42600	0	42600	42600	0	42600
12	कीटनाशक दवा एवं उर्वरक खरीद पर व्यय	0	2824.8	2824.8	0	1447.7	1447.7	0	4273	4273
13	उपकरण एवं औजार खरीद मय वाहन एवं मशीनों का संधारण व्यय	0	13910	13910	0	5350	5350	0	19260	19260
14	बिजली पानी पर व्यय	0	25680	25680	0	42800	42800	0	68480	68480
15	जल संग्रह टैंक बनाना/क्रय करना मय पाईप खरीद	0	16050	16050	0	5350	5350	0	21400	21400
16	चौकीदार पर व्यय	11076	0	11076	33228	0	33228	44304	0	44304
17	श्रमिक सुविधाओं पर व्यय	426	706.2	1132.2	639	1412.4	2051.4	1065	2119	3184
18	छायां हेतु सिरकी आदि क्रय करना	0	0	0	0	3732.2	3732.2	0	3732	3732
19	अन्य विविध व्यय	596.17	552.12	1148	1278	953.37	2231.4	1874	1505	3380
Total		247507	193825	441332	184245	61046	245291	431752	254871	686623

बिजली पानी हेतु देय राशि का उपयोग केवल इन्ही मदों पर व्यय किया जायेगा अन्यथा उक्त मद की राशि का समर्पण किया जावे। एक नर्सरी पर केवल एक चौकीदार ही रखा जावे।

(Sudhir Jain)

DCF (Plan)क (प्रशासन)

(Priya Ranjan)

CCF (Plan)

लागत अनुमान 1.00 लाख पौध तैयारी 15 सेमी X 22.5 सेमी (6 इन्च X 9 इन्च) 40 माइक्रोन पौलिथीन बैग्स

उद्देश्य- इस मॉडल का उद्देश्य चौड़े पत्तों वाली प्रजातियों जिनकी सामान्यतया वृद्धि धीमी होती है, के पौधे तैयार करना है। इसी कारण से इसमें पौलिथीन बैग्स की मोटाई अधिक रखी गई है। इस मॉडल में तैयार किये जाने वाले पौधों को 12 माह तक पौधशाला में संभारण किया जायेगा।

उपयुक्त प्रजातियों - अमलतास, करंज, चुरेल, ईमली, सीताफल आदि

क्र.स.	आईटम	प्रथम वर्ष			द्वितीय वर्ष			योग		
		श्रम	सामग्री	योग	श्रम	सामग्री	योग	श्रम	सामग्री	योग
1	294 किग्रा पौलीथीन थैली बनाई व खरीद आकार 15 X 22.5 सेमी (6 इन्च X 9 इन्च), 40 माइक्रोन दर 145.20 रु/किग्रा	0	45677	45677	0	0	0	0	45677	45677
2	10 मी X 1.0 मी X 0.25 मी. आकार की 88 क्यारियों तैयार कराना	23430	0	23430	0	0	0	23430	0	23430
3	बीज सग्रह करना/क्रय करना	2130	1002.6	3132.6	0	0	0	2130	1003	3133
4	फार्म यार्ड मैन्यूर (गोबर-मैगनी की खाद) 48 घमी क्रय करना दर 1434.40 रु/घमी	19080	54405	73485	0	0	0	19080	54405	73485
5	चिकनी मिट्टी की व्यवस्था करना एवं पौधाशाला में परिवहन करना 48 घमी दर 711.37 रु/घमी	4573.3	31918	36491	0	0	0	4573	31918	36491
6	रेत की व्यवस्था करना एवं पौधाशाला में परिवहन करना 48 घमी दर 534.06 रु/घमी	3457.6	23938	27396	0	0	0	3458	23938	27396
7	खाद, चिकनी मिट्टी, रेत का मिश्रण बनवाना, पौलीथीन थैलियां भरवाना एवं थैलियों को क्यारी में जमवाना	99242	0	99242	0	0	0	99242	0	99242
8	मदरबैड तैयार कर उसमें बीज बुवाई, एवं कटिंग्स लगाना	15123	0	15123	0	0	0	15123	0	15123
9	मदरबैड से छोटे पौध एवं कटिंग्स निकालकर पौलिथीन थैलियों में लेना ।	15123	0	15123	0	0	0	15123	0	15123
10	नर्सरी पर एक माली व दो श्रमिकों की बीज बुवाई, पुनः बीज बुवाई, निदाई, पानी पिलाई एवं वर्मी कम्पोस्ट तैयार करने की मजदूरी	239627	0	239627	79875	0	79875	319502	0	319502
11	पौलिथीन थैलियों का स्थान परिवर्तन करना व बाहर निकली जड़ों को काटकर हटवाना, दो बार	42600	0	42600	42600	0	42600	85200	0	85200
12	कीटनाशक दवा जिप्सम एवं उर्वरक खरीद पर व्यय	0	4696.2	4696.2	0	1412.4	1412.4	0	6109	6109
13	उपकरण एवं औजार खरीद मय वाहन एवं मशीनों का संभारण व्यय	0	13910	13910	0	5350	5350	0	19260	19260
14	बिजली पानी पर व्यय	0	77040	77040	0	25680	25680	0	102720	102720
15	जल सग्रह टैंक बनाना/क्रय करना मय पाईप खरीद व्यय	0	16050	16050	0	5350	5350	0	21400	21400
16	चौकीदारी पर व्यय	49842	0	49842	16614	0	16614	66456	0	66456
17	श्रमिक सुविधाओं पर व्यय	639	4078.8	4717.8	426	2703.9	3129.9	1065	6783	7848
18	छायां हेतु सिरकी आदि क्रय करना	0	0	0	0	4237.2	4237.2	0	4237	4237
19	अन्य विविध व्यय	1448.2	1010.1	2458	1385.1	1129.9	2515	2833	2140	4973
Total		516315	273726	790042	140900	45863	186763	657215	319590	976805

बिजली पानी हेतु देय राशि का उपयोग केवल इन्ही मदों पर व्यय किया जायेगा अन्यथा उक्त मद की राशि का समर्पण किया जावे। एक नर्सरी पर केवल एक चौकीदार ही रखा जावे।

(Sudhir Jain)

DCF (Plan) अधिक (प्रशासन)

(Priya Ranjan)
CCF (Plan)

लागत अनुमान 1.00 लाख पौध तैयारी 12.5 सेमी X 30 सेमी 40 माइक्रोन पौलिथीन बैग्स

उद्देश्य- इस मॉडल का उद्देश्य कॉटेदार शीघ्र वृद्धि वाली प्रजातियाँ व जिनकी मूसला जड़ मजबूत होती है, ऐसी प्रजातियों के पौधे तैयार करना है। इस मॉडल में तैयार किये जाने वाले पौधों को 6 माह तक पौधशाला में संधारण किया जायेगा।

उपयुक्त प्रजातियाँ - बेर, खैर, बबूल प्रजातियाँ, जंगल जलेबी, आंवला, हवन आदि

क्र.स.	आईटम	प्रथम वर्ष			द्वितीय वर्ष			योग		
		श्रम	सामग्री	योग	श्रम	सामग्री	योग	श्रम	सामग्री	योग
1	324 किग्रा पॉलीथीन थैली बनाई व खरीद आकर 12.5 X 30 सेमी 40 माइक्रोन दर 145.20 रु/किग्रा	0	50338	50338	0	0	0	0	50338	50338
2	10 मी X 1.0 मी X 0.30 मी. आकार की 60 क्यारियां तैयार कराना	19170	0	19170	0	0	0	19170	0	19170
3	बीज सग्रह करना/क्रय करना	2130	1002.6	3132.6	0	0	0	2130	1003	3133
4	फार्म यार्ड मेन्थोर (गोबर-मैगनी की खाद) 48 घमी क्रय करना दर 1434.40 रु/घमी	19080	54405	73485	0	0	0	19080	54405	73485
5	चिकनी मिटटी की व्यवस्था करना एवं पौधशाला में परिवहन करना 48 घमी दर 711.37 रु/घमी	4573.3	31918	36491	0	0	0	4573	31918	36491
6	रेत की व्यवस्था करना एवं पौधशाला में परिवहन करना 48 घमी दर 534.06 रु/घमी	3457.6	23938	27396	0	0	0	3458	23938	27396
7	खाद, चिकनी मिटटी, रेत का मिश्रण बनवाना, पॉलीथीन थैलियां भरवाना एवं थैलियों को क्यारी में जमवाना	99242	0	99242	0	0	0	99242	0	99242
8	मदरबैड तैयार कर उसमें बीज बुवाई एवं कटिंग्स लगाना	15123	0	15123	0	0	0	15123	0	15123
9	मदरबैड से छोटे पौध एवं कटिंग्स निकालकर पौलिथीन थैलियों में स्थानान्तरित करना।	15123	0	15123	0	0	0	15123	0	15123
10	नर्सरी पर एक माली व दो श्रमिकों की बीज बुवाई, पुनः बीज बुवाई, निदाई, पानी पिलाई एवं वर्मी कम्पोस्ट तैयार करने की मजदूरी	53250	0	53250	106500	0	106500	159750	0	159750
11	पौलिथीन थैलियों का स्थान परिवर्तन करना व बाहर निकली जड़ों को कटवाना, दो बार	0	0	0	42600	0	42600	42600	0	42600
12	कीटनाशक दवा एवं उर्वरक खरीद पर व्यय	0	4696.2	4696.2	0	1447.7	1447.7	0	6144	6144
13	उपकरण एवं औजार खरीद मय वाहन एवं मशीनों का संधारण व्यय	0	13910	13910	0	5350	5350	0	19260	19260
14	बिजली पानी पर व्यय	0	25680	25680	0	42800	42800	0	68480	68480
15	जल सग्रह टैंक बनाना मय पाईप खरीद व्यय	0	16050	16050	0	5350	5350	0	21400	21400
16	चौकीदारी पर व्यय	16614	0	16614	33228	0	33228	49842	0	49842
17	श्रमिक सुविधाओं पर व्यय	426	706.2	1132.2	641.254	1412.4	2054	1067	2119	3186
18	छाया हेतु सिरकी आदि क्रय करना	0	0	0	0	2824.8	2824.8	0	2825	2825
19	अन्य विविध व्यय	596.17	621.67	1218	1491	1235.9	2726.9	2087	1858	3945
Total		248785	223266	472051	184460	60421	244881	433245	283687	716932

बिजली पानी हेतु देय राशि का उपयोग केवल इन्ही मदों पर व्यय किया जायेगा अन्यथा उक्त मद की राशि का समर्पण किया जावे। एक नर्सरी पर केवल एक चौकीदार ही रखा जावे।

(Sudhir Jain)

DCF (Plan) प्रशासन

(Priya Ranjan)
CCF (Plan)

लागत अनुमान 1.00 लाख पौध तैयारी 12.5 सेमी x 30 सेमी 40 माइक्रोन पौलिथीन बैग्स

उद्देश्य- इस मॉडल का उद्देश्य काटेदार प्रजातियों जिनकी मूसला जड़ मजबूत होती है, परन्तु जिनकी सामान्यतया वृद्धि धीमी होती है, के पौधे तैयार करना है। इसी कारण से इसमें पौलिथीन बैग्स की मोटाई 40 माइक्रोन रखी गई। इस मॉडल में तैयार किये जाने वाले पौधों को 12 माह तक पौधशाला में संधारण किया जायेगा।

उपयुक्त प्रजातियाँ - रॉन्झ रोहिडा, विष तेन्दू, टिमरू आदि

क्र.स.	आईटम	प्रथम वर्ष			द्वितीय वर्ष			योग		
		श्रम	सामग्री	योग	श्रम	सामग्री	योग	श्रम	सामग्री	योग
1	324 किग्रा पॉलीथीन थैली बनाई व खरीद आकर 12.5 X 30 सेमी X 40 माइक्रोन दर 145.20 रु/किग्रा	0	50338	50338	0	0	0	0	51750	51750
2	10 मी (ल.) X 1.0 मी (चौ.) X 0.30 मी. (ग.) आकार की 60 क्यारियां तैयार कराना	19170	0	19170	0	0	0	19170	0	19170
3	बीज सग्रह करना/क्रय करना	2130	1002.6	3132.6	0	0	0	2130	1031	3161
4	फार्म यार्ड मेन्थौर (गोबर-मैगनी की खाद) 48 घमी क्रय करना दर 1434.40 रु/घमी	19080	54405	73485	0	0	0	19080	55931	75010
5	चिकनी मिटटी की व्यवस्था करना एवं पौधशाला में परिवहन करना 48 घमी दर 711.37 रु/घमी	4573.3	31918	36491	0	0	0	4573	32813	37386
6	रेत की व्यवस्था करना एवं पौधशाला में परिवहन करना 48 घमी दर 534.06 रु/घमी	3457.6	23938	27396	0	0	0	3458	24609	28067
7	खाद, चिकनी मिटटी, रेत का मिश्रण (1:1:1) बनवाना, पॉलीथीन थैलियां भरवाना एवं थैलियों को क्यारी में जमवाना	99242	0	99242	0	0	0	99242	0	99242
8	मदरबैड तैयार कर उसमें बीज बुवाई, एवं कटिंग्स लगाना	15123	0	15123	0	0	0	15123	0	15123
9	मदरबैड से छोटे पौध एवं कटिंग्स निकालकर पौलिथीन थैलियों में लेना।	15123	0	15123	0	0	0	15123	0	15123
10	नर्सरी पर एक माली व दो श्रमिकों की बीज बुवाई, पुनः बीज बुवाई, निदाई, पानी पिलाई एवं वर्मी कम्पोस्ट तैयार करने की मजदूरी	239627	0	239627	79875	0	79875	319502	0	319502
11	पौलिथीन थैलियों का स्थान परिवर्तन करना व बाहर निकली जड़ों को कटवाना, दो बार	42600	0	42600	42600	0	42600	85200	0	85200
12	कीटनाशक दवा एवं उर्वरक खरीद पर व्यय	0	4696.2	4696.2	0	1412.4	1412.4	0	6280	6280
13	उपकरण एवं औजार खरीद मय वाहन एवं मशीनों का संधारण व्यय	0	13910	13910	0	5350	5350	0	19800	19800
14	बिजली पानी पर व्यय	0	77040	77040	0	25680	25680	0	105600	105600
15	जल सग्रह टैंक बनाना मय पाईप खरीद व्यय	0	16050	16050	0	5350	5350	0	22000	22000
16	चौकीदारी पर व्यय	49842	0	49842	16614	0	16614	66456	0	66456
17	श्रमिक सुविधाओं पर व्यय	0	3715	3715	0	1412.4	1412.4	0	5271	5271
18	छायां हेतु सिरकी आदि क्रय करना	0	3210	3210	0	4237.2	4237.2	0	7656	7656
19	अन्य विविध व्यय	1022.2	727.6	1750	960.19	847.44	1808	1982	1619	3602
Total		510990	280951	791941	140049	44289	184339	651040	334359	985399

बिजली पानी हेतु देय राशि का उपयोग केवल इन्ही मदों पर व्यय किया जायेगा अन्यथा उक्त मद की राशि का समर्पण किया जावे। एक नर्सरी पर केवल एक चौकीदार ही रखा जावे।

(Sudhir Jain)

DCF (Plan) अधिक (प्रशासन)

(Priya Ranjan)

CCF (Plan)

लागत अनुमान 1.00 लाख पौध तैयारी 20 सेमी x 40 सेमी, 50 माइक्रोन पौलिथीन बैग्स
उद्देश्य- इस मॉडल का उद्देश्य खुबसुरत, फलदार व छायादार जिनकी उचाई 5 फिट तक हो ऐसी प्रजातियों के पौधे तैयार करना है। नर्सरी मॉडल सं. 4 के अनुसार तैयार 15 x 22.5 सेमी की साइज की पौलिथीन बैग्स में तैयार पौधे 20 x 40 सेमी के पौलिथीन बैग्स में ट्रान्सप्लान्ट किये जायेगे। इस मॉडल में तैयार किये जाने वाले पौधों को 24 माह तक पौधशाला में संधारण किया जायेगा।

उपयुक्त प्रजातियाँ - नीम, गुलमोहर, करंज, अमलतास, ईमली, नीमचमेली, जकरन्डा, पेलटाफार्म आदि

क्र.स.	आईटम	प्रथम वर्ष			द्वितीय वर्ष			योग		
		श्रम	सामग्री	योग	श्रम	सामग्री	योग	श्रम	सामग्री	योग
1	15 सेमी X 22.5 सेमी (6 इन्च x 9 इन्च) के पौधे 12 माह के बेडस में तैयार करने पर व्यय	696452	351549	1048001	0	0	0	696452	351549	1048001
2	860 किग्रा पौलिथीन थैलीयां बनाई व खरीद आकार 20. x 40 सेमी 50 माइक्रोन दर 145.20 रु/किग्रा	0	133613	133613	0	0	0	0	133613	133613
3	10 मी X 1.0 मी X 0.40 मी. आकार की 145 क्यारिया तैयार कराना	39286.7	0	39287	0	0	0	39287	0	39287
4	फार्म यार्ड मेन्चोर (गोबर-मैगनी की खाद) 109 घमी क्रय करना दर 1434.40 रु/घमी	43327	123545	166872	0	0	0	43327	123545	166872
5	चिकनी मिटटी की व्यवस्था करना एवं पौधशाला में परिवहन करना 109 घमी दर 711.37 रु/घमी	10385.1	72481	82866	0	0	0	10385	72481	82866
6	रेत की व्यवस्था करना एवं पौधशाला में परिवहन करना 109 घमी दर 534.06 रु/घमी	7851.33	54359	62211	0	0	0	7851	54359	62211
7	खाद, चिकनी मिटटी, रेत का मिश्रण बनवाना, पौलिथीन थैलीयां भरवाना एवं थैलीयों को क्यारी में जमवाना	232172	0	232172	0	0	0	232172	0	232172
8	नर्सरी पर एक माली व दो श्रमिकों को बीज बुवाई, पुनः बीज बुवाई, निदाई, पानी पिलाई एवं वर्मी कम्पोस्ट तैयार करने की मजदूरी	287552	0	287552	95850	0	95850	383402	0	383402
9	पौलिथीन थैलियों का स्थान परिवर्तन करना व बाहर निकली जड़ों को काटकर हटाना , दो बार	70290	0	70290	70290	0	70290	140580	0	140580
10	कीटनाशक दवा एवं उर्वरक खरीद पर व्यय	0	5650	5650	0	2825	2825	0	8474	8474
11	उपकरण एवं औजार खरीद मय वाहन एवं मशीनों का संधारण व्यय	0	21605	21605	0	5401	5401	0	27007	27007
12	बिजली पानी पर व्यय	0	128400	128400	0	35666	35666	0	164066	164066
13	जल सग्रह टैंक बनाना/क्रय करना मय पाईप खरीद व्यय	0	10700	10700	0	3210	3210	0	13910	13910
14	चौकीदारी पर व्यय	47925	0	47925	15975	0	15975	63900	0	63900
15	श्रमिक सुविधाओं पर व्यय	1599.19	3178	4777	534.19	1059	1593	2133	4237	6371
16	छायां हेतु सिरकी आदि क्रय करना	0	0	0	0	3531	3531	0	3531	3531
17	अन्य विविध व्यय	848.619	847	1696	424.87	424	849	1273	1271	2545
Total		1437689	905927	2343617	183074	52116	235191	1620763	958044	2578807

बिजली पानी हेतु देय राशि का उपयोग केवल इन्ही मदों पर व्यय किया जायेगा अन्यथा उक्त मद की राशि का समर्पण किया जावे। एक नर्सरी पर केवल एक चौकीदार ही रखा जावे।

पौध तैयारी – मॉडल 8

श्रम दर:- रु 213/- प्रति दिन

लागत अनुमान 6000 पौध तैयारी

उद्देश्य- इस मॉडल का उद्देश्य सड़क किनारे वृक्षारोपण, परिसर पौधारोपण में 5 फिट से 8 फिट व 8 फिट से अधिक उँचाई के खुबसूरत, फूलदार, छायादार प्रजातियों के पौधे तैयार करना है अधिक उँचाई के पौधे नर्सरी में तैयार करने से जहाँ पौधों की बढ़त पौधशाला में ही ज्यादा होने से अधिक उँचाई के पौधे कार्यस्थल पर रोपित किये जाने पर कम लागत में पौधारोपण को सफल किया जा सकेगा, वही सुरक्षा में भी कम ध्यान देना होगा। मॉडल में पूर्व से तैयार 7.5 X 15 सेमी की पॉलिथीन बैग्स के पौधे मंदरबेड में ट्रान्सप्लान्ट किये जायेंगे। पौधों के मंदरबेड में दूरी 30 सेमी X 30 सेमी रहेगी जिसमें की 4000 पौधे प्रथम वर्ष में तैयार किये जायेंगे व इनमें से 2 पौधों के बीच में से 1 पौधा 5 से 8 फिट तक का अर्थात् 2000 पौधे 1 वर्ष पश्चात एक्सट्रेक्ट कर लिया जायेगा। जिनका उपयोग सड़क किनारे वृक्षारोपण जिसमें की फेंसिंग का प्रावधान है में किया जायेगा। इन हटाये गये पौधों के स्थान पर पुनः 2000 पौधे 7.5 X 12.5 सेमी की पॉलिथीन बैग्स से मंदरबेड में ट्रान्सप्लान्ट किये जायेंगे जिससे द्वितिय वर्ष में 2000 पौधे 5 से 8 फिट के व 2000 पौधे 8 फिट से अधिक उँचाई के एक्सट्रेक्ट किये जा सकेगे। 8 फिट से अधिक उँचाई वाले पौधों का उपयोग सड़क किनारे वृक्षारोपण में स्थानीय फैनसिंग सामग्री यथा कांटेदार बाड़ लगाते हुए किया जायेगा। इस मॉडल में तैयार किये जाने वाले 5 से 8 फिट उँचाई तक के 4000 पौधों का संधारण पौधशाला में 18 माह व 8 फिट से अधिक उँचाई के 2000 पौधों का संधारण 30 माह के लिये किया जायेगा।

S. No.	Items	प्रथम वर्ष			द्वितिय वर्ष			तृतीय वर्ष			योग		
		श्रम	सामग्री	योग	श्रम	सामग्री	योग	श्रम	सामग्री	योग	श्रम	सामग्री	योग
1	6600 पौधे तैयार करने हेतु 7.5 X 12.5 सेमी (3 इंच X 5 इंच) पॉलिथीन बैग्स क्रय कर तैयार करना	4127	2747	6874	2064	1374	3437	0	0	0	6191	4121	10311
2	10 मी X 1.5 मी X 0.45 मी. आकार की 26 क्यारिया तैयार कराना (175.5 घमी)	29820	0	29820	0	0	0	0	0	0	29820	0	29820
3	फार्म यार्ड मेन्चौर (गोबर मेगनी की खाद) 26.3 घमी क्रय करना दर 1434.40 रु/घमी	11078	32790	43869	0	0	0	0	0	0	11078	32790	43869
4	चिकनी मिटटी की व्यवस्था करना एवं पौधशाला में परिवहन करना 26.3 घमी दर 711.37 रु/घमी	2655	19237	21893	0	0	0	0	0	0	2655	19237	21893
5	रेत की व्यवस्था करना एवं पौधशाला में परिवहन करना 26.3 घमी दर 534.06 रु/घमी	2008	14428	16435	0	0	0	0	0	0	2008	14428	16435
6	रेती पणा व खाद्य का मिश्रण तैयार कर 20 सेमी मोटाई में 26 बेडस में भरना।	17040	0	17040	0	0	0	0	0	0	17040	0	17040
7	डीएपी, यूरिया किटनाशक एवं बीज क्रय पर व्यय	0	3531	3531	0	2119	2119	0	0	0	0	5650	5650
8	एक श्रमिक द्वारा पौध तैयारी निदाई गुड़ाई पुर्निक स्थान परिवर्तन पानी पिलाई वर्मी कम्पोस्ट तैयारी करने का वेतन पर व्यय	49842	0	49842	66456	0	66456	16614	0	16614	132912	0	132912
9	25 X 40 सेमी 80 माइक्रोन थेलिया 106 किलो खरीद पर व्यय दर 145.20 रु/किग्रा	0	5489	5489	0	10979	10979	0	0	0	0	16468	16468
10	100 पाईप 5 x 10 इन्ची के पौधों की पोर्टिंग निकालने परिवहन हेतु क्रय करना	0	2472	2472	0	4943	4943	0	0	0	0	7415	7415
11	द्वितिय वर्ष में 2000 पौधे एवं तृतीय वर्ष में 4000 पौधे मंदर बेड से पोर्टिंग निकालकर 25 ग 40 सेमी, 80 माइक्रोन (100 बैग प्रति किलो) बैग में लेना एवं बेडस में जमाना	0	0	0	25560	0	25560	51120	0	51120	76680	0	76680
12	बिजली पानी पर व्यय	0	37450	37450	0	42800	42800	0	12840	12840	0	93090	93090
13	उपकरण एवं औजार खरीद मय वाहन एवं मशीनों का संधारण व्यय	0	8025	8025	0	8025	8025	0	0	0	0	16050	16050
14	जल संग्रह टैंक बनाना/क्रय करना मय पाईप खरीद व्यय	0	16050	16050	0	8025	8025	0	0	0	0	24075	24075
15	श्रमिक सुविधाओं पर व्यय	639	1271	1910	639	1271	1910	321	636	957	1599	3178	4777
16	अन्य विविध व्यय	955	412	1367	1491	508	1999	960	494	1455	3406	1415	4820
Total		118164	143902	262066	96210	80044	176254	69015	13970	82985	283389	237917	521305

बिजली पानी हेतु देय राशि का उपयोग केवल इन्ही मदों पर व्यय किया जायेगा अन्यथा उक्त मद की राशि का समर्पण किया जावे। एक नर्सरी पर केवल एक नौबतदार ही रखा जावे।

DCF (Plan) (प्रशासन)

Priya Ranjan
CCF (Plan)

COPPICE MAINTENANCE AND GAP PLANTING WITHOUT FENCING

Plantation Unit - 5 ha (1000 m X 50 m)

Perimeter-Average = 2100 m

No. of Plants - 200 per ha.

Perimeter/ha = 420 m

Labour rate Rs. 213 per day

Unit for Model calculation- per ha.

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
Year-O Advance Action							
1	Collection of data for microplanning, preparation of microplan and management plan	Prorata			81.40	55.00	136.40
2	Survey and demarkation control of area, division of area into segments, preparation of treatment map and plantation card.	Prorata			355.00	94.00	449.00
3	Raising of 240 plants	Plant	240	7.85	1284.00	600.00	1884.00
4	Singling of Coppice	Plants	520	15.00	827.00	0.00	827.00
5	Purchase of PVC/HDPE Pipes of 3 inch dia and 1 inch dia	Prorata			0.00	2252.00	2252.00
6	Purchase of tools and plants	Prorata			38.29	314.00	352.29
7	Purchase of fertilizers and insecticides	Prorata			0.00	350.00	350.00
8	Purchase of Plantation Board including painting and fixing	Prorata			102.10	264.00	366.10
9	Watch and ward for three months	Prorata			3323.00	0.00	3323.00
10	R & M of Vehicle	Prorata			0.00	100.00	100.00
11	Labour amenities	Prorata			50.00	50.00	100.00
12	Miscellaneous expenditure (Labour, Instruments, Machine etc)	Prorata			52.11	112.00	164.11
Total					6113	4191	10304
Year 1 Planting Year							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 240 Plants in nursery.	Plant	240	1.73	316.80	98.40	415.20
2	Raising of 48 Plants for casualty replacement.	Plant	48	7.85	318.80	60.00	376.80
3	Transportation of 210 plants from Nursery to plantation site	Plant	220	1.52	314.00	20.00	334.40
4	Singling of Coppice	Plants	520	15.00	827.00	0.00	827.00
5	Plantating 200 plants - Planting Activity						
a	Command area- Includes digging of pits; local transportation, treatment of pit with pesticides and fertiliser, making of Thanwala. And initial watering 100 plants	Plant	100	12.90	1290.00	0.00	1290.00
b	Un-command area- Includes digging of pits ; local transportation, treatment of pit with pesticides and fertiliser, making of Thanwala. And initial watering 100 plants	Plant	100	14.48	1300.00	148.00	1448.00
6	Watering of plants 5 times						
a	100 plants by pump	Plant	100	3.32	1160.00	500.00	1660.00
b	100 plants by Khala/syphon	Plant	100	1.76	880.00	0.00	880.00
7	Weeding and Hoeing 200 plants	Plant	200	2.93	586.00	0.00	586.00
8	Hoeing 200 five times	Plant	1000	1.76	1760.00	0.00	1760.00
9	Application of urea and fertilisers	Plant	200	0.53	76.00	30.00	106.00
10	Purchase of PVC pipes	Prorata			0.00	500.00	500.00
11	Maintenance of engine	Prorata			0.00	100.00	100.00
12	Construction of cattle guard hut	Prorata			1005.00	858.00	1863.00
13	Watch and Ward charges	Prorata			3323.00	0.00	3323.00
14	R & M of Vehicles	Prorata			0.00	700.00	700.00
15	Labour amenities	Prorata			200.00	34.00	234.00

(Sudhir Jain)

DCE (Plan)

सिखिक (प्रशासन)

(Priya Ranjan)

CCF (Plan)

16	Miscellaneous expenditure (Labour, Instruments, Machine etc)	Prorata			35.10	59.00	94.10
Total					13392	3107	16497
Year-2 Maintenance-I							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Maintenance of 48 Plants in nursery.	Plant	48	1.73	63.36	19.68	83.04
2	Transportation of 44 plants	Plant	44	1.61	60.00	10.00	70.84
3	Re planting of 20 plants in hard soil in command area including digging of pits, treating with pesticides,fertilisers and watering	Plant	20	9.10	182.00	0.00	182.00
4	Re planting of 20 plants in sandy soil in un-command area including digging of pits, treating with pesticides,fertilisers and watering	Plant	20	10.69	183.80	30.00	213.80
5	Watering of plants after replacement- 6 times						
a	100 plants by pump	Plant	600	3.32	1366.00	626.00	1992.00
b	100 plants by Khala/syphon	Plant	600	1.76	1056.00	0.00	1056.00
6	Application of urea and fertilisers- 2 times, 200 plants	Plant	400	0.53	112.00	100.00	212.00
7	Weeding and Hoeing- 200 plants, 2 times	Plant	400	2.93	1172.00	0.00	1172.00
8	Hoeing 200 plants six times	Plant	1200	1.76	2112.00	0.00	2112.00
9	R&M of vehicles	Prorata			0.00	100.00	100.00
10	Maintenance and repair of old engine	Prorata			0.00	343.00	343.00
11	Watch and Ward charges	Prorata			3323.00	0.00	3323.00
12	Miscellaneous expenditure (Labour, Instruments, Machine etc)	Prorata			20.21	9.00	29.21
Total					9650	1238	10889
Year-3 Maintenance-II							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watering of plants- 5 times						
a	100 plants by pump	Plant	500	3.32	1160.00	500.00	1660.00
b	100 plants by Khala/syphon	Plant	500	1.76	880.00	0.00	880.00
2	Hoeing 200 plants five times	Plant	1000	1.76	1760.00	0.00	1760.00
3	Purchase of PVC pipes	Prorata			0.00	500.00	500.00
4	R&M of vehicles	Prorata			0.00	264.00	264.00
5	Application of urea and fertilisers- 2 times, 200 plants	Plant	400	0.53	112.00	100.00	212.00
6	Maintenance & repair of old engine	Prorata				100.00	100.00
7	Pruning and tending of 200 plants	Plant	200	1.76	352.00	0.00	352.00
8	Watch and Ward charges	Prorata			3323.00	0.00	3323.00
9	Miscellaneous expenditure (Labour, Instruments, Machine,repair of watercourse etc)	Prorata			84.02	54.00	138.02
Total					7671	1518	9189
Year-4 - Maintenance-III							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watering of plants 4 times						
a	100 plants by pump	Plant	400	3.32	1076.00	252.00	1328.00
b	100 plants by Khala/syphon	Plant	400	1.76	704.00	0.00	704.00
2	Hoeing 200 plants four times	Plant	800	1.76	1408.00	0.00	1408.00
3	Pruning and tending of 200 plants	Plant	200	7.01	1402.00	0.00	1402.00
4	R&M of vehicles	Prorata			0.00	146.00	146.00
5	Maintenance & repair of Engine	Prorata			0.00	110.00	110.00
6	Watch and Ward charges	Prorata			3323.00	0.00	3323.00
7	Miscellaneous expenditure/repair of watercourse	Prorata			119.11	89.00	208.11

(Sudhir Jain)

DCF (Plan)

न. संरक्षक (प्रशासन)

(Priya Ranjan)

CCF (Plan)

Total					8032	597	8629
Year-5 Maintenance-IV							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watering of plants 2 times						
a	100 plants by pump	Plant	200	3.32	564.00	100.00	664.00
b	100 plants by Khala/syphon	Plant	200	1.76	352.00	0.00	352.00
2	Pruning and tending of 100 plants	Plant	100	7.01	701.00	0.00	701.00
3	R&M of vehicles	Prorata			0.00	145.00	145.00
4	Maintenance & repair of Engine	Prorata			0.00	110.00	110.00
5	Watch and Ward charges	Prorata			3323.00	0.00	3323.00
6	Miscellaneous expenditure/repair of watercourse	Prorata			32.97	20.00	52.97
Total					4973	375	5348
Year-6 Maintenance-V							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watering of plants- 2 times						
a	100 plants by pump	Plant	200	3.32	564.00	100.00	664.00
b	100 plants by Khala/syphon	Plant	200	1.76	352.00	0.00	352.00
2	Pruning and tending of 100 plants	Plant	100	7.01	701.00	0.00	701.00
3	Watch and Ward charges	Prorata			3136.00	0.00	3136.00
4	Miscellaneous expenditure/repair of watercourse	Prorata			41.48	37.00	78.48
Total					4794	137	4931
Year-7 Maintenance-IV							
No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	Watch and Ward charges three months	Prorata			3323.00	0.00	3323.00
Total					3323.00	0.00	3323.00
Grand Total					57949	11163	69111

Yearwise Cost Statement

No.	Item of Works	Unit	Qty.	Rate (Rs.)	Labour Cost	Material Cost	Total Cost
1	YEAR 0 ADVANCE ACTION				6113	4191	10304
2	YEAR 1 - PLANTING YEAR				13392	3107	16497
3	YEAR 2 - MAINTENANCE I				9650	1238	10889
4	YEAR 3 - MAINTENANCE II				7671	1518	9189
5	YEAR - 4 MAINTENANCE III				8032	597	8629
6	YEAR - 5 MAINTENANCE IV				4973	375	5348
7	YEAR - 6 MAINTENANCE V				4794	137	4931
8	YEAR - 7 MAINTENANCE VI				3323	0	3323
Grand Total					57949	11163	69111

1. The Models just advisory guidelines and works are to be carried out on the basis of site specific estimates.
2. This Model is to be implemented in areas which have been felled by the Department Operations Division.
3. Since the proposed area is not being fenced, suitable markers on the ground are to be essentially erected /created to delineate the areas.
4. Division taking up a proposed area for treatment as per this Model, will essentially draw a KML of the area and upload the same on the egreen watch website before commencing the Plantation activity.

(Sudhir Jain)

DCF (Plan)

वन संरक्षक (शासन)

वन मन्त्रालय वन संरक्षक

(Priya Ranjan)

CCF (Plan)

(चित्त चंदा)