

## कार्यालय प्रधान मुख्य वन संरक्षक, (हॉफ), राजस्थान, जयपुर

क्रमांक एफ 3(13)प्रमुखसं/ट्री/तक0/20-21/ 443-57  
निमित्त,

दिनांक:- 02/11/22

1-परियोजना निदेशक, आर.एफ.वी.पी.-2 जयपुर।

2- समस्त सम्भागीय मुख्य वन संरक्षक जयपुर/अजमेर/भरतपुर/कोटा/  
उदयपुर/बीकानेर/जोधपुर/(वन्यजीव) जयपुर/कोटा/उदयपुर/  
सवाईमाधोपुर/सरिस्का/जोधपुर/विभागीय कार्य जयपुर

विषय:-नवीन मॉडल कॉस्ट नोर्स न्यूनतम श्रमिक दर रु. 259/- एवं सामग्री दर 2021

महोदय,

उपरोक्त विषयान्तर्गत निवेदन है कि श्रमिक दर 259/- रुपये प्रति दिन के आधार पर प्राप्त हुए वृक्षारोपण मॉडल राज्य स्तरीय मॉडल कमेटी की अनुशंसा पर प्रधान मुख्य वन संरक्षक, (हॉफ) राजस्थान, जयपुर के अनुमोदन उपरान्त संलग्न कर आवश्यक कार्यवाही हेतु प्रेषित किये जा रहे हैं।-

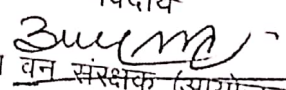
- 1-Assisted Natural Regeneration
- 2-Canal Side Plantation (Distributory)
- 3-Canal Side Plantation (Minor)
- 4-Block Plantation IGNP
- 5-Block Plantation Non-IGNP Areas
- 6-Sand Dunes Stabilization
- 7-Silvi-Pastoral Plantations in IGNP Areas
- 8-Silvi-Pastoral Plantations in Non-IGNP Areas
- 9-Reforestation 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
- 15-Raising of Plants in the Nursery Model-1
- 16-Raising of Plants in the Nursery Model-2
- 17-Raising of Plants in the Nursery Model-3
- 18-Raising of Plants in the Nursery Model-4
- 19-Raising of Plants in the Nursery Model-5
- 20-Raising of Plants in the Nursery Model-6
- 21-Raising of Plants in the Nursery Model-7
- 22-Raising of Plants in the Nursery Model-8
- 23-Compensatory Afforestation on Degraded Forest Land (CA DFL)
- 24-Compensatory Afforestation on Non-Forest Land (CA NFL)

- 25-Regeneration of Safety Zones (FCA Related)
- 26-Dwarf/ Medicinal Plant raising under compensatory Afforestation below the Power Transmission Lines of 46 Mts. (FCA Related)
- 27-Coppice Maintenance with Gap Planting (Without fencing) IGNP Areas
- 28-Model Cost Estimate for Plantation Along NHAI Roads (Barbed Wire Fencing Model)
- 29-Model Cost Estimate for Plantation of NHAI Sites (Tree Guard Model)
- 30-Model Cost Estimates for Glade Development in Wildlife Areas
- 31- Model Cost Estimates for Savannah Development in Arid Areas

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

<http://www.forest.rajasthan.gov.in/content/raj/forest/en/forest-department/departamental-wings/forest-development/model-for-developmental-activities.htm>

संलग्न-मॉडल की प्रति।

भवदीय  
  
मुख्य वन संरक्षक (आयोजना)  
राजस्थान, जयपुर।

DPL  
Model

# MODEL COST ESTIMATE FOR COMPENSATORY AFFORESTATION ON DEGRADED FOREST LAND

UNIT : 50 Ha  
PERIMETER: 60 M/Ha.  
LABOUR RATE: Rs. 259/Day  
COST ESTIMATE: in Rs./Ha.

YEAR (ADVANCE ACTION)

S.No.	ITEM OF WORK	RATE (Rs.)	LABOUR	MATERIAL	TOTAL
1	Collection of Basic Datas for Microplanning and carrying out joint forest management activities.	575/ ha	604	50	655
2	Survey of area, layout of contour trenches, burrow pits and making of segments / plots	463 / ha	475	50	526
3	Fencing by stone wall and or by ditch.		0	0	
	a.) Stone wall fencing 1.20 m high 0.80 m at base & 0.60 at top (on an average 30 m/ha )	225 / rmt	7770	0	7770
	b.) Ditch fencing 1.20m deep, 1.50m wide at top & 0.90m at bottom (on an average 30m/ha.)	245 16 / rmt	8467	0	8467
4	Cost of raising 770 seedlings	3.93/ plant	2218	1105	3323
5	Digging up 300 rmt Staggered Contour Trenches 45x45cm cross section on middle slopes and V-ditch as per site	28.28 / rmt	9769	0	9769
6	Digging of 300 pits size: 0.45x(0.4+0.5/2)2 cum	17.6 / pit	6077	0	6077
7	Cost of collection and purchase of grass and other seeds of trees and shrubs	Prorata	0	195	195
8	Treatment of Nallas by constructing series of Checkdams of dry ramdom trubble / earthan / brushwood	Prorata	755	0	755
9	Construction of Thatched cattle guard hut	Prorata	140	78	218
0	Purchase or construction of water storage tank.	Prorata	81	48	130
1	Labour aminities	Prorata	95	86	180
2	Watch and ward for 4 months @ 15325/-	Prorata	1491	0	1491
3	Purchase of Tools and Plants		0	110	110
4	Construction of 50 mt. long contour dykes of 30X30 cm. cross section on upper slopes and sowing of suitable thorny shrub	30.46 / rmt.	1753	0	1753
5	Construction of the pillars of appropriate size for gate.	Prorata	83	97	180
6	Purchase of signboards & fixing at site	Prorata	33	92	125
7	Misc. and unforeseen expenses including POL for vehicles	Prorata	288	108	396
	TOTAL YEAR 0		40100	2021	42121
3	Administrative charges 10%				4212
				TOTAL	46333

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**YEAR I ( PLANTING YEAR )**

Collection of datas regarding impact assesment and strengthening Joint Forest Management	Prorata	0	73	73
Maintenance of 770 seedling in nursery	2.11 / plant	1721	134	1854
Digging of 400 pits of size 0.45 (4+5/2)*2 Cum	17.73 / pit	8103	0	8103
In situ soil and moisture conservation measures like check dam, nadies, earthen bunds etc	Prorata	2944	243	3187
Digging of 30cmX30 cm cross section trench along inner side of stone wall fencing and seed sowing (60 mt / ha.)	12.43 per rmt	837	19	856
Sowing/dibbling of seeds of grass /thorny trees species on the mounds of contour trench and ditch fencing etc ( 370 m / ha )	0.59/m	237	13	250
Purchase of insecticide and Fertilizers.	0.82/ plant	0	577	577
Sowing of pellats of grass/piece of seed mud cakes of grass seeds between row of pits by ploughing and furrowing	Prorata	586	0	586
Transportation of 700 plants from nursery to planting site	1.41/ plant	1090	45	1134
Planting of 700 seedlings including Refilling of pits	4.09 / plant	3303	0	3303
Watering ( if sufficient rains are not there) & application of insecticide in 700 plants at the time of planting	3.16/ plant	2554	0	2554
Restoration of natural regeneration by making crescent shapad mounds on the lower slopes of seedling and sapling and making ring tranches around the natural trees / shrubs. (150 plants / ha)	4.1 / plant	708	0	708
Making of crescent shaped mounds below planted sapling after planting and dibbing of 3 seeds of thorny tree species. ( 700 plants / ha)	3.58 / plant	2885	0	2885
Weeding and hoeing of 700 plants in 2 time. Repairing of plant's mound	3.57/ plant	5754	0	5754
Weeding on contour trenches and 'V' ditches and spacement / singling.	Prorata	608	0	608
Raising of 70 seedilings in nursery for casually replacement in year-2 (10% of 700)	3.94 / seedling	202	101	302
Watch and ward for 12 months @ Rs.15325/-- month	prorata	4472	0	4472
Labour aminties and hut repair.	Prorata	375	49	424
Construction of approach road / inspection path	Prorata	440	0	440
Construction of gate and fixing of sign board	Prorata	586	80	666
Micellaneous and unforeseen expenditure.	Prorata	179	32	211
<b>TOTAL YEAR 1</b>		<b>37582</b>	<b>1365</b>	<b>38947</b>
2 Administrative charges 10%				3895
			<b>TOTAL</b>	<b>42842</b>

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# FIRST YEAR MAINTENANCE (YEAR 2)


1	Collection of datas regarding impact assesment and strengthening Joint Forest Management	Prorata	0	73	73
2	Maintenance of 70 Seedling in nursery for casualty replacement in year-2	2.11 / plant	147	20	167
3	Repair of fencing	Prorata	259	0	259
4	Casualty replacement 70 plants including redigging of pits, transportation planting, watering and application of insecticides	11.55/ plant	886	39	925
5	Weeding and Hoeing in 700 plants in pits two times	3.57/ Plant	5754	0	5754
6	Watch and ward for 12 months @15325/-	prorata / ha	4472	0	4472
7	Misc. and unforeseen expences including (additional watering and forest protection measures etc.	prorata	390	238	628
TOTAL YEAR 2			11909	369	12278
8	Administrative Charges 10%				1228
TOTAL					13506

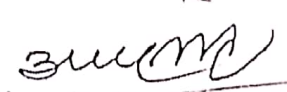
## SUBSEQUENT MAINTENANCE (YEAR 3 TO 12)

1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0	73	73
2	Watch and ward for 12 months @ 15325/-	prorata	4472	0	4472
3	Misc and unforeseen expenditure including (repairing of fencing / structures pruning etc	prorata	798	289	1087
4	TOTAL YEAR 3		5270	362	5632
5	Administrative charges 10%				563
Total					6195

## GRAND TOTAL

0Year	46333
First Year	42842
Second Year	13506
Third Year	6195
Fourth Year	6195
Fifth Year	6195
Sixth year	6195
Seventh year	6195
Eighth year	6195
Ninth Year	6195
Tenth Year	6195
Eleventh Year	6195
Twelth Year	6195
TOTAL	164629
Say	165000

  
 उप वन संरक्षक (प्रशासन)  
 प्रधान मुख्य वन संरक्षक  
 प्रशिक्षण, अनुसंधान, शिक्षा एवं प्रचार  
 राजस्थान, जयपुर

  
 (अमर सिंह गोडवाल)  
 मुख्य वन संरक्षक (आयोजन),  
 राजस्थान, जयपुर



# MODEL COST ESTIMATES FOR COMPENSATORY AFFORESTATION ON ALLOTTED NON FOREST LAND

UNIT : 50 Ha  
PERIMETER : 60 M/Ha.  
LABOUR RATE : Rs 259/Day  
COST ESTIMATE : in Rs./Ha.

ADVANCE ACTION (0 YEAR)

No.	ITEMS	RATE (Rs.)	LABOUR COMPONENT	MATERIAL COMPONENT	TOTAL
1	Collection of Basic Data for Microplanning and carrying out joint forest management activities.	575 / ha	604.35	50.29	655
2	Survey of area, lay out of contour trenches, burrowpits and making of segments / plots	463/ha	475.44	50.29	526
3	Fencing by stone wall and or by ditch.		0.00	0	
	a.) Stone wall fencing 1.20m high 0.80m at base & 0.60 at top (on an average 30m/ha.)	225/rmt	7770.00	0	7770
	b.) Ditch fencing 1.20m deep, 1.50m wide at top & 0.90m at bottom (on an average 30m/ha.)	245.16/rmt	8466.75	0	8467
	Cost of raising 1210 seedlings in nursery.	3.93/- per	3492.24	1730.19	5222
5	Digging of 500 pits size: 0.45x(.4+.5/2) <sup>2</sup>	17.59/ pit	10128.97	0	10129
5	Digging up 400 rmt Staggered Contour Trenches 45x45cm cross section on middle slopes and V-ditch as per site requirement	28.28/rmt	13025.39	0	13025
	Construction of 15 mt. long contour dykes of 30X30 cm. cross section on upper slopes and sowing of suitable thorny shrub species seeds along its innerside	30.46/rmt.	526.51	0	527
	Treatment of Nallas by construction series of Checkdams of dry random rubble/earthan/brushwood	Prorata	755.11	0	755
	Construction of the pillars of appropriate size and fixing of iron pipe gate with four square column	Prorata	82.69	97.37	180
0	Construction of approach road and inspection path	Prorata	285.75	0	286
1	Watch and ward @15325 per month for 4 months	Prorata	1490.77	0	1491
2	Construction of Thatched cattle guard hut.	Prorata	145.92	78.11	224
3	Cost of grass and other seeds	Prorata	0.00	242.89	243
4	Labour amenities	Prorata	94.85	85.6	180
5	Purchase of tools and plants	Prorata	0.00	110.21	110
5	Purchase or construction of water storage tank.	Prorata	81.47	48.15	130
7	Purchase of signboards and their fixing	Prorata	32.83	92.02	125
8	Misc. and unforeseen expenses including running of vehicles	Prorata	154.43	162.64	317
	TOTAL YEAR 0		47613.44	2747.76	50361
					5036
9	Administrative charges 10%				55397
	TOTAL				

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YEAR I ( PLANTING YEAR )					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	74.76	73
2	Layout of of staggered/continuous contour trenches, V-ditches, contour dykes and pits etc. by contour survey in 1/4th area	71/ha	81.47	0	81
3	Digging of 600 pits of size 0.45 (4+5/2)*2 Cum	17.59/ pit.	12154.76	0	12155
4	Construction of silt detention dams/smial anicut/check dams, etc.	Prorata	3247.84	255.73	3504
5	Maintenance of 1210 seedling in nursery	2.11/ plant	2554.74	341.33	2896
6	Restoration of natural regeneration by making crescent shapad mounds on the lower slopes of seedling and sapling and making ring trenches around the natural trees/shrubs. (150 plant/ ha)	4.1/plant	707.69	0	708
7	Sowing of pellats of grass/pieces of seed mud cakes of grass seeds between row of pits by ploughing and furrowing.	Prorata	1011.68	62.06	1074
8	Sowing/dibbling of seeds of shurb species on the mounds of staggered/continuous contour trenches, "V" ditch and ditch fencing including pretreatment of seeds (370 rmt.)	0.59/ rmt.	238.33	11.77	250
9	Sowing of seeds of shrub spp. on 60 mt. "V" ditch	Prorata	42.56	3.21	46
10	Transportation of 1100 plants from nursery to planting site	1.41/plant	1714.51	68.48	1783
11	Planting of 1100 seedlings including Refilling of pits	3.58/plant	5189.73	0	5190
12	Making of 1100 crescent shaped mounds below planted sapling after planting and dibbling 2 or 3 seeds of shrub species on the mound.	3.16/plant	4534.32	0	4534
13	Spot watering & application of insecticides in 1100 plants in case of advance planting.	3.16/plant	4012.68	0	4013
14	Additional watering in case of long drought spell with insecticide.	3.57/plant	4012.68	0	4013
15	Weeding and hoeing of 1100 plants in 2 times.	2.03/plant	9041.90	0	9042
16	One additional hoeing of 1100 plants.	1.93/ plant	2581.49	0	2581
17	Wedding and hoeing on staggered/ continuous contour trenches and 'V' ditch including Singling/spacement in the	Prorata	813.48	0	813
18	Purchase of insecticide and Fertilizers for 1100 plants.	0.82/plant	0.00	906.29	906
19	Raising of 110 seedilings in nursery for casualty replacement in year-2 (10% of 1100)	3.93/seedling	317.37	157.29	475
20	Watch and ward @15325 per month for 12 months	prorata	4472.31	0	4472
21	Special protection of frost tender species.	Prorata	42.56	36.38	79
22	Labour aminities.	Prorata	200.63	23.54	224
23	Repairs of fencing.	193/hact.	237.11	9.63	247
24	Repairs of check dams.	Prorata	86.33	5.35	92
25	Micellaneous and unforeseen expenditure.	Prorata	160.51	117.7	278
TOTAL YEAR 1			57456.66	2071.52	59528
26	Administrative charges 10%				5953
TOTAL					65481

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First Year Maintenance ( year 2)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	72.76	73
2	Maintenance of 110 Seedling in nursery for casualty replacement in 2nd year	2.15 /plant	232.25	31.03	263
3	Casualty replacement 110 plants including redigging of pits, transportation planting, watering	11.55/plant	1382.55	69.55	1452
4	Sowing/dibbling of seeds of shrub species on the mounds of staggered/continuous contour trenches, "V" ditch and ditch fencing including pretreatment of seeds (185 m.)	0.61/ rmt.	124.03	5.35	129
5	Weeding and Hoeing in 1100 plants in pits two times	3.57/plant	9041.90	0	9042
6	Wedding and hoeing on staggered/ continuous contour trenches and 'V' ditch including Singing/ spacement in the line sowing. (185 rmt.)	3.82/plant	814.69	0	815
7	Repair of fencing	216/-ha.	237.11	9.63	247
8	Repairing of Check dams	Prorata	165.37	11.77	177
9	Pruning of Trees species to boost up the growth	Prorata	251.70	12.84	265
10	Wages of Chowkidar @ Rs.15325/ month (only applicable to work chage employee)	prorata	4472.31	0	4472
11	Misc. and unforeseen expenditure	prorata	147.13	67.41	215
TOTAL YEAR 2			16869.05	280	17149
12	Administrative charges 10%				1715
TOTAL					18864

SUBSEQUENT MAINTENANCE (YEAR 3 TO 12)					
1	Collection of datas regarding impact assesment and strengthening Joint Forest Management.	Prorata	0.00	72.76	73
2	Sowing/dibbling of seeds of shrub species on the mounds of staggered/continuous contour trenches, "V" ditch and ditch fencing including pretreatment of seeds (185 m.)	0.61/ rmt.	124.03	5.35	129
3	Repair of fencing	216/hact.	237.11	9.63	247
4	Repairing of Check dams	Prorata	8.51	6.42	15
5	Pruning of Trees species to boost up the growth	Prorata	125.24	4.28	130
6	Wages of Chowkidar @ Rs. 15325/- month (only applicable to work chage employee)	prorata	4472.31	0	4472
7	Maintenance of Vehicles	prorata	115.52	100.58	216
TOTAL YEAR 3.			5082.72	199	5282
Administrative charges 10%					528
				Total	5810

0Year	55397
First Year	65481
Second Year	18864
Third Year	5810
Fourth Year	5810
Fifth Year	5810
Sixth Year	5810
Seventh Year	5810
Eighth year	5810
Ninth Year	5810
Tenth Year	5810
Eleventh Year	5810
Twelfth Year	5810
Total	197842
Say	198000

उप वन संरक्षक (प्रशासन)  
प्रधान मुख्य वन संरक्षक

(अमर सिंह गोठवाल)  
मुख्य वन संरक्षक (आयोजक),  
राजस्थान, जगपुर