

Model Rate Structure for Compensatory Afforestation

Model No.4

Model rate structure for plantation of mixed tree species having rainfall upto 800 mm and medium quality, medium drained soil.

Region - Central India

Specimen

Forest - Kumbhariya

Size of Pits

0.45 x 0.45 x 0.45 m

Forest - Kumbhariya

No. of Seedlings

1111 per ha

A. Pre-Monsoon Works - G.Ot No-142

Total Plants -2044

Per Hectore

As per condition on the spot 100 Hectore

Particulars of works

Man days

Wages

Material supply

Total (Rs. Per Ha.)

Area

Man days

Wages

Material supply

Total (Rs. Per Ha.)

Sanction Letter No.

A. Pre-Monsoon Works PRO/NO

1. Preparation of treatment map (100m X 50 m grid)	1.00	356.35	91.00	447.35	1	1.00	356.35	91.00	447.35	Item No. 1b
2. Digging trial pits of size 0.30 X 0.30 X 0.60 m	0.40	142.54	0.00	142.54	1	0.40	142.54	0.00	142.54	Item No. 1c
3. Digging trial pits upto 0.05m X 0.05m X 1.2 cm cement pillars upto 0.30m deep in corner of grid, painting with Grid No. for complete pillars (Rs. 75/- for each pillar)	0.00	0.00	225.00	225.00	1	0.00	0.00	225.00	225.00	Item No. 3
4. Clearing of bushes and preparation of site (As per requirement)	10.00	3563.50	91.00	3654.50	1	10.00	3563.50	91.00	3654.50	Item No. 1c
5. Soil and moisture conservation works including collection of rubbles from areas upto 30 m etc.	31.00	11046.85	0.00	11046.85	1	31.00	11046.85	0.00	11046.85	Item No. 2
6. Provision and fixing chain link fencing, 102 Km per ha (With one gate - two wire mesh for one site) (Rs. 1494/- per Km of basic rate - 20% for transportation of axle 1 each plus 20% for tribal remote area (by tender process) (Rs. 1494/- 149 - 1792/- per Km of 1.60 Km length with 6.1 C chain link size 30mm X 50mm X 8 gauge, thick and fixed 25mm above alignment of pits at 5m X 5m spacement, 1111 pits per 100 pits @ 76 MLD, 115.8.18 per 100 pits)	2.89	1029.85	91.00	1120.85	1	2.89	1029.85	91.00	1120.85	Item No. 4
7. Digging of pits of size 0.45 X 0.45 X 0.45m (1111 pits per ha @ 60 MLD per 100 pits. Note :- As per local conditions provision for mechanized digging can be made)	73.33	26131.15	0.00	26131.15	1	73.33	26131.15	0.00	26131.15	Item No. 5
8. Construction of 5.00 Km wide Inspection Path (ILD, 100 Km)	1.7	356.35	0.00	356.35	1	1.00	356.35	0.00	356.35	Item No. 6

As per SSK rates 2017-18 Item No. 1711

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ation of all valuable plant species at plantation and seed source counting and providing color band and recording the same in Register (0.75 MTD per 100 plants)									
8	By labor and time (4 feet x 1 foot) information board 600 per side	0.75	767.76	55.00	767.76	1	0.75	767.76	Item No. 9
9	Plant Nursery cost of raising 1333 seedlings per ha (cost of labor, 20% casualty replacement in poly bags of 12 x 12 x 8 cm, Wages Rs. 11.90 and M.A.N. Rs. 1.67 per plant)	0.00	0.00	5000.00	5000.00	1	0.00	0.00	Item No. 10
		46.70	16641.55	4798.80	21410.35	1	46.70	16641.55	Item No. 9
									casualty in total of 10%
	Total	168.07	50891.74	193278.40	254170.14		168.07	50891.74	
	Contingency 3%								
	Labour Welfare 4%								
	Grand Total								270892.05

B. First Year Operations

1	Plant Nursery cost for maintenance of 1333 seedling per ha (Rs. 2.04 per seedling) (Wages Rs. 2.69, M.A.N. Rs. 0.87)	14.80	5273.98	91.00	5364.98	1	14.80	5273.98	Item no. 2
2	Rectifying of pits by good quality soil including application of single super phosphate (1.66 MTD per 1000 plants)	18.44	6571.09	1944.25	8515.34	1	18.44	6571.09	Item no. 3
3	Transportation of 1333 seedlings from Nursery to plantation site including loading & unloading (0.14 MTD Per 100 seedlings & M.A.N. Rs.1.82 per seedlings)	1.87	666.37	2426.00	3092.37	1	1.87	666.37	Item no. 3
4	Planting of 1333 seedlings (10 MTD Per 100 seedlings)	11.11	3959.05	0.00	3959.05	1	11.11	3959.05	Item no. 4
5	3 seedlings (1 Rm circular) and 2 soil workings (4.00 MTD Per 100 seedlings) fertilizer application Rs. 0.82 per seedling	44.44	15836.19	911.02	16747.21	1	44.44	15836.19	Item no. 5
6	Casualty replacement (20% 222 Seedlings per ha.) (2 MTD Per 100 seedlings)	4.44	1582.19	0.00	1582.19	1	4.44	1582.19	Item no. 6
7	Plant Nursery cost for casualty replacement in SYO (222 seedlings per ha.) (wages Rs. 11.90 and material supply Rs.3.62 total Rs.12.55 per seedling)	7.78	2772.40	803.64	3576.04	1	7.78	2772.40	Item no. 8
8	Watch and ward (9 months - 1 watcher per 10 ha)	27.38	9756.86	0.00	9756.86	1	27.38	9756.86	Item no. 9
9	Soil working for naturally grower plants and singling (1.15 MTD Per 100 plants)	1.15	409.80	10.00	419.80	1	1.15	409.80	Item no. 10
10	Fire tracing	2.00	712.70	0.00	712.7	1	2.00	712.70	Item no. 12
	Total	133.41	47540.65	6185.91	53726.56		133.41	47540.65	
	Contingency 3%								
					1611.80				

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Labour Welfare 4%

Grand Total

2149.06
57487.42

2149.06
57487

C. Second Year Operations

1. Operation cost for seedlings for causality proportion of 222 seedlings per ha Labour rate of Rs. 5.00 and M.S. Rs. 1.82 per seedlings	2.46	876.62	404.04	1280.66	1	2.46	876.62	404.04	1280.66	Item no. 2 20% Instead of 10%
2. Transportation of 222 seedlings for causality of seedling from nursery to plantation site (including loading and unloading) wages @ 14 M.D. Per 100 seedlings M.S. Rs. 1.82 per seedlings	0.31	110.47	404.04	514.51	1	0.31	110.47	404.04	514.51	Item no. 3 20% Instead of 10%
3. Planting, daily steady replacement 222 seedlings (2.00 M.S. Per 100 seedlings)	4.44	1582.19	0.00	1582.19	1	4.44	1582.19	0.00	1582.19	Item no. 4
4. Seedlings and 1 soil working with fertilizer application 2.8 M.D. Per 100 seedlings at M.S. Rs. 0.82 per seedlings	27.77	9895.84	911.02	10806.86	1	27.77	9895.84	911.02	10806.86	Item no. 6
5. Watch and ward 12 months - 1 watcher per 10.00 ha 0.82 per seedlings	36.50	13006.78	0.00	13006.775	1	36.50	13006.78	0.00	13006.78	Item no. 8
6. Line tracing	2.00	712.70	0.00	712.7	1	2.00	712.70	0.00	712.70	
Total	73.48	26184.60	1719.10	27903.70		73.48	26184.60	1719.10	27903.70	
Contingency 3%				837.11		0.00	0.00	0.00	837.11	
Labour Welfare 4%				1116.15		0.00	0.00	0.00	1116.15	
Grand Total				29856.96		0.00	0.00	0.00	29856.96	

D. Third Year Operations

1. Seedling and 1 soil working (1.50 M.D. per 100 seedlings) applying fertilizer @ Rs. 0.82 per plant.	16.67	5940.35	911.02	6851.37	1	16.67	5940.35	911.02	6851.37	1 extra Dec 07 to 2018 Integrated & Income Plantation Model no. 1 Item No. 1
2. Watch and ward 12 months 1 watcher per 10.00 ha	36.50	13006.78	0.00	13006.775	1	36.50	13006.78	0.00	13006.78	Item no. 3
3. Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	712.70	25.00	737.7	1	2.00	712.70	25.00	737.70	Item no. 5
4. Line tracing	2.00	712.70	0.00	712.7	1	2.00	712.70	0.00	712.70	Item no. 6
Total	57.17	20372.53	936.02	21308.55		57.17	20372.53	936.02	21308.55	
Contingency 3%				639.26		0.00	0.00	0.00	639.26	
Labour Welfare 4%				852.34					852.34	
Grand Total				22800.15		0.00	0.00	0.00	22800.15	

F. Fourth Year Operations

1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	13006.78	0.00	13006.775	1	36.50	13006.78	0.00	13006.78	After Dr 07.03.2018 Integrated & Resource Plantation Sheld no.1 Item No. 1
2	Counting of survival percentage Grid wise and Species wise and to Notethe same on Register in May and October	2.00	712.70	25.00	737.7	1	2.00	712.70	25.00	737.70	Item no.2
3	Fire tracing	2.00	712.70	0.00	712.7	1	2.00	712.70	0.00	712.70	Item no.3
	Total	40.50	14432.18	25.00	14457.18		40.50	14432.18	25.00	14457.18	
	Contingency 3%				433.72					433.72	
	Labour Welfare 4%				578.29					578.29	
	Grand Total				15469.18					15469.18	

F. Fifth Year Operations

1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	13006.78	0.00	13006.775	1	36.50	13006.78	0.00	13006.78	1	After Dr 07.03.2018 Integrated & Resource Plantation Sheld no 1 Item No. 1
2	Counting of survival percentage Grid wise and Species wise and to Notethe same on Register in May and October	2.00	712.70	25.00	737.7	1	2.00	712.70	25.00	737.70	Item no.2	
3	Fire tracing	2.00	712.70	0.00	712.7	1	2.00	712.70	0.00	712.70	Item no.3	
	Total	40.50	14432.18	25.00	14457.18		40.50	14432.18	25.00	14457.18		
	Contingency 3%				433.72					433.72		
	Labour Welfare 4%				578.29					578.29		
	Grand Total				15469.18					15469.18		

G. Six Year Operations

1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	13006.78	0.00	13006.775	1	36.50	13006.78	0.00	13006.78	Integrated & Resource Plantation Sheld no 1 Item No. 1
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	712.70	25.00	737.7	1	2.00	712.70	25.00	737.70	Item no. 2
3	Fire tracing	2.00	712.70	0.00	712.7	1	2.00	712.70	0.00	712.70	Item no. 3
	Total	40.50	14432.18	25.00	14457.18		40.50	14432.18	25.00	14457.18	
	Contingency 3%				433.72					433.72	
	Labour Welfare 4%				578.29					578.29	
	Grand Total				15469.18					15469.18	

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[illegible]

1. Eighth Year Operations

[illegible]

4. Ninth Year Operations

1	2	3	4	5	6	7	8	9	10	11	12
1	Watch and ward 12 months 1 watch per 10.00 ha										
2		36.50	13006.78	0.00	13006.775	1	36.50	13006.78	0.00	13006.78	1 after 10.07.03 70% Irrigated & 30% Plantation Model in Item No 1
3	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	712.70	25.00	737.7	1	2.00	712.70	25.00	737.70	Item no. 2
4	100 ha grid	2.00	712.70	0.00	712.7	1	2.00	712.70	0.00	712.70	Item no. 3
5		40.50	14432.18	25.00	14457.18		40.50	14432.18	25.00	14457.18	
6	Total				433.72					433.72	
7	Contingency 3%				578.29					578.29	
8	Labour Welfare 4%										
9	Grand Total				15469.18					15469.18	

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K. Tenth Year Operations

W. of ground & 1 st months 1 watch per 10.00 ha	1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	8 th	9 th	10 th	11 th	12 th	13 th	14 th	15 th	16 th	17 th	18 th	19 th	20 th	21 st	22 nd	23 rd	24 th	25 th	26 th	27 th	28 th	29 th	30 th	31 st	32 nd	33 rd	34 th	35 th	36 th	37 th	38 th	39 th	40 th	41 st	42 nd	43 rd	44 th	45 th	46 th	47 th	48 th	49 th	50 th	51 st	52 nd	53 rd	54 th	55 th	56 th	57 th	58 th	59 th	60 th	61 st	62 nd	63 rd	64 th	65 th	66 th	67 th	68 th	69 th	70 th	71 st	72 nd	73 rd	74 th	75 th	76 th	77 th	78 th	79 th	80 th	81 st	82 nd	83 rd	84 th	85 th	86 th	87 th	88 th	89 th	90 th	91 st	92 nd	93 rd	94 th	95 th	96 th	97 th	98 th	99 th	100 th	101 st	102 nd	103 rd	104 th	105 th	106 th	107 th	108 th	109 th	110 th	111 st	112 nd	113 rd	114 th	115 th	116 th	117 th	118 th	119 th	120 th	121 st	122 nd	123 rd	124 th	125 th	126 th	127 th	128 th	129 th	130 th	131 st	132 nd	133 rd	134 th	135 th	136 th	137 th	138 th	139 th	140 th	141 st	142 nd	143 rd	144 th	145 th	146 th	147 th	148 th	149 th	150 th	151 st	152 nd	153 rd	154 th	155 th	156 th	157 th	158 th	159 th	160 th	161 st	162 nd	163 rd	164 th	165 th	166 th	167 th	168 th	169 th	170 th	171 st	172 nd	173 rd	174 th	175 th	176 th	177 th	178 th	179 th	180 th	181 st	182 nd	183 rd	184 th	185 th	186 th	187 th	188 th	189 th	190 th	191 st	192 nd	193 rd	194 th	195 th	196 th	197 th	198 th	199 th	200 th	201 st	202 nd	203 rd	204 th	205 th	206 th	207 th	208 th	209 th	210 th	211 st	212 nd	213 rd	214 th	215 th	216 th	217 th	218 th	219 th	220 th	221 st	222 nd	223 rd	224 th	225 th	226 th	227 th	228 th	229 th	230 th	231 st	232 nd	233 rd	234 th	235 th	236 th	237 th	238 th	239 th	240 th	241 st	242 nd	243 rd	244 th	245 th	246 th	247 th	248 th	249 th	250 th	251 st	252 nd	253 rd	254 th	255 th	256 th	257 th	258 th	259 th	260 th	261 st	262 nd	263 rd	264 th	265 th	266 th	267 th	268 th	269 th	270 th	271 st	272 nd	273 rd	274 th	275 th	276 th	277 th	278 th	279 th	280 th	281 st	282 nd	283 rd	284 th	285 th	286 th	287 th	288 th	289 th	290 th	291 st	292 nd	293 rd	294 th	295 th	296 th	297 th	298 th	299 th	300 th	301 st	302 nd	303 rd	304 th	305 th	306 th	307 th	308 th	309 th	310 th	311 st	312 nd	313 rd	314 th	315 th	316 th	317 th	318 th	319 th	320 th	321 st	322 nd	323 rd	324 th	325 th	326 th	327 th	328 th	329 th	330 th	331 st	332 nd	333 rd	334 th	335 th	336 th	337 th	338 th	339 th	340 th	341 st	342 nd	343 rd	344 th	345 th	346 th	347 th	348 th	349 th	350 th	351 st	352 nd	353 rd	354 th	355 th	356 th	357 th	358 th	359 th	360 th	361 st	362 nd	363 rd	364 th	365 th	366 th	367 th	368 th	369 th	370 th	371 st	372 nd	373 rd	374 th	375 th	376 th	377 th	378 th	379 th	380 th	381 st	382 nd	383 rd	384 th	385 th	386 th	387 th	388 th	389 th	390 th	391 st	392 nd	393 rd	394 th	395 th	396 th	397 th	398 th	399 th	400 th	401 st	402 nd	403 rd	404 th	405 th	406 th	407 th	408 th	409 th	410 th	411 st	412 nd	413 rd	414 th	415 th	416 th	417 th	418 th	419 th	420 th	421 st	422 nd	423 rd	424 th	425 th	426 th	427 th	428 th	429 th	430 th	431 st	432 nd	433 rd	434 th	435 th	436 th	437 th	438 th	439 th	440 th	441 st	442 nd	443 rd	444 th	445 th	446 th	447 th	448 th	449 th	450 th	451 st	452 nd	453 rd	454 th	455 th	456 th	457 th	458 th	459 th	460 th	461 st	462 nd	463 rd	464 th	465 th	466 th	467 th	468 th	469 th	470 th	471 st	472 nd	473 rd	474 th	475 th	476 th	477 th	478 th	479 th	480 th	481 st	482 nd	483 rd	484 th	485 th	486 th	487 th	488 th	489 th	490 th	491 st	492 nd	493 rd	494 th	495 th	496 th	497 th	498 th	499 th	500 th	501 st	502 nd	503 rd	504 th	505 th	506 th	507 th	508 th	509 th	510 th	511 st	512 nd	513 rd	514 th	515 th	516 th	517 th	518 th	519 th	520 th	521 st	522 nd	523 rd	524 th	525 th	526 th	527 th	528 th	529 th	530 th	531 st	532 nd	533 rd	534 th	535 th	536 th	537 th	538 th	539 th	540 th	541 st	542 nd	543 rd	544 th	545 th	546 th	547 th	548 th	549 th	550 th	551 st	552 nd	553 rd	554 th	555 th	556 th	557 th	558 th	559 th	560 th	561 st	562 nd	563 rd	564 th	565 th	566 th	567 th	568 th	569 th	570 th	571 st	572 nd	573 rd	574 th	575 th	576 th	577 th	578 th	579 th	580 th	581 st	582 nd	583 rd	584 th	585 th	586 th	587 th	588 th	589 th	590 th	591 st	592 nd	593 rd	594 th	595 th	596 th	597 th	598 th	599 th	600 th	601 st	602 nd	603 rd	604 th	605 th	606 th	607 th	608 th	609 th	610 th	611 st	612 nd	613 rd	614 th	615 th	616 th	617 th	618 th	619 th	620 th	621 st	622 nd	623 rd	624 th	625 th	626 th	627 th	628 th	629 th	630 th	631 st	632 nd	633 rd	634 th	635 th	636 th	637 th	638 th	639 th	640 th	641 st	642 nd	643 rd	644 th	645 th	646 th	647 th	648 th	649 th	650 th	651 st	652 nd	653 rd	654 th	655 th	656 th	657 th	658 th	659 th	660 th	661 st	662 nd	663 rd	664 th	665 th	666 th	667 th	668 th	669 th	670 th	671 st	672 nd	673 rd	674 th	675 th	676 th	677 th	678 th	679 th	680 th	681 st	682 nd	683 rd	684 th	685 th	686 th	687 th	688 th	689 th	690 th	691 st	692 nd	693 rd	694 th	695 th	696 th	697 th	698 th	699 th	700 th	701 st	702 nd	703 rd	704 th	705 th	706 th	707 th	708 th	709 th	710 th	711 st	712 nd	713 rd	714 th	715 th	716 th	717 th	718 th	719 th	720 th	721 st	722 nd	723 rd	724 th	725 th	726 th	727 th	728 th	729 th	730 th	731 st	732 nd	733 rd	734 th	735 th	736 th	737 th	738 th	739 th	740 th	741 st	742 nd	743 rd	744 th	745 th	746 th	747 th	748 th	749 th	750 th	751 st	752 nd	753 rd	754 th	755 th	756 th	757 th	758 th	759 th	760 th	761 st	762 nd	763 rd	764 th	765 th	766 th	767 th	768 th	769 th	770 th	771 st	772 nd	773 rd	774 th	775 th	776 th	777 th	778 th	779 th	780 th	781 st	782 nd	783 rd	784 th	785 th	786 th	787 th	788 th	789 th	790 th	791 st	792 nd	793 rd	794 th	795 th	796 th	797 th	798 th	799 th	800 th	801 st	802 nd	803 rd	804 th	805 th	806 th	807 th	808 th	809 th	810 th	811 st	812 nd	813 rd	814 th	815 th	816 th	817 th	818 th	819 th	820 th	821 st	822 nd	823 rd	824 th	825 th	826 th	827 th	828 th	829 th	830 th	831 st	832 nd	833 rd	834 th	835 th	836 th	837 th	838 th	839 th	840 th	841 st	842 nd	843 rd	844 th	845 th	846 th	847 th	848 th	849 th	850 th	851 st	852 nd	853 rd	854 th	855 th	856 th	857 th	858 th	859 th	860 th	861 st	862 nd	863 rd	864 th	865 th	866 th	867 th	868 th	869 th	870 th	871 st	872 nd	873 rd	874 th	875 th	876 th	877 th	878 th	879 th	880 th	881 st	882 nd	883 rd	884 th </
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