

Range Forest Office Dahiwadi

Model Rate Structure for Compensatory Afforestation Model No.5

Fencing and Irrigated Plantations

Model rate Structure of plantation of mixed tree species having rainfall less than 800 mm and medium quality, medium drained soil
Name of project- Hastanpur(Gherewadi) underground pipe line proposal

spacing - 3m x 3m

size of pits - 0.45x0.45x0.45m

no.of seedlings - 1111 per ha

village name- Rajwadi FC.879

wage rate 356.3
ha 1

sr. no	particulars of works	man days	wages	material supply	Total	ha	man days	wages	material supply	Total
	A.pre Mansoon works PPO/PYO									
1	a) Survey and demarcation	1	356.34	91	447.34	1	1.00	356.34	91.00	447.34
	b) Preparation of treatment map (100 x 50m grid)	1	356.34	91	447.34	1	1.00	356.34	91.00	447.34
	c) Digging trial pits of size 0.30x0.30x0.60 in corner of Grid.	0.4	142.54	0	142.54	1	0.40	142.54	0.00	142.54
	d) Fixing 60cm x 0.05cm x 12cm cement pillars upto 30cm deep in corner of grid, painting with Grid no etc complete (3 pillars rs75/- for each pillars)	0	0	225	225					
	e) Clearing of bushes and preparation of site (As per requirement)	10	3563.4	91	3654.4	1	10.00	3563.40	91.00	3654.40
2	soil and moisture conservation works including collection of rubbels from areas upto 30m etc	31	11047	0	11047	1	31.00	11046.54	0.00	11046.54
3	providing and fixing chain link fencing 102 Rmt per ha (with one gate two wickets gates for one site) (Rs.1494/- per Rmt of basic rate + 20% for tribal/remote area (by tender process) (Rs.1494+149+149=1792/- per Rmt (1.60 Rmt height with G.I. Chain link size 50mmx50m. 8 gauge thick and fixed 75mm above ground level complete as per SSR item no.1744 for201.18	0	0	182866	182866	1	0.00	0.00	182865.60	182865.60

4	Alignment of pits at 3mx3m spacement 1111pits per ha (0.25 per 100 pits and M&S @ Rs.2.24per 50 pits	2.78	990.63	49.77	1040.4	1	2.78	990.63	49.77	1040.40
5	Digging of pits of size 0.45x0.45x0.45m (1111 pits per ha) 6.60 M.D.per 100 pits Note - As per local conditions provision for mechanized digging can be made	73.33	26130	0	26130	1	73.33	26130.41	0.00	26130.41
6	Construction of 5.00 Rmt wide Inspection path IM.D.per 100 Rmt	1	356.34	0	356.34	1	1.00	356.34	0.00	356.34
7	Enumeration of all valuable plant species at plantation site and grid wise counting and providing color band and recording the same in register (0.75 M.D) per 100 plants	0.75	267.26	25	292.26	1	0.75	267.26	25.00	292.26
8	Providing and fixing (4 feetx 3 feet) Information board each per site	0	0	5000	5000	1	0.00	0.00	5000.00	5000.00
9	Part Nursery cost of raising 1333 seedlings per ha (including 20% casualty replacement) in polygons of size 12.50 x 25.00 cm (wages Rs.11.90 and M&S Rs.3.62 per plant)	46.71	16645	4825.5	21470	1	46.71	16644.64	4825.46	21470.10
	Total	167.97	59854	193264	253118		167.97	59854.43	193263.83	253118.26
	Contingency 3%			7593.5	7593.5				7593.5478	7593.5478
	Labour welfare 4%			10125	10125				10124.73	10124.73
	Grand Total	167.97	59854	210982	270837				210982.11	270837


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Name of project- Hastanpur(Gherwadi) uderground pipe line proposal

spacement - 3m x 3m

size of pits - 0.45x0.45x0.45m

no. of seedlings - 1111 per ha

village name- Rajwadi FC-879

village name- Rajwadi FC-879														
sr.n	particulars of works	W.Rate 356.34			ha 1			man days	Total			wages	material supply	Total
		man days	wages	material supply	ha	man days	wages		material supply					
B. First Year operations														
1	Part Nursery cost for maintenance of 1333 seedling per ha	14.8	5273.8	1079.3	6353.1	1	5273.832	1079.3	1	14.8	5273.832	1079.3	6353.132	
2	Rs.3.77 per seedling (wages Rs.2.69, M&S Rs.0.81)													
3	Refilling of pits by good quality soil including application of single super phosphate (1.66 MD per 100 pits)	18.44	6570.9	1944.3	8515.2	1	6570.91	1944.25	1	18.44	6570.91	1944.25	8515.1596	
4	Transportation of 1333 seedlings from Nursery to plantation site													
5	Including loading & uplodng (0.14M.D per 100 seedlings & M.S Rs.1.82 per seedlings)	1.87	666.36	2426	3092.4	1	666.3558	2426	1	1.87	666.3558	2426	3092.3558	
6	planting of 1111 seedlings (1.0 M.D per 100 seedlings)	11.11	3958.9	0	3958.9	1	3958.937	0	1	11.11	3958.937	0	3958.9374	
7	3 seedlings (18mt circular) and 2 soil workings (4.00 M.D per 100 seedlings) fertilizer application Rs.0.82 per seedlings	44.44	15836	911.02	16747	1	15835.75	911.02	1	44.44	15835.75	911.02	16746.77	
8	watering 1111 seedlings November and december 1 time each, January to march 2 times each per seedlings 5 litre water, purchase of 1111 plastic can of 5 litre/matka@Rs.25/- each and 100 litre capacity 11 drums @Rs.400/- each for supplying water and water supply at Rs.0.05 per litre and wages for watering 1 M.D for 150 seedlings.	59.25	21113	54395	75508	1	21113.15	54395	1	59.25	21113.15	54395	75508.145	
9	Casualty replacement (20% 222 seedlings per ha) (2 M.D per 100 seedlings)	4.44	1582.1	0	1582.1	1	1582.15	0	1	4.44	1582.15	0	1582.1496	

8	Part Nursery cost for causality replacement is SYO (222 seedlings per ha) (wages Rs.11.90 and material supply Rs. 3.62 Total 12.55 per seedling)	7.77	2768.8	803	3571.8	1	7.77	2768.762	803	3571.7618
9	Watch and ward (10 months- 1 watcher per 10ha)	27.38	9756.6	0	9756.6	1	27.38	9756.589	0	9756.5892
10	Soil working for naturally grower plants and singling (1.15 M.D per 100 plants)	1.15	409.79	10	419.79	1	1.15	409.791	10	419.791
11	Fire tracing	2	712.68	0	712.68	1	2	712.68	0	712.68
	Total	192.65	68649	61569	130217		192.65	192.65	61568.57	130217.47
	Contingency 3%			3906.5	3906.5				3906.5241	3906.5241
	Labour welfare 4%			5208.7	5208.7				5208.6988	5208.6988
	Grand Total				139333				70683.793	139333

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Model rate Structure of plantation of mixed tree species having rainfall less than 800 mm and medium quality, medium drained soil

Model rate Structure of plantation of mixed tree species having rainfall less than 800 mm and medium quality, medium drained soil

Name of project- Hastanpur (Gherewadi) underground pipe line proposal
 spacement - 3m x 3m
 size of pits - 0.45x0.45x0.45m
 no. of seedlings - 1111 per ha
 village name- Rajwadi FC.879

villag name- Rajwadi FC.879															
W.Rate 356.34 ha 1															
sr.	particulars of works	man days	wages	material supply	ha		man days	wages	material supply	Total	ha	man days	wages	material supply	Total
C.Second Year Operations															
1	Part nursery cost for seedlings for causality replacement (222 seedlings per ha) labour rate @Rs.3.77 and M.S Rs.1.82 per seedlings	2.46	876.6	404		1280.6	1	2.46	876.5964	404		2.46	876.5964	404	1280.5964
2	Transportation of 222 seedlings for causality replacement from nursery to plantation site (Including loading and uploading) wages 0.14 M.D per 100 seedling & M.S Rs.1.82 per seedlings	0.31	110.47	404.04		514.51	1	0.31	110.4654	404.04		0.31	110.4654	404.04	514.5054
3	Planting for causality replacement 222 seedlings (2.00 M.D. per 100 seedlings)	4.44	1582.1	0		1582.1	1	4.44	1582.15	0		4.44	1582.15	0	1582.1496
4	2 weedings and 1 soil working, with fertilizer application 2.5 M.D per 100 seedlings at M.S Rs.0.82 per seedling	27.77	9895.6	911.02		10807	1	27.77	9895.562	911.02		27.77	9895.562	911.02	10806.582
5	Watering 1111 seedlings November and december 1 time each, Febuary to May 2 times each total 12 times 5 litre per seedlings, replacing 10% plastic can/matka @ Rs.25/- each replacing 111 cans/matka supplying water @ Rs.0.50/- litre and watering 150 seedlings per M.D.	88.88	31671	36105		67776	1	88.88	31671.5	36105					67776.499
6	Watch and ward 12 months - 1 watcher per 10.00 ha	36.5	13006	0		13006	1	36.5	13006.41	0		36.5	13006.41	0	13006.41
7	Fire tracing	2	712.68	0		712.68	1	2	712.68	0		2	712.68	0	712.68
	Total	162.36	57855	37824		95679		162.36	57855.36	37824.06				2870.3827	95679.422
	Contingency 3%			2870.4		2870.4								2870.3827	2870.3827
	Labour welfare 4%			3827.2		3827.2								3827.1769	3827.1769
	Grand Total			44522		102377				44521.62				44521.62	102377

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Fencing and Irrigated Plantations

Model rate Structure of plantation of mixed tree species having rainfall less than 800 mm and medium quality, medium drained soil

Name of project- Hastanpur(Gherewadi) undergrround pipe line proposal
 spacement - 3m x 3m
 size of pits - 0.45x0.45x0.45m
 no.of seedlings - 1111 per ha
 villag name- Rajwadi FC.879

W.Rate 356.34 ha 1

sr. no	particulars of works	man days	wages	material supply	Total	ha	man days	wages	material supply	Total
	D.Third Year operations									
1	1 weeding and 1 soil working (1.50 M.D per 100 seedlings) applying fertilizer@Rs.0.82 per plant	16.67	5940.2	911.02	6851.2	1	16.67	5940.188	911.02	6851.2078
2	Watering 556 seedlings in November, December, January and June 1 time each and february to may 2 times each total 12 times per seedlings 5 litre water supply @ Rs.050/- litre and watering 150 seedlings per M.D	44.48	15850	16680	32530	1	44.48	15850	16680	32530.003
3	Watch and ward 12 month watcher per 10.00 ha	36.5	13006	0	13006	1	36.5	13006.41	0	13006.41
4	Counting of survival percentage grid wise and species wise and to note the same on register in may and october	2	712.68	25	737.68	1	2	712.68	25	737.68
5	Fire tracing	2	712.68	0	712.68	1	2	712.68	0	712.68
	Total	101.65	101.65	17616	53838		101.65	101.65	17616.02	53837.981
	Contingency 3%			1615.1	1615.1				1615.1394	1615.1394
	Labour welfare 4%			2153.5	2153.5				2153.5192	2153.5192
	Grand Total	101.65		21385	57607				21384.679	57607

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Fencing and Irrigated Plantations

Model rate Structure of plantation of mixed tree species having rainfall less than 800 mm and medium quality, medium drained soil
Name of project- Hastanpur(Gherewadi) underground pipe line proposal

spacing - 3m x 3m
size of pits - 0.45x0.45x0.45m
no.of seedlings - 1111 per ha
village name- Rajwadi FC.879

W.Rate 356.34 ha 1

sr. no	particulars of works	man days	wages	material supply	Total	ha	man days	wages	material supply	Total
	E.Fourth Year operations									
1	watch and ward 12 months 1 watcher per 10.00 ha	36.5	13006	0	13006	1	36.5	13006.41	0	13006.41
2	Counting of survival percentage grid wise and species wise and to note same on register in may and octomber	2	712.68	25	737.68	1	2	712.68	25	737.68
3	Fire tracing	2	712.68	0	712.68	1	2	712.68	0	712.68
	Total	40.5	40.5	25	14457		40.5	14431.77	25	14456.77
	Contingency 3%			433.7	433.7				433.7031	433.7031
	Labour welfare 4%			578.27	578.27				578.2708	578.2708
	Grand Total	40.5	40.5	1037	15469					15469


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Name of project- Hastanpur(Gherewadi) underground pipe line proposal

spacing - 3m x 3m
size of pits - 0.45x0.45x0.45m
no. of seedlings - 1111 per ha
village name- Rajwadi FC.879

sr. no	particulars of works	W.Rate 356.34 ha 1					man days	wages	material supply	Total	ha	man days	wages	material supply	Total
		man days	wages	material supply	Total										
	F.Fifth Year operations														
1	watch and ward 12 months 1 watcher per 10.00 ha	36.5	13006	0	13006	1	36.5	13006.41	0	13006.41					
2	Counting of survival percentage grid wise and species wise and to note same on register in may and octomber	2	712.68	25	737.68	1	2	712.68	25	737.68		2	712.68	0	712.68
3	Fire tracing	40.5	14432	25	14457		40.5	14431.77	25	14456.77		40.5	14431.77	25	14456.77
	Total			433.7	433.7				433.7031	433.7031				578.2708	578.2708
	Contingency 3%			578.27	578.27										
	Labour welfare 4%														
	Grand Total	40.5	14432		15469		40.5	14431.77		15469		40.5	14431.77		15469

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Fencing and Irrigated Plantations

Fencing and Irrigated Plantations
medium drained soil

Model rate Structure of plantation of mixed tree species having rainfall less than 800 mm and medium quality, medium drained soil

Name of project- Hastanpur(Gherewadi) uderground pipe line proposal

spacement - 3m x 3m

size of pits - 0.45x0.45x0.45m

no. of seedlings - 11111 per ha

village name- Rajwadi FC.879

sr. no	particulars of works	W.Rate 356.34 ha 1					Total	material supply	wages	man days	ha	material supply	wages	man days	Total
		man days	wages	material supply	ha	man days									
	G.Sixth Year operations														
1	watch and ward 12 months 1 watcher per 10.00 ha	36.5	13006	0	1	36.5	13006.41	0	13006.41						13006.41
2	Counting of survival percentage grid wise and species wise and to note same on register in may and octomber	2	712.68	25	1	2	712.68	25	712.68	2	1	25	712.68	2	737.68
3	Fire tracing	40.5	14432	25		40.5	14431.77	25	14431.77	40.5		25	14431.77	40.5	14456.77
	Total			433.7			433.7	433.7				433.7031			433.7031
	Contingency 3%			578.27			578.27	578.27				578.2708			578.2708
	Labour welfare 4%														
	Grand Total	40.5	14432			40.5	14431.77		14431.77	40.5				40.5	15469

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Model Rate Structure for Compensatory Afforestation Model No.5

Fencing and Irrigated Plantations

Fencing and Irrigated Plantations
medium quality, medium drained soil

Model rate Structure of plantation of mixed tree species having rainfall less than 800 mm and medium quality, medium drained soil

Name of project- Hastampur(Gherewadi) underground pipe line proposal
spacing - 3m x 3m
size of pits - 0.45x0.45x0.45m
no. of seedlings - 1111 per ha
village name- Rajwadi FC.879

villag name- Rajwadi FC.879															
no.of seedlings 11111															
W.Rate 356.34 ha 1															
particulars of works		man days	wages	material supply	Total	ha	man days	wages	material supply	Total					
sr. no															Total
I.Eighth Year operations															
1	watch and ward 12 months 1 watcher per 10.00 ha	36.5	13006	0	13006	1	36.5	13006.41	0	13006.41					13006.41
2	Counting of survival percentage grid wise and species wise and to note same on register in may and octomber	2	712.68	25	737.68	1	2	712.68	25	737.68		2	712.68	0	712.68
3	Fire tracing	2	712.68	0	712.68	1	2	712.68	25	14431.77		40.5	14431.77	25	14456.77
	Total	40.5	14432	25	14457				433.7	433.7				433.7031	433.7031
	Contingency 3%								578.27	578.27				578.2708	578.2708
	Labour welfare 4%														
	Grand Total	40.5	14432		15469		40.5	14431.77		15469		40.5	14431.77		15469

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Fencing and Irrigated Plantations

Model rate Structure of plantation of mixed tree species having rainfall less than 800 mm and medium quality, medium drained soil

Name of project- Hastanpur(Gherewadi) uderground pipe line proposal

spacing - 3m x 3m

size of pits - 0.45x0.45x0.45m

no. of seedlings - 1111 per ha

village name- Rajwadi FC.879

sr. no	particulars of works	W.Rate 356.34 ha 1					Total	material supply	wages	man days	material supply	wages	man days	Total
		man days	wages	material supply	ha	man days								
	J.Ninth Year operations													
1	watch and ward 12 months 1 watcher per 10.00 ha	36.5	13006	0	1	36.5	13006.41	0	13006.41					13006.41
2	Counting of survival percentage grid wise and species wise and to note same on register in may and octomber	2	712.68	25	1	2	712.68	25	712.68	2	25	712.68	2	712.68
3	Fire tracing	40.5	14432	0	1	40.5	14431.77	25	14431.77	40.5	25	14431.77	40.5	14456.77
	Total													
	Contingency 3%													
	Labour welfare 4%													
	Grand Total	40.5	14432	578.27	15469	40.5	14431.77	578.2708	15469	40.5	578.2708	15469	40.5	15469

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Name of project- Hastanpur(Gherewadi) uderground pipe line proposal
spacement - 3m x 3m
size of pits - 0.45x0.45x0.45m
no.of seedlings - 1111 per ha
village name- Rajwadi FC.879

sr.	particulars of works	W.Rate 356.34 ha 1					Total	material supply	wages	man days	ha	Total	material supply	wages	man days	Total
		man days	wages	material supply	ha	1										
1	10. Tenth Year operations															
1	watch and ward 12 months 1 watcher per 10.00 ha	36.5	13006	0	13006	1	13006.41	0	13006.41	36.5	1	13006.41	0	13006.41	36.5	13006.41
2	Counting or survival percentage grid wise and species wise and to note same on register in may and octomber	2	712.68	25	737.68	1	712.68	25	712.68	2	1	737.68	25	712.68	2	737.68
3	Fire tracing	2	712.68	0	712.68	1	712.68	0	712.68	2	1	712.68	0	712.68	2	712.68
	Total	40.5	14432	25	14457		14431.77	25	14431.77	40.5		14457	25	14456.77	40.5	14456.77
	Contingency 3%															
	Labour Welfare 4%															
	Grand Total	40.5	14432		578.27		14431.77		14431.77	40.5		578.27		578.2708	40.5	578.2708
	Abstract															

sr.n	Particular	estimate	
		amount	
1	PYO + PPO Year Estimate amount	270837	
2	First Year Estimate amount	139333	
3	Second Year Estimate amount	102377	
4	Third Year Estimate amount	57607	
5	Fourth Year Estimate amount	15469	
6	Fifth Year Estimate amount	15469	
7	Sixth Year Estimate amount	15469	
8	Seventh Year Estimate amount	15469	
9	Eighth Year Estimate amount	15469	
10	Ninth Year Estimate amount	15469	
11	Tenth Year Estimate amount	678434	
	Grand Total		

(S. B. Chavan)
 Asst. Conservator of Forest
 (EGS & WL), Satara.

(Dr. Bharat Singh Hada)
 Deputy Conservator of Forests,
 Satara Forest Division, Satara.

Range Forest Officer
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