

Compensatory afforestation proposed on degraded forest gut no - 510 area of 1.00 ha. at Village- Kalkhairewadi Tal- Baramati Dist-Pune.

Model No.5 ,1111 plants per hector.

Abstract

Year	Amount In Rs.
PPO	278634.3
FYO	148278.06
SYO	109914.92
TYO	62325.97
4 TH YO	17349.05
5 TH YO	17349.05
6 TH YO	17349.05
7 TH YO	17349.05
8 TH YO	17349.05
9 TH YO	17349.05
10 TH YO	17349.05
TOTAL	720597.23



(Rahul Patil,IFS)
Deputy Conservator of Forest
Pune Forest Division,Pune

Enclosure to Principle Chief Conservator of Forest (HoFF), M.S.Nagpur Letter No. Desk -17/CA/NodalCell/ CR-40/1127/2019-20, Date 04/10/2019.

MODEL RATE STRUCTURE FOR COMPENSATORY AFFORESTATION

MODEL NO. 05

Fencing and Irrigated Plantations

Model rate structure for planation of Mixed tree species having rainfall less than 800 mm and medium quality, medium drained soil.

Spacement - 3m x3m
Size of pits - 0.45 x 0.45 x 0.45m
No. Of Seedlings - 1111 per ha.

Wages Rate
Per day
Range
Round
Beat
Baramati
Morgaon
Morgaon

Rs. 399.73 Gut no. 510

Village Chauranadi (Amount in Rs.)

S.No	Particulars of works	Man days	Wages	Material supply	Total (Rs. Per Ha.)	Sanction Letter Dt. / Model No. / Item No.
A.Pre Monsoon Works PPO/pvo						
1	(a) Survey and demarcation	1.00	399.73	91.00	490.73	Letter Dt. 07/03/2018 irrigated & Fencing plantation Model No. 1 ItemNo.1la
	(b) Preparation of treatment map (100 m x 50m grid)	1	399.73	91.00	490.73	Item no. 1b
	(c) Digging trial pits of size 0.30x0.30x0.60 in corner of Grid.	0.40	159.892	0.00	159.89	Item no. 1c
	(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. Rs.75/- for each pillars)	0	0	225.00	225.00	Item no. 1d
	(e) Clearing of bushes and preparation of site (As per requirement)	10	3997.3	91.00	4088.30	Item no. 1e
2	Soil and moisture conservation works including collection of rubbles from areas upto 30 m etc	31	12391.63	0.00	12391.63	Item no. 2

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 ansporation of ave. leadplus 20% for tribal/remote area (by tender process.) (Rs.1494+149+149=17921/- 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 for 2017-18)	0	0	182865.60	182865.60	As per SSR rates 2017-18 Item No. 1744
4	Alignment of pits at 2m x 2m spacement. 2500 pits per Ha(0.25 per 100 pits and M&S @Rs.2.24 per 50 pits.	2.78	1111.2494	49.77	1161.02	Item no. 4
5	Digging of pits of size 0.45 x 0.45 x 0.45 m (2500 pits per ha) 6.60 M.D per 100 pits. Note :- As per local conditions provision for mechanized digging can be made.	73.33	29312.2009	0.00	29312.20	Item no. 5
6	Construction of 5.00 Rmt wide Inspection Path 1M.D. per 100 Rmt	1	399.73	0.00	399.73	Item no. 6
7	Enumeration of all valuable plant species at plantation site asn grid wise counting and providing color band and recording the same in Register (0.75 M.D.) per 100 plants.	0.75	299.7975	25.00	324.80	Item no. 7
8	Providing and fixing (4 feet x 3 feet) information board each per site	0	0	5000.00	5000.00	Item no. 8
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	18671.3883	4825.46	23496.85	Item no. 9 (20% casualty replacementij place of 10%)
	Total	167.97	67142.65	193263.83	260406.48	
	Contingency 3%				7812.19	
	Labour Welfare 4%				10416.26	
	Grand Total	167.97	67142.65	193263.83	278634.93	


(S.D. Lonkar)
 Range Forest Officer
 Baramati

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Wages Rate
Per day
Range
Round
Beat
Baramati
Morgaon
Morgaon

Rs. 399.73 Gut no. 510

Village Kalchore

(Amount in Rs.)

S.No	Particulars of works	Man days	Wages	Material supply	Total (Rs. Per Ha.)	Sanction Letter Dt. / Model No. / Item No.
B. First Year Operations						
1	Part Nursery cost for maintenance of 1333 seedling per ha Rs. 3.77 per seedling (Wages Rs.2.69, M & S Rs. 0.81)	14.80	5916.00	1079.73	6995.73	Letter Dt. 07/03/2018 irrigated & Fencing plantation Model No. 1 ItemNo.1a
2	Refilling of pits by good quality soil including application of single super phosphate (1.66 MD per 100 pits)	18.44	7371.02	1944.25	9315.27	Item No. 2
3	Transportation of 1333 seedlings from Nursery to plantation site including loading & unloading (0.14 M.D. per 100 seedlings & M.S.Rs.1.82 Per seedlings)	1.87	747.50	2426.00	3173.50	Item No. 3 10% Extra Plants to be transported
4	Planting of 1111 seedlings (1.0 M.D. per 100 seedlings)	11.11	4441.00	0.00	4441.00	Item No. 4
5	3 seedlings (1 Rmt circular) and 2 soil workings (4.00 M.D per 100 seedlings) fertilizer application Rs.0.82 per seedling	44.44	17764.00	911.02	18675.02	Item No.5

6	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	23684.00	54395.00	78079.00	Item No.7
7	Casualty replacement (20% 222 Seedlings per ha.) (2 M.D. per 100 seedlings)	4.44	1774.80	0.00	1774.80	Item No.6 20% instead of 10%
8	Part Nursery cost for causality replacement in SYO (222 seedlings per ha.) (wages Rs.11.90 and material supply Rs.3.62 total Rs. 12.55 per seedlings.)	7.77	3105.90	803.64	3909.54	Item No.8 20% instead of 10%
9	Watch and ward (9 months - 1 watcher per 10 ha)	27.38	10944.61	0.00	10944.61	Item No.9
10	Soil working for naturally grower plants and singling (1.15 M.D. Per 100 plants)	1.15	459.69	10.00	469.69	Item No.10
11	Fire tracing	2.00	799.46	0.00	799.46	Item No.12
	Total	192.65	77007.98	61569.64	138577.62	0.00
	Contingency 3%				4157.33	
	Labour Welfare 4%				5543.10	
	Grand Total	192.65	77007.98	61569.64	148278.06	


(S.D. Lonkar)
 Range Forest Officer
 Baramati

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MODEL NO. 05

Fencing and Irrigated Plantations

Model rate structure for planation of Mixed tree species having rainfall less than 800 mm and medium quality, medium drained soil.

Spacement - 3m x3m

Size of pits - 0.45 x 0.45 x 0.45m

No. Of Seedlings - 1111 per ha.

Range

Round

Beat

Wages Rate

Per day

Rs.

399.73

Gut no.

510

Village Kalbhairwah

(Amount in Rs.)

S.No	Particulars of works	Man days	Wages	Material supply	Total (Rs. Per Ha.)	Sanction Letter Dt. / Model No. / Item No.
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	983.34	404.00	1387.34	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model No.1 Item1 Casualty replacement 20%
2	Transportation of 222 seedlings fbr causality replacement from nursery to plantation site (including loading and unloading) wages 0.14 M.D Per 100 Seedling & M.S. Rs.1.82 per seedlings	0.31	123.92	404.04	527.96	Item No.2 20% instead of 10%
3	Planting for casualty replacement 222 seedlings (2.00 M.D. per 100 seedlings)	4.44	1774.80	0.00	1774.80	Item No.3 20% instead of 10%

4	2 weedings and 1 soil working, with fertilizer application at 2.5 M.D. per 100 seedlings M.S. Rs. 0.82 per seedling	27.77	11100.50	911.02	12011.52	Item No. 4
5	Watering 1111 seedlings in November, December, January and June 1 time each and in February to May 2 times each total 12 times 5 litre per seedlings, replacing 10% plastic can / matka @Rs.25/- each replacing 111 cans, supplying water @Rs.0.50 per litre and watering 150 seedlings per M.D.	88.88	35528.00	36105.00	71633.00	Item No. 5
6	Watch and ward 12 months - 1 watcher per 10.00 ha	36.50	14590.15	0.00	14590.15	Item No.6
7	Fire tracing	2.00	799.46	0.00	799.46	Item No.8
	Total	162.36	64900.16	37824.06	102724.22	0.00
	Contingency 3%				3081.73	
	Labour Welfare 4%				4108.97	
	Grand Total	162.36	64900.16	37824.06	109914.92	



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Spacement - 3m x3m

Size of pits - 0.45 x 0.45 x 0.45m

No. Of Seedlings - 1111 per ha.

Wages Rate
Per day
Rs. 399.73
Gut no. 510
Village Baramati
Range Round Beat
Morgaon Morgaon

S.No	Particulars of works	Man days	Wages	Material supply	Total (Rs. Per Ha.)	Sanction Letter Dt. / Model No. / Item No.
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	6663.50	911.02	7574.52	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model No.1 Item1
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.0.50/- litre and watering 150 seedlings per M.D.	44.48	17779.99	16680.00	34459.99	Item No. 2
3	Watch and ward 12 months 1 Watcher per 10.00 ha	36.50	14590.15	0.00	14590.15	Item no. 3
4	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	799.46	25.00	824.46	Item no. 5
5	Fire tracing	2.00	799.46	0.00	799.46	Item no. 6

	Total	101.65	40632.55	17616.02	58248.57	0.00
	Contingency 3%				1747.46	
	Labour Welfare 4%				2329.94	
	Grand Total	101.65	40632.55	17616.02	62325.97	



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Spacement - 3m x3m

Size of pits - 0.45 x 0.45 x 0.45m

No. Of Seedlings - 1111 per ha.

Wages Rate
Per day
Rs. 399.73 Gut no. 210 510
Village Chalchale
Range Baramati
Round Monglaon
Beat Monglaon

S.No	Particulars of works	Man days	Wages	Material supply	Total (Rs. Per Ha.)	Sanction Letter Dt. / Model No. / Item No.
E. Fourth Year Operations						
1	Watch and ward 12 months 1 Watcher per 10.00 ha	36.50	14590.15	0.00	14590.15	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model No.1 Item1
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	799.46	25.00	824.46	Item no. 2
3	Fire tracing	2.00	799.46	0.00	799.46	Item no. 3
	Total	40.50	16189.07	25.00	16214.07	
	Contingency 3%				486.42	
	Labour Welfare 4%				648.56	
	Grand Total	40.50	16189.07	25.00	17349.05	

(Signature)

(S. D. Lonkar)
Range Forest Officer
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Size of pits - 0.45 x 0.45 x 0.45m

No. Of Seedlings - 1111 per ha.

Wages Rate
Per day
Rs. 399.73
Gut no. 2/10 5/10
Range
Round
Beat
Baramati
Mogad
Mogad

S.No	Particulars of works	Man days	Wages	Material supply	Total (Rs. Per Ha.)	Sanction Letter Dt. / Model No. / Item No.
E. Fifth Year Operations						
1	Watch and ward 12 months 1 Watcher per 10.00 ha	36.50	14590.15	0.00	14590.15	Letter Dt. 07/03/2018 Irrigated &fencing Plantation Model No.1 Item 1
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	799.46	25.00	824.46	Item no. 2
3	Fire tracing	2.00	799.46	0.00	799.46	Item no. 3
	Total	40.50	16189.07	25.00	16214.07	
	Contingency 3%				486.42	
	Labour Welfare 4%				648.56	
	Grand Total	40.50	16189.07	25.00	17349.05	

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Spacement - 3m x3m

Size of pits - 0.45 x 0.45 x 0.45m

No. Of Seedlings - 1111 per ha.

Wages Rate
Per day
Rs. 399.73 Gut no. 300 510
Range
Round
Beat
Baramati
Mor 1000
Mor 1000

S.No		Particulars of works	Man days	Village	Wages	Material supply	Total (Rs. Per Ha.)	Sanction Letter Dt. / Model No. / Item No.
E. Sixth Year Operations								
1	Watch and ward 12 months 1 Watcher per 10.00 ha		36.50		14590.15	0.00	14590.15	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model No.1 Item 1
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.		2.00		799.46	25.00	824.46	Item no. 2
3	Fire tracing		2.00		799.46	0.00	799.46	Item no. 3
	Total		40.50		16189.07	25.00	16214.07	0.00
	Contingency 3%						486.42	
	Labour Welfare 4%						648.56	
	Grand Total		40.50		16189.07	25.00	17349.05	



(S. S. Lokkar)
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Size of pits - 0.45 x 0.45 x 0.45m

No. Of Seedlings - 1111 per ha.

Wages Rate
Per day
Rs. 399.73
Gut no. 240
Village Kalpharewadi
Range
Round
Beat
Baramati
Mordoli
Mordoli
(Amount in Rs.)

S.No	Particulars of works	Man days	Wages	Material supply	Total (Rs. Per Ha.)	Sanction Letter Dt. / Model No. / Item No.
H. Seventh Year Operations						
1	Watch and ward 12 months 1 Watcher per 10.00 ha	36.50	14590.15	0.00	14590.15	Letter Dt. 07/03/2018 Irrigated &fencing Plantation Model No.1 Item 1
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	799.46	25.00	824.46	Item no. 2
3	Fire tracing	2.00	799.46	0.00	799.46	Item no. 3
	Total	40.50	16189.07	25.00	16214.07	
	Contingency 3%				486.42	
	Labour Welfare 4%				648.56	
	Grand Total	40.50	16189.07	25.00	17349.05	

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No. Of Seedlings - 1111 per ha.

Wages Rate
Per day
Rs. 399.73 Gut no. 240
Village (Chhindwada)

Range
Round
Beat
Baramati
Morgaon
Morgaon

S.No	Particulars of works	Man days	Wages	Material supply	Total (Rs. Per Ha.)	Sanction Letter Dt. / Model No. / Item No.
I. Eighth Year Operations						
1	Watch and ward 12 months 1 Watcher per 10.00 ha	36.50	14590.15	0.00	14590.15	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model No.1 Item 1
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	799.46	25.00	824.46	Item no. 2
3	Fire tracing	2.00	799.46	0.00	799.46	Item no. 3
	Total	40.50	16189.07	25.00	16214.07	
	Contingency 3%				486.42	
	Labour Welfare 4%				648.56	
	Grand Total	40.50	16189.07	25.00	17349.05	


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No. Of Seedlings - 1111 per ha.

Wages Rate
Per day
Rs. 399.73
Gut no. 240
510
Village Kalchane wadi
(Amount in Rs.)

S.No	Particulars of works	Man days	Wages	Material supply	Total (Rs. Per Ha.)	Sanction Letter Dt. / Model No. / Item No.
J. Ninth Year Operations						
1	Watch and ward 12 months 1 Watcher per 10.00 ha	36.50	14590.15	0.00	14590.15	Letter Dt. 07/03/2018 Irrigated & fencing Plantation Model No.1 Item 1
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	799.46	25.00	824.46	Item no. 2
3	Fire tracing	2.00	799.46	0.00	799.46	Item no. 3
	Total	40.50	16189.07	25.00	16214.07	
	Contingency 3%				486.42	
	Labour Welfare 4%				648.56	
	Grand Total	40.50	16189.07	25.00	17349.05	


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Wages Rate
Per day
Rs. 399.73 Gut no. 240 5/0
Village Kalkhurewadi
Range Baramati
Round 700000
Beat 700000

S.No	Particulars of works	Man days	Wages	Material supply	Total (Rs. Per Ha.)	Sanction Letter Dt. / Model No. / Item No.
J. Tenth Year Operations						
1	Watch and ward 12 months 1 Watcher per 10.00 ha	36.50	14590.15	0.00	14590.15	Letter Dt. 07/03/2018 Irrigated &fencing Plantation Model No.1 Item 1
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October.	2.00	799.46	25.00	824.46	Item no. 2
3	Fire tracing	2.00	799.46	0.00	799.46	Item no. 3
	Total	40.50	16189.07	25.00	16214.07	
	Contingency 3%				486.42	
	Labour Welfare 4%				648.56	
	Grand Total	40.50	16189.07	25.00	17349.05	



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