

Enclosure to Principal Chief Conservator of Forest (HoFF), M.S. Nagpur Letter No. Desk-17/ CA/ Nodal Cell/ CR-40/152/2019-20, Date 06/05/2019

Model Rate Structure for Compensatory Afforestation MODEL NO. 5

Fencing and Irrigated Plantations.

Model Rate Structure for Plantation of mixed tree species having rainfall less than 800 mm & medium quality, medium drained soil.

ABSTRACT

Name of Work:- Storage Tank Mamdapur, Tal: Yeola, Dist: Nashik

Range : Nandgaon

Spacing: 3.0 m x 3.0 m

Round : Nandgaon

Size of Pits: 0.45 x 0.45 x 0.45 m

Beat : Bhalur

No. of Seedlings: 1111 per Ha.

Village: Vadali bk. Gut No. 63, 64, 65, 66 & 67

Period of afforestation: 2019-20 to 2025-26

Area : 28.60 Ha

Daily wage rate : 339.61 per day

Sr. No.	Year of Operation	Man Days	Wages	Material Supply	Total (Rs.Per Ha.)	Other expenses	Total Amount for 1 Ha	Total Amount For 28.60 Ha.
1	Pre Monsoon works	167.97	57044.29	193263.83	250308.12	17521.57	267829.69	7659929.02
2	First Year Operation	192.65	65425.87	61569.64	126995.51	8889.69	135885.19	3886316.49
3	Second Year Operation	162.36	55139.08	37824.06	92963.14	6507.42	99470.56	2844858.00
4	Third Year Operation	101.65	34521.36	17616.02	52137.38	3649.62	55786.99	1595508.00
5	Fourth Year Operation	40.50	13754.21	25.00	13779.21	964.54	14743.75	421671.23
6	Fifth Year Operation	40.50	13754.21	25.00	13779.21	964.54	14743.75	421671.23
7	Sixth Year Operation	40.50	13754.21	25.00	13779.21	964.54	14743.75	421671.23
8	Seventh Year Operation	40.50	13754.21	25.00	13779.21	964.54	14743.75	421671.23
	Total	786.63	267147.41	310373.55	577520.96	40426.47	617947.43	17673296.43

For 28.60 Ha CA Plantation Say Rs. 17673300.00

Range Forest Officer
Nandgaon(T)

Assistant Conservator of Forest
(Aff. Prot. & W.L.) Manmad

(Tushar Chavhan)
Deputy Conservator of Forest
East Division, Nashik

20, Date 06/05/2019

Model Rate Structure for Compensatory Afforestation MODEL NO. 5**Fencing and Irrigated Plantations.**

Model Rate Structure for Plantation of mixed tree species having rainfall less than 800 mm & medium quality, medium drained soil.

Range : Nandgaon

Spacing: 3.0 m x 3.0 m

Round : Nandgaon

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Village: Vadali bk. Gut No. 63, 64, 65, 66 & 67

Area : 1.00 Ha

Daily wage rate : 339.61 per day

A. Pre Monsoon Works (PPO / PYO):-

Sr. No.	Particulars of works	Man Days	Wages	Material Supply	Total Rs. (Per Ha.)	Sanction Letter Dt. / Model No. / Item No.
1	(a) Survey and demarcation	1.00	339.61	91.00	430.61	Letter Dt. 07/03/2018 Irrigated & fencing plantation Model no. 1 Item No. 1a
	(b) Preparation of treatment map (100 m x 50 m grid)	1.00	339.61	91.00	430.61	Item No. 1 b
	(c) Digging trial pits of size 0.30x0.30x0.60 in corner of grid	0.40	135.84	0.00	135.84	Item No. 1 c
	(d) Fixing 60cm x 0.05 cm x 12 cm cement pillars upto 30 cm deep in corner of grid, painting with Grid No. etc complete. (3 pillars, Rs. 75/- for each pillars)	0.00	0.00	225.00	225.00	Item No. 1 d
	(e) Clearing of bushes and preparation of site (As per requirement)	10.00	3396.10	91.00	3487.10	Item No. 1 e
2	Soil and moisture conservation works including collection of rubbles from areas up to 30 m etc.	31.00	10527.91	0.00	10527.91	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 transportation of ave. lead plus 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 50mm x 50mm, 8 guage thick and fixed 75 mm above ground level complete as per SSR item No. 1744 for 2017-18)	0.00	0.00	182865.60	182865.60	As per SSR rates 201718 Item No. 1744
4	Alignment of pits at 3m x 3m spacement, 1111 pits per ha (0.25 per 100 pits and M&S @ Rs. 2.24 per 50 pits)	2.78	944.12	49.77	993.89	Item No. 4
5	Digging of pits of 0.45 x 0.45 x 0.45 m size 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	24903.60	0.00	24903.60	Item No. 5
6	Construction of 5 Rmt wide Inspection Path 1 M.D. per 100 Rmt.	1.00	339.61	0.00	339.61	Item No. 6
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	254.71	25.00	279.71	Item No. 7
8	Providing and fixing (4 feet x 3 feet) information board each per site.	0.00	0.00	5000.00	5000.00	Item No. 8
9	Part Nursery cost for raising 1333 seedling per Ha (including 20% casualty replacement) in polybag of size 12.50 x 25.00 cm (Wages Rs. 11.90 and M & S Rs. 3.62 per plant)	46.71	15863.18	4825.46	20688.64	Item No. 9 20% Casualty replacement in place of 10%
Total		167.97	57044.29	193263.83	250308.12	
Contingency 3%					7509.24	
Labour Welfare 4%					10012.32	
Grand Total		167.97	57044.29	193263.83	267829.69	

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Beat : Bhalur

No. of Seedlings: 1111 per Ha.

Village: Vadali bk. Gut No. 63, 64, 65, 66 & 67

Area : 1.00 Ha

Daily wage rate : 339.61 per day

B. First Year Operation:-

Sr.No	Particulars of works	Man Days	Wages	Material Supply	Total (Rs.Per Ha.)	Sanction Letter Dt. / Model No. / Item No.
1	Part Nursery cost for raising 1333 seedling per Ha Rs. 3.77 per seedling (Wages Rs. 2.69 and M & S Rs. 0.81)	14.80	5026.23	1079.73	6105.96	Letter Dt. 07/03/2018 Irrigated & fencing plantation Model no. 1 Item No. 1 casualty replacement 20%
2	Refilling of pits with good quality of soil including application of single super phosphate (1.66 M.D. per 100 pits)	18.44	6262.41	1944.25	8206.66	Item No. 2
3	Transportation of 1333 seedlings from Nursery to plantation site including loading and unloading (0.14 M.D. per 100 seedlings & M.S. Rs. 1.82 per seedling)	1.87	635.07	2426.00	3061.07	Item No. 3 10% extra plants to be transported.
4	Planting of 1111 seedlings. (1.0 M.D. per 100 seedlings)	11.11	3773.07	0.00	3773.07	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	15092.27	911.02	16003.29	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 water/ 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	20121.89	54395.00	74516.89	Item No. 6
7	Casualty replacement (20% 222 seedlings per ha.) (2 M.D. per 100 seedlings)	4.44	1507.87	0.00	1507.87	Item No. 7
8	Part 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.)	7.77	2638.77	803.64	3442.41	Item No. 8 20% instead of 10%
9	watch and ward (10 months - 1 Watcher per 10 ha.)	27.38	9298.52	0.00	9298.52	Item No. 9
10	Soil working for naturally grower plants and singling (1.15M.D. per 100 plants)	1.15	390.55	10.00	400.55	Item No. 10
11	Fire tracing	2.00	679.22	0.00	679.22	Item No. 12
Total		192.65	65425.87	61569.64	126995.51	
Contingency 3%					3809.87	
Labour Welfare 4%					5079.82	
Grand Total		192.65	65425.87	61569.64	135885.19	

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Spacing: 3.0 m x 3.0 m

Round : Nandgaon

Size of Pits: 0.45 x 0.45 x 0.45 m

Beat : Bhalur

No. of Seedlings: 1111 per Ha.

Village: Vadali bk. Gut No. 63, 64, 65, 66 & 67

Area : 1.00 Ha

Daily wage rate : 339.61 per day

C. Second Year Operation:-

Sr.No	Particulars of works	Man Days	Wages	Material Supply	Total (Rs.Per Ha.)	Sanction Letter Dt. / Model No. / Item No.
1	Part Nursery cost for seedlings for casualty replacement (222 seedlings per ha.) labour rate @ Rs.3.77 and M.S. Rs 1.82 per seedlings.	2.46	835.44	404.00	1239.44	Letter Dt. 07/03/2018 Irrigated & fencing plantation Model no. 1 Item No. 1 casualty replacement 20%
2	Transportation of 222 seedlings for casualty 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	105.28	404.04	509.32	Item No. 2 20% instead of 10%
3	Planting of casualty replacement 222 seedlings. (2.00 M.D. per 100 seedlings)	4.44	1507.87	0.00	1507.87	Item No. 3 20% instead of 10%
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	9430.97	911.02	10341.99	Item No. 4
5	Watering 1111 seedlings 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 matka @ Rs. 25/- each replacing 111 cans / matka, supplying water @ Rs.0.50/- per litre and waterings 150 seedlings per M.D.	88.88	30184.54	36105.00	66289.54	Item No. 5
6	Watch and ward 12 months - 1 Watcher per 10 ha.)	36.50	12395.77	0.00	12395.77	Item No. 6
7	Fire tracing	2.00	679.22	0.00	679.22	Item No. 7
Total		162.36	55139.08	37824.06	92963.14	
Contingency 3%					2788.89	
Labour Welfare 4%					3718.53	
Grand Total		162.36	55139.08	37824.06	99470.56	

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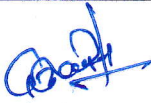
Model Rate Structure for Plantation of mixed tree species having rainfall less than 800 mm & medium quality, medium drained soil.

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Area : 1.00 Ha

Spacing: 3.0 m x 3.0 m
Size of Pits: 0.45 x 0.45 x 0.45 m
No. of Seedlings: 1111 per Ha.
Daily wage rate : 339.61 per day

D. Third Year Operation:-

Sr. No.	Particulars of works	Man Days	Wages	Material Supply	Total (Rs.Per Ha.)	Sanction Letter Dt. / Model No. / Item No.
1	1 weeding and 1 soil working (1.50 M.D. per 100 seedlings) applying fertilizer @ Rs. 0.82 per plant.	16.67	5661.30	911.02	6572.32	Letter Dt. 07/03/2018 Irrigated & fencing plantation Model no. 1 Item No. 1
2	Watering 556 seedlings November, December, January and June 1 time each and in February to May 2 times each total 12 times per seedling 5 litre, water supply @ Rs.0.50/- per litre and waterings 150 seedlings per M.D.	44.48	15105.85	16680.00	31785.85	Item No. 2
4	Watch and ward 12 months - 1 Watcher per 10 ha.)	36.50	12395.77	0.00	12395.77	Item No. 3
2	Counting of survival percentage Grid wise and Species wise and to note the same on register in May and October.	2.00	679.22	25.00	704.22	Item No. 4
5	Fire tracing	2.00	679.22	0.00	679.22	Item No. 5
Total		101.65	34521.36	17616.02	52137.38	
Contingency 3%					1564.12	
Labour Welfare 4%					2085.50	
Grand Total		101.65	34521.36	17616.02	55786.99	


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Beat : Bhalur

No. of Seedlings: 1111 per Ha.

Village: Vadali bk. Gut No. 63. 64. 65. 66 & 67

Area : 1.00 Ha

Daily wage rate : 339.61 per day

E. Fourth Year Operation:-

Sr. No.	Particulars of works	Man Days	Wages	Material Supply	Total (Rs.Per Ha.)	Sanction Letter Dt. / Model No. / Item No.
1	Watch & ward 12 months 1 Watcher per 10 ha.	36.50	12395.77	0.00	12395.77	Letter Dt. 07/03/2018 Irrigated & fencing plantation Model no. 1
2	Counting of survival percentage Grid wise & species wise & to note the same in Register in May & October.	2.00	679.22	25.00	704.22	Item No. 2
3	Fire tracing	2.00	679.22	0.00	679.22	Item No. 3
Total		40.50	13754.21	25.00	13779.21	
Contingency 3%					413.38	
Labour Welfare 4%					551.17	
Grand Total		40.50	13754.21	25.00	14743.75	

F. Fifth Year Operation:-

Daily wage rate : 339.61

Sr. No.	Particulars of works	Man Days	Wages	Material Supply	Total (Rs.Per Ha.)	Sanction Letter Dt. / Model No. / Item No.
1	Watch & ward 12 months 1 Watcher per 10 ha.	36.50	12395.77	0.00	12395.77	Letter Dt. 07/03/2018
2	Counting of survival percentage Grid wise and species wise and to note the same in Register in May and October.	2.00	679.22	25.00	704.22	Item No. 2
3	Fire tracing	2.00	679.22	0.00	679.22	Item No. 3
Total		40.50	13754.21	25.00	13779.21	
Contingency 3%					413.38	
Labour Welfare 4%					551.17	
Grand Total		40.50	13754.21	25.00	14743.75	

G. Sixth Year Operation:-

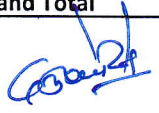
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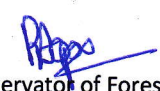
Sr. No.	Particulars of works	Man Days	Wages	Material Supply	Total (Rs.Per Ha.)	Sanction Letter Dt. / Model No. / Item No.
1	Watch & ward 12 months 1 Watcher per 10 ha.	36.50	12395.77	0.00	12395.77	Letter Dt. 07/03/2018
2	Counting of survival percentage Grid wise and species wise and to note the same in Register in May and October.	2.00	679.22	25.00	704.22	Item No. 2
3	Fire tracing	2.00	679.22	0.00	679.22	Item No. 3
Total		40.50	13754.21	25.00	13779.21	
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Labour Welfare 4%					551.17	
Grand Total		40.50	13754.21	25.00	14743.75	

H. Seventh Year Operation:-

Daily wage rate : 339.61

Sr. No.	Particulars of works	Man Days	Wages	Material Supply	Total (Rs.Per Ha.)	Sanction Letter Dt. / Model No. / Item No.
1	Watch & ward 12 months 1 Watcher per 10 ha.	36.50	12395.77	0.00	12395.77	Letter Dt. 07/03/2018
2	Counting of survival percentage Grid wise and species wise and to note the same in Register in May and October.	2.00	679.22	25.00	704.22	Item No. 2
3	Fire tracing	2.00	679.22	0.00	679.22	Item No. 3
Total		40.50	13754.21	25.00	13779.21	
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