Model Levy no 5, of P. C F (HoFF) M.S. Nagpur, latter no D17/ Nodal cell/ CR -40/1127 / 2019-20 dated 04.10.2019

ESTIMATE

Model no 5 -- Model rate structure for Compensatory Afforestation Fencing and Irrigated Plantation

Model rate structure for plantation of mixed tree spps- Neem, Awala Acecia, , Behada etc.

Plantation at degraded forest G no 3–Comp no 213 Kuravati., Tal. Velhe Dist. Pune

No of seedlings 1111 per ha

Size of Pits -0.45 x 0.45 0.45 m Estimate for 1.00 Ha Wage rate – 390 / per day.

Sr N	Particular	Man days	Wages	M.& S.	Amount for 1 Ha
IN	A) Pre-monsoon works PYO + PPO	uays			2110
	77) The mension works 110 The				
1	a)Survey & Demarcation	1.00	390 .00	91.00	481.00
	b)Preparation of Treatment Map. (100 m x50m grid)	1.00	390.00	91.00	481.00
	c) Digging of trial pits of size 0.30 x0.30x0.60 in corner of grid.)	0.40	156.00	0.00	156.00
	d) Fixing 60cm x 0.05cm x 12cm cement pillars up to 30cm 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
	e) Cleaning of brushes and preparation of site (As per requirement)	10.00	3900.00	0.00	3900.00
2	Soil and Moisture conservation works including collection of rubbles from area up 30m	31.00	12090.0	0.00	1209000
3	Providing and fixing chain link fencing, 102 Rmt. per ha. (with one gate+ Two wicket gate for one side) (Rs. 1494/ Per Rmt. of basic + transportation of agave. lead plus 20% for tribal/remote area	0.00	0.00	182865.6	182,865.60
4	Alignments for pits at 3m x3m spacements, 1111 per ha (0.25 per 100 Pits and M&S @ Rs 2.24 pre 50 pits.	2.78	1084.20	49.77	1133.97
5	Digging of pits of size 0.45x 0.45 0.45 m(1111 pits per ha.)6.60 M.D. per 100 Pits.	73.33	28598.70	0.00	28598.70
6	erection of 5.00 Rmt. wide Inspection Path. 1 MD per 100 Rmt.	1.00	390.00	0.00	390.00
7	Enumeration of all valuable plant spps at plantation site and grid wise counting & colour band and recording the same in register (0.75 M.D.) per 100 plaints.	0.75	292.50	25.00	317.50
8	Providing and fixing (4feet x 3 feet) Information board each per site.	0.00	0.00	5,000.0	5,000.00
9	Part Nursery cost for resining 1333/per Ha. (Including 20% causality replacement) in	46.71	18220.02	4825.46	23045.48

	polybags of size 12.5 cm x25 cm (wages Rs. 11.90				
	& M & S Rs3.62 per plant)				
	Total	167.97	65,508.30	193263.8	258,772.10
	Contingency 3%		0.00	7763.16	7763.16
	Labour welfare 4%		0.00	10350.88	10350.88
	Ground Total	167.97	65,508.30	211,377.85	276,886.15
E	3) First Year Operations				
1	Part Nursery cost for resining 1333/seedlings per Ha. (wages Rs. 3.77 & M & S Rs. 0.81)	14.80	5772.00	1079.73	6851.73
2	Refiling of pits with good quality soil including application of signal super & fertilizer @ 1.75 per seedling Phosphate (15 MD for 100 Trench)	18.44	71,91.60	1944.25	9135.85
3	Transportation of 1333 seedlings from Nursery to plantation site including loading &unloading(0.14 M.D. per 100seedlings M & S Rs.1.82 Per seedlings)	1.87	729.30	2426.00	3155.30
4	Plantation of seedlings 1111 seedlings per ha.(1 M.D. per 100seedlings)	11.11	4,332.90	0.00	4,332.90
5	3 weddings(1RM circular) and 2 soil workings (4 M.D. per 100 seedlings) fertilizer application Rs 0.82 ha per seedling	44.44	17,331.60	911.00	18,242.60
6	Watering 1111 seedlings in Nov, Dec. Jan, And Jun 1 time each and Feb. to May 2 times each total 12 times 5 lit. per seedlings, purchase of 1111 plastic can of 5 lit. capacity/ matka @Rs 25 / each and 100 lit capacity 11 drum @ Rs 4000/ each for supplying water & Water supply @Rs. 0.50/-lit. and watering 150 seedling per M.D.	59.25	23,107.50	54395.00	77,502.50
7	Causality replacement (20% 222seedling per ha./ 2.M.D.per 100 seedlings)	4.44	1,731.60	0.00	1,731.60
8	Part Nursery cost for causality replacement in SYO (222 seedlings per ha) wages Rs. 11.90 & M.S. Rs3.62 Total Rs. 12.55 per ha.	7.77	3,030.30	803.64	3,833.94
9	Watch and ward (10 month -1 watcher per 10 ha	27.38	10,678.20	0.00	10,678.20
10	Soil working of naturally growing plant and singling (1.15 MD per 100 plants	1.15	448.50	10.00	458.15
11	Fire tracing	2.00	780.00	0.00	780.00
	Total	192.65	75,133.5	61569.64	136,703.14
	Contingency 3 %		0.00	4101.10	4101.10
	Labour Welfare 4%		0.00	5468.13	5468.13
	Grand Total	192.65	75,133.50	71,138.87	146,272.37
C)	Second Year Operations	ı		'	
1	Part Nursery cost for seedlings for causality replacement (222 Seedlings per ha.) labour Levy Rs.3.77 & M.S. Rs. 1.82 per seedling	2.46	959.40	404.04	1363.80

2	Transportation of 222 seedling for casualty	0. 31	120.90	404.04	524.94
2	replacement from Nursery to plantation site	0. 51	120.50	404.04	324.34
	(including loading & unloading) 0.14 M.D. &				
	M.S.Rs.1.82 Per seedlings)				
2	- '	4.44	1,731.60	0.00	1,731.60
3	Planting for causality replacement 222 seedlings	4.44	1,/31.60	0.00	1,/31.60
	(2.00 M.D. per 100 Seedlings.)	27.77	10.020.20	011.02	11 741 22
4	2 weeding's and 1 soil workings, with fertilizer	27.77	10,830.30	911.02	11,741.32
	application at Rs 2.5 MD per 100 plant M.S. Rs				
	0.82 per seedling				
5	Watering 1111 seedlings in Nov , Dec. Jan, And Jun	88.88	34,663.20	36105.00	70,768.20
	1 time each and Feb. to May 2 times each total 12				
	times 5 lit. per seedlings, replacing 10% plastic can				
	/matka @Rs 25 / Each replacing 111 cans/matka,				
	supplying Water @Rs. 0.50/ -lit. and watering 150				
	seedling per M.D.				
6	Watch and ward, 12 month -1 watcher per 10 ha.	36.50	14235.00	00	14235.00
7	Fire tracing	2.00	780	00.00	780.00
	Total	162.36	63,320.40	37,824.06	101,144.46
	Contingency 3 %		0.00	3034.33	3034.33
	Labour Welfare 4%		0.00	4045.78	4045.78
	Grand Total	162.36	63,320.40	44904.17	108,224.57
D)	Third year Operation				
1	1 weeding and 1 soil workings (1.5 M.D. Per	16.67	6,501.30	911.02	7412.32
	100 seedlings) applying fertilizer @ Rs. 0.82 Per				
	plant				
2	Watering 556 seedlings in Nov , Dec. Jan, And	44.48	17,347.20	16680.00	34,027.20
	Jun 1 time each and Feb. to May 2 times				
	each total 12 times per seedlings 5 lit. water				
	supply @Rs. 0.50/ -lit. and watering 150 seedling				
	per M.D.				
3	Watch and ward, 12 month -1 watcher per 10 ha.	36.50	14235.00	00	14235.00
4	Counting of survival % grid wise & species wise	2.00	780	25.00	805.00
	and Note the same on register in May & October				
5	Fire tracing	2.00	780.00	0.00	780.00
	Total	101.65	39,643.5	17,616.02	57,259.52
	Contingency 3 %		000	1717.79	1717.79
	Labour Welfare 4%		0.00	2290.38	2,290.38
	Grand Total	101.65	39,643.50	21,624.19	61,267.69
	Grand Total		00,010.00		
	E) Fourth Year Operations				
1	Watch and ward, 12 month -1 watcher per 10 ha.	36.50	14235.00	00	14235.00
2	Counting of survival % grid wise & species	2.00	780	25.00	805.00
~		2.00	760	25.00	003.00
	wise and Note the same on register in May &				
2	October	2.00	780.00	0.00	700.00
3	Fire tracing	2.00	780.00	0.00	780.00

	Total	40.50	15795.00	25.00	15,820.0
Contingency 3 %			0.00	474.60	474.60
Labour Welfare 4%			0.00	632.80	632.80
Grand Total			15795.00	1,132.40	16,927.40
F) I	Fifth Year Operations				
1	Watch and ward, 12 month -1 watcher per 10 ha.	36.50	14235.00	00	14235.00
2	Counting of survival % Grid wise & species	2.00	780	25.00	805.00
	wise and Note the same on register in May &				
	October				
3	Fire tracing	2.00	780.00	0.00	780.00
	Total	40.50	15795.00	25.00	15,820.0
	Contingency 3 %		0.00	474.60	474.60
	Labour Welfare 4%		0.00	632.80	632.80
	Grand Total	40.50	15795.00	1,132.40	16,927.40
		•			
G)	Six Year Operations				
1	Watch and ward, 12 month -1 watcher per 10 ha.	36.50	14235.00	00	14235.00
2	Counting of survival % Grid wise & species	2.00	780	25.00	805.00
	wise and Note the same on register in May &				
	October				
3	Fire tracing	2.00	780.00	0.00	780.00
	Total	40.50	15795.00	25.00	15,820.0
Contingency 3 %			0.00	474.60	474.60
Labour Welfare 4%			0.00	632.80	632.80
Grand Total			15795.00	1,132.40	16,927.40
		•			
H) 5	Seventh Year Operations				
1	Watch and ward, 12 month-1 watcher per 10 ha	36.50	14235.00	00	14235.00
2	Counting of survival % Grid wise & species wise	2.00	780	25.00	805.00
_	and Note the same on register in May &October				
3	Fire tracing	2.00	780.00	0.00	780.00
	Total	40.50	15795.00	25.00	15,820.0
			13/33.00		
		+0.50	0.00		474.60
	Contingency 3 %	40.30		474.60 632.80	474.60 632.80
		40.50	0.00	474.60 632.80	632.80
	Contingency 3 % Labour Welfare 4%		0.00	474.60	
I)Ei	Contingency 3 % Labour Welfare 4% Grand Total		0.00	474.60 632.80	632.80
l)Ei	Contingency 3 % Labour Welfare 4%	40.50	0.00	474.60 632.80	632.80
<u> </u>	Contingency 3 % Labour Welfare 4% Grand Total ghth Year Operations Watch and ward, 12 month-1 watcher per 10 ha	40.50 36.50	0.00 0.00 15795.00	474.60 632.80 1,132.40	632.80 16,927.40
1	Contingency 3 % Labour Welfare 4% Grand Total ghth Year Operations Watch and ward, 12 month-1 watcher per 10 ha Counting of survival % Grid wise & species wise	40.50	0.00 0.00 15795.00 14235.00	474.60 632.80 1,132.40	632.80 16,927.40 14235.00
1	Contingency 3 % Labour Welfare 4% Grand Total ghth Year Operations Watch and ward, 12 month-1 watcher per 10 ha Counting of survival % Grid wise & species wise and Note the same on register in May &October	40.50 36.50	0.00 0.00 15795.00 14235.00	474.60 632.80 1,132.40	632.80 16,927.40 14235.00
1 2	Contingency 3 % Labour Welfare 4% Grand Total ghth Year Operations Watch and ward, 12 month-1 watcher per 10 ha Counting of survival % Grid wise & species wise	40.50 36.50 2.00	0.00 0.00 15795.00 14235.00 780	474.60 632.80 1,132.40 00 25.00	632.80 16,927.40 14235.00 805.00
1 2	Contingency 3 % Labour Welfare 4% Grand Total ghth Year Operations Watch and ward, 12 month-1 watcher per 10 ha Counting of survival % Grid wise & species wise and Note the same on register in May &October Fire tracing Total	36.50 2.00 2.00	0.00 0.00 15795.00 14235.00 780	474.60 632.80 1,132.40 00 25.00	632.80 16,927.40 14235.00 805.00
1 2	Contingency 3 % Labour Welfare 4% Grand Total ghth Year Operations Watch and ward, 12 month-1 watcher per 10 ha Counting of survival % Grid wise & species wise and Note the same on register in May &October Fire tracing	36.50 2.00 2.00	0.00 0.00 15795.00 14235.00 780 780.00 15795.00	474.60 632.80 1,132.40 00 25.00 0.00 25.00	632.80 16,927.40 14235.00 805.00 780.00 15,820.0

J)	Ninth Year operations				
1	Watch and ward, 12 month-1 watcher per 10ha.	36.50	14235.00	00	14235.00
2	Counting of survival % Grid wise & species wise	2.00	780	25.00	805.00
	and Note the same on register in May &October				
3	Fire tracing	2.00	780.00	0.00	780.00
	Total 40.50 15795.00 25.00			15,820.0	
	Contingency 3 %		0.00	474.60	474.60
	Labour Welfare 4%		0.00	632.80	632.80
	Grand Total	40.50	15795.00	1,132.40	16,927.40
K)	Tenth Year operations				
1	Watch and ward, 12 month-1 watcher per 10ha.	36.50	14235.00	00	14235.00
2	Counting of survival % Grid wise & species wise	2.00	780	25.00	805.00
	and Note the same on register in May &October				
3	Fire tracing	2.00	780.00	0.00	780.00
	Total	40.50	15795.00	25.00	15,820.0
	Contingency 3 %		0.00	474.60	474.60
	Labour Welfare 4%		0.00	632.80	632.80
	Grand Total	40.50	15795.00	1,132.40	16,927.40

(A. G. Bhong)

Sub-Divisional Forest officer, Sub-Division, Bhor.

Abstracts for Model no 5

S.n	Year of	Man	Wages	M. & S	Total	Other	Total
o	operation	days				Expenses	For 1.00
1	PYO + PPo	167.97	65,50830	193,263.83	258,772.10	18,114.05	276,886.15
	Works						
2	First Year	192.65	75133.50	61569.64	136,703.14	9569.23	146,272.37
	Operation						
3	second Year	162.36	63,320.40	37824.06	101,144.46	7080.11	108,224.57
	Operation						
4	Third Year	101.65	39643.50	17616.02	57,259.52	4,008.17	61,267.69
	Operation						
5	Fourth Year	40.50	15795.00	25.00	15820.00	1107.40	16,927.40
	Operation						
6	Fifth Year	40.50	15795.00	25.00	15820.00	1107.40	16,927.40
	Operation						
7	Sixth Year	40.50	15795.00	25.00	15820.00	1107.40	16,927.40
	Operation						
8	SeventhYear	40.50	15795.00	25.00	15820.00	1107.40	16,927.40
	Operation						
9	Eighth Year	40.50	15795.00	25.00	15820.00	1107.40	16,927.40
	Operation						
10	Ninth Year	40.50	15795.00	25.00	15820.00	1107.40	16,927.40
	Operation						
11	Tenth Year	40.50	15795.00	25.00	15820.00	1107.40	16,927.40
	Operation						
	Total	908.13	354,170.70	310,448.55	664,619.25	46523.36	711,142.61

Cost per plant Rs. 640.67/

Note 1) The rates of chain link fencing derived from SSR 2017-18 with addition for area differences and transportation lead.

2) Plantation MD & M.S. component derived from Levy structure as approved by PCCF (HoFF) M.S. Nagpur, Vide letter No Desk- 1/EGS/CR 10/2283 /2017-18 dt. 07.03.2018.

(A. G. Bhong)

Sub- Divisional Forest officer, Sub-Division, Bhor.