Annexure - 8 (53)

Model No. 5, Model rate structure for plantation of mixed tree species having rainfall upto 800 mm and medium quality, medium drained soil.

Model Rate Structure for Complensatory Afforestation

spacement :- 3 m x 3 m	Wages Rate : 399.73	Scheme : Compensatory Afforestation
Size of Pits :- 0.45 x 0.45 x 0.45 m	Ha : 30	Place : Pusali
No of Seedlings :- 1111 per Ha	Total area : 30	Beat : Pusala
Range :- Warud Range	No of seedling : 1111	Round : Pusala
Mix Plantation :-	Total seedling : 33330	Comp.No. 1101

Sr No	Particulars of Works	Per Ha				30.00 Ha			
		Man Days	Wages	Material Supply	Total RS per Ha	Mand Days	Wages	Material Supply	Total RS
1	2	3	4	5	6	7	8	9	10
A. Pre Monsoon Works PPO/PYO									
1	a. Survey and demarcation	1.00	399.73	91.00	490.73	30.00	11991.90	2730.00	14722.00
	b. Preparation of Treatment maps (50M x100 M grid)	1.00	399.73	91.00	490.73	30.00	11991.90	2730.00	14722.00
	c) Digging trial pits of size 0.30x0.30x0.60 in corner of Grid.	0.40	159.89	0.00	159.89	12.00	4796.76	0.00	4797.00
	(d) Fixing 60cm x 0.05cm x12cm cement pillars upto 30cm deep in corner of Grid, painting with Grid No. etc complete (3 pillars, Rs.75/- for each pillrs)	0.00	0.00	225.00	225.00	0.00	0.00	6750.00	6750.00
	(e) Clearing of bushes and preparation of site (As per requirement)	10.00	3997.30	91.00	4088.30	300.00	119919.00	2730.00	122649.00
2	Soil Conservation Measures including collection of rubbles from srea upto 30 M etc.	31.00	12391.63	0.00	12391.63	930.00	371748.90	0.00	371749.00
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. leadplus 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 for 2017-18)	0.00	0.00	182865.60	182865.60	0.00	0.00	5485968.00	5485968.00
4	Alignment of pits of pits 3m x 3m spacement. 1111 pits per Ha (0.25 per 100 pits and M&S @ Rs. 2.24 per) 50 pits	2.78	1111.25	49.77	1161.02	83.40	33337.48	1493.10	34831.00
5	Digging of pits of size 0.45 x 0.45 x 0.45 m (1111 pits per ha) 6.60 M.D per 100 pits.	73.33	29312.20	0.00	29312.20	2199.90	879366.03	0.00	879366.00
6	Construction of 5.00 Rmt wide Inspection Path 1M.D. per 100 Rmt	1.00	399.73	0.00	399.73	30.00	11991.90	0.00	11992.00
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	299.80	25.00	324.80	22.50	8993.93	750.00	9744.00

Sr No	Particulars of Works	Per Ha				30 Ha			
		Man Days	Wages	Material Supply	Total RS per Ha	Mand Days	Wages	Material Supply	Total RS
1	2	3	4	5	6	7	8	9	10
8	Providing and fixing (4 feet x 3 feet) information board each per site	0.00	0.00	5000.00	5000.00	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	18671.39	4825.46	23496.85	1401.30	560141.65	144763.80	704905.00
	Total	**167.97**	**67142.65**	**193263.83**	**260406.48**	5039.10	**2014279.44**	**5652914.90**	**7667195.00**
	Contingency 3%			**5797.91**	**7812.19**			**169587.45**	**230015.85**
	Labour Welfare 4%			**7730.55**	**10416.26**			**226116.60**	**306687.80**
	Grand Total			**206792.30**	**278634.93**			**6048618.94**	**8203898.65**
B. First Year Operations									
1	Part Nursery cost for maintenance of 1333 seedling per ha Rs. 2.64 per seedling (Wages Rs.2.69, M & S Rs. 0.81)	14.80	5916.00	1079.73	6995.73	444.00	177480.12	32391.90	209872.00
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	553.20	221130.64	58327.50	279458.00
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	3173.50	56.10	22424.85	72780.00	95205.00
4	Planting of 1111 seedlings (1.0 M.D per 100 seedlings)	11.11	4441.00	0	4441.00	333.30	133230.01	0.00	133230.00
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	1333.20	532920.04	27330.60	560251.00
6	Watering 1111 seeding November and December 1 time each, January to March 2 times each per seedings 5 litre water, purchase of 1111 plastic can of 5 litre / matka @ Rs. 25/- each and 100 liter capacity 11 drums @ Rs. 400/- each for supplying water and water supply at @ 0.05 per liter and wages for watering 1 M.D. for 150 seedings.	59.25	23684.00	54395	78079.00	1777.50	710520.08	1631850.00	2342370.00
7	Casualty replacement (20% 222 Seedlings per ha.) (2 M.D. per 100 seedlings)	4.44	1774.80	0	1774.80	133.20	53244.04	0.00	53244.00

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Sr No	Particulars of Works	Per Ha				30 Ha			
		Man Days	Wages	Material Supply	Total RS per Ha	Mand Days	Wages	Material Supply	Total RS
1	2	3	4	5	6	7	8	9	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 seedling.)	7.77	3105.90	803.64	3909.54	233.10	93177.06	24109.20	117286.00
9	Watch and ward (9 months – 1 watcher per 10 ha)	27.38	10944.61	0	10944.61	821.40	328338.22	0.00	328338.00
10	Soil working for naturally grower plants and singling (1.15 M.D. per 100 plants)	1.15	459.69	10.00	469.69	34.50	13790.69	300.00	14091.00
11	Fire tracing	2.00	799.46	0	799.46	60.00	23983.80	0.00	23984.00
	Total	**192.65**	**77007.98**	**61569.64**	**138577.62**	5779.50	**2310239.54**	**1847089.20**	**4157329.00**
	Contingency 3%			**1847.09**	**4157.33**			**55412.68**	**124719.87**
	Labour Welfare 4%			**2462.79**	**5543.10**			**73883.57**	**166293.16**
	Grand Total			**65879.51**	**148278.06**			**1976385.44**	**4448342.03**
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	73.80	29500.07	12120.00	41620.00
2	Transportation of 222 seedlings for 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	9.30	3717.49	12121.20	15839.00
3	Planting for casualty replacement 222 seedlings (2.00 M.D. per 100 seedlings)	4.44	1774.80	0	1774.80	133.20	53244.04	0.00	53244.00
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	11100.50	911.02	12011.52	833.10	333015.06	27330.60	360346.00
5	Watering 1111 seeding November and December 1 time each, January to June 1 times each and February to May 2 times each total 12 times 5 litre per seedings, replaceing 10 % plastic can / Matka @ Rs. 25/- each replaceing 111 cans / Matka, supplying water @ Rs. 0.50/- per liter and watering 150 seedings per M.D.	88.88	35528.00	36105.00	71633.00	2666.40	1065840.07	1083150.00	2148990.00
6	Watch and ward 12 months -1 watcher per 10.00 ha	36.50	14590.15	0	14590.15	1095.00	437704.35	0.00	437704.00
7	Fire tracing	2.00	799.46	0	799.46	60.00	23983.80	0.00	23984.00
	Total	**162.36**	**64900.16**	**37824.06**	**102724.22**	4870.80	**1947004.88**	**1134721.80**	**3081727.00**
	Contingency 3%			**1134.72**	**3081.73**			**34041.65**	**92451.81**
	Labour Welfare 4%			**1512.96**	**4108.97**			**45388.87**	**123269.08**
	Grand Total			**40471.74**	**109914.92**			**1214152.33**	**3297447.89**

Sr No	Particulars of Works	Per Ha				Ha 30			
		Man Days	Wages	Material Supply	Total RS per Ha	Mand Days	Wages	Material Supply	Total RS
1	2	3	4	5	6	7	8	9	10
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	500.10	199904.97	27330.60	227236.00
2	Watering 556 seeding November and December, January and June 1 time each, and February to May 2 times each total 12 times 5 litre, supply water @ Rs. 0.50/- per liter and watering 150 seedings per M.D.	44.48	17779.99	16680.00	34459.99	1334.40	533399.71	500400.00	1033800.00
3	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	14590.15	0.00	14590.15	1095.00	437704.35	0.00	437704.00
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	60.00	23983.80	750.00	24734.00
5	Fire tracing	2.00	799.46	0.00	799.46	60.00	23983.80	0.00	23984.00
	Total	**101.65**	**40632.55**	**17616.02**	**58248.57**	**3049.50**	**1218976.64**	**528480.60**	**1747458.00**
	Contingency 3%			**528.48**	**1747.46**			**15854.42**	**52423.74**
	Labour Welfare 4%			**704.64**	**2329.94**			**21139.22**	**69898.32**
	Grand Total			**18849.14**	**62325.97**			**565474.24**	**1869780.06**
E. Fourth Year Operations									
1	Watch and ward 12 months 1 watcher per 10.00 ha	36.50	14590.15	0	14590.15	1095.00	437704.35	0.00	437704.00
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	824.46	60.00	23983.80	750.00	24734.00
3	Fire tracing	2.00	799.46	0	799.46	60.00	23983.80	0.00	23984.00
	Total	**40.50**	**16189.07**	**25.00**	**16214.07**	**1215.00**	**485671.95**	**750.00**	**486422.00**
	Contingency 3%			**0.75**	**486.42**			**22.50**	**14592.66**
	Labour Welfare 4%			**1.00**	**648.56**			**30.00**	**19456.88**
	Grand Total			**26.75**	**17349.05**			**802.50**	**520471.54**
F. Fifth Year Operations									
1	Watch and ward 12 months 1 Watcher per 10.00 ha.	36.50	14590.15	0.00	14590.15	1095.00	437704.35	0.00	437704.00
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and Octomber.	2.00	799.46	25.00	824.46	60.00	23983.80	750.00	24734.00
3	Fire tracing	2.00	799.46	0.00	799.46	60.00	23983.80	0.00	23984.00
	Total	**40.50**	**16189.07**	**25.00**	**16214.07**	**1215.00**	**485671.95**	**750.00**	**486422.00**
	Contingency 3%			**0.75**	**486.42**			**22.50**	**14592.66**
	Labour Welfare 4%			**1.00**	**648.56**			**30.00**	**19456.88**
	Grand Total			**26.75**	**17349.05**			**802.50**	**520471.54**

Sr No	Particulars of Works	Per Ha				[illegible] Ha 30			
		Man Days	Wages	Material Supply	Total RS per Ha	Mand Days	Wages	Material Supply	Total RS
1	2	3	4	5	6	7	8	9	10
G. Sixth Year Operations									
1	Watch and ward 12 months 1 Watcher per 10.00 ha.	36.50	14590.15	0.00	14590.15	1095.00	437704.35	0.00	437704.00
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and Octomber.	2.00	799.46	25.00	824.46	60.00	23983.80	750.00	24734.00
3	Fire tracing	2.00	799.46	0.00	799.46	60.00	23983.80	0.00	23984.00
	Total	**40.50**	**16189.07**	**25.00**	**16214.07**	**1215.00**	**485671.95**	**750.00**	**486422.00**
	Contingency 3%			**0.75**	**486.42**			**22.50**	**14592.66**
	Labour Welfare 4%			**1.00**	**648.56**			**30.00**	**19456.88**
	Grand Total			**26.75**	**17349.05**			**802.50**	**520471.54**
H. Seventh Year Operations									
1	Watch and ward 12 months 1 Watcher per 10.00 ha.	36.50	14590.15	0.00	14590.15	1095.00	437704.35	0.00	437704.00
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and Octomber.	2.00	799.46	25.00	824.46	60.00	23983.80	750.00	24734.00
3	Fire tracing	2.00	799.46	0.00	799.46	60.00	23983.80	0.00	23984.00
	Total	**40.50**	**16189.07**	**25.00**	**16214.07**	**1215.00**	**485671.95**	**750.00**	**486422.00**
	Contingency 3%			**0.75**	**486.42**			**22.50**	**14592.66**
	Labour Welfare 4%			**1.00**	**648.56**			**30.00**	**19456.88**
	Grand Total			**26.75**	**17349.05**			**802.50**	**520471.54**
I. Eight Year Operations									
1	Watch and ward 12 months 1 Watcher per 10.00 ha.	36.50	14590.15	0.00	14590.15	1095.00	437704.35	0.00	437704.00
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and Octomber.	2.00	799.46	25.00	824.46	60.00	23983.80	750.00	24734.00
3	Fire tracing	2.00	799.46	0.00	799.46	60.00	23983.80	0.00	23984.00
	Total	**40.50**	**16189.07**	**25.00**	**16214.07**	**1215.00**	**485671.95**	**750.00**	**486422.00**
	Contingency 3%			**0.75**	**486.42**			**22.50**	**14592.66**
	Labour Welfare 4%			**1.00**	**648.56**			**30.00**	**19456.88**
	Grand Total			**26.75**	**17349.05**			**802.50**	**520471.54**
J. Nineth Year Operations									
1	Watch and ward 12 months 1 Watcher per 10.00 ha.	36.50	14590.15	0.00	14590.15	1095.00	437704.35	0.00	437704.00
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and Octomber.	2.00	799.46	25.00	824.46	60.00	23983.80	750.00	24734.00
3	Fire tracing	2.00	799.46	0.00	799.46	60.00	23983.80	0.00	23984.00
	Total	**40.50**	**16189.07**	**25.00**	**16214.07**	**1215.00**	**485671.95**	**750.00**	**486422.00**
	Contingency 3%			**0.75**	**486.42**			**22.50**	**14592.66**
	Labour Welfare 4%			**1.00**	**648.56**			**30.00**	**19456.88**
	Grand Total			**26.75**	**17349.05**			**802.50**	**520471.54**

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Sr No	Particulars of Works	Per Ha				[illegible] Ha 30			
		Man Days	Wages	Material Supply	Total RS per Ha	Mand Days	Wages	Material Supply	Total RS
1	2	3	4	5	6	7	8	9	10
K. TenthYear Operations									
1	Watch and ward 12 months 1 Watcher per 10.00 ha.	36.50	14590.15	0.00	14590.15	1095.00	437704.35	0.00	437704.00
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and Octomber.	2.00	799.46	25.00	824.46	60.00	23983.80	750.00	24734.00
3	Fire tracing	2.00	799.46	0.00	799.46	60.00	23983.80	0.00	23984.00
	Total	**40.50**	**16189.07**	**25.00**	**16214.07**	**1215.00**	**485671.95**	**750.00**	**486422.00**
	Contingency 3%			**0.75**	**486.42**			**22.50**	**14592.66**
	Labour Welfare 4%			**1.00**	**648.56**			**30.00**	**19456.88**
	Grand Total			**26.75**	**17349.05**			**802.50**	**520471.54**
	Grand Total	**0.00**	**0.00**	**332179.95**	**720597.23**	**0.00**	**0.00**	**9810248.46**	**21462769.41**

(चंद्रशेखरन् बाला)
उपवनसंरक्षक
अमरावती वनविभाग, अमरावती.

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Abstract for Modal No 5

S. No.	Working Year	For One Ha: Man days	Wages	Material Supply	Total	Other Expenses	Total amount	for 30.00 Ha: Man days	Wages	Material Supply	Total	Other Expenses	Total amount
1	Pre Monsoon Operation	167.97	67142.65	193263.83	260406.48	18228.45	278634.93	5039.10	2014279.44	5652914.90	7667195.00	536703.65	8203898.65
2	First Year Operation	192.65	77007.98	61569.64	138577.62	9700.43	148278.06	5779.50	2310239.54	1847089.20	4157329.00	291013.03	4448342.03
3	Second Year Operation	162.36	64900.16	37824.06	102724.22	7190.70	109914.92	4870.80	1947004.88	1134721.80	3081727.00	215720.89	3297447.89
4	Third Year Operation	101.65	40632.55	17616.02	58248.57	4077.40	62325.97	3049.50	1218976.64	528480.60	1747458.00	122322.06	1869780.06
5	Fourth Year Operation	40.50	16189.07	25.00	16214.07	1134.98	17349.05	1215.00	485671.95	750.00	486422.00	34049.54	520471.54
6	Fifth Year Operation	40.50	16189.07	25.00	16214.07	1134.98	17349.05	1215.00	485671.95	750.00	486422.00	34049.54	520471.54
7	Sixth Year Operation	40.50	16189.07	25.00	16214.07	1134.98	17349.05	1215.00	485671.95	750.00	486422.00	34049.54	520471.54
8	Seventh Year Operation	40.50	16189.07	25.00	16214.07	1134.98	17349.05	1215.00	485671.95	750.00	486422.00	34049.54	520471.54
9	Eight Year Operation	40.50	16189.07	25.00	16214.07	1134.98	17349.05	1215.00	485671.95	750.00	486422.00	34049.54	520471.54
10	Nineth Year Operation	40.50	16189.07	25.00	16214.07	1134.98	17349.05	1215.00	485671.95	750.00	486422.00	34049.54	520471.54
11	Tenth Year Operation	40.50	16189.07	25.00	16214.07	1134.98	17349.05	1215.00	485671.95	750.00	486422.00	34049.54	520471.54
	Total:-	**908.13**	**363006.80**	**310448.55**	**673455.35**	**47141.87**	**720597.23**	**27243.90**	**10890204.15**	**9168456.50**	**20058663.00**	**1404106.41**	**21462769.41**

Total value of the scheme comes to 2,14,62,769/-

In Words : Two Crore Forteen Lakh Sixty Two Thousand Seven Hundred Sixty Nine Only

Date :

Place : Warud

(चंद्रसेकर ...)
उपवनसंरक्षक
अमरावती वनविभाग, अमरावती.