Enclosure to Principal Chief Conservator of Forest (HoFF) M.S. Nagpur Letter No Desk 17/CA/ Nodel Cell/CR-40/1127/2019-20 Dated 04.10.2019

Modal Rate structure For Compansatory Afforestation

Modal No. 5

Fencing and Irrigated Plantations

Project Name :- Manekhind MI Irrgation Project

Village :- Phandrewadi

Total Area :- 14.00 Ha.

Taluka :- Paranda Dist Osmanabad

Fo. Sur . No 34 pt Comt. No. 66 Area 14.00 ha

Spacement :- **- 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.**

Wage Rate 377.5 Rs per day

Sr. No.	Particulars of Works	**Rate structure for 1 ha.**				**Rate structure for 14.00 ha**			
		Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.	Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.
A. Pre Monsoon Works (PPO/PYO)									
1	a. Survey & demarcatiom	1.00	377.50	91.00	468.50	14.00	5285.00	1274.00	6559.00
	b). Preparration of treatment map (100 m. x 50 m. grid)	1.00	377.50	91.00	468.50	14.00	5285.00	1274.00	6559.00
	c). Digging trial Pits of size 0.30x0.30x0.60 in corner of Grid.	0.40	151.00	0.00	151.00	5.60	2114.00	0.00	2114.00
	d) Fixing 60cm x0.05cm x12cm cement Pillars upto 30cm deep in corner of Grid, paintion with Grid No. etc complete (3Pillars, Rs. 75/-for each Pillrs)	0.00	0.00	225.00	225.00	0.00	0.00	3150.00	3150.00
	e) Clearing of bushes and preparation of site (As per requirement)	10.00	3775.00	91.00	3866.00	140.00	52850.00	1274.00	54124.00
2	Soil and moisture conservation works including collection of rubbles from areas upto 30 m. etc.	31.00	11702.50	0.00	11702.50	434.00	163835.00	0.00	163835.00

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 trribal/remote area (by tender process.) (Rs. 1494+149+149=1792/-per Rmt (1.60 Rmt height with G.I. Chain link size 50 mmx50m,8gauge thick and fixed 75mm above groun level complete as per SSR item No. 1744 for 2017-18)	0.00	0.00	192564.00	192564.00	0.00	0.00	2695896.00	2695896.00
4	Allingment of pits at 3mx3m spacement 1111 pits per ha. (0.25per Ha. 100 pitsand M&S @ Rs. 2.24 per 50 pits.	2.78	1049.45	49.77	1099.22	38.92	14692.30	696.78	15389.08
5	Diging of pits of 0.45 x 4.45 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	27682.08	0.00	27682.08	1026.62	387549.05	0.00	387549.05
6	Construction of 5.00 Rmt wide inspection path 1 M.D per 100 Rmt.	1.00	377.50	0.00	377.50	14.00	5285.00	0.00	5285.00
7	Enumertion of all Valuable plant species at plantation site and Grid wise counting and providing color band and recording the same in Register (0.75m.D.) per 100 plants	0.75	283.13	25.00	308.13	10.50	3963.75	350.00	4313.75
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	70000.00	70000.00
9	Part Nursery cost of raising 3000 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	17633.03	4825.46	22458.49	653.94	246862.35	67556.44	314418.79
	Total of PPO+PYO	**167.97**	**63408.68**	**202962.23**	**266370.91**	**2351.58**	**887721.45**	**2841471.22**	**3729192.67**
	Countigency 3 % tctal				7991.13				111875.78
	Labour Welfare 4%)				10654.84				149167.71
	Grand Total of PPO+PYO	**167.97**	**63408.68**	**202962.23**	**285016.87**				3990236.16

(28)

377.5

Sr. No.	Particulars of Works	Rate structure for 1 ha.				Rate structure for 14.00 ha			
		Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.	Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.
	B. FIRST YEAR OPERATION.								
1	Part Nursery cost for maintenance of 1333 seedling per ha RS. 3.77 per seeding (wages Rs.2.69, M& S Rs. 0.81)	14.80	5587.00	1079.73	6666.73	207.20	78218.00	15116.22	93334.22
2	Refilling of pits by good quality soil including application of single super phosphate (1.66 MD per 100 Pits)	18.44	6961.10	1944.25	8905.35	258.16	97455.40	27219.50	124674.90
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	705.93	2426.00	3131.93	26.18	9882.95	33964.00	43846.95
4	planting of 1111 seedlings (1.1 M.D. per 100 seedling.)	11.11	4194.03	0.00	4194.03	155.54	58716.35	0.00	58716.35
5	3 seedlings (1 Rmt circular) and 2 soilworkings (4.00 M.D per 100seedlings) fertilizer application Rs. 0.82 per seedling	44.44	16776.10	911.02	17687.12	622.16	234865.40	12754.28	247619.68
6	Watering 1111 seeding November and December 1 time each January to March 2 time each per seeding 5 liter water purchese of 1111 plastic can of 5 liter /Matka @ Rs 25/- each abd 100 liter capacity 11 drums @ Rs. 400/- each for supplying water and water supply at @ Rs.0.05 per liter and wages for watching 1 M.D.For 150 seeding	59.25	22366.88	57512.00	79878.88	829.50	313136.25	805168.00	1118304.25
7	Casualty replacement (20% 222 Seedlings per ha.) (2 M.D.Per 100 Seedlings)	4.44	1676.10	0.00	1676.10	62.16	23465.40	0.00	23465.40
8	Part Nursery cost for causality replacemnt in SYO (500 seedlings per ha.) (wages Rs.11.90 and material Supply Rs. 3.62 total Rs. 12.55 peer seedling.)	7.77	2933.18	803.64	3736.82	108.78	41064.45	11250.96	52315.41

9	watch and ward (10months- 1 wacher per 10 ha.)	27.38	10335.95	0.00	10335.95	383.32	144703.30	0.00	144703.30
10	Soil working for naturally grower plants and sigling (1.15 M.D. per 100 plants)	1.15	434.13	10.00	444.13	16.10	6077.75	140.00	6217.75
11	Fire tracing	2.00	755.00	0.00	755.00	28.00	10570.00	0.00	10570.00
	Total FYO	**192.65**	**72725.38**	**64686.64**	**137412.02**	**2697.10**	**1018155.25**	**905612.96**	**1923768.21**
	Contigency 3 % Total				4122.36				57713.05
	Labour Welfare 4% .				5496.48				76950.73
	Grand Total of FYO	**192.65**	**72725.38**	**64686.64**	**147030.86**				2058431.98

377.5

Sr. No.	Particulars of Works	Rate structure for 1 ha.				Rate structure for 14.00 ha			
		Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.	Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.
	C. SECOND YEAR OPERATION								
1	Part nursery cost for seedlings for casulity replacemnt (222 sedding per ha) labour rate @ Rs. 3.77 and M.S RS. 1.82 per seedlings.	2.46	928.65	404.00	1332.65	34.44	13001.10	5656.00	18657.10
2	Transportation of 222 seedlings for causality replacemnt 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	117.03	404.04	521.07	4.34	1638.35	5656.56	7294.91
3	Planting for casualty replacement 222 seedlings (2.00M.D per 100 seedlings)	4.44	1676.10	0.00	1676.10	62.16	23465.40	0.00	23465.40
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	10483.18	911.02	11394.20	388.78	146764.45	12754.28	159518.73
5	Watering 1111 seeding November and December January and june 1 time each and Feburuary to may 2 time each 12 times 5 liter per seeding replacing 10% plastic can /Matka @ Rs 25/- each replacing 111cans /matka suppling water @ Rs.0.50 per liter watering 150 seeding per M.D	88.88	33552.20	38030.00	71582.20	1244.32	469730.80	532420.00	1002150.80
6	watch and ward 12 months -1 watcher per 10.00 ha.	36.50	13778.75	0.00	13778.75	511.00	192902.50	0.00	192902.50
7	fire tracing	2.00	755.00	0.00	755.00	28.00	10570.00	0.00	10570.00
	Total	**162.36**	**61290.90**	**39749.06**	**101039.96**	**2273.04**	**858072.60**	**556486.84**	**1414559.44**
	Contigency 3 %				3031.20				42436.78
	Labour Welfare 4%				4041.60				56582.38
	Grand Total of SYO	**162.36**	**61290.90**	**39749.06**	**108112.76**				**1513578.60**

Sr. No.	Particulars of Works	Rate structure for 1 ha. 377.50				Rate structure for 14.00 ha			
		Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.	Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.
	D. THIRD YEAR OPERATION								
1	1 weedings ang 1 soil working (1.50 M.D. per 100 seedling) applying fertilizer @ Rs. 0.82 per Plant	16.67	6292.93	911.02	7203.95	233.38	88100.95	12754.28	100855.23
2	Watering 1111 seeding November and December January and june 1 time each and Feburuary to may 2 time each 12 times 5 liter per seeding water Supply @ Rs.0.50 per liter watering 150 seeding per M.D	44.48	16791.20	18194.00	34985.20	622.72	235076.80	254716.00	489792.80
2	Watch and ward 12 months 1 watcher per 10.00 ha.	36.50	12395.77	0.00	12395.77	511.00	173540.78	0.00	173540.78
3	Counting of Survival percentage Grid wise and species wise and to Note the same on Register in May and October.	2.00	755	25.00	780.00	28.00	10570.00	350.00	10920.00
4	Fire tracing	2.00	755	0.00	755.00	28.00	10570.00	0.00	10570.00
	Total	**101.65**	**36989.90**	**19130.02**	**56119.92**	**1423.10**	**517858.53**	**267820.28**	**785678.81**
	Contigency 3 %				1683.60				23570.36
	Labour Welfare 4%				2244.80				31427.15
	Grand Total of TYO	**101.65**	**36989.90**	**19130.02**	**60048.31**				**840676.33**

377.50

Sr. No.	Particulars of Works	Rate structure for 1 ha.				Rate structure for 14.00 ha			
		Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.	Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.
	E. FOURTH YEAR OPERATION								
1	Watch and ward 12 months 1 watcher per 10.00 ha.	36.50	13778.75	0.00	13778.75	511.00	192902.50	0.00	192902.50
2	Counting of Survival percentage Grid wise and species wise and to Note the same on Register in May and October.	**2.00**	**755.00**	**34.00**	789.00	28.00	10570.00	476.00	11046.00
3	Fire tracing	2.00	755.00	0.00	755.00	28.00	10570.00	0.00	10570.00
	Grand Total of 4 th Year.	**40.50**	**15288.75**	**34.00**	**15322.75**	567.00	214042.50	476.00	**214518.50**
	Contigency 3 %				459.68				6435.56
	Labour Welfare 4%				612.91				8580.74
	Grand Total of 4 th Year.	**40.50**	**15288.75**	**34.00**	**16395.34**				**229534.80**

377.50

Sr. No.	Particulars of Works	Rate structure for 1 ha.				Rate structure for 14.00 ha			
		Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.	Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.
	F. FIFTH YEAR OPERATION								
1	Watch and ward 12 months 1 watcher per 10.00 ha.	36.50	13778.75	0.00	13778.75	511.00	192902.50	0.00	192908.50
2	Counting of Survival percentage Grid wise and species wise and to Note the same on Register in May and October.	**2.00**	**755.00**	**34.00**	789.00	28.0	10570.00	476.00	10576.00
3	Fire tracing	2.00	755.00	0.00	755.00	28.0	10570.00	0.00	10576.00
	Total	**40.50**	**15288.75**	**34.00**	**15322.75**	567.0	214042.50	476.00	214060.5
	Contigency 3 %				459.68				6421.82
	Labour Welfare 4%				612.91				8562.42
	Grand Total of 5 th Year.	**40.50**	**15288.75**	**34.00**	**16395.34**				**229044.7**

(73)

377.50

Sr. No.	Particulars of Works	Rate structure for 1 ha.				Rate structure for 14.00 ha			
		Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.	Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.
	G. SIXTH YEAR OPERATION								
1	Watch and ward 12 months 1 watcher per 10.00 ha.	36.50	13778.75	0.00	13778.75	511.00	192902.50	0.00	192902.50
2	Counting of Survival percentage Grid wise and species wise and to Note the same on Register in May and October.	**2.00**	**755.00**	**34.00**	789.00	28.00	10570.00	476.00	11046.00
3	Fire tracing	2.00	755.00	0.00	755.00	28.00	10570.00	0.00	10570.00
	Total	**40.50**	**15288.75**	**34.00**	**15322.75**	567.00	214042.50	476.00	214518.50
	Contigency 3 %				459.68				6435.56
	Labour Welfare 4%				612.91				8580.74
	Grand Total of 6th Year.	**40.50**	**15288.75**	**34.00**	**16395.34**				**229534.80**

377.50

Sr. No.	Particulars of Works	Rate structure for 1 ha.				Rate structure for 14.00 ha			
		Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.	Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.
	H. SEVENTH YEAR OPERATION								
1	Watch and ward 12 months 1 watcher per 10.00 ha.	36.50	13778.75	0.00	13778.75	511	192902.50	0.00	192902.50
2	Counting of Survival percentage Grid wise and species wise and to Note the same on Register in May and October.	**2.00**	**755.00**	**34.00**	789.00	28	10570.00	476.00	10598.00
3	Fire tracing	2.00	755.00	0.00	755.00	28	10570.00	0.00	10598.00
	Total	**40.50**	**15288.75**	**34.00**	**15322.75**	**567**	**214042.50**	**476.00**	**214609.50**
	Contigency 3 %				459.68				6438.29
	Labour Welfare 4%				612.91				8584.38
	Grand Total of 6th Year.	**40.50**	**15288.75**	**34.00**	**16395.34**				**229632.17**

74

Model No 5 rewise 04.10.2019

Scanned with OKEN Scanner

377.50

Sr. No.	Particulars of Works	Rate structure for 1 ha.				Rate structure for 14.00 ha			
		Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.	Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.
	I. Eighth YEAR OPERATION								
1	Watch and ward 12 months 1 watcher per 10.00 ha.	36.50	13778.75	0.00	13778.75	511	192902.50	0.00	192902.50
2	Counting of Survival percentage Grid wise and species wise and to Note the same on Register in May and October.	**2.00**	**755.00**	**34.00**	789.00	28	10570.00	476.00	10598.00
3	Fire tracing	2.00	755.00	0.00	755.00	28	10570.00	0.00	10598.00
	Total	**40.50**	**15288.75**	**34.00**	**15322.75**	**567**	**214042.50**	**476.00**	**214609.50**
	Contigency 3 %				459.68				6438.29
	Labour Welfare 4%				612.91				8584.38
	Grand Total of 6th Year.	**40.50**	**15288.75**	**34.00**	**16395.34**				**229632.17**

377.50

Sr. No.	Particulars of Works	Rate structure for 1 ha.				Rate structure for 14.00 ha			
		Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.	Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.
	J. Nineth YEAR OPERATION								
1	Watch and ward 12 months 1 watcher per 10.00 ha.	36.50	13778.75	0.00	13778.75	511	192902.50	0.00	192902.50
2	Counting of Survival percentage Grid wise and species wise and to Note the same on Register in May and October.	**2.00**	**755.00**	**34.00**	789.00	28	10570.00	476.00	10598.00
3	Fire tracing	2.00	755.00	0.00	755.00	28	10570.00	0.00	10598.00
	Total	**40.50**	**15288.75**	**34.00**	**15322.75**	**567**	**214042.50**	**476.00**	**214609.50**
	Contigency 3 %				459.68				6438.29
	Labour Welfare 4%				612.91				8584.38
	Grand Total of 6th Year.	**40.50**	**15288.75**	**34.00**	**16395.34**				**229632.17**

75

377.50

Sr. No.	Particulars of Works	Rate structure for 1 ha.				Rate structure for 14.00 ha			
		Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.	Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.
	K. Tenth YEAR OPERATION								
1	Watch and ward 12 months 1 watcher per 10.00 ha.	36.50	13778.75	0.00	13778.75	511	192902.50	0.00	192902.50
2	Counting of Survival percentage Grid wise and species wise and to Note the same on Register in May and October.	**2.00**	**755.00**	**34.00**	789.00	28	10570.00	476.00	10598.00
3	Fire tracing	2.00	755.00	0.00	755.00	28	10570.00	0.00	10598.00
	Total	**40.50**	**15288.75**	**34.00**	**15322.75**	**567**	**214042.50**	**476.00**	**214609.50**
	Contigency 3 %				459.68				6438.29
	Labour Welfare 4%				612.91				8584.38
	Grand Total of 6th Year.	**40.50**	**15288.75**	**34.00**	**16395.34**				**229632.17**

ABSTRACT

Sr. No.	Particulars of Works	Rate structure for 1 ha. Man days per Ha.	Wages per Ha.	Material supply per Ha.	other expense	Total	Rate structur Total Amount	14.00	Ha
1	PPO+ PYO	167.97	63408.68	202962.23	18645.96	285016.87	3990236.16		
2	First Year Operation	192.65	72725.38	64686.64	9618.84	147030.86	2058431.98		
3	Second Year Operation	162.36	61290.90	39749.06	7072.80	108112.76	1513578.60		
4	Third Year Operation	101.65	36989.90	19130.02	3928.39	60048.31	840676.33		
5	4th Year Operation	40.50	15288.75	34.00	1072.59	16395.34	229534.80		
6	5 th Year Operation	40.50	15288.75	34.00	1072.59	16395.34	229534.80		
7	6th Year Operation	40.50	15288.75	34.00	1072.59	16395.34	229534.80		
8	7th Year Operation	40.50	15288.75	34.00	1072.59	16395.34	229534.80		
9	8 th Year Operation	40.50	15288.75	34.00	1072.59	16395.34	229534.80		
10	9 th Year Operation	40.50	15288.75	34.00	1072.59	16395.34	229534.80		
11	10 th Year Operation	40.50	15288.75	34.00	1072.59	16395.34	229534.80		
	Grand Total	**908.13**	**341436.10**	**326765.95**	**46774.14**	**714976.19**	**10009666.63**		
				Cost per plants Rs :-	**643.54**				

Note -

1. Rates of Chain linked Fencing derived from SSR 2017-18 With addition for area difference and transportation lead .
2. Plantation M.D. and M.S. component derived from rate structure as approved by PCCF (HoFF) M.S. vide letter No Desk-17/S/CR-10/2282/2017-18/ Nagpur , Dated 07/03/2018.

(M.R.Gaykar)
Divisional Forest Officer
Osmanabad

(५५)

Enclosure to Principal Chief Conservator of Forest (HoFF) M.S. Nagpur Letter No Desk 17/CA/ Nodel Cell/CR-40/1127/2019-20 Dated 04.10.2019

Modal Rate structure For Compansatory Afforestation

Modal No. 5

Fencing and Irrigated Plantations

Project Name :- Manekhind MI Irrgation Project

Village :- Kukkadgaon Taluka :- Paranda Dist Osmanabad

Total Area :-15.50 Ha. Fo. Gat. No 345 pt Comf. No. 64 Area 15.50 ha

Spacement :- - 3.0 m. x 3.0 m.

Size of pits :- - 0.45 x 0.45 x 0.45 m. Wage Rate 377.5 Rs per day

No. of Seedlings :- - 1111 per ha.

Sr. No.	Particulars of Works	Rate structure for 1 ha.				Rate structure for 15.50 ha			
		Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.	Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.
A. Pre Monsoon Works (PPO/PYO)									
1	a. Survey & demarcatiom	1.00	377.50	91.00	468.50	15.50	5851.25	1410.50	7261.75
	b). Preparration of treatment map ('100 m. x 50 m. grid)	1.00	377.50	91.00	468.50	15.50	5851.25	1410.50	7261.75
	c). Digging trial Pits of size 0.30x0.30x0.60 in corner of Grid.	0.40	151.00	0.00	151.00	6.20	2340.50	0.00	2340.50
	d) Fixing 60cm x0.05cm x12cm cement Pillars upto 30cm deep in corner of Grid, paintion with Grid No. etc complete (3Pillars, Rs. 75/-for each Pillrs)	0.00	0.00	225.00	225.00	0.00	0.00	3487.50	3487.50
	e) Clearing of bushes and preparation of site (As per requirement)	10.00	3775.00	91.00	3866.00	155.00	58512.50	1410.50	59923.00
2	Soil and moisture conservation works including collection of rubbles from areas upto 30 m. etc.	31.00	11702.50	0.00	11702.50	480.50	181388.75	0.00	181388.75

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 trribal/remote area (by tender process.) (Rs. 1494+149+149=1792/-per Rmt (1.60 Rmt height with G.I. Chain link size 50 mmx50m,8gauge thick and fixed 75mm above groun level complete as per SSR item No. 1744 for 2017-18)	0.00	0.00	192564.00	192564.00	0.00	0.00	2984742.00	2984742.00
4	Allingment of pits at 3mx3m spacement 1111 pits per ha. (0.25per Ha. 100 pitsand M&S @ Rs. 2.24 per 50 pits.	2.78	1049.45	49.77	1099.22	43.09	16266.48	771.44	17037.91
5	Diging of pits of 0.45 x 4.45 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	27682.08	0.00	27682.08	1136.62	429072.16	0.00	429072.16
6	Construction of 5.00 Rmt wide inspection path 1 M.D per 100 Rmt.	1.00	377.50	0.00	377.50	15.50	5851.25	0.00	5851.25
7	Enumertion of all Valuable plant species at plantation site and Grid wise counting and providing color band and recording the same in Register (0.75m.D.) per 100 plants	0.75	283.13	25.00	308.13	11.63	4388.44	387.50	4775.94
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	77500.00	77500.00
9	Part Nursery cost of raising 3000 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	17633.03	4825.46	22458.49	724.01	273311.89	74794.63	348106.52
	Total of PPO+PYO	**167.97**	**63408.68**	**202962.23**	**266370.91**	**2603.54**	**982834.46**	**3145914.57**	**4128749.03**
	Countigency 3 % total				7991.13				123862.47
	Labour Welfare. 4%)				10654.84				165149.96
	Grand Total of PPO+PYO	**167.97**	**63408.68**	**202962.23**	**285016.87**				**4417761.46**

Sr. No.	Particulars of Works	Rate structure for 1 ha.				Rate structure for 15.50 ha (377.5)			
		Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.	Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.
	B. FIRST YEAR OPERATION.								
1	Part Nursery cost for maintenance of 1333 seedling per ha RS. 3.77 per seeding (wages Rs.2.69, M& S Rs. 0.81)	14.80	5587.00	1079.73	6666.73	229.40	86598.50	16735.82	103334.32
2	Refilling of pits by good quality soil including application of single super phosphate (1.66 MD per 100 Pits)	18.44	6961.10	1944.25	8905.35	285.82	107897.05	30135.88	138032.93
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	705.93	2426.00	3131.93	28.99	10941.84	37603.00	48544.84
4	planting of 1111 seedlings (1.1 M.D. per 100 seedling.)	11.11	4194.03	0.00	4194.03	172.21	65007.39	0.00	65007.39
5	3 seedlings (1 Rmt circular) and 2 soilworkings (4.00 M.D per 100seedlings) fertilizer application Rs. 0.82 per seedling	44.44	16776.10	911.02	17687.12	688.82	260029.55	14120.81	274150.36
6	Watering 1111 seeding November and December 1 time each January to March 2 time each per seeding 5 liter water purchese of 1111 plastic can of 5 liter /Matka @ Rs 25/- each abd 100 liter capacity 11 drums @ Rs. 400/- each for supplying water and water supply at @ Rs.0.05 per liter and wages for watching 1 M.D.For 150 seeding	59.25	22366.88	57512.00	79878.88	918.38	346686.56	891436.00	1238122.56
7	Casualty replacement (20% 222 Seedlings per ha.) (2 M.D.Per 100 Seedlings)	4.44	1676.10	0.00	1676.10	68.82	25979.55	0.00	25979.55
8	Part Nursery cost for causality replacemnt in SYO (500 seedlings per ha.) (wages Rs.11.90 and material Supply Rs. 3.62 total Rs. 12.55 peer seedling.)	7.77	2933.18	803.64	3736.82	120.44	45464.21	12456.42	57920.63

80

9	watch and ward (10months- 1 wacher per 10 ha.)	27.38	10335.95	0.00	10335.95	424.39	160207.23	0.00	160207.23
10	Soil working for naturally grower plants and sigling (1.15 M.D. per 100 plants)	1.15	434.13	10.00	444.13	17.83	6728.94	155.00	6883.94
11	Fire tracing	2.00	755.00	0.00	755.00	31.00	11702.50	0.00	11702.50
	Total FYO	**192.65**	**72725.38**	**64686.64**	**137412.02**	**2986.08**	**1127243.31**	**1002642.92**	**2129886.23**
	Contigency 3 % Total				4122.36				63896.59
	Labour Welfare 4% .				5496.48				85195.45
	Grand Total of FYO	**192.65**	**72725.38**	**64686.64**	**147030.86**				**2278978.27**

Model No 5 rewise 04.10.2019

8

377.5

Sr. No.	Particulars of Works	Rate structure for 1 ha.				Rate structure for 15.50 ha			
		Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.	Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.
	C. SECOND YEAR OPERATION								
1	Part nursery cost for seedlings for casulity replacemnt (222 sedding per ha) labour rate @ Rs. 3.77 and M.S RS. 1.82 per seedlings.	2.46	928.65	404.00	1332.65	38.13	14394.08	6262.00	20656.08
2	Transportation of 222 seedlings for causality replacemnt 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	117.03	404.04	521.07	4.81	1813.89	6262.62	8076.51
3	Planting for casualty replacement 222 seedlings (2.00M.D per 100 seedlings)	4.44	1676.10	0.00	1676.10	68.82	25979.55	0.00	25979.55
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	10483.18	911.02	11394.20	430.44	162489.21	14120.81	176610.02
5	Watering 1111 seeding November and December January and june 1 time each and Feburuary to may 2 time each 12 times 5 liter per seeding replacing 10% plastic can /Matka @ Rs 25/- each replacing 111cans /matka suppling water @ Rs.0.50 per liter watering 150 seeding per M.D	88.88	33552.20	38030.00	71582.20	1377.64	520059.10	589465.00	1109524.10
6	watch and ward 12 months -1 watcher per 10.00 ha.	36.50	13778.75	0.00	13778.75	565.75	213570.63	0.00	213570.63
7	fire tracing	2.00	755.00	0.00	755.00	31.00	11702.50	0.00	11702.50
	Total	**162.36**	**61290.90**	**39749.06**	**101039.96**	**2516.58**	**950008.95**	**616110.43**	**1566119.38**
	Contigency 3 %				3031.20				46983.58
	Labour Welfare 4%				4041.60				62644.78
	Grand Total of SYO	**162.36**	**61290.90**	**39749.06**	**108112.76**				**1675747.74**

377.50

Sr. No.	Particulars of Works	Rate structure for 1 ha.				Rate structure for 15.50 ha			
		Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.	Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.
	D. THIRD YEAR OPERATION								
1	1 weedings ang 1 soil working (1.50 M.D. per 100 seedling) applying fertilizer @ Rs. 0.82 per Plant	16.67	6292.93	911.02	7203.95	258.39	97540.34	14120.81	111661.15
2	Watering 1111 seeding November and December January and june 1 time each and Feburuary to may 2 time each 12 times 5 liter per seeding water Supply @ Rs.0.50 per liter watering 150 seeding per M.D	44.48	16791.20	18194.00	34985.20	689.44	260263.60	282007.00	542270.60
2	Watch and ward 12 months 1 watcher per 10.00 ha.	36.50	12395.77	0.00	12395.77	565.75	192134.44	0.00	192134.44
3	Counting of Survival percentage Grid wise and species wise and to Note the same on Register in May and October.	2.00	755	25.00	780.00	31.00	11702.50	387.50	12090.00
4	Fire tracing	2.00	755	0.00	755.00	31.00	11702.50	0.00	11702.50
	Total	**101.65**	**36989.90**	**19130.02**	**56119.92**	**1575.58**	**573343.37**	**296515.31**	**869858.68**
	Contigency 3 %				1683.60				26095.76
	Labour Welfare 4%				2244.80				34794.35
	Grand Total of TYO	**101.65**	**36989.90**	**19130.02**	**60048.31**				**930748.79**

83

377.50

Sr. No.	Particulars of Works	Rate structure for 1 ha.				Rate structure for 15.50 ha			
		Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.	Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.
	E. FOURTH YEAR OPERATION								
1	Watch and ward 12 months 1 watcher per 10.00 ha.	36.50	13778.75	0.00	13778.75	565.75	213570.63	0.00	213570.63
2	Counting of Survival percentage Grid wise and species wise and to Note the same on Register in May and October.	2.00	755.00	34.00	789.00	31.00	11702.50	527.00	12229.50
3	Fire tracing	2.00	755.00	0.00	755.00	31.00	11702.50	0.00	11702.50
	Grand Total of 4 th Year.	40.50	15288.75	34.00	15322.75	627.75	236975.63	527.00	237502.63
	Contigency 3 %				459.68				7125.08
	Labour Welfare 4%				612.91				9500.11
	Grand Total of 4 th Year.	40.50	15288.75	34.00	16395.34				254127.81

377.50

Sr. No.	Particulars of Works	Rate structure for 1 ha.				Rate structure for 15.50 ha			
		Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.	Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.
	F. FIFTH YEAR OPERATION								
1	Watch and ward 12 months 1 watcher per 10.00 ha.	36.50	13778.75	0.00	13778.75	565.75	213570.63	0.00	213576.63
2	Counting of Survival percentage Grid wise and species wise and to Note the same on Register in May and October.	2.00	755.00	34.00	789.00	31.0	11702.50	527.00	11708.50
3	Fire tracing	2.00	755.00	0.00	755.00	31.0	11702.50	0.00	11708.50
	Total	40.50	15288.75	34.00	15322.75	627.8	236975.63	527.00	236993.6
	Contigency 3 %				459.68				7109.81
	Labour Welfare 4%				612.91				9479.75
	Grand Total of 5 th Year.	40.50	15288.75	34.00	16395.34				253583.2

84

377.50

Sr. No.	Particulars of Works	Rate structure for 1 ha.				Rate structure for 15.50 ha			
		Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.	Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.
	G. SIXTH YEAR OPERATION								
1	Watch and ward 12 months 1 watcher per 10.00 ha.	36.50	13778.75	0.00	13778.75	565.75	213570.63	0.00	213570.63
2	Counting of Survival percentage Grid wise and species wise and to Note the same on Register in May and October.	**2.00**	**755.00**	**34.00**	789.00	31.00	11702.50	527.00	12229.50
3	Fire tracing	2.00	755.00	0.00	755.00	31.00	11702.50	0.00	11702.50
	Total	**40.50**	**15288.75**	**34.00**	**15322.75**	627.75	236975.63	527.00	237502.63
	Contigency 3 %				459.68				7125.08
	Labour Welfare 4%				612.91				9500.11
	Grand Total of 6th Year.	**40.50**	**15288.75**	**34.00**	**16395.34**				**254127.81**

377.50

Sr. No.	Particulars of Works	Rate structure for 1 ha.				Rate structure for 15.50 ha			
		Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.	Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.
	H. SEVENTH YEAR OPERATION								
1	Watch and ward 12 months 1 watcher per 10.00 ha.	36.50	13778.75	0.00	13778.75	565.75	213570.63	0.00	213570.63
2	Counting of Survival percentage Grid wise and species wise and to Note the same on Register in May and October.	**2.00**	**755.00**	**34.00**	789.00	31	11702.50	527.00	11733.50
3	Fire tracing	2.00	755.00	0.00	755.00	31	11702.50	0.00	11733.50
	Total	**40.50**	**15288.75**	**34.00**	**15322.75**	**627.75**	**236975.63**	**527.00**	**237603.38**
	Contigency 3 %				459.68				7128.10
	Labour Welfare 4%				612.91				9504.14
	Grand Total of 6th Year.	40.50	15288.75	34.00	16395.34				254235.61

84

377.50

Sr. No.	Particulars of Works	Rate structure for 1 ha. Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.	Rate structure for 15.50 ha Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.
	I. Eighth YEAR OPERATION								
1	Watch and ward 12 months 1 watcher per 10.00 ha.	36.50	13778.75	0.00	13778.75	565.75	213570.63	0.00	213570.63
2	Counting of Survival percentage Grid wise and species wise and to Note the same on Register in May and October.	2.00	755.00	34.00	789.00	31	11702.50	527.00	11733.50
3	Fire tracing	2.00	755.00	0.00	755.00	31	11702.50	0.00	11733.50
	Total	**40.50**	**15288.75**	**34.00**	**15322.75**	**627.75**	**236975.63**	**527.00**	**237603.38**
	Contigency 3 %				459.68				7128.10
	Labour Welfare 4%				~~612.91~~				9504.14
	Grand Total of 6th Year.	40.50	15288.75	34.00	16395.34				~~254235.61~~

377.50

Sr. No.	Particulars of Works	Rate structure for 1 ha. Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.	Rate structure for 15.50 ha Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.
	J. Nineth YEAR OPERATION								
1	Watch and ward 12 months 1 watcher per 10.00 ha.	36.50	13778.75	0.00	13778.75	565.75	213570.63	0.00	213570.63
2	Counting of Survival percentage Grid wise and species wise and to Note the same on Register in May and October.	2.00	755.00	34.00	789.00	31	11702.50	527.00	11733.50
3	Fire tracing	2.00	755.00	0.00	755.00	31	11702.50	0.00	11733.50
	Total	40.50	15288.75	34.00	15322.75	627.75	236975.63	527.00	237603.38
	Contigency 3 %				459.68				7128.10
	Labour Welfare 4%				612.91				9504.14
	Grand Total of 6th Year.	40.50	15288.75	34.00	16395.34				254235.61

377.50

Sr. No.	Particulars of Works	Rate structure for 1 ha.				Rate structure for 15.50 ha			
		Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.	Man days per Ha.	Wages per Ha.	Material supply per Ha.	Total Per Ha.
	K. Tenth YEAR OPERATION								
1	Watch and ward 12 months 1 watcher per 10.00 ha.	36.50	13778.75	0.00	13778.75	565.75	213570.63	0.00	213570.63
2	Counting of Survival percentage Grid wise and species wise and to Note the same on Register in May and October.	2.00	755.00	34.00	789.00	31	11702.50	527.00	11733.50
3	Fire tracing	2.00	755.00	0.00	755.00	31	11702.50	0.00	11733.50
	Total	**40.50**	**15288.75**	**34.00**	**15322.75**	**627.75**	**236975.63**	**527.00**	**237603.38**
	Contigency 3 %				459.68				7128.10
	Labour Welfare 4%				612.91				9504.14
	Grand Total of 6th Year.	**40.50**	**15288.75**	**34.00**	**16395.34**				**254235.61**

87

ABSTRACT

Sr. No.	Particulars of Works	Rate structure for 1 ha.					Rate structure	14.00	Ha
		Man days per Ha.	Wages per Ha.	Material supply per Ha.	other expense	Total	Total Amount		
1	PPO+ PYO	167.97	63408.68	202962.23	18645.96	285016.87	3990236.16		
2	First Year Operation	192.65	72725.38	64686.64	9618.84	147030.86	2058431.98		
3	Second Year Operation	162.36	61290.90	39749.06	7072.80	108112.76	1513578.60		
4	Third Year Operation	101.65	36989.90	19130.02	3928.39	60048.31	840676.33		
5	4th Year Operation	40.50	15288.75	34.00	1072.59	16395.34	229534.80		
6	5 th Year Operation	40.50	15288.75	34.00	1072.59	16395.34	229534.80		
7	6th Year Operation	40.50	15288.75	34.00	1072.59	16395.34	229534.80		
8	7th Year Operation	40.50	15288.75	34.00	1072.59	16395.34	229534.80		
9	8 th Year Operation	40.50	15288.75	34.00	1072.59	16395.34	229534.80		
10	9 th Year Operation	40.50	15288.75	34.00	1072.59	16395.34	229534.80		
11	10 th Year Operation	40.50	15288.75	34.00	1072.59	16395.34	229534.80		
	Grand Total	**908.13**	**341436.10**	**326765.95**	**46774.14**	**714976.19**	**10009666.63**		

Cost per plants Rs :- **643.54**

Note -

1. Rates of Chain linked Fencing derived from SSR 2017-18 With addition for area difference and transportation lead .

2. Plantation M.D. and M.S. component derived from rate structure as approved by PCCF (HoFF) M.S. vide letter No Desk-17/S/CR-10/2282/2017-18/ Nagpur , Dated 07/03/2018.

(M.R.Gaykar)
Divisional Forest Officer
Osmanabad