MODEL RATE STRUCTURE FOR COMPENSATORY AFFORESTATION

Model No. 4

Del rate structure for plantation of mixed tree species in areas with rainfall 800 m to 1200 m and medium quality, medium drained soil with depth abovem.

Propose C.A. Area for Diversion of 40.00 ha. Forest land for Kasansur-Ghotsur-Gundram-Bhumkan Road.

Forest Division Sironcha Total Area 40.00 ha.

Total Area - 40.00 Ha. (1111 Plants/ha.) Wages Rate Rs. Per Days **418.96**

Size of pits - 0.45 x 0.45 x 0.45

Spacement - 3.00 x 3.00

Sr. No.	Particulars of Works	1.00 Ha. Plantation				40.00 Ha. Plantation			
		Mandays	Wages	Material Supply	Total Amount	Mandays	Wages	Material Supply	Total Amount
1	2	3	4	5	6	7	8	9	10
	A) Pre Monsoon Works (PPO/PYO)								
1	a) Survey & Demarcation	1.00	418.96	91.00	509.96	40.00	16758.40	3640.00	20398.40
	b) Preparation of treatment map (100mX50 m grid)	1.00	418.96	91.00	509.96	40.00	16758.40	3640.00	20398.40
	c) Digging trial pits of size 0.30x0.30x0.60 in corner of grid.	0.40	167.58	0.00	167.58	16.00	6703.36	0.00	6703.36
	d) Fixing 60cm x 0.05 cm x 12cm cement pillars upto 30cm deep in corner of grid painting with Grid no. etc complete (3 pillars Rs. 75/- for each pillars)	0.00	0.00	225.00	225.00	0.00	0.00	9000.00	9000.00
	e) Clearing of bushes and preparation of site (As per requirement)	10.00	4189.60	91.00	4280.60	400.00	167584.00	3640.00	171224.00
2	Soil and moisture Conservation works including collection of rubbles from areas upto 30 m etc.	31.00	12987.76	0.00	12987.76	1240.00	519510.40	0.00	519510.40
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 75 mm 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	7314624.00	7314624.00
4	Alignement of pits at 3m x 3m spacement. 1111 pits per 100 pits 0.26 M.D. M/S 8.18 per 100 pits	2.89	1210.79	91.00	1301.79	115.60	48431.78	3640.00	52071.78

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. **Note :-** As per local conditions provision for mechanized digging can be made	73.33	30722.34	0.00	30722.34	2933.20	1228893.47	0.00	1228893.47
6	Construction of 5.00 Rmt wide Inspection path 1 M.D. per 100 Rmt	1.00	418.96	0.00	418.96	40.00	16758.40	0.00	16758.40
7	Enumeration of all valuabel 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	314.22	25.00	339.22	30.00	12568.80	1000.00	13568.80
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	200000.00	200000.00
9	Part Nursery cost of raising 1333 seedlings per ha (including 20% casualty replacement) in polygons of size 12.50 x 25.00cm (wages Rs.11.90 and M& S Rs. 3.62 per plant)	46.70	19565.43	4798.80	24364.23	1868.00	782617.28	191952.00	974569.28
	Total -	**168.07**	**70414.61**	**193278.40**	**263693.01**	**6722.80**	**2816584.29**	**7731136.00**	**10547720.29**
	Contingancy 3%							316431.61	316431.61
	Labour wlfare 4%							421908.81	421908.81
	Grand Total -	**168.07**	**70414.61**	**193278.40**	**263693.01**	**6722.80**	**2816584.29**	**8469476.42**	**11286060.71**
	Say Rs. -		**70415**	**193278**	**263693**	**6723**	**2816584**	**8469476**	**11286061**
	B) First Year Operation								
1	Part nursery cost for maintainace of 1333 seedling per ha Rs. 2.64 per seedling (Wages Rs. 2.69, M&S Rs. 0.81)	14.80	6200.61	1079.00	7279.61	592.00	248024.32	43160.00	291184.32
2	Refilling of pits by good quality soil including application of single super phosphate (1.66 MD per 100 pits)	18.44	7725.62	1944.00	9669.62	737.60	309024.90	77760.00	386784.90
3	Transportation of 1333 seedlings from nursery to plantation site including loading & unloading (0.14 M.D. per 100 seedling & M.S. Rs. 1.82 per seedlings.)	1.87	783.46	2426.00	3209.46	74.80	31338.21	97040.00	128378.21
4	Planting of 1111 seedling (1.0 M.D. oer 100 seedlings)	11.11	4654.65	0.00	4654.65	444.40	186185.82	0.00	186185.82
5	3 Seedliings (1 Rmt circular) and 2 soil workings (4.00 M.D per 100 seedlings) fertilizer application Rs. 0.82 per seedling.	44.44	18618.58	911.02	19529.60	1777.60	744743.30	36440.80	781184.10
6	Casualty replacement (20% 222 seedlings per ha.) (2 M.D per 100 seedlings)	4.44	1860.18	0.00	1860.18	177.60	74407.30	0.00	74407.30
7	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.)	7.78	3259.51	803.64	4063.15	311.20	130380.35	32145.60	162525.95

8	Watch and ward (10 months - 1 watcher per 10 ha.)	27.38	11471.12	0.00	11471.12	1095.20	458844.99	0.00	458844.99
9	Soil working for naturally grower plants and singling (1.15 M.D. per 100 plants)	1.15	481.80	10.00	491.80	46.00	19272.16	400.00	19672.16
10	Fire tracing	2.00	837.92	0	837.92	80.00	33516.80	0.00	33516.80
	Total -	**133.41**	**55893.45**	**7173.66**	**63067.11**	**5336.40**	**2235738.14**	**286946.40**	**2522684.54**
	Contingancy 3%							75680.54	75680.54
	Labour wlfare (medi. & water) 4%							100907.38	100907.38
	Grand Total -	**133.41**	**55893.45**	**7173.66**	**63067.11**	**5336.40**	**2235738.14**	**463534.32**	**2699272.46**
	Say Rs. -	**133**	**55893**	**7174**	**63067**	**5336**	**2235738**	**463534**	**2699272**
	C) Second Year Operation								
1	Part nursery cost for seedlings for causality replecemrnt (222 seedlings per ha.) labour rate @ Rs3.77 and M.S. Rs. 1.82 per seedlings.	2.46	1030.64	404.04	1434.68	98.40	41225.66	16161.60	57387.26
2	Transportation of 222 seedlings for casuality replecement 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	129.88	404.04	533.92	12.40	5195.10	16161.60	21356.70
3	Planting for Casuality replacement 222 seedings (2.00 M.D. per 100 seedlings)	4.44	1860.18	0.00	1860.18	177.60	74407.30	0.00	74407.30
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	11634.52	911.02	12545.54	1110.80	465380.77	36440.80	501821.57
5	Watch and ward 12 months - 1 watcher per 10.00 ha.	36.50	15292.04	0.00	15292.04	1460.00	611681.60	0.00	611681.60
6	Fire tracing	2.00	837.92	0.00	837.92	80.00	33516.80	0.00	33516.80
	Total -	**73.48**	**30785.18**	**1719.10**	**32504.28**	**2939.20**	**1231407.23**	**68764.00**	**1300171.23**
	Contingancy 3%							39005.14	39005.14
	Labour wlfare (medi. & water) 4%							52006.85	52006.85
	Grand Total -	**73.48**	**30785.18**	**1719.10**	**32504.28**	**2939.20**	**1231407.23**	**159775.99**	**1391183.22**
	Say Rs. -		**30785**	**1719**	**32504**	**2939**	**1231407**	**159776**	**1391183**

	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	6984.06	911.02	7895.08	666.80	279362.53	36440.80	315803.33
2	Watch and ward 12 months - 1 watcher per 10.00 ha.	36.50	15292.04	0.00	15292.04	1460.00	611681.60	0.00	611681.60
3	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	837.92	25.00	862.92	80.00	33516.80	1000.00	34516.80
3	Fire tracing	2.00	837.92	0.00	837.92	80.00	33516.80	0.00	33516.80
	Total -	**57.17**	**23951.94**	**936.02**	**24887.96**	**2286.80**	**958077.73**	**37440.80**	**995518.53**
	Contingancy 3%							29865.56	29865.56
	Labour welfare (medi. & water) 4%							39820.74	39820.74
	Grand Total -	**57.17**	**23951.94**	**936.02**	**24887.96**	**2286.80**	**958077.73**	**107127.10**	**1065204.82**
	Say Rs. -		**23952**	**936**	**24888**	**2287**	**958078**	**107127**	**1065205**
	E) Fourth Year Operation								
1	Watch and ward 12 months - 1 watcher per 10.00 ha.	36.50	15292.04	0.00	15292.04	1460.00	611681.60	0.00	611681.60
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	837.92	25.00	862.92	80.00	33516.80	1000.00	34516.80
3	Fire tracing	2.00	837.92	0.00	837.92	80.00	33516.80	0.00	33516.80
	Total -	**40.50**	**16967.88**	**25.00**	**16992.88**	**1620.00**	**678715.20**	**1000.00**	**679715.20**
	Contingancy 3%							**20391.46**	20391.46
	Labour welfare (medi. & water) 4%							**27188.61**	27188.61
	Grand Total -	**40.50**	**16967.88**	**25.00**	**16992.88**	**1620.00**	**678715.20**	**48580.06**	**727295.26**
	F) Fifth Year Operation								
1	Watch and ward 12 months - 1 watcher per 10.00 ha.	36.50	15292.04	0.00	15292.04	1460.00	611681.60	0.00	611681.60
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	837.92	25.00	862.92	80.00	33516.80	1000.00	34516.80
3	Fire tracing	2.00	837.92	0.00	837.92	80.00	33516.80	0.00	33516.80
	Total -	**40.50**	**16967.88**	**25.00**	**16992.88**	**1620.00**	**678715.20**	**1000.00**	**679715.20**
	Contingancy 3%							**20391.46**	20391.46
	Labour welfare (medi. & water) 4%							**27188.61**	27188.61
	Grand Total -	**40.50**	**16967.88**	**25.00**	**16992.88**	**1620.00**	**678715.20**	**48580.06**	**727295.26**

	G) Sixth Year Operation								
1	Watch and ward 12 months - 1 watcher per 10.00 ha.	36.50	15292.04	0.00	15292.04	1460.00	611681.60	0.00	611681.60
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	837.92	25.00	862.92	80.00	33516.80	1000.00	34516.80
3	Fire tracing	2.00	837.92	0.00	837.92	80.00	33516.80	0.00	33516.80
	Total -	**40.50**	**16967.88**	**25.00**	**16992.88**	**1620.00**	**678715.20**	**1000.00**	**679715.20**
	Contingancy 3%							**20391.46**	20391.46
	Labour welfare (medi. & water) 4%							**27188.61**	27188.61
	Grand Total -	**40.50**	**16967.88**	**25.00**	**16992.88**	**1620.00**	**678715.20**	**48580.06**	**727295.26**
	H) Seventh Year Operation								
1	Watch and ward 12 months - 1 watcher per 10.00 ha.	36.50	15292.04	0.00	15292.04	1460.00	611681.60	0.00	611681.60
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	837.92	25.00	862.92	80.00	33516.80	1000.00	34516.80
3	Fire tracing	2.00	837.92	0.00	837.92	80.00	33516.80	0.00	33516.80
	Total -	**40.50**	**16967.88**	**25.00**	**16992.88**	**1620.00**	**678715.20**	**1000.00**	**679715.20**
	Contingancy 3%							20391.46	20391.46
	Labour welfare (medi. & water) 4%							27188.61	27188.61
	Grand Total -	**40.50**	**16967.88**	**25.00**	**16992.88**	**1620.00**	**678715.20**	**48580.06**	**727295.26**
	Say Rs. -		**16968**	**25**	**16993**	**1620**	**678715**	**48580**	**727295**
	H) Eighth Year Operation								
1	Watch and ward 12 months - 1 watcher per 10.00 ha.	36.50	15292.04	0.00	15292.04	1460.00	611681.60	0.00	611681.60
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	837.92	25.00	862.92	80.00	33516.80	1000.00	34516.80
3	Fire tracing	2.00	837.92	0.00	837.92	80.00	33516.80	0.00	33516.80
	Total -	**40.50**	**16967.88**	**25.00**	**16992.88**	**1620.00**	**678715.20**	**1000.00**	**679715.20**
	Contingancy 3%							20391.46	20391.46
	Labour welfare (medi. & water) 4%							27188.61	27188.61
	Grand Total -	**40.50**	**16967.88**	**25.00**	**16992.88**	**1620.00**	**678715.20**	**48580.06**	**727295.26**
	Say Rs. -		**16968**	**25**	**16993**	**1620**	**678715**	**48580**	**727295**

	H) Nineth Year Operation								
1	Watch and ward 12 months - 1 watcher per 10.00 ha.	36.50	15292.04	0.00	15292.04	1460.00	611681.60	0.00	611681.60
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	837.92	25.00	862.92	80.00	33516.80	1000.00	34516.80
3	Fire tracing	2.00	837.92	0.00	837.92	80.00	33516.80	0.00	33516.80
	Total -	**40.50**	**16967.88**	**25.00**	**16992.88**	**1620.00**	**678715.20**	**1000.00**	**679715.20**
	Contingancy 3%							20391.46	20391.46
	Labour welfare (medi. & water) 4%							27188.61	27188.61
	Grand Total -	**40.50**	**16967.88**	**25.00**	**16992.88**	**1620.00**	**678715.20**	**48580.06**	**727295.26**
	Say Rs. -		**16968**	**25**	**16993**	**1620**	**678715**	**48580**	**727295**
	I) Tenth Year Operation								
1	Watch and ward 12 months - 1 watcher per 10.00 ha.	36.50	15292.04	0.00	15292.04	1460.00	611681.60	0.00	611681.60
2	Counting of survival percentage Grid wise and Species wise and to Note the same on Register in May and October	2.00	837.92	25.00	862.92	80.00	33516.80	1000.00	34516.80
3	Fire tracing	2.00	837.92	0.00	837.92	80.00	33516.80	0.00	33516.80
	Total -	**40.50**	**16967.88**	**25.00**	**16992.88**	**1620.00**	**678715.20**	**1000.00**	**679715.20**
	Contingancy 3%							20391.46	20391.46
	Labour welfare (medi. & water) 4%							27188.61	27188.61
	Grand Total -	**40.50**	**16967.88**	**25.00**	**16992.88**	**1620.00**	**678715.20**	**48580.06**	**727295.26**
	Say Rs. -		**16968**	**25**	**16993**	**1620**	**678715**	**48580**	**727295**

ABSTRACT

S. No.	Year of Operation	Mandays	Wages	Material Supply	Total	40.00 ha. Plantation			
						Mandays	Other Expenses	Total	Total Amount (round off)
1	2	3	4	5	6	7	8	9	10
1	PPO + PYO Works	168	70415	193278	263693	6723	2816584	8469476	11286061
2	First year Operation	133	55893	7174	63067	5336	2235738	463534	2699272
3	Second Year Operation	73	30785	1719	32504	2939	1231407	159776	1391183
4	Third Year Operation	57	23952	936	24888	2287	958078	107127	1065205
5	Fourth Year Operation	41	16968	25	16993	1620	678715	48580	727295
6	Fifth Year Operation	41	16968	25	16993	1620	678715	48580	727295
7	Sixth Year Operation	41	16968	25	16993	1620	678715	48580	727295
8	Seventh Year Operation.	41	16968	25	16993	1620	678715	48580	727295
9	Eighth Year Operation.	41	16968	25	16993	1620	678715	48580	727295
10	Nineth Year Operation.	41	16968	25	16993	1620	678715	48580	727295
11	Tenth Year Operation.	41	16968	25	16993	1620	678715	48580	727295
	Total-	**716**	**299820**	**203282**	**503103**	**28625**	**11992814**	**9539974**	**21532788**

Rs. 21532788/- (Rs. Two caror, fifteen Lakh, thirty two Thousand, seven hundred, eighty eight) only.

Sub. Divisional Forest Officer, Kurkheda
Wadsa Forest Division, Wadsa

Dy. Conservator of Forests
Wadsa Division,Wadsa