

Maharashtra State Electricity Transmission Corporation Limited.
132 KV D/C Mul-SICOM Chandrapur Electricity Transmission Line.

Abstract

Sr. No.	Cast	Botnical Name	Below 30	Below 31-45	Below 46-60	Below 61-75	Below 76-90	Below 91-105	Below 106-120	Below 121-135	Below 136-150	Above 151	Total
[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]
1	Aapta	Bauhinia racemosa	5	11	6	2	3	2	1	0	1	0	31
2	Aati	Other	0	1	0	0	0	0	0	0	0	0	1
3	Aawla	Phyllanthus emblica	0	2	2	2	1	2	0	1	0	0	10
4	Ain	Terminalia alata Heyne	70	242	159	108	81	42	31	8	9	8	758
5	Anduli	Other	1	2	0	0	1	0	0	0	0	0	4
6	Anjan	Hardwickia binata, Roxb	9	26	9	7	6	3	1	1	4	18	84
7	Bahwa	Cassia fistula, Linn	18	32	23	15	4	1	2	1	0	0	96
8	Bamboo	Bambusa arundinacea	1194	0	0	0	0	0	0	0	0	0	1194
9	Behada	Terminalia bellirica	3	8	6	3	6	5	1	4	3	1	40
10	Bel	Aegle marmelos	0	9	8	8	7	0	4	0	2	1	39
11	Bharati	Maytenus emarginata	0	0	0	1	0	0	0	0	0	0	1
12	Bhera	Chloroxylon swietenia	27	73	75	64	49	48	31	11	3	5	386
13	Biba	Semecarpus anacardium, Linn	2	8	13	2	6	2	1	0	1	0	35
14	Bija	Pterocarpus marsupium, Roxb	3	6	6	3	1	2	0	2	1	1	25
15	Bor	Zizyphus mauritiana, Lamk	1	0	2	0	0	1	0	0	0	0	4
16	Char	Buchanania lanzan	12	36	31	20	14	5	1	1	0	0	120
17	Chichwa	Albizia odoratissima, Roxb	1	1	2	0	2	1	0	0	0	0	7
18	Chilati	Mimosa hamata	0	1	0	0	0	0	0	0	0	0	1
19	Chinch	Tamarindus indica Linn	8	28	32	22	13	15	10	2	2	9	141
20	Dhaman	Grewia tilifolia	2	6	0	1	0	0	0	0	1	1	11
21	Dhawda	Anogeissus latifolia	25	69	39	42	21	18	6	5	4	6	235
22	Dhoban	Halbergia paniculate, Roxb	3	4	9	9	4	5	9	4	1	8	56
23	Garadi	Cleistanthus collinus, Roxb	49	121	79	41	17	8	7	0	0	0	322
24	Ghoti	Zizyphus glaberrima (Sedgw)	36	69	32	6	4	1	0	1	1	0	150
25	Haldu	Haldina cordifolia Roxb	0	0	0	3	0	0	0	0	0	0	3
26	Hirda	Terminalia chebula Getz	1	8	8	7	4	0	0	0	0	0	28
27	Hiwar	Acacia leucophloea Roxb	6	25	37	19	18	13	7	1	1	1	128
28	Jambhul	Zyzygium cumin Linn	0	1	1	1	0	1	0	0	0	0	4
29	Kakai	Flacourtia indica	9	42	39	31	9	7	5	1	1	1	145
30	Kalam	Mitragyna parviflora Roxb	6	62	77	42	35	11	5	2	2	2	244
31	Karai	Miliusa velutina H.F. & Thoms	5	24	38	35	11	7	1	0	1	1	123
32	Karanj	Pongamia pinnata (L) pierre	0	1	0	1	0	0	0	0	0	0	2
33	Kateyen	Bridelia retusa spreng	9	19	10	18	13	12	4	4	2	2	93
34	Kavi	Actinidia delciosa	2	1	3	3	3	2	0	2	0	0	16
35	Kawath	Limonia acidissima Lorr	0	2	3	4	4	1	0	1	0	1	16
36	Khair	Acacia catechu wild	25	113	53	16	8	4	1	0	0	0	220
37	Kinhi	Fagraea berteriana	0	3	3	3	1	0	0	1	0	0	11
38	Kojabi	Schleichera oleosa	2	11	7	7	8	4	4	0	1	8	52
39	Kuda	Holarrhena pubescens	28	58	13	4	3	0	0	0	0	0	106
40	Kukadi	Sesbania grandiflora	7	31	13	4	1	0	0	0	0	0	56
41	Kumbhi	Careya arborea Roxb	2	9	8	10	5	1	0	0	1	0	36
42	Kusum	Schleichera oleosa Lour Merr	0	1	0	0	0	0	0	0	0	0	1
43	Lokhandi	Ixora arborea Roxb	1	13	8	4	3	2	0	0	1	0	32
44	Malati	Aganosma heynei - Malati	3	3	2	0	0	0	0	0	0	0	8
45	Medshing	Dolichandron falcata Seem	0	0	1	1	0	0	1	0	0	2	5
46	Moha	Madhuca longifolia Koen	22	101	79	83	71	45	48	40	29	63	581
47	Mowai	Lannea coromandelica	0	1	3	0	1	1	1	0	0	0	7
48	Neem	Azadirachata indica	6	16	4	1	1	0	2	0	1	0	31
49	Nilgiri	Eucalyptus globulus	1	0	0	0	3	4	2	1	0	0	11
50	Pakali	Terminalia elliptica	0	0	0	0	0	0	0	0	0	1	1
51	Palas	Butea monosperma	3	18	14	11	7	5	2	1	1	0	62
52	Parad	Other	6	10	12	7	2	0	0	0	0	0	37
53	Phetra	Gardenia turgida	0	1	0	0	0	0	0	0	0	0	1
54	Pimpal	Ficus religiosa Linn.	0	0	0	0	1	0	0	0	1	0	2
55	Pipoli	Other	0	0	1	0	0	0	0	0	0	0	1
56	Rohan	Soyimida febrifuga	4	20	16	19	16	6	5	4	1	2	93
57	Sehna	Lagerstroemia parviflora	86	206	88	57	28	22	5	6	1	2	501
58	Seljari	Other	0	0	0	0	0	0	1	0	0	0	1
59	Semal	Bombax ceiba L.	1	12	19	18	20	15	10	5	2	6	108
60	Shiwan	Gmelina arborea Linn	0	2	2	2	0	0	0	0	0	0	6
61	Sisam	Dalbergia latifolia Roxb	1	20	13	5	8	6	2	0	0	0	55
62	Subabul	Leucaena leucocephala	2	1	0	0	0	0	0	0	0	0	3
63	Surya	Xylia xylocarpa Roxb	156	239	93	51	19	14	3	1	0	1	577
64	Taad	Arecaceae	0	0	0	0	0	0	0	0	0	1	1
65	Teak	Tectona grandis Linn	261	626	603	364	194	103	43	12	5	1	2212
66	Tendu	Diospyros melanoxylon Roxb	15	28	19	22	16	14	14	4	3	6	141
67	Umbar	Fcus recemosa Linn	1	1	0	0	0	0	0	0	0	0	2
Total :-			2140	2484	1823	1209	753	461	271	127	87	159	9514

(Signature)

(Sarika V. Jagtap)
 Divisional Forest Officer (Addl.),
 Chandrapur Forest Division,
 Chandrapur

Tree Felling Estimate

132 KV D/C Mul-Sicom Chandrapur Electric Transmission Line

Range Chandrapur, Comptt. No. 408, FDCM West Chanda Division, Comptt. No. 409, 411 412, 415, 416, 418, 419, 420, 421, 422, Range Chichpalli, Comptt. No. 615, 528, 629, 713, 692, 720 & Survey No. 263, 38

Girth Class	16/25	u/30	31/45	46/60	61/75	76/90	91/105	106/120	121/135	136/150	Above 151	Total
(A) Total Trees												
Teak Timber	0	261	626	603	364	194	103	43	12	5	1	2212
Non Teak Timber	0	685	1858	1220	845	559	358	228	115	82	158	6108
Teak Fuel	0	0	0	0	0	0	0	0	0	0	0	0
Non Teak Fuel	0	0	0	0	0	0	0	0	0	0	0	0
Total :-	0	946	2484	1823	1209	753	461	271	127	87	159	8320
(B) Felling rate (@ 100 Trees)	526	894	1135	1525	2354	3205	4620	5979	9738	11241	18229	
(C) Felling amount	0	6384.9	21714	19208	20255	18110	16643	13675	11211	9223	28803	165226
Form Factor	0.008	0.014	0.028	0.070	0.110	0.165	0.220	0.310	0.400	0.485	0.570	
(E) Expected Yield												
Teak Timber Cum.	0.000	3.654	17.528	42.210	40.040	32.010	22.660	13.330	4.800	2.425	0.570	179.227
Non Teak Timber Cum.	0.000	9.590	52.024	85.400	92.950	92.235	78.760	70.680	46.000	39.770	90.060	657.469
Total Timber Cum.	0.000	13.244	69.552	127.610	132.990	124.245	101.420	84.010	50.800	42.195	90.630	836.696
Fuel Beat Form Factor	0.008	0.014	0.028	0.070	0.060	0.090	0.120	0.175	0.230	0.330	0.430	1.555
Teak Fuel Cum.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30% Teak Timber Cum.	0	1.0962	5.2584	12.663	12.012	9.603	6.798	3.999	1.44	0.7275	0.171	53.768
Total Teak Beat Nos.					0	Beat						
Non Teak Fuel Cum.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
50% Non Teak Timber Cum.	0.000	4.795	26.012	42.700	46.475	46.118	39.380	35.340	23.000	19.885	45.030	328.735
Total Non Teak Beat Nos.					406	Beat						
Total Teak & Non Teak Beat Nos.					406	Beat						



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Sr. No.	Particular		Unit	Rate	Amount
1	2		3	4	5
1	Marking trees cutting by saw and cleaning of stump	Trees	8320	-	165226
2	Cross cutting of timber trees by saws, including removal of centre bark of 15 cms.				
	Fashioning of Timber lags				
	(a) Pole fashioning (Cum.)	Per Cum.		403	
	(b) Fashioning of Timber lags	Per Cum.	836.696	373	312088
	(c) Making of round timber removal of knot and cleaning of knot vense	Per Cum.	836.696	66	55222
3	Numbering of Felling Trees stump by digit nails	Per hundred	8320	248	20634
4	(a) Measurement of Timber Trees and Numbering by nail with tar application of mixture of geru & Cow dung to both ends of the log of teak and superior misc. timber	Per hundred		24	
	(b) Measurement of timber logs and measuring by digit nails on inch log	Per Cum.	836.696	84	70282
5	Teak or superior species timber applying mixture of geru both sides of log, with mixture expenditures.	Per hundred	8320	665	55328
6	(a) Dragging of Pole from coupe to coupe depot				
	(b) Dragging of Timber wood (except pole) from coupe to coupe depot				
	(1) Below 0.5 Km.	Per Cum.	836.696	393	328822
	(2) Below 0.5 to 1 Km.	Per Cum.	836.696	617.00	516241
7	Marking of fuel trees cutting by saw and lotting of fuel beats size material 2 m. x 1.20 m. x 1 m. and cleaning in 1 m. surrounding of beats area	Per Beat	406	272	110432
8	Numbering of stumps of fuel trees by paint	Per hundred	8320	102	8486
9	Numbering in coupe on fuel beats by paint	Per hundred	406	817	3317
10	dragging of beats from forest to forest depot in plain area				
	(a) 1.00 km. to distance	Per Beat		190	0
	(b) 2.00 km. to distance	Per Beat		202	0
	(c) 3.00 km. to distance	Per Beat	406	221	89726
11	Restocking the beat in coupe depot as per order	Per Beat	406	42	17052
12	Expenditure on road in coupe	Per Km.	0	4500	50000
13	Expenditure on outside road of coupe	Per Km.	0	0	0
14	Watchman at coupe depot. Nos.-8 Since January/2019 up to May/2020 = 480 days	Days	480	412.11	197813
15	Cleaning of forest depot.		4	8496	33984
	Timber depot.	Per Coupe	0	1767	0
16	Creating a fire line on the coupe boundary	Km.	20	1767	35340
17	Stationary material	L.S.	-	-	2000
	Total :-				2071993
18	water supply for labour				
19	Supply of medicine for labour				41440
20	Expenditure on temporary shade in coupe for labour				
	A. Total Expenditure in Coupe Works (Upto Coupe depot.)				2113433

Average Expenditure in Coupe Works (upto coupe depot.)

Sr. No.	Particular	Unit	Expected expenditure	Expenditure per Cum./ Beat
1	Timber material		1009161	8009
2	Fuel Beat		229013	629
	Total Expenditure :-		1238175	8638

Note: Amount for above item no. 18, 19, 20 estimated cost 2% for Labour Welfare. (As per Wage Board rate structure item no. 27)

(B) Transport Expenditure

1	2		3	4	5
1	Transportation of pole and timber materials from coupe / coupe depot directly to the sales depot by bullock cart.				
a)	Below 0 to 3 Km.	Per Cum.	836.696	747	625012
b)	Below 3 to 10 Km.				
2	Filling and demolishing pole timber in truck / tractor				
a)	Below distance 0 to 50 Km.	Per Cum.	836.696	526	440102
3	Transportation of beat from coupe/coupe depot directly to the sales depot by bullock cart	Per Beat			
a)	0 to 3 Km.			149	
b)	0 to 5 Km.	Per Beat	406	178	72268
c)	8 to 10 Km.				

Filling and demolishing Fuel beat in truck / tractor		Per Beat	406	116	47096
a)	Below distance 0 to 25 Km.			160	
b)	Below distance 25 to 50 Km.			212	
c)	Upto distance 50 to 100 Km.				
5 Filling and unloading in a chalk timber truck				234	
a)	Below distance 0 to 50 Km.			385	
b)	Upto distance 50 to 100 Km.				
B) Total Transport Expenditure :-					1184478

(C) Expenditure of Sale Depot.					
1	Restocking of the beat spieceswise and girthwise in sale depot	Per Beat	406	105	42630
2	Spreading of Timber wood and measurement and numbering by nail with tar	Per Cum.	836.696	54	45182
3	Lotting of Timber wood as per species,Length, Girth and Quality in sale depot.	Per Cum.	836.696	220	184073
4	Numbering to Timber and fuel beats as per lott and details by paint in sale depot.	Per Hundred Lots	0	2308	0
C) Total Expenditure of Sale Depot. :-					271885
Total Expected Expenditure :- (A + B + C):					3569796



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Bamboo Cutting Estimate

(Total Bamboo Clumps 1194)

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Sr. No.	Particular	Rate per hundred	Bamboo Nos.	Bundle Nos.	Amount
1	2	3	4	5	6
1	Cutting of Long bamboo & bundles (Bamboo clump with cleaning)				
	1) 4 - 5 Meter 1) Long Bamboo	468	17910	0	83818.80
	5 - 6 Meter 1) Long Bamboo	492	7164	0	35246.88
	6 - 7 Meter 1) Long Bamboo	524	10746	0	56309.04
	2) Bamboo Bundles	2068	0	3582	74075.76
2	Transport of Coupe to Forest depot. (By head or bullock cart)				
	1) 4 - 5 Meter 1) Long Bamboo	496	17910	0	88833.60
	5 - 6 Meter 1) Long Bamboo	511	7164	0	36608.04
	6 - 7 Meter 1) Long Bamboo	543	10746	0	58350.78
	2) Bamboo Bundles	760	0	3582	27223.20
	a) Making a bamboo bundles On sale depot. Long bamboo (5 or 10) with the cost of the rope	43	35820	0	15402.60
	b) Expenditure on sale depot 1) Long Bamboo	151	35820	0	54088.20
	2) Bamboo Bundles	241	0	3582	8632.62
4	Traffic climbs to bamboo sales depots or Nistar depots (Unskilled work)				
	1 to 50 Km. 1) Long Bamboo	43	35820	0	15402.60
	2) Bamboo Bundles	118	0	3582	4226.76
	51 to 100 Km. 1) Long Bamboo	64	0	0	0.00
5	Unloading (Unskilled work)				
	1 to 50 Km. 1) Long Bamboo	43	35820	0	15402.60
	2) Bamboo Bundles	115	0	3582	4119.30
	51 to 100 Km. 1) Long Bamboo	64			
	Total :-				577741
	Water supply and medicine for labour 2%				11555
	Total :-				589296



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