

Certificate No. 11

**No Cutting and Felling of Trees Certificate of by the Dy. Conservator
of Forest**

This is to certify that total :...2586... no. of trees will have to be felled from the proposed forest land under the project. The project authority agrees to defray the cost of felling of trees and allied works. Tree felling will done only after permission from state forest departments. The detailed list of trees to be felled and the tree felling estimate is enclosed in the proposal.



Date : / /2019

16 JUL 2020
Place : Shahapur

(V. T. Ghule)
Deputy Conservator of Forests
Shahapur Forest Division, Shahapur

Executive Engineer
M.S.R.D.C. (Ltd), Mumbai

PROPOSAL NO. : FP/MH/ROAD/39684/2019 Proposal for diversion of 17.01 Ha. Forest land under Forest (Conservation) Act, 1980 for Rehabilitation and Up-gradation of Section - I - Shahpur Patgaon (KM 0+000 to KM 20+130) under Shahapur Forest Division part of NH-3 Shahpur - Murbad - Mhasa - Karjat - Khopoli-NH4 section of newly declared NH-548 A in the state of Maharashtra on Engineering, Procurement & Construction (EPC) Basis Contract"

Forest Area Tree Felling Estimate

Division : Shahapur
Expected Yield

Range : Shahapur, Dhasai
Timber Material : 156.438 Cu.m.
Firewood Material : 847.544 Cu.m.

Sr. No.	Details of work	Particulars	Unit	Quantity	Rate	Amount
1	Bush wood clearance (to facilitate trees felling)	---	Ha.	17.02	3607.7	61403.054
2	Trees felling by saw	Below 30 cms	100	48	323	155.04
		31 to 45 cms	100	637	500	3185.00
		46 to 60 cms	100	965	1276	12313.40
		61 to 75 cms	100	336	1913	6427.68
		76 to 90 cms	100	392	2546	9980.32
		91 to 105 cms	100	75	2916	2187.00
		106 to 120 cms	100	63	3616	2278.08
		121 to 150 cms	100	33	6796	2242.68
		Above 150 cms	100	37	7725	2858.25
		Total		2586		41627.45
3	Preparation of Timber Material	Preparation of Log	Cu.mtr.	156.438	298	46618.524
4	Measurement of Timber Material	Stacking of 1 mtr. Length timber material by axe	Cu.mtr.	156.438	72	11263.536
		Numbering	100	2586	186	4809.96
5	Preparation of Firewood Material	Stacking of 1 mtr. Length firewood material by axe 25%	Cu.mtr.	211.886	98	20764.828
		Stacking of 1 mtr. Length firewood material by saw 75%	Cu.mtr.	635.658	124	78821.592
		Dragging of firewood 30%	Cu.mtr.	254.263	235	59751.805
		Dragging of firewood 30%	Cu.mtr.	254.263	296	75261.848
		Dragging of firewood 40%	Cu.mtr.	339.018	386	130860.948
		Total				365461.02
6	Dragging of Timber Material	Dragging of Timber 50%	Cu.mtr.	78.219	1412	110445.228
		Dragging of Timber 50%	Cu.mtr.	78.219	2320	181468.08
7	Watchman/Supervisor		Months	6	9765	58590
8	Fireline		Km.	17.000	2458	41786
9	Labour Shed in coupe		Lumpsum	5	3000	15000
10	Temporary Road		Lumpsum	6	20000	120000
11	Passbook, Stationary		Lumpsum	6	3000	18000
		Total				545289.31
12	Material Transportation	Timber	Cu.mtr.	156.438	1250	195547.5
		Firewood	Cu.mtr.	847.544	550	466149.2
		Total				661696.70
13	Depot Charges	a) Preparation of timber (Logs)	Cu.mtr.	156.438	217	33947.046
		b) Numbering of timberwood (by nail)	100	2586	168	4344.48
		c) Stacking of firewood stackers (including selection)	Cu.mtr.	847.544	75	63565.8
		d) Measurement of Timber	Cu.mtr.	156.438	44	6883.272
		Depot road	Lumpsum	2	50000	100000
		Advt. in newspaper	Lumpsum	2	10000	20000
		Light and shed charges	Lumpsum	2	5000	10000
		Depot watchman charges	Months	6	9765	58590
		Stationary	Lumpsum	2	5000	10000
		Total				2045500.15
		5% Labour welfare & Contingency				102275.0076
		GRAND TOTAL				2147775.16
		Say Rs.				2147775.00

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B Form

Girth	Species				
	Teak (<i>Tectona grandis</i>)	Khair (<i>Acacia catechu</i>)	Ain (<i>Terminalia tomentosa</i>)	Injayali (<i>Others</i>)	Total
Below 30 cm.	8	0	17	23	48
30 to 45	127	5	284	221	637
46 to 60	215	21	459	270	965
61 to 75	58	10	167	101	336
76 to 90	56	7	208	121	392
91 to 105	9	1	37	28	75
106 to 120	5	0	35	23	63
121 to 150	5	0	10	18	33
151 to 180	2	0	0	13	15
181 to 200	1	1	1	5	8
201 to 250	1	0	0	9	10
251 to 300	0	0	0	4	4
Above 301	0	0	0	0	0
Total	487	45	1218	836	2586

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FORM FACTOR

Sr. No.	Name of Species	Girth of tree in cm.	No. of trees	Form Factor	Cu.mtr.	As per Form Factor		Actual Production		Remarks
						Timber	Firewood	Timber	Firewood	
1	Teak	Below 30 cms	8	0.007	0.056	17.568	43.920			
		31 to 45 cms	127	0.022	2.794					
		46 to 60 cms	215	0.049	10.535					
		61 to 75 cms	58	0.093	5.394					
		76 to 90 cms	56	0.146	8.176					
		91 to 105 cms	9	0.214	1.926					
		106 to 120 cms	5	0.289	1.445					
		121 to 150 cms	5	0.406	2.030					
		Above 150 cms	4	0.695	2.780					
		Total	487		35.136					
2	Khair	Below 30 cms	0	0.020	0.000	3.098	11.616			
		31 to 45 cms	5	0.051	0.255					
		46 to 60 cms	21	0.079	1.659					
		61 to 75 cms	10	0.187	1.870					
		76 to 90 cms	7	0.331	2.317					
		91 to 105 cms	1	0.510	0.510					
		106 to 120 cms	0	0.799	0.000					
		121 to 150 cms	0	1.031	0.000					
		Above 150 cms	1	1.133	1.133					
		Total	45		7.744					
3	Ain	Below 30 cms	17	0.014	0.238	71.099	414.747			
		31 to 45 cms	284	0.051	14.484					
		46 to 60 cms	459	0.108	49.572					
		61 to 75 cms	167	0.212	35.404					
		76 to 90 cms	208	0.360	74.880					
		91 to 105 cms	37	0.595	22.015					
		106 to 120 cms	35	0.833	29.155					
		121 to 150 cms	10	1.010	10.100					
		Above 150 cms	1	1.150	1.150					
		Total	1218		236.998					
4	Others	Below 30 cms	23	0.011	0.253	64.673	377.262			
		31 to 45 cms	221	0.042	9.282					
		46 to 60 cms	270	0.108	29.160					
		61 to 75 cms	101	0.221	22.321					
		76 to 90 cms	121	0.368	44.528					
		91 to 105 cms	28	0.595	16.660					
		106 to 120 cms	23	1.005	23.115					
		121 to 150 cms	18	1.270	22.860					
		Above 150 cms	31	1.529	47.399					
		Total	836		215.578					

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