

# TIMBER BAMBOO TRADE BULLETIN



NO. 64

DECEMBER 2011



Division of Statistics

DIRECTORATE OF EXTENSION

**INDIAN COUNCIL OF FORESTRY RESEARCH AND EDUCATION**

*(An Autonomous Body of Ministry of Environment & Forests, Govt. of India)*

P.O. New Forest, DEHRADUN – 248 006 (Uttarakhand)

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**Based on Data from**

**JULY 2011 to DECEMBER 2011**

**Division of Statistics**

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पर्यावरण एवं वन मंत्रालय, भारत सरकार  
भारतीय वानिकी अनुसंधान एवं शिक्षा परिषद्  
(आईएसओ 9001:2000 प्रमाणित संस्था)  
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Ministry of Environment and Forests,  
Government of India  
**Indian Council of Forestry Research and Education**  
(An ISO 9001:2000 Certified Organisation)  
P.O. New Forest, Dehra Dun - 248 006 (Uttarakhand)

### Foreword

Market intelligence is vital for making decisions on investment in any enterprise, and forestry is no different. In order to promote tree and bamboo planting as an enterprise, regular and periodic inflow of information on market indicators pertaining to the prices of timber and bamboo is necessary. The same needs to be disseminated to the stakeholders comprising tree growers, farmers, state forest departments, forest development corporations, private entrepreneurs and other user groups.

The bulletin is presented in two sections, Section – A: comprising prices in private markets and Section – B: comprising prices of Government Depots. It is expected that this bulleting will be of help to farmers, researchers, industrialists, entrepreneurs, state forest departments, forest development corporations and consumers of wood and forest products.

As an indicator of the prevailing trends in the internal markets, the report of the Market Information Service of International tropical Timber Organization (ITTO), namely Tropical Timber Market report, is provided as an annexure of this bulletin.

ICFRE has been publishing the Timber Bamboo Trade Bulletin since 1994 and it has generated tremendous response from different quarters. The current issue of the bulletin is also available on the website of ICFRE with the link in the bulletin board of Directorate of Extension. Suggestions for improvement in the content/structure are welcome and may be sent to the Assistant Director General (Statistics), ICFRE.

  
(Dr. V.K. Bahuguna) 12/18/2012

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### Preface

Timber Bamboo Trade Bulletin is brought out by the Division of Statistics, ICFRE as a tool for providing information on market prices of selected 8 timber species and bamboo. The prices are collected from around 19 markets of India on these species. The market survey is carried out by the Nodal Officers (Statistics) of the eight institutes of ICFRE in the markets identified in the states under jurisdiction of the respective institute.

The difference in private markets and government depots is also significant. The market forces play an important role in determining prices in the former while policies and auction rates are the determinants in the latter. The two sections, A and B, in the bulletin provide information about the rates in the private markets and government depots respectively.

Conducting surveys in the market and obtaining integral information is difficult as the fear of divulging business secrets looms large in the minds of the traders. In this context, the effort put in the market survey by the Nodal Officers (Statistics) of ICFRE institutes to obtain prices is commendable.

I am sure that the stakeholders in market information of timber and bamboo will find this bulletin of use. Suggestions for further improvement of the bulletin are welcome and may be sent to the Assistant Director General (Statistics), ICFRE.

(Saibal Dasgupta)

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# Study of Markets

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The market orientation of farmers has been highlighted in the new National Forest Policy of 1988 which states that, “the forest based industry should meet its raw material requirements by establishing a direct relationship with individuals who can grow trees on farm lands”. The new National Forest Policy, thus, encourages the farmers to grow more trees.

It is evident that study of marketing of the forest produce grown by the farmers, is very vital for the success of farm forestry and private tree planting programmes. Market analysis assumes greater importance when more options are open to the farmers for growing a variety of trees. Marketing information is helpful to the farmers in assessing the advantage of one crop over the other. It is, therefore, very important to monitor and disseminate market information for giving impetus to tree planting.

ICFRE’s eight Institutes are studying 19 markets of the country every quarter to collect the latest trend of market rates of 7 timber species (round and sawn), 4 bamboo species and fuel of different species. Market trend of imported timber species are also taken care of and mentioned accordingly in the formats tables.

## **P**URVIEW OF STUDY

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The present study is confined to the following timber species and bamboos. Each species has been given a separate code number as shown below:

<b>Name of species</b>	<b>Code Number of Species</b>
<b>Teak</b>	<b>1</b>
<b>Sal</b>	<b>2</b>
<b>Eucalyptus</b>	<b>3</b>
<b>Poplars</b>	<b>4</b>
<b>Casuarina</b>	<b>5</b>
<b>Chir pine</b>	<b>6</b>
<b>Deodar</b>	<b>7</b>
<b>Bamboos</b>	<b>8</b>

Several markets spread all over the country have been identified for collection of data relating to prices of above mentioned species of timber and bamboos. Each Institute of the Indian Council of Forestry Research & Education has been assigned the task of collecting information for the adjoining identified markets as per the detailed list below:

<b>Research Institutes</b>	<b>Institutes Code Number</b>	<b>Name of Market</b>	<b>Market Code Number</b>
<b>TFRI, Jabalpur</b>	01	Nagpur	13
		Jabalpur	09
		Raipur	15
<b>IFGTB, Coimbatore</b>	02	Chennai	12
		Calicut	04
<b>IWST, Bangalore</b>	03	Bangalore	02
		Hyderabad	08
<b>AFRI, Jodhpur</b>	04	Jaipur	10
		Ahmedabad	01
<b>FRI, Dehra Dun</b>	05	Delhi	06
		Dehra Dun	05
		Yamunanagar	18
<b>HFRI, Shimla</b>	06	Pathankot	14
		Jammu	11
<b>RFRI, Jorhat</b>	07	Guwahati	07
<b>IFP, Ranchi</b>	08	Kolkata	03
		Ranchi	16
		Siliguri	17

## **M**ETHODOLOGY

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Each institute deputed an expert to collect the market information. Survey parties of the institutes under the guidance of the deputed expert, visit identified markets and collect information in the prescribed formats from the timber merchants and Government depots.

## **V**ARIOUS SIZES OF TIMBER AND BAMBOOS

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Timber is sold in various markets in the form of round logs, sawn wood etc. Various sizes of round/sawn timber or bamboos sold in a particular market, depends entirely on the requirement in that area; e.g. in northern states of U.P., Punjab, Haryana, Delhi, Bamboo of 6 ft. and 3 ft. length known as “Bahi” and “Sarava” respectively, are sold; whereas in other states longer bamboos with length varying from 3 mt. to 9 mt. find greater use in construction of houses. Similarly, in coastal areas, there is more demand for timber suiting the requirement of boat making and ship building.

Sizes of round/sawn timber and bamboos sold in different markets are given in respective tables which are self explanatory.

Industrial bamboos are sold by the State Forest Departments and Forest Corporations directly to the paper mills. Thinner ends of the bamboo are converted into pieces of 1 mt. and 2 mt. lengths and supplied to the paper mills.

## **C**OMPILATION OF DATA

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The data collected by various institutes for all the identified markets has been compiled in the Division of Statistics, Directorate of Extension, I.C.F.R.E., and published in the present form. Data for each market has been given separately.

## **P**eriod of Reporting

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The present volume contains data for the month June 2011 to December 2011. The data for the market Calicut and Chennai is for the period September 2010, the data for the market Jabalpur, Nagpur, Raipur, Siliguri and Dehradun are for the period June 2011. As the data for the period June 2011 to December 2011 is not received so far.

# **Private Market Rates**

ROUND LOGS ( TEAK )

Market	Grade	Length Metres	Price per cu.m. in Rupees				
			Mid Girth in centimeters.				
			41-60	61-90	91-120	121-150	Over 150
1	2	3	4	5	6	7	8
Ahmedabad							
(Ghana)	I	2.4	-	39183	40595	-	-
(Burma)	I	3	-	-	81190	-	-
(Ivory)	I	3	-	-	47655	-	-
(Pine)		3.0-3.6	-	-	15885	-	-
Bangalore							
(Burma)	II	> 5.0	-	-	76279	88286	107709
(African)	III	> 5.0	-	-	65332	74160	84755
(India)	III	> 5.0	-	42377	52971	62859	-
Calicut							
	CII LL	>7.3	-	-	-	72000	-
	BII LL	>7.3	-	-	-	101232	-
	BIII LL	>7.3	-	-	68097	-	-
	BII	2.5-7.3	-	-	-	81665	-
	BIII	2.5-7.3	-	-	61491	-	-
	BIV	2.5-7.3	-	42320	-	-	-
	CI	2.5-7.3	-	-	-	-	76177
	CII	2.5-7.3	-	-	-	58765	-
	CIII	2.5-7.3	-	-	45251	-	-
	CIV	2.5-7.3	-	29996	-	-	-
	LLB IV	>7.3	-	43101	-	-	-
	SL B III	1.0-2.5	-	-	40103	-	-
	SL C III	1.0-2.5	-	-	30272	-	-
	SL C IV	1.0-2.5	-	24302	-	-	-
	SL C V	1.0-2.5	-	20425	-	-	-
Dehradun	A	-	22952	35310	60027	79448	93572
Hyderabad							
African teak	Costarica	3.0-4.5	26482.5	33544.5	-	-	-
African teak	Ghana	3.0-4.5	33544.5	40606.5	-	-	-

African teak      TMG    3.0-4.5    37075.5    44137.5      -      -      -

Note: < = Below and > = Above

**FORMAT I**

**ROUND LOGS ( TEAK )**

Market	Grade	Length Metres	Price per cu.m. in Rupees					
			Mid Girth in centimeters.					
			41-60	61-90	91-120	121-150	Over 150	
1	2	3	4	5	6	7	8	
Jabalpur	IIIA	2.0-3.0	-	32300	41500	53900		
	IIIA	3.0-4.0	-	35000	45400	56800		
	IIIA	4.0-5.0	-	38500	50500	60500		
Jaipur (Ghana)	I	3.00	-	39713	41301		-	-
Nagpur (C.P. India)  (African)	II	2.0-3.0	-	34700	40700	46500		
		3.0-4.0	-	37900	44800	49800		
		4.0-5.0	-	41800	47800	54900		
	IIIA	2.0-3.0	-	28400	36300	38000		
		3.0-4.0	-	29580	36650	47400		
		4.0-5.0	-	30650	39900	50000		

Note: > = Above

**ROUND LOGS ( TEAK )**

Market	Grade	Length Metres	Price per cu.m. in Rupees					
			Mid Girth in centimeters.					
			41-60	61-90	91-120	121-150	Over 150	
1	2	3	4	5	6	7	8	
Raipur (C.P. India)	IIIA	2.0-3.0	-	40700	54500	81600		-
	IIIA	3.0-4.0	-	44600	60000	84200		-

	IIIA	4.0-5.0	-	49000	64350	91500	-
Ranchi	-	-	-	-	-	42852-74991	-
Siliguri	Spl	1.8-3.6	18100	19250	24550	26550	29100
	Spl	3.9-4.6	19900	24500	26750	28700	32200
	Spl	4.6-5.5	23450	24550	28500	32100	35100

Note: > = Above

### FORMAT 1

### ROUND LOGS ( SAL)

Market	Grade	Length Metres	Price per cu.m. in Rupees				
			Mid Girth in centimeters.				
			41-60	61-90	91-120	121-150	Over 150
1	2	3	4	5	6	7	8
Bangalore	I	> 5.0	-	-	-	21000-26250	-
Dehradun	A	2.10	14124	35310	42372	49434	54731
Jabalpur	IIIA	2.0-3.0	-	17800	23400	32000	
	IIIA	3.0-4.0	-	21400	27000	34400	
	IIIA	4.0-5.0	-	24000	31100	37000	
Jaipur	I	2.4-3.0	-	28593	28946	-	-
Raipur	IIIA	2.0-3.0	-	19200	22800	27600	
	IIIA	3.0-4.0	-	21100	25150	30600	
	IIIA	4.0-5.0	-	28600	30500	35100	
Ranchi	-	-	-	-	-	35710-47316	-
Siliguri	Spl	2.1-2.4	10800	12250	14200	15900	19500
	Spl	4.2-4.6	12550	13700	15850	18650	21600
	Spl	4.5-5.4	13850	16100	18600	21100	23200

**FORMAT I**

**ROUND LOGS ( EUCALYPTUS)**

Market	Grade	Length Metres	Price per cu.m. in Rupees				
			Mid Girth in centimeters.				
			41-60	61-90	91-120	121-150	Over 150
1	2	3	4	5	6	7	8
Bangalore	I	3.04	-	-	-	-	2350/MT
Pathankot	-	305					
Ranchi	-	-	-	-	-	13391-16070	-
Dehradun	A	>1.0	3531	7062	8828	10593	10593

**ROUND LOGS ( CASUARINA)**

Market	Grade	Length Metres	Price per cu.m. in Rupees				
			Mid Girth in centimeters.				
			46-60	61-90	91-120	121-150	Over 150
1	2	3	4	5	6	7	8
Chennai		5.4	10500	-	-	-	-
		7	14500	-	-	-	-
		3.5	7800	-	-	-	-

**ROUND LOGS ( CHIRPINE)**

Market	Grade	Length Metres	Price per cu.m. in Rupees				
			Mid Girth in centimeters.				
			41-60	61-90	91-120	121-150	Over 150
1	2	3	4	5	6	7	8
Ahmedabad	I	3.0-3.6	-	-	15356	-	-

Jaipur

I

3

-

-

16062

-

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## FORMAT- I A

## POLES ( TEAK )

Market	Grade	Length (metres)	Price of poles Per 100 pcs. (Rs.)	
			Mid Girth in cms.	
			21-30	31-45
1	2	3	4	5
Jabalpur	IIIA	2.0-3.0	14000	42700
	IIIA	3.0-4.0	23500	53000
	IIIA	4.0-5.0	33000	65500
Nagpur	II	2.0-3.0	13500	31700
		3.0-4.0	25200	45300
		4.0-5.0	35700	66800
Raipur	IIIA	2.0-3.0	15170	29200
	IIIA	3.0-4.0	19500	39200
	IIIA	4.0-5.0	32000	51800
Siliguri*	Spl	1.8-3.6	-	19100-24800
		3.9-4.6	-	
		4.6-5.5	-	

\*--- price per cu.m.for girth 41-60 cm.

## FORMAT-1A

## POLES ( SAL )

Market	Grade	Length (metres)	Price of poles Per cu.m. (Rs.)	
			Mid Girth in cms.	
			21-30	31-45
1	2	3	4	5
Kolkata 1	S.Bengal	<3.66	15000	20000
	S.Bengal	3.67-4.88	17500	25000
	S.Bengal	4.89-6.10	22500	32500
Siliguri*	Spl	2.1-5.4	-	13900-17400

\*--- price per cu.m.for girth 41-60 cm.

#### FORMAT-1A

#### POLES ( CASUARINA )

Market	Grade	Length (metres)	Price of poles Per 100 pcs. (Rs.)	
			Mid Girth in cms.	
			21-30	31-45
1	2	3	4	5
Bangalore	-	3	6500	8000
	-	3.6	7500	10500
	-	4.5	10000	13000
Kolkata	S.Bengal	<3.66	14000	18000
		3.67-4.88	15000	20000
		4.89-6.10	20000	25000

Note: > indicates greater than and < indicates less than.

**FORMAT-1A**

**POLES ( EUCALYPTUS )**

Market	Grade	Length (metres)	Price of poles Per 100 pcs. (Rs.)	
			Mid Girth in cms.	
			21-30	31-45
1	2	3	4	5
Ahmedabad	I	3.6	8250	10500
	I	4.2	10200	12800
	I	4.8	10500	14000
	I	5.4	-	16400
	I	6.0	-	18000
Bangalore	-	3.0	4700	7300
	-	4.5	6200	9200
Dehradun	II	3.0	15000	-
	II	3.6	-	28000
	II	4.5	-	35000
	II	6.0	42500	-

**FORMAT-1A**

**POLES ( EUCALYPTUS )**

Market	Grade	Length (metres)	Price of poles Per 100 pcs. (Rs.)	
			Mid Girth in cms.	
			21-30	31-40
1	2	3	4	5
Jabalpur	-	2.0-3.0	11800	13000
	-	3.0-4.0	13200	14500
	-	4.0-5.0	14300	14700
Jaipur	I	3	7500	8250

	I	3.6	8500	10800
	I	4.2	11000	13000
	I	4.8	11500	14500
	I	5.4	-	17000
	I	6	-	18500
Jammu	A	2.87	-	26000
Kolkata	S.Bengal	<3.66	10000	12000
		3.67-4.88	13000	15000
		4.89-6.10	18000	20000
Nagpur	-	2.0-3.0	9300	10700
	-	3.0-4.0	11700	12700
	-	4.0-5.0	13300	14200
Pathankot	-	2.87	-	31000
Raipur	-	2.0-3.0	8500	12000
	-	3.0-4.0	10700	13900
	-	4.0-5.0	13600	19100
Ranchi	-	3.0	8000	11400
	-	3.7	10200	14900
	-	4.9	14700	18000

**FORMAT-1A**

**POLES ( Deodar )**

Market	Grade	Length (metres)	Price of poles Per 100 pcs. (Rs.)	
			Mid Girth in cms.	
			21-30	31-40
1	2	3	4	5
Jammu	-	3.05	-	18000
Pathankot	-	2.87	-	36000

### SAWN TIMBER ( TEAK )

Market	Grade	Size(cm.)			Price per cu.m. in rupees	Remarks
		L	B	T		
1	2	3	4	5	6	7
Ahmedabad	I	240	15	10.7	44302	Ghana
	II	210	10	8	42007	Ghana
	I	240	15	10	53832	Ivory
	I	210	12.7	8	52068	Ivory
Bangalore	II	180-210	7.5-10.0	6.25- 7.50	117244	Burma
	II	180-210	37.5	7.5	134195	Burma
	III	180-210	7.5-10.0	6.25-	68863	Burma

	III	180-210	7.5-10.0	6.25-7.50	79457	African
Calicut	I	210	>13	4	123600	Nilambur
	I	210	>10	4	123600	Nilambur
	I	300	30	2.5	141000	Nilambur
	II	210	>13	4	106000	Nilambur
	II	210	>10	4	106000	Nilambur
	II	300	30	2.5	135000	Nilambur
Chennai	II	240	10	7.5	60000	African
	II	240	15	7.5	65000	African
	II	240	20	7.5	70000	African
	II	240	25	7.5	100000	African
	-	240	10	7.5	140000	Burma
	-	240	15	7.5	147000	Burma
	-	240	20	7.5	152500	Burma
	-	240	25	7.5	163500	Burma
Dehradun	I	45-90	7.5-12.5	3.75-10	77682	
	I	45-90	13-18	3.75-15	84744	
	I	45-91	18-25	3.75-20	88275	
Delhi		45-90	7.5-12.5	3.75-10	41772	Imported Teak
		45-90	13-18	3.75-15	50317	Imported Teak
		45-91	18-25	3.75-20	53848	Imported Teak
		45-90	7.5-12.5	3.75-10	74151	Nagpur Teak
		45-90	13-18	3.75-15	74151	Nagpur Teak
		45-91	18-25	3.75-20	74151	Nagpur Teak
		90-150	13-18	3.75-10	81213	Nagpur Teak
		90-150	18-25	3.75-20	88275	Nagpur Teak
		150-210	13-18	3.75-10	84744	Nagpur Teak
		150-210	18-25	3.75-10	91806	Nagpur Teak
		210-270	18-25	3.75-10	93572	Nagpur Teak
		210-270	26-30	3.75-20	100634	Nagpur Teak

Note: > = Above and < = Below

**FORMAT II**

**SAWN TIMBER ( TEAK )**

Market	Grade	Size(cm.)			Price	Remarks
		L	B	T	per cu.m. in rupees	
1	2	3	4	5	6	7
Hyderabad						
	I	200	15	7.5	134197	Burma teak
	Medium teak	180	10	7.5	63567	African ghana teak
	(Best & Good Medium teak)	200	12.5	7.5	98882	Thailand teak
	Best teak	200	12.5	7.5	113008	Indian teak
Jabalpur						
	I	45-90	7.5-12.5	3.75-10	43400	C.P.Teak
	-	45-90	15-17.5	3.75-15	50400	-
	-	45-90	20-22.5	3.75-20	58400	-
	-	45-90	25-27.5	3.75-20	64600	-
	-	91-180	7.5-12.5	3.75-10	46800	-
	-	91-180	15-17.5	3.75-15	54100	-
	-	91-180	20-22.5	3.75-20	63900	-
	-	91-180	25-27.5	3.75-20	71300	-
	-	181-270	7.5-12.5	3.75-10	50100	-
	-	181-270	15-17.5	3.75-15	58100	-
	-	181-270	20-22.5	3.75-20	66700	-
	-	181-270	25-27.5	3.75-20	74300	-

Jaipur	I	210	15	12.7	61775	M.P.Teak
	I	210	10	7.6	60010	M.P.Teak
	I	210-240	15	10	55774	Ivory Teak
	I	210	10	7.6	52950	Ivory Teak
	I	240	12.7	10	44831	Ghana Teak
	I	240	10	7.6	41830	Ghana Teak

C.P.- Central Province ( Area around Nagpur)

**FORMAT II**

**SAWN TIMBER ( TEAK )**

Market	Grade	Size(cm.)			Price per cu.m. in rupees	Remarks
		L	B	T		
1	2	3	4	5	6	7
Nagpur	I	45-90	3.75-10	3.75-10	53400	C.P Teak
	I	45-90	3.75-15	3.75-15	57800	C.P Teak
	I	45-90	3.75-20	3.75-20	60500	C.P Teak
	I	91-180	3.75-10	3.75-10	55300	C.P Teak
	I	91-180	3.75-15	3.75-15	59000	C.P Teak
	I	91-180	3.75-20	3.75-20	64300	C.P Teak
	I	181-270	3.75-10	3.75-10	60600	C.P Teak
	I	181-270	3.75-15	3.75-15	65400	C.P Teak
	I	181-270	3.75-20	3.75-20	68100	C.P Teak
Raipur	I	45-90	7.5-12.5	3.75-10	55400	C.P Teak
	I	45-90	15-17.5	3.75-15	61900	C.P Teak
	I	45-90	20-22.5	3.75-20	76500	C.P Teak

	I	45-90	25-27.5	3.75-20	82700	C.P Teak
	I	91-180	7.5-12.5	3.75-10	61300	C.P Teak
	I	91-180	15-17.5	3.75-15	65300	C.P Teak
	I	91-180	20-22.5	3.75-20	83600	C.P Teak
	I	91-180	25-27.5	3.75-20	108100	C.P Teak
	I	181-270	7.5-12.5	3.75-10	65800	C.P Teak
	I	181-270	15-17.5	3.75-15	71500	C.P Teak
	I	181-270	20-22.5	3.75-20	81900	C.P Teak
	I	181-270	25-27.5	3.75-20	98300	C.P Teak
Ranchi	-	-	-	-	41245-89989	-
Siliguri	Spl	90-120	7.6-17.8	3.5-3.8	29800-33050	-
	Spl	90-120	22.9-30.5	2.5-3.8	35300-39100	-
Yamuna Nagar		-	-	-	81213	M.P. Teak
		-	-	-	56673	Ivory Teak

Note : > indicates greater than  
C.P.- Central Province ( Area around Nagpur)

## FORMAT II

### SAWN TIMBER ( SAL )

Market	Grade	Size(cm.)			Price per cu.m. in rupees	Remarks
		L	B	T		
1	2	3	4	5	6	7
Dehradun	I	45-90	7.5-12.5	3.75-10	52965	
	I	45-90	13-18	3.75-15	54731	

	I	45-91	18-25	3.75-20	58262	
Hyderabad	Nil		For all sizes		45000	
Jabalpur	I	45-90	7.5-12.5	3.75-10	27400	-
	-	45-90	15-17.5	3.75-15	31700	-
	-	45-90	25-27.5	3.75-20	33200	-
	-	91-180	7.5-12.5	3.75-10	35700	-
	-	91-180	15-17.5	3.75-15	37700	-
	-	91-180	25-27.5	3.75-20	39500	-
	-	181-270	7.5-12.5	3.75-10	42500	-
	-	181-270	15-17.5	3.75-15	44900	-
	-	181-270	25-27.5	3.75-20	46700	-
						-
						-
						-
						-

**FORMAT II**

**SAWN TIMBER ( SAL )**

Market	Grade	Size(cm.)			Price per cu.m. in rupees	Remarks
		L	B	T		
1	2	3	4	5	6	7
Nagpur	I	45-90	7.5-12.5	3.75-10	-	
	I	45-90	15-17.5	3.75-15	-	
	I	45-90	25-27.5	3.75-20	-	
	I	91-180	7.5-12.5	3.75-10	-	
	I	91-180	15-17.5	3.75-15	-	
	I	91-180	25-27.5	3.75-20	-	
	I	181-270	7.5-12.5	3.75-10	-	
	I	181-270	15-17.5	3.75-15	-	

	I	181-270	25-27.5	3.75-20	-	
Raipur	I	45-90	7.5-12.5	3.75-10	24200	INDIA
	I	45-90	15-17.5	3.75-15	26700	
	I	45-90	25-27.5	3.75-20	30800	
	I	91-180	7.5-12.5	3.75-10	28800	
	I	91-180	15-17.5	3.75-15	30800	
	I	91-180	25-27.5	3.75-20	34800	
	I	181-270	7.5-12.5	3.75-10	33000	
	I	181-270	15-17.5	3.75-15	36700	
	I	181-270	25-27.5	3.75-20	39000	

Note : > indicates greater than  
and < indicates less than

**FORMAT II**

**SAWN TIMBER ( SAL )**

Market	Grade	Size(cm.)			Price per cu.m. in rupees	Remarks
		L	B	T		
1	2	3	4	5	6	7
Ranchi	-	-	-	-	29282- 42852	-
Siliguri	Spl	90-120	7.6-10.2	7.6	25950- 31850	-
	Spl	300-360	20.3-20.3	2.5 - 10.2	34550- 37050	-
	Spl	366-549	22.9-25.4	2.5	39050-	-

				42200	
Yamuna Nagar	-	-	-	34639	Kanpur Sal
	-	-	-	51588	Malasian Sal
	-	-	-	33015	Indonasian Sal

### SAWN TIMBER ( DEODAR )

Market	Grade	Size(cm.)			Price per cu.m. in rupees	Remarks
		L	B	T		
1	2	3	4	5	6	7
Dehradun*	A	360	25	13	6000	-
	A	300	25	13	5250	-
	A	240	25	13	4500	-
	A	180	25	13	3750	-
Delhi*		360	25.4	12.7	1400	
		300	25.4	12.7	1250	
		240	25.4	12.7	1150	
		180	25.4	12.7		
Jammu	A	305	25.4	12.7	75490.2	-
	B	305	25.4	12.7	64166.67	-
	B/C	305	25.4	12.7	55750	-
	C	305	25.4	12.7	22375	-
Pathankot	A	305	25.4	12.7	70772.06	-
	B	305	25.4	12.7	66654.41	-
	C	305	25.4	12.7	35650	-
Yamuna Nagar*		360	25.4	12.7	5750	

300	25.4	12.7	4966
240	25.4	12.7	3833
180	25.4	12.7	2750

\* Rates are for Per Sleeper

**FORMAT II**

**SAWN TIMBER ( EUCALYPTUS )**

Market	Grade	Size(cm.)			Price per cu.m. in rupees	Remarks
		L	B	T		
1	2	3	4	5	6	7
Dehradun	I	45-90	7.5-18	3.75- 15	12360	-
	I	90-150	18-25	3.75- 20	15890	
	I	150-210	13-25	3.75- 10	21190	
Ranchi	-	-	-	-	15177- 18212	-
Yamuna Nagar		-	-	-	16984	

**SAWN TIMBER ( CHIRPINE )**

Market	Grade	Size(cm.)	Price	Remarks
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1	2	per cu.m. in rupees			6	7
		L	B	T		
Ahmedabad	I	300	20	15	16944	-
Dehradun*	A	360	25	13	1900	-
	A	300	25	13	1700	-
	A	240	25	13	1400	-
	A	180	25	13	1150	-
Jaipur	I	240-300	15	10	17474	-
Jammu	B	305	25.4	12.7	-	-
Pathankot	A	305	25.4	12.7	18186.21	-
	B	305	25.4	12.7	15275	-
	C	305	25.4	12.7	-	-
Yamuna Nagar*		360	25.4	12.7	2750	
		300	25.4	12.7	1950	
		240	25.4	12.7	1450	
		180	25.4	12.7	1000	

\* Rates are for Per Sleeper

**FORMAT III****FUELWOOD**

<b>Market</b>	<b>Species</b>	<b>Price per mt. tonnes (in Rs.)</b>
<b>1</b>	<b>2</b>	<b>3</b>
Ahmedabad	Miscellaneous	3600
Bangalore	Miscellaneous	2800-3300
Calicut	Sawn waste	2500-2750
	Rubber	3300-3500
Chennai	Miscellaneous	6000
	Casuarina	6200
Hyderabad	Miscellaneous	1000
Dehradun	Sal	4000
	Eucalyptus	3000
	Miscellaneous	4000
Jabalpur	Sal	3000
	Teak	2000
	Miscellaneous	2750
Jaipur	Miscellaneous	3700
Jammu	Miscellaneous	5750

Pathankot	Miscellaneous	4750
Kolkata	Miscellaneous	1500-1800
Nagpur	Teak	2100
	Sal	2600
	Miscellaneous	2750
Raipur	Teak	1900
	Sal	2650
	Miscellaneous	2750
Ranchi	Miscellaneous	4000-4500
Siliguri	Sal	5200
	Miscellaneous	3850
Yamuna Nagar	Miscellaneous	4500

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**BAMBOOS ( COMMERCIAL )**

<b>Market</b>	<b>Length(cm)</b>	<b>Basal girth(cm)</b>	<b>Price per 100 Bamboos (in Rs)</b>	<b>Remarks</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	
Ahmedabad	300	12-16	4200	Compact Bamboo
	360	12-16	5500	Compact Bamboo
	420	12-16	6200	Compact Bamboo
	480	20-24	7500	Compact Bamboo
	360	12-16	4400	Hollow Type
	360	20-24	6000	Hollow Type
	480	20-24	6750	Hollow Type
	600	24-30	8200	Hollow Type
	720	28-32	9200	Hollow Type
Bangalore	600-750	35-40	14000-17000	
	450-600	20-22	12800-13600	
	300-450	15-20	11000-12500	
	< 300	10-15	4500-9400	
Calicut	600	20	7000	
	540	20	6500	
	300	20	6000	
Chennai	300	20	6200	
	360	30	8500	
	600	40	12000	

Note : > indicates greater than  
and < indicates less than

**FORMAT IV**

**BAMBOOS ( COMMERCIAL )**

<b>Market</b>	<b>Length (cm)</b>	<b>Basal girth (cm)</b>	<b>Price per 100 Bamboos (in Rs)</b>	<b>Remarks</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
Dehradun	540	15-20	5500	
	480	15-20	4500	

	420	20-25	-	
	300	10-15	-	
	240	10	1800	
Hyderabad	480	5.1	2200	Price Per 100 Bamboo
	600	7.6	2800	
Jaipur	300	12-16	4350	Compact type
	360	12-16	5600	Compact type
	420	16-20	6500	Compact type
	450	20-24	8000	Compact type
	600	20-24	9500	Compact type
	300	16-20	4500	Hollow type
	360	20-24	6250	Hollow type
	480	20-24	7200	Hollow type
	600	24-30	8400	Hollow type
	720	28-32	9800	Hollow type

#### FORMAT IV

#### BAMBOOS ( COMMERCIAL )

Market	Length (cm)	Basal girth (cm)	Price per 100 bamboos (in Rs)	Remarks
1	2	3	4	5
Jabalpur	310	9-12	1333	
	310	12-15	1500	
	370	9-12	1566	
	370	12-15	1866	
	460	9-12	2033	
	460	12-15	2266	
	550	9-12	2466	
	550	12-15	2666	
	610	9-12	2833	
	610	12-15	3033	
	650	9-12	3633	
	650	12-15	4033	
	730	9-12	4600	
	730	12-15	5066	
	760	Solid	10833	Katanga Bamboo
	760	Hollow	10166	Katanga Bamboo

	910	Solid	11666	Katanga Bamboo
	910	Hollow	10166	Katanga Bamboo
Kolkata	600	15-20	4548	
	600	21-25	5113	
	750	20-25	5000	
	750	>25	6000	
	900	25-27	5900	
	900	>27	7167	
	1000	25-27	6999	
	1000	>27	7778	

**FORMAT IV**

**BAMBOOS ( COMMERCIAL )**

<b>Market</b>	<b>Length (cm)</b>	<b>Basal girth (cm)</b>	<b>Price per 100 bamboos (in Rs)</b>	<b>Remarks</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
Nagpur	310	9-12	1200	
	310	12-15	1475	
	370	9-12	1650	
	370	12-15	1875	
	460	9-12	2150	
	460	12-15	2500	
	550	9-12	2875	
	550	12-15	3100	
	610	9-12	3600	
	610	12-15	4025	
	650	9-12	4475	
	650	12-15	5050	
	730	9-12	5375	
	730	12-15	5925	

**FORMAT IV**

### BAMBOOS ( COMMERCIAL )

Market	Length (cm)	Basal girth (cm)	Price per 100 bamboos (in Rs)	Remarks
1	2	3	4	5
Raipur	310	9-12	1266	
	310	12-15	1633	
	370	9-12	1800	
	370	12-15	1966	
	460	9-12	2133	
	460	12-15	2266	
	550	9-12	2500	
	550	12-15	2800	
	610	9-12	3100	
	610	12-15	3333	
	650	9-12	3633	
	650	12-15	3900	
	730	9-12	4366	
	730	12-15	5033	
	760	Solid	9333	Katanga Bamboo
	760	Hollow	9166	Katanga Bamboo
910	Solid	10333	Katanga Bamboo	
910	Hollow	9400	Katanga Bamboo	
Ranchi	660	7.5	10500-11000	
	300	5	6500-7000	
Siliguri	975-1000	15-25	4700	Bamboosa Tulda
	1000-1060	25-30	5110	Bamboosa Tulda
	975-1000	10-15	3500	Bamboosa Nutan
	1000-1060	15-25	4710	Bamboosa Nutan

**FORMAT IV**

### BAMBOOS (INDUSTRIAL )

Market	Length (cm)	Price per SU/NT	Remarks
1	2	3	4

Bangalore	-	2100per MT	Supply to pulp and paper industries
Hyderabad	450-600		3800
Kolkata	-		3000 per tone

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# **Government Market Rates**

FORMAT I

ROUND LOGS ( TEAK )

Market	Grade	Length (meter)	Price per cu.m. in Rupees				
			Mid Girth in centimeters.				
			41-60	61-90	91-120	121-150	Over 150
1	2	3	4	5	6	7	8
Calicut	All	2.5-7.3	-	-	-	80100	-
	AIII	2.5-7.3	-	-	66521	-	-
	BI	2.5-7.3	-	-	-	-	-
	BII	2.5-7.3	-	-	-	-	-
	BIII	2.5-7.3	-	-	55009	-	-
	BIV	2.5-7.3	-	40954	-	-	-
	CI	2.5-7.3	-	-	-	-	-
	CII	2.5-7.3	-	-	-	-	-
	CIII	2.5-7.3	-	-	45167	-	-
	CIV	2.5-7.3	-	34323	-	-	-
	LL BIII	>7.3	-	-	-	-	-
	LLCIV	>7.3	-	41198	-	-	-
	SL BII	1.0-2.5	-	-	-	-	-
	SL BIII	1.0-2.5	-	-	-	-	-
	SL BIV	1.0-2.5	-	30099	-	-	-
	SL C II	1.0-2.5	-	-	-	48000	-
	SL C III	1.0-2.5	-	-	-	-	-
	SL C IV	1.0-2.5	-	24490	-	-	-

Ranchi	-	0.0 - 1.0	-	15392	22893	26547	28980
		1.01-2.44	-	17666	28967	34279	37667
		2.45 - 3.65	-	20522	33795	34713	45871
		3.66-4.88	-	23105	40680	46706	56241
		4.89 - 6.10	-	27201	45315	55237	63271
		> 6.11	-	30238	52720	62267	67288
		Siliguri	Special	1.8-3.6	18000	19200	24500
		3.9-4.6	19800	24400	26700	28600	32000
		4.6-5.5	23400	24500	28500	32000	34900

### FORMAT I

### ROUND LOGS ( SAL)

Market	Grade	Length (meter)	Price per cu.m. in Rupees					Over 150	
			Mid Girth in centimeters.						
			46-60	61-90	91-120	121-150			
1	2	3	4	5	6	7	8		
Kolkata	-	-	-	-	-	16657	-		
	-	-	-	-	-	33315	-		
Ranchi	-	0.0 - 2.44	-	6861	9148	10731	14311		
		2.45 - 3.65	-	7797	13560	14969	16921		
		3.66-4.88	-	8421	15593	16921	18526		
		4.89 - 6.10	-	9737	19034	20340	22373		
		> 6.11	-	12335	20479	22373	22592		
		Siliguri	Special	2.1-2.4	10700	12100	14000	15800	18900
				4.2-4.6	12500	13600	15800	18600	21500
		4.5-5.4	13800	16000	18500	21000	23100		

## ROUND LOGS ( EUCALYPTUS)

Market	Grade	Length (meter)	Price per cu.m. in rupees				
			Mid Girth in centimeters.				
			46-60	61-90	91-120	121-150	Over 150
1	2	3	4	5	6	7	8
Ranchi	-	< 2.44	-	2496	3073	3276	3457
		> 2.45	-	2880	3457	3648	4224

Note : > indicates greater than

FORMAT 1-A

## POLES ( TEAK)

Market	Grade	Length (meter)	Price of Poles per 100 pcs (Rs.)	
			Mid Girth in centimeters.	
			21-30	31-45
1	2	3	4	5
Ranchi	-	0.00-2.44	-	14700
	-	2.45-3.66	-	16900
	-	3.67-4.26	-	21750
	-	4.27-4.84	-	24800
	-	4.85-5.44	-	37700
	-	5.45-6.04	-	71500
	-	6.05-6.64	-	87300
	-	6.65-7.24	-	100100
	-	7.25-7.84	-	135100
	-	7.85-8.44	-	156000
	-	8.45-9.04	-	173000
	-	9.05-9.64	-	190100
Siliguri	Special	1.8-5.5	-	19000-24700

**FORMAT 1-A**

**POLES ( SAL )**

Market	Grade	Length ( meter )	Price of Poles per 100 pcs (Rs.)	
			Mid Girth in centimeters.	
			21-30	31-45
1	2	3	4	5
Ranchi	-	0.00-2.44	-	6100
	-	2.45-3.66	-	7500
	-	3.67-4.26	-	9250
	-	4.27-4.84	-	10150
	-	4.85-5.44	-	16000
	-	5.45-6.04	-	29900
	-	6.05-6.64	-	36400
	-	6.65-7.24	-	42400
	-	7.25-7.84	-	56700
	-	7.85-8.44	-	65400
	-	8.45-9.04	-	72600
	-	9.05-9.64	-	79800
Siliguri	Special	2.1-5.4	-	13800-17300
Kolkata*	-	4.88	-	13000

**POLES ( EUCALYPTUS )**

Market	Grade	Length ( meter )	Price of Poles per 100 pcs (Rs.)	
			Mid Girth in centimeters.	
			21-30	31-45
1	2	3	4	5
Kolkata*	-	4.88	-	16000

\* indicates rates for the mid girth 46-50 cm.

**FORMAT II**

**SAWN TIMBER ( TEAK )**

Market	Grade	Size(cm.)			Price per cu.m. in rupees	Remarks
		L	B	T		
1	2	3	4	5	6	7
Kolkata	-	<91.5	10.0-12.7	7.5-10.0	47676	Bengal- II
	-	95.0-122	12.7-15.2	12.5-15.0	51208	Bengal- II
	-	122.0-183.0	15.3-22.9	15.0-20.0	54739	Bengal- II
	-	183.0-366.0	23.0-30.5	20.0-30.0	60037	Bengal- II
	-	>366.0	-	>30.0	68866	Bengal- II
	-	<91.5	10.0-12.7	7.5-10.0	54739	CP
	-	95.0-122.0	12.7-15.2	12.5-15.0	60037	CP
	-	122.0-183.0	15.3-22.9	15.0-20.0	63568	CP
	-	183.0-366.0	23.0-30.5	20.0-30.0	70632	CP
Ranchi	-	0-150	0-13	0-13	35405	
	-	0-150	13.1-35.0	13.1-35.0	50203	
	-	151-185	0-13	0-13	37353	
	-	151-185	13.1-35.0	13.1-35.0	52139	
	-	186-245	0-13	0-13	44746	
	-	186-245	13.1-35.0	13.1-35.0	55648	
	-	246-305	0-13	0-13	48255	
	-	246-305	13.1-35.0	13.1-35.0	61867	
	-	306-365	0-13	0-13	49041	
	-	306-365	13.1-35.0	13.1-35.0	70434	
	-	366-425	0-13	0-13	59931	
	-	366-425	13.1-35.0	13.1-35.0	77053	
	-	426-485	0-13	0-13	63428	

-	426-485	13.1-35.0	13.1-35.0	80550
-	486-545	0-13	0-13	66538
-	486-545	13.1-35.0	13.1-35.0	86382
-	546-605	0-13	0-13	70047
-	546-605	13.1-35.0	13.1-35.0	87943
	> 606	13.1-35.0	13.1-35.0	95251

Note : > indicates greater than

## FORMAT II

### SAWN TIMBER ( SAL )

Market	Grade	Size(cm.)			Price per cu.m. in rupees	Remarks
		L	B	T		
1	2	3	4	5	6	7
Kolkata	-	<91.5	10.0-12.7	7.5-10.0	28252	N. Bengal
	-	95.0-122	12.7-15.2	12.5-15.0	30018	N. Bengal
	-	122.0-183.0	15.3-22.9	15.0-20.0	31784	N. Bengal
	-	183.0-366.0	23.0-30.5	20.0-30.0	33550	N. Bengal
	-	>366.0	-	>30.0	37081	N. Bengal
	-	<91.5	10.0-12.7	7.5-10.0	24721	Malayasia
	-	95.0-122	12.7-15.2	12.5-15.0	26487	Malayasia
	-	122.0-183.0	15.3-22.9	15.0-20.0	28252	Malayasia
	-	183.0-366.0	23.0-30.5	20.0-30.0	31784	Malayasia
			>366.0	-	>30.0	35316
Ranchi	-	0-150	0-13	0-13	13721	
	-	0-150	13.1-35.0	13.1-35.0	19150	
	-	151-185	0-13	0-13	14288	
	-	151-185	13.1-35.0	13.1-35.0	20005	
	-	186-245	0-13	0-13	15143	
	-	186-245	13.1-35.0	13.1-35.0	21437	
	-	246-305	0-13	0-13	20189	
	-	246-305	13.1-35.0	13.1-35.0	25780	
	-	306-365	0-13	0-13	20328	
	-	306-365	13.1-35.0	13.1-35.0	29198	
	-	366-425	0-13	0-13	27928	
	-	366-425	13.1-35.0	13.1-35.0	35401	

-	426-485	0-13	0-13	28910
-	426-485	13.1-35.0	13.1-35.0	36995
-	486-545	0-13	0-13	30319
-	486-545	13.1-35.0	13.1-35.0	38323
-	546-605	0-13	0-13	31832
-	546-605	13.1-35.0	13.1-35.0	40275
	> 606	13.1-35.0	13.1-35.0	43520

Note : > indicates greater than

FORMAT II

**SAWN TIMBER ( EUCALYPTUS)**

Market	Grade	Size(cm.)			Price per cu.m. in rupees	Remarks
		L	B	T		
1	2	3	4	5	6	7
Ranchi	-	0-150	0-13	0-13	4608	
	-	0-150	13.1-35.0	13.1-35.0	5377	
	-	> 151	0-13	0-13	5377	
	-	>151	13.1-35.0	13.1-35.0	6528	

**SAWN TIMBER ( CHIRPINE)**

Market	Grade	Size(cm.)			Price per cu.m. in rupees	Remarks
		L	B	T		
1	2	3	4	5	6	7
Jammu	B	305	25.4	12.7	16689.4	
	C	305	25.4	12.7	12104.75	
Nurpur	A	305	25.4	12.7	-	
	B	305	25.4	12.7	10984	
	C	305	25.4	12.7	-	

Pathankot	A	305	25.4	12.7	15780
	B	305	25.4	12.7	14325
	C	305	25.4	12.7	10250

Note : > indicates greater than

**FORMAT II**

**SAWN TIMBER ( DEODAR)**

Market	Grade	Size(cm.)			Price per cu.m. in rupees	Remarks
		L	B	T		
1	2	3	4	5	6	7
Jammu	A	305	25.4	12.7	77829	
	B	305	25.4	12.7	71847.65	
	C	305	25.4	12.7	54008.15	
Nurpur	A	305	25.4	12.7		
	B	305	25.4	12.7	36358	
	C	305	25.4	12.7		
Pathankot	A	304.8	25.4	12.7	62190	
	B	304.8	25.4	12.7	38180	
	B	304.8	25.4	12.7	37850	
	C	304.8	25.4	12.7	34735	

**FORMAT III**

**FUELWOOD**

<b>Market</b>	<b>Species</b>	<b>Price per mt. tonnes ( in Rs.)</b>
<b>1</b>	<b>2</b>	<b>3</b>
Kolkata	Miscellaneous	1500 to1800
Ranchi	Miscellaneous	236

**FORMAT IV  
BAMBOOS ( COMMERCIAL )**

<b>Market</b>	<b>Length (cm)</b>	<b>Basal girth (cm)</b>	<b>Price per 100 Bamboos (in Rs)</b>	<b>Remarks</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
Kolkata	6	15-20	6500	Bamboos from M.P.
	6	21-25	7000	
	7.5	20-25	7000	
	7.5	>25	7500	
	9	25-27	7500	
	9	>27	8000	
	10	25-27	8000	
	10	>27	8500	

Ranchi	-	-	600	Sarhi
	-	-	1000	Barhi
	-	-	1400	Terra
	-	-	1600	Chhaubansa
	-	-	1700	Panchbansa
	-	-	1900	Charbansa

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Note : > indicates greater than

# **Conversion Table**

**Conversion Table - 1**  
**Weight and Volume for Forest Products**

Product	Kilogram Per Cubic Metre		
	General	Coniferous	Non-Coniferous
1	2	3	4
Fuelwood	725	625	750
Charcoal	167	-	-
Pitprops	725	700	800
Pulpwood	675	650	750
Other Round Wood	750	700	800
Sawn Wood	-	550	700
Sleepers	780	-	-
Veneers Sheet	750	-	-
Plywood	650	-	-
Particle board	650	-	-
Fibreboard Compressed	950	-	-
Fibreboard non-compressed	250	-	-

**Source: Director Systems, MIS & E Division, Bhopal, MP.**

**Conversion Table - 2**  
**Forest Products Measures of Round Wood**  
**Volume without Bark**

S. No.	Product Unit	Solid Volume without Bark					
		Cube Metre			Cubic Feet		
		General	Coniferous	Broad Leave	General	Coniferous	Broad Leave
1	2	3	4	5	6	7	8
1	<b>General Round Wood:</b>						
	100 hoppus feet	36.05	-	-	1273	-	-
	Ton of 50 cubic feet (Hoppus)	1805	-	-	63.7	-	-
2	Sawlogs, Veneer logs and logs for sleepers	-	1.43	1.37	-	50.5	48.4
3	<b>Pulpwood:</b>						
	1 Metric ton	1.48	1.54	1.33	52.2	54.4	47
	1 Steer	0.72	-	-	25.4	-	-
	1 Cord	2.55	-	-	90	-	-
4	<b>Pitprops:</b>						
	1 Metric ton	1.38	1.43	1.25	48.7	50.5	44.1
	Piled cubic fathom	4.28	-	-	151.1	-	-
	1 Cord	2.416	-	-	85.3	-	-
5	<b>Other industrial wood:</b>						
	1 metric ton	1.33	1.43	1.25	47	50.5	44.1
	Mangrove Pole 1 piece	-	-	-	-	-	0.14
6	<b>Fuelwood:</b>						
	1 Metric ton	1.38	1.6	1.33	48.7	56.5	47
	1 Store	0.65	0.7	0.65	23	24.7	23
	1 Cord	2.12	-	-	74.9	-	-
	1000 Stacked Cu.ft.	18.41	-	-	650	-	-

Source: Director Systems, MIS & E Division, Bhopal, MP.

**Conversion Table - 3**  
**Wood Based Products Measures of**  
**Roundwood Equivalents**

Product	Round Wood Equivalent		
	Unit	Cubic Metres	Cubic feet
1	2	3	4
Charcoal	1 metric ton	6	212
Coniferous Sawnwood	1 cubic metre	1.67	59
Broadleaved Sawnwood	1 cubic metre	1.82	64
Sleepers	1 cubic metre	1.82	64
Plywood & Blockboard	1 cubic metre	2.3	81
Veneer Sheets	1 cubic metre	1.9	67
Particle Board	1 metric ton	2	71
Fibreboard	1 metric ton	2	71
Woodpulp:			
Mechanical	1 metric ton	2.5	88
Chemical	1 metric ton	4.9	173
Sulphite	1 metric ton	4.9	173
Sulphate	1 metric ton	4.8	169
Dissolving	1 metric ton	5.5	194
Semi Chemical	1 metric ton	3.3	117
Newsprint	1 metric ton	2.8	99
Printing & Writing Paper	1 metric ton	3.5	124
Other Paper	1 metric ton	3.25	115
Paper Board	1 metric ton	1.6	56

Source: Director Systems, MIS & E Division, Bhopal, MP.

**Conversion Table - 4  
Standard Units**

1 Centimetre = 0.3937 inch	1 inch = 2.540 Cm.
1 Metre = 3.281 feet	1 foot = 0.3048 Metre
1 Metre = 1.094 Yard	1 Yard = 0.9144 Metre
1 Kilometre = 0.621 Miles	1 Mile = 1.609 Km.
1 Yard = 3 Feet	1 Mile = 1760 Yard
1 Sq. Cm. = 0.155 Sq. inch	1 Sq. inch = 6.452 Sq. cm.
1 Sq. m. = 10.76 Sq. ft	1 Sq. ft. = 0.0929 sq.m.
1 Sq. m. = 1.19599 Sq. yard	1 Sq. Yard = 0.8361 Sq.m.
1 Sq. m. = 0.3861 Sq.mile	1 Sq. mile = 2.59 Sq. Km.
1 Hectare = 0.003861 Sq. mile	1 Sq. mile = 259 Hectares
1 Hectare = 2.471 Acres	1 Acre = 0.4047 Ha.
1 Sq. Kilometre = 100 hectares	1 Sq. mile = 640 Acres
1 Cubic Cm. = 0.061 Cu. inch	1 Cu inch = 16.39 Cu. cm.
1 Cubic m. = 35.31 Cu. ft.	1 Cu. ft. = 0.02832 Cu.m.
1 Litre = 61 Cu inch	1 Cu. inch = 0.01639 Litre.
1 Litre = 0.2642 Gal (US)	1 Gal. (US) = 3.785 Litres.
1 Litre = 0.2200 Gal(IMP)	1 Gal. (IMP) = 4.546 Litres.
1 Litre = 1000 Cu. cm.	1 Gal. = 4 Quarts.
1 Metre Cube = 0.8 Tonnes	1 Tonne Charcoal = 4.4 Tonnes of Wood
1 Kilogramme = 2.205 Pounds	1 Pound = 0.4536 K.
1 Metric ton = 1.102 Short ton	1 Long ton = 0.9072 Metric ton.
1 Metric ton = 0.9842 Long ton	1 Long tonne = 1.016 Metric ton.
1 Metric ton = 19.684 Cwt. (of 112Lbs)	1 Cwt. (of 112 Lbs) = 0.0508 Metric ton.
	1 Cwt. (of 100 Lbs) = 0.04536 ton.
1 Metric tone = 22.046 Cwt (of 100 Lbs.)	
1 Quintal = .1 Metric ton.	
1 Kg. per cu.m. = 0.06243 Lb per cu. ft.	1 Lb. per cu. ft. = 16.02 Kg. per cu.m.
1 Sq. m./ha. = 4.356 Sq. ft. per acre	1 Sq. ft./acre = 0.2296 Sq. m./ha.
1 Cu.m./ha. = 14.29 Cu.ft. per acre	1 cu. ft./acre = 0.07 Cu.m./ha.
	1 Metric tone = 1 tonne

**Conversion Table - 5**

### Acres to Hectares.

Acres	0.0	1.0	2.0	3.0	4.0	5.0
0	0.0000	0.4047	0.8094	1.2141	1.6187	2.0234
10	4.0469	4.4515	4.8562	5.2609	5.6656	6.0703
20	8.0937	8.4984	8.9031	9.3078	9.7125	10.1172
30	12.1406	12.5453	12.9500	13.3546	13.7593	14.1640
40	16.1874	16.5921	16.9968	17.4015	17.8062	18.2109
50	20.2343	20.6390	21.0437	21.4484	21.8530	22.2577
60	24.2812	24.6858	25.0905	25.4952	25.8999	26.3046
70	28.3280	28.7327	29.1374	29.5421	29.9468	30.3515
80	32.3749	32.7796	33.1843	33.5889	33.9936	34.3983
90	36.4217	36.8264	37.2311	37.6358	38.0405	38.4452
Acres	6.0	7.0	8.0	9.0		
0	2.4281	2.8328	3.2375	3.6422		
10	6.4750	6.8797	7.2843	7.6890		
20	10.5218	10.9265	11.3312	11.7359		
30	14.5687	14.9734	15.3781	15.7828		
50	22.6624	23.0671	23.4718	23.8765		
60	26.7093	27.1140	27.5186	27.9233		
70	30.7561	31.1608	31.5655	31.9702		
80	34.8030	35.2077	35.6124	36.0171		
90	38.8499	39.2545	39.6592	40.0639		

**Note:** Conversion Factor : 1 acre = 0.404686 hectare.

Based on 1 inch = 25.4 millimetres.

**Source:** Growth & Yield Statistics of Common Indian Timber Species.

Himalayan Region Vol. I, FRI & C, D. Dun.

**Conversion Table - 6**  
**Cubic Feet to Cubic Metres.**

<b>Cubic Feet</b>	<b>0.0</b>	<b>10.0</b>	<b>20.0</b>	<b>30.0</b>	<b>40.0</b>
<b>0</b>	<b>0.0000</b>	<b>0.2832</b>	<b>0.5663</b>	<b>0.8495</b>	<b>1.1327</b>
<b>100</b>	<b>2.8317</b>	<b>3.1148</b>	<b>3.3980</b>	<b>3.6812</b>	<b>3.9644</b>
<b>200</b>	<b>5.6634</b>	<b>5.9465</b>	<b>6.2297</b>	<b>6.5129</b>	<b>6.7960</b>
<b>300</b>	<b>8.4950</b>	<b>8.7782</b>	<b>9.0614</b>	<b>9.3445</b>	<b>9.6277</b>
<b>400</b>	<b>11.3267</b>	<b>11.6099</b>	<b>11.8931</b>	<b>12.1762</b>	<b>12.4594</b>
<b>500</b>	<b>14.1584</b>	<b>14.4416</b>	<b>14.7247</b>	<b>15.0079</b>	<b>15.2911</b>
<b>600</b>	<b>16.9901</b>	<b>17.2732</b>	<b>17.5564</b>	<b>17.8396</b>	<b>18.1228</b>
<b>700</b>	<b>19.8218</b>	<b>20.1049</b>	<b>20.3881</b>	<b>20.6713</b>	<b>20.9544</b>
<b>800</b>	<b>22.6534</b>	<b>22.9366</b>	<b>23.2198</b>	<b>23.5029</b>	<b>23.7861</b>
<b>900</b>	<b>25.4851</b>	<b>25.7683</b>	<b>26.0515</b>	<b>26.3346</b>	<b>26.6178</b>
<b>1000</b>	<b>28.3168</b>				

<b>Cubic Feet</b>	<b>50.0</b>	<b>60.0</b>	<b>70.0</b>	<b>80.0</b>	<b>90.0</b>
<b>0</b>	<b>1.4158</b>	<b>1.6990</b>	<b>1.9822</b>	<b>2.2653</b>	<b>2.5485</b>
<b>200</b>	<b>7.0792</b>	<b>7.3624</b>	<b>7.6455</b>	<b>7.9287</b>	<b>8.2119</b>
<b>300</b>	<b>9.9109</b>	<b>10.1940</b>	<b>10.4772</b>	<b>10.7604</b>	<b>11.0436</b>
<b>400</b>	<b>12.7426</b>	<b>13.0257</b>	<b>13.3089</b>	<b>13.5921</b>	<b>13.8752</b>
<b>500</b>	<b>15.5742</b>	<b>15.8574</b>	<b>16.1406</b>	<b>16.4237</b>	<b>16.7069</b>
<b>600</b>	<b>18.4059</b>	<b>18.6891</b>	<b>18.9723</b>	<b>19.2554</b>	<b>19.5386</b>
<b>700</b>	<b>21.2376</b>	<b>21.5208</b>	<b>21.8039</b>	<b>22.0871</b>	<b>22.3703</b>
<b>800</b>	<b>24.0693</b>	<b>24.3524</b>	<b>24.6356</b>	<b>24.9188</b>	<b>25.2020</b>
<b>900</b>	<b>26.9010</b>	<b>27.1841</b>	<b>27.4673</b>	<b>27.7505</b>	<b>28.0336</b>

**Source:** Growth & Yield Statistics of Common Indian Timber Species  
Himalayan Region Vol. I, FRI & C, D. Dun.

**Note:** Conversion Factor : 1 cubic foot = 0.0283168 cubic metre.  
Based on 1 inch = 25.4 millimetres.

**Conversion Table - 7**  
**Cubic Meters to Cubic Feet.**

<b>Cubic Metres</b>	<b>0.0</b>	<b>1.0</b>	<b>2.0</b>	<b>3.0</b>	<b>4.0</b>
<b>0</b>	<b>0.00</b>	<b>35.31</b>	<b>70.63</b>	<b>105.94</b>	<b>141.26</b>
<b>10</b>	<b>353.15</b>	<b>388.46</b>	<b>423.78</b>	<b>459.09</b>	<b>494.41</b>
<b>20</b>	<b>706.29</b>	<b>741.61</b>	<b>776.92</b>	<b>812.24</b>	<b>847.55</b>
<b>30</b>	<b>1059.44</b>	<b>1094.76</b>	<b>1130.07</b>	<b>1165.39</b>	<b>1200.70</b>
<b>40</b>	<b>1412.59</b>	<b>1447.90</b>	<b>1483.22</b>	<b>1518.53</b>	<b>1553.85</b>
<b>50</b>	<b>1765.74</b>	<b>1801.05</b>	<b>1836.36</b>	<b>1871.68</b>	<b>1906.99</b>
<b>60</b>	<b>2118.88</b>	<b>2154.20</b>	<b>2189.51</b>	<b>2224.83</b>	<b>2260.14</b>
<b>70</b>	<b>2472.03</b>	<b>2507.34</b>	<b>2542.66</b>	<b>2577.97</b>	<b>2613.29</b>
<b>80</b>	<b>2825.18</b>	<b>2860.49</b>	<b>2895.81</b>	<b>2931.12</b>	<b>2966.43</b>
<b>90</b>	<b>3178.32</b>	<b>3213.64</b>	<b>3248.95</b>	<b>3284.27</b>	<b>3319.58</b>
<b>100</b>	<b>3531.47</b>				

<b>Cubic Metres</b>	<b>5.0</b>	<b>6.0</b>	<b>7.0</b>	<b>8.0</b>	<b>9.0</b>
<b>0</b>	<b>176.57</b>	<b>211.89</b>	<b>247.20</b>	<b>282.52</b>	<b>317.83</b>
<b>20</b>	<b>882.87</b>	<b>918.18</b>	<b>953.50</b>	<b>988.81</b>	<b>1024.13</b>
<b>30</b>	<b>1236.01</b>	<b>1271.33</b>	<b>1306.64</b>	<b>1341.96</b>	<b>1377.27</b>
<b>40</b>	<b>1589.16</b>	<b>1624.48</b>	<b>1659.79</b>	<b>1695.11</b>	<b>1730.42</b>
<b>50</b>	<b>1942.31</b>	<b>1977.62</b>	<b>2012.94</b>	<b>2048.25</b>	<b>2083.57</b>
<b>60</b>	<b>2295.46</b>	<b>2330.77</b>	<b>2366.08</b>	<b>2401.40</b>	<b>2436.71</b>
<b>70</b>	<b>2648.60</b>	<b>2683.92</b>	<b>2719.23</b>	<b>2754.55</b>	<b>2789.86</b>
<b>80</b>	<b>3001.75</b>	<b>3037.06</b>	<b>3072.38</b>	<b>3107.69</b>	<b>3143.01</b>
<b>90</b>	<b>3354.90</b>	<b>3390.21</b>	<b>3425.53</b>	<b>3460.84</b>	<b>3496.16</b>
<b>100</b>					

**Source:** Growth & Yield Statistics of Common Indian Timber Species  
Himalayan Region Vol. I, FRI & C, D. Dun

**Note:** Conversion Factor : 1 cubic metre = 35.3147 cubic feet.  
Based on 1 inch = 25.4 millimetres.