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Government of Kerala

BROCHURE ON HOUSING STATISTICS

Department of Economics & Statistics, Kerala
Thiruvananthapuram
2007

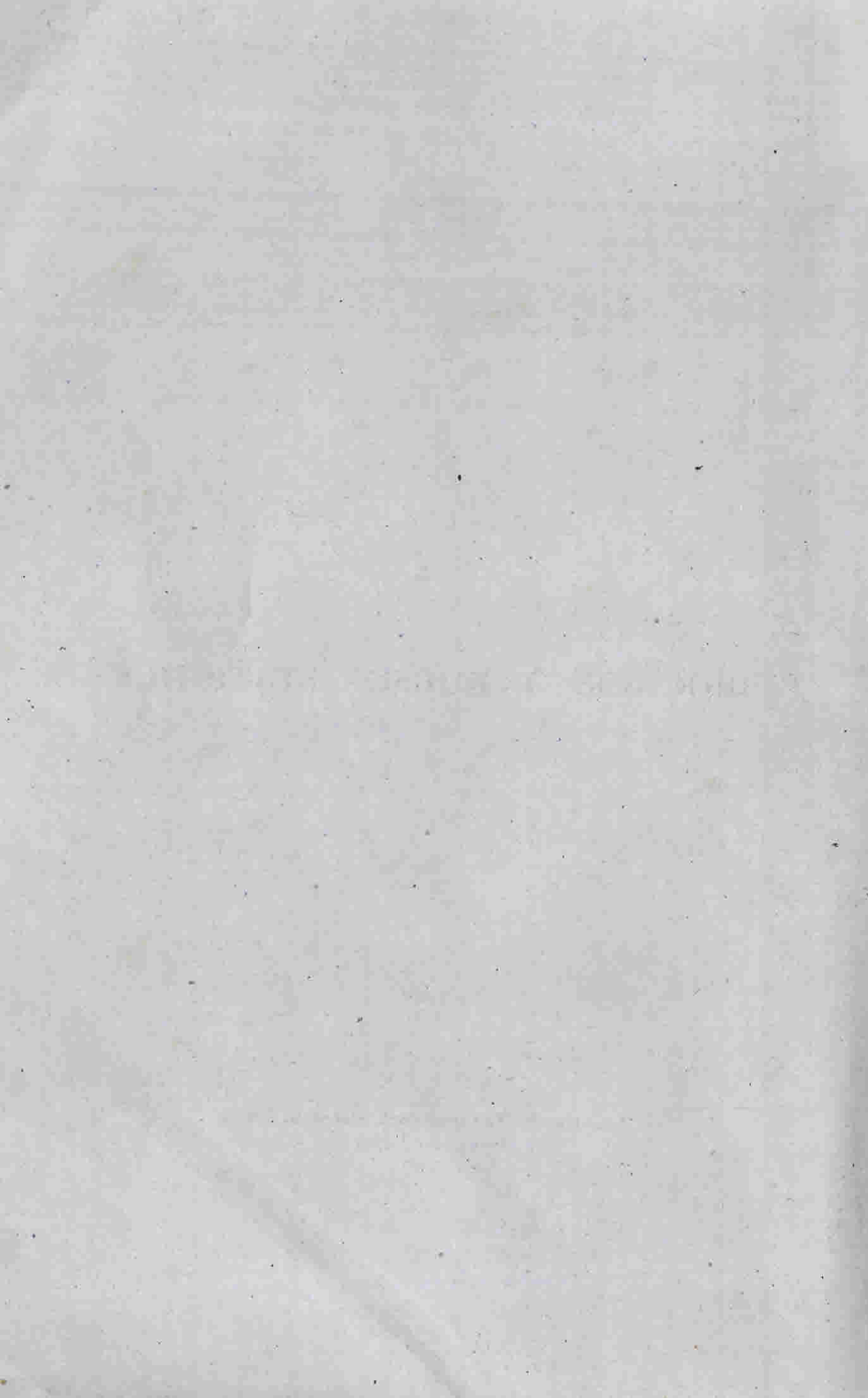




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PREFACE

Housing is reflection of nations economic and social well-being. It is one of the crucial development indicators of any economy. Data on housing activities collected in a systematic manner is of immense importance for planners and other data users. "Brochure on Housing Statistics" is the third in this series. The data included in this brochure are those derived out of census reports, annual reports received from public works department (Buildings and local works), Urban Affairs and other Government publications.

It is prepared by N.Vinayan Assistant Director with the guidance and supervision from Sri.Gorkey Jose, Joint Director and Sri.S.Rajendran, Additional Director. Smt.Kumari Geetha.B. Research Officer, Smt.S.Beena, Research Assistant, Sri.H.Sonilal and Smt.T.S. Anitha, U.D.Compilers have actively participated in the preparation of the report. Deputy Director Computer Division has given timely support in bringing out this publication in a limited time. Sri.S.Saseendran, U.D.Typist, has done the DTP work of the same.

I hope this brochure will be very useful to data users. Suggestions for improvement are invited

Thiruvananthapuram
15/06/2006

M. R. Balakrishnan
Director



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KERALA AT A GLANCE

1	Total Area (sq.km)	38863
2	Total Population (2001 Census)	31841374
	a. Total Rural Population (2001 Census)	23574449
	b. Total Urban Population (2001 Census)	8266925
3	Total House holds (2001 Census)	6726356
	a. Rural House holds (2001 Census)	5010259
	b. Urban House holds (2001 Census)	1716097
4	Total Census Houses (2001 Census)	9356874
	a. Rural Census Houses (2001 Census)	6894776
	b. Urban Census Houses (2001 Census)	2462098
5	Total Occupied Census Houses (2001 Census)	8625051
	a. Occupied Rural Census Houses (2001 Census)	6386215
	b. Occupied Urban Census Houses (2001 Census)	2238836
6	Total Vacant Census Houses (2001 Census)	731823
	a. Vacant Rural Census Houses (2001 Census)	508561
	b. Vacant Urban Census Houses (2001 Census)	223262
7	Density of population	819(sq.km)
8	Density of census houses	241(sq.km)
9	Density of occupied census houses	222(sq.km)
10	Percentage of house hold having bathroom facility with in the house	62.1
11	Percentage of house hold having separate kitchen with in the house	92.8

CHAPTER I

INTRODUCTION

Housing Sector plays very important role in the welfare of the society and economy of the country. Realising the need of realistic housing data National Building Organisation, Government of India have initiated steps to collect details of building construction activities from 1963 onwards from urban areas of the country. For this 3 housing statistical cells each at Public Works Department (Buildings & Local works), Urban Affairs Directorate and Directorate of Economics and Statistics (Co-ordinating unit) with a skeleton of staff was established. The system is continuing as such. The details of building construction projects costing Rs.50,000/- or more in Public sector and public sector undertaking has to be collected by the cell in PWD and reports have to be forwarded to the Directorate of Economics & Statistics. The cell in Urban Affairs Directorate collects the details of buildings sanctioned and completed in cities/towns having a population of 10000 or more and forward the report to Directorate of Economics & Statistics. The cell in Directorate of Economics and Statistics works as a coordinating unit and consolidated reports are forwarded to NBO. But the details of building construction in rural areas of the state have not been collected. As per the recommendations of the National Statistical Commission and direction from Government of Kerala, Department has started collecting details of building completed in all the Panchayaths from 2001-02 onwards. This brochure has been prepared as on the same line of previous one published in 1987. Steps have been taken to incorporate wider range of housing statistics with its limitations.

Structure of the brochure

This brochure is classified in to 3 Chapters. Chapter 1 contains mainly census data and its review. The second chapter incorporates the information collected with brief review note. This includes the details of building construction activities in Panchayath area. Public sector, Private sector (Municipality), Prices of building materials and wages, building cost index and details of Flats. The 3rd chapter gives an overview of housing conditions at National Level.

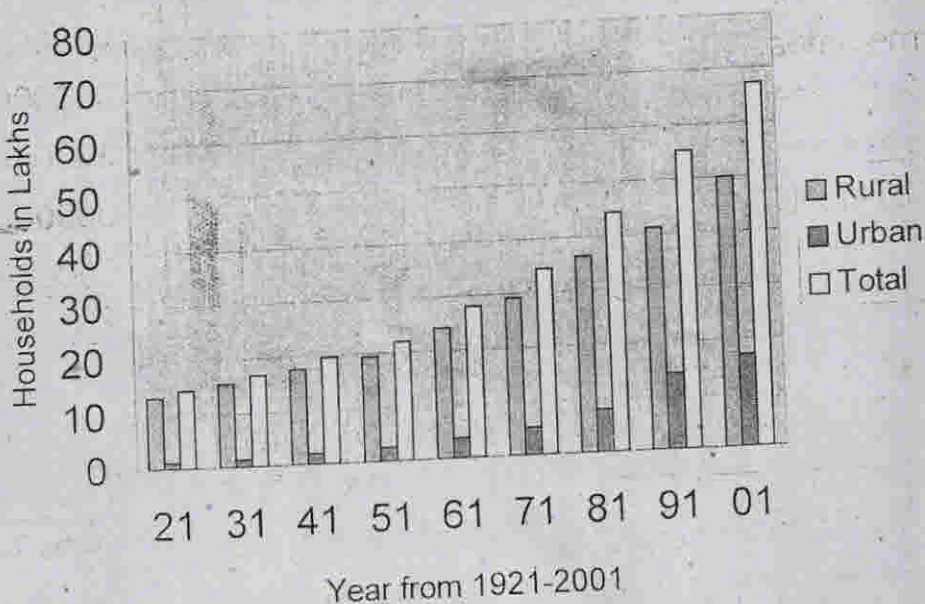
BRIEF REVIEW

State accomplishment in human and social sector development is well reflected in the general housing situation and therefore average housing in Kerala is far ahead of the rest of India.

Growth of households

Decadal Growth of population and households in Kerala are shown in table 1.1 and 1.2. When we consider the growth of households in Kerala after its formation, except for the period 1961-71, the growth of household is at a faster rate than that of population in the corresponding period. The growth rate of house hold in 1991-2001 is 22.0, while growth of population is 9.42.

Growth of households from 1921-2001(in lakhs)



Census Houses – 2001

The details of total census houses, vacant census houses and occupied census houses of Kerala and India at the time of enumeration as per 2001 census is given below:

Total Census Houses		Kerala	India
	Total	9356874	249095869
	Rural	6894776	177537513
	Urban	2462098	71558356
Vacant Census Houses			
	Total	731823	15811192
	Rural	508561	9359172
	Urban	223262	6452020
Occupied Residential Houses			
	Total	8625051	233284677
	Rural	6386215	168178341
	Urban	2238836	65106336

Uses of Occupied Census Houses – 2001

Uses of occupied census as per census 2001 details, of Kerala and India is furnished below:

Uses	Kerala (Nos)			India (Million)		
	Total	Rural	Urban	Total	Rural	Urban
1 Residence	6490580	4870794	1619786	179.28	129.05	50.22
2 Residence-cum-other use	49620	33840	15780	7.89	6.05	1.84
3 Shop, Office	897251	579073	318178	13.39	5.57	7.82
4 School, College, etc.	70435	51838	18597	1.50	1.23	0.27
5 Hotel, Lodge, Guest House, etc	42029	21712	20317	0.52	0.27	0.25
6 Hospital, Dispensary, etc.	29565	19321	10244	0.60	0.34	0.26
7 Factory, Workshop, Workshed, etc	151692	91922	59770	2.21	0.99	1.22
8 Place of worhsip	101140	81402	19738	2.40	1.98	0.42
9 Other-non-residential use	792739	636313	156426	25.49	22.71	2.79

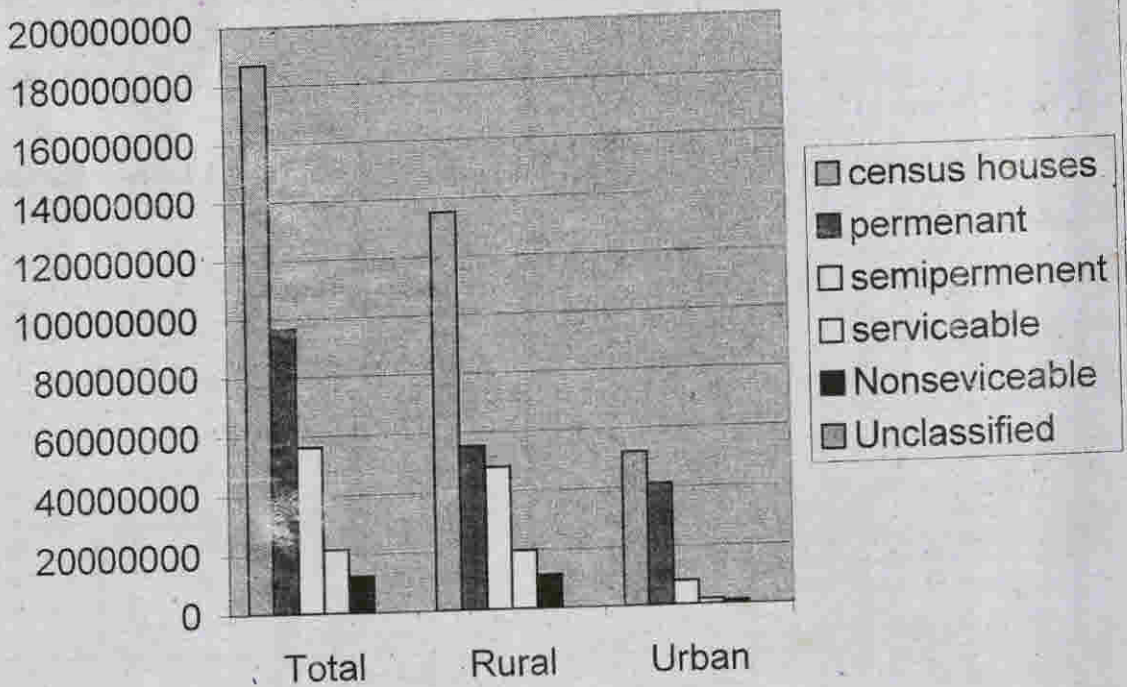
The census house in Kerala constitute 3.75% of total census houses in India. The maximum use of Census house in Kerala is for residence purpose which is about 75.3 percent (see table 1.4) number of Census houses increased by about 59% from 1981 to 2001. The total census houses in Kerala as per 1981 census was about 5881000

Condition of Census houses used as residence and residence cum other use

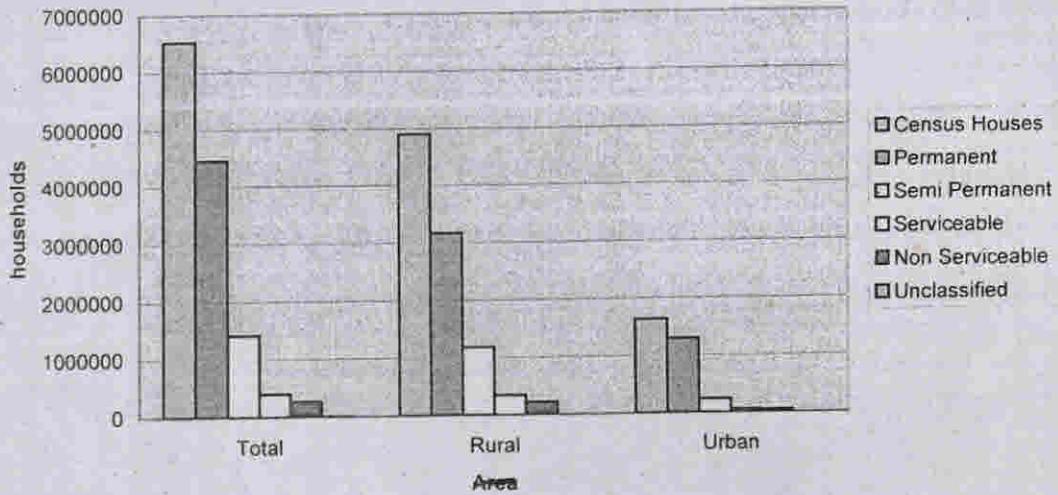
The condition of census houses used as residence and residence-cum-other use as per 2001 census in Kerala is shown in Table 1.5

In Kerala about 55.9% of total census houses are good while 36 per cent are in livable condition and 8.2 percent are dilapidated.

condition of census houses by use in India



conditions of census houses by use in kerala



Distribution of households by condition of census houses occupied by them are furnished in table 1.6.

Distribution of households by type of census houses occupied

At all India level 51.8% of house holds live in permanent and 30% in semi permanent houses. The corresponding proportion in Kerala is 68 and 21.6 percent respectively. Distribution of census houses used as residence, and residence cum other use by type of structure in Kerala and all India is given below:

Area	Census Houses	Permanent	Semi Permanent	Temporary		
				Serviceable	Non Serviceable	Unclassified
India						
Total	187063733	96566196	56377181	21622375	12447013	50968
Rural	135051268	55397353	48301856	19920334	11401988	29737
Urban	52012465	41168843	8075325	1702041	1045025	21231
Kerala						
Total	6532021	4452290	1410682	395749	271509	3791
Rural	4900050	3165195	1174642	339208	220546	2459
Urban	1631971	1287095	236040	56541	50963	1332

Distribution of households by type of census houses occupied is shown in table 1.7

House holds and occupied residential houses

In Kerala at the aggregate level, mismatch between house holds and occupied residential houses has declined to 63000 units, which account for only less than one percent of the housing stock. The gap between number of house holds and housing units in India and in Kerala in 1991 and 2001 is given below:

	Year	Households	Housing Units	Housing Shortage
India (Million)	1991	160.6	129.6	31.0
	2001	209.2	187.1	22.1
Kerala (Lakhs)	1991	55.13	54.59	0.54
	2001	65.95	65.32	0.63

The census 2001 indicate that on an average, a house in Kerala had three rooms while at all India average is only two. Distribution of households by size and by number of dwelling rooms is given in table 1.8 and 1.9 respectively. Distribution of households by tenure status is given in table 1.10.

Kerala witnessed high growth in housing investment and construction during the last 30 years. The average growth of house was 16% during this decade 1991-2001 as against the growth of 9% population. The average annual housing investment in the rural panchayaths in Kerala during 1993-98 was estimated at about Rs.25 million and the average investment per house hold was about Rs.5500/- It is roughly equivalent to about 10% of total income of rural households as against all India percentage of 2.1. The situation is fast changing. Traditional materials such as mud stone, bricks, thatches, grass, bamboo and tiles were replaced by modern materials like cement, mosaic, granite, floor, tiles, etc. Popularity of concrete buildings in urban and rural areas is very high.

Similar is the case of predominant materials used for well and floor. In 1961 only 36% of total residential houses has walls built of modern materials like burnt

bricks, stone concrete and GI sheet or other metal sheets. The proportion increased to 47% in 1981 and to 63% in 1991. Again it increased to nearly 69% in 2001. More than two-thirds of the households in Kerala are living in houses with cement or mosaic or floor tiles while at the all India level the proportion is only about one-third of total households. A comparison of the percentage of households living in houses with materials of floor, wall, roof and number of rooms in 2001 in Kerala and India is given below:

Percentage of households living in houses with materials of floor, wall, roof and number of rooms in 2001

(in percentage)

Percentage of household living in houses with		Kerala		India	
		Rural	Urban	Rural	Urban
Material of Floor	Mud	28.57	11.78	72.29	18.02
	Brick/Stone	1.68	1.58	6.48	12.10
	Cement	61.83	66.71	18.05	48.31
	Mosaic, Floor Tiles	7.0	18.09	2.17	20.48
Materials of wall	Crop, Thatch, bamboo, etc	5.28	3.71	12.65	3.92
	Mud	27.05	14.00	39.72	12.78
	Burnt bricks	28.38	41.42	34.21	68.02
	stone	33.01	34.96	10.46	6.73

Percentage of household living in houses with		Kerala		India	
		Rural	Urban	Rural	Urban
Materials of roof	Grass, thatch, bamboo, etc	11.49	6.56	27.73	6.97
	Tiles/slate	59.47	50.25	38.63	20.31
	Concrete	22.53	38.23	10.99	42.45
Number of dwelling rooms	No exclusive room or one room	13.29	10.18	43.2	37.43
	Two rooms	27.72	23.37	30.17	29.53
	3-5 rooms	52.75	57.56	23.06	29.03
	Six rooms and above	6.24	8.89	3.58	4.00
Percentage of household living in dilapidated houses		8.99	5.70	6.23	3.60

Distribution of residential Houses by predominant materials of floor 2001

Kerala and India

(in percentage)

Category		Mud, Wood, Bamboo, Bricks and Stone	Basement, Mosaic and Floor tiles	Others	Total
India	Total	65.9	33.7	0.4	100
	Rural	79.6	20.2	0.2	100
	Urban	30.5	68.8	0.7	100
Kerala	Total	26.1	72.8	1.1	100
	Rural	30.4	68.8	0.8	100
	Urban	13.4	84.8	1.8	100

Distribution of Residential Houses by predominant material of roof – 1961, 1991 & 2001 in Kerala

Year & Category		Traditional materials	Modern materials	Tiles	Concrete
1961	Total	74.1	25.9	24.8	0.1
	Rural	76.9	23.1	21.9	-
	Urban	56.7	43.3	42.7	8.5
1991	Total	25.2	74.8	57.1	12.5
	Rural	28.1	71.9	57.2	9.6
	Urban	16.9	86.1	56.7	20.7
2001	Total	11.2	88.8	57.1	26.5
	Rural	12.4	87.6	59.4	22.5
	Urban	7.4	92.6	50.3	38.3

The above tables show the trend in the use of modern materials in the construction of houses in Kerala. In 1961 traditional materials were used in 74.1% cases. Its use has decreased into 11.2 percent in 2001. In rural and urban sectors also this is the case. The use of modern materials in 1961 was 25.9%. Its has increased to 88.8% in 2001. The use of modern materials in rural areas has also increased from 23.1

to 87.6 in the same period. The use of tiled houses seems to be somewhat stable in 1991 and 2001. But the construction of concrete houses has tremendously increased during the period.

Distribution of households living in census houses by predominant material of roof, wall and floor is given in statement 1.11, 1.12 and 1.13 respectively.

In Kerala about 90.4% of the married couple has got separate sleeping room as per 2001 census (statement 1.14)

Similarly 71.6% of the household have drinking water source within the premises and 16.5% by near premises. While 12% household have not drinking water sources either with in the premises or near the premises. Distribution of households by source of drinking water and its location is given in statement 1.15.

As per 2001 ccensus 70.2 percent of households use electricity as source of lighting (statement 1.16) and 29.1% Kerosene.

As per 2001 census 62.1% of households have the availability of bathroom within the house. The facility is 56.5% in rural areas and 78.9% in urban areas (see 1.17)

16% of the households doesn't have the facility of latrine within the houses. It is 18.7% in rural areas and 8% in urban area. 80.3% of the households have no drainage connectivity for wastewater outlet.

Statement 1.18 shows the distribution of households by availability of separate kitchen and type of fuel used for cooking. It is seen that about 92.8% of the house hold have separate kitchen with in the houses. 5.4% of household have no separate kitchen and 1.6% cook in open area. Firewood remain as the main fuel used for cooking (77.4% of house holds) followed by LPG 17.7%, crop residue 1.8% and Kerosene 1.7%. Use of all other types of fuel are less than 1%.

Distribution of households by availability of Electricity and latrine is shown in statement 1.19. The number of households availing banking services and number of household having assets such as Radio, Television, Telephone, etc. are given in table 1.20

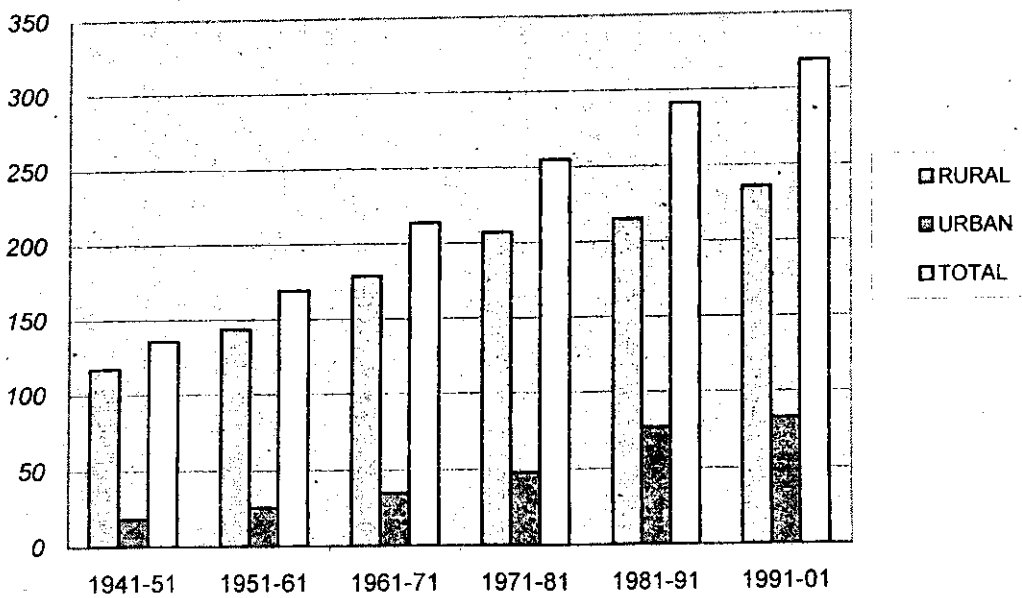
Source: Census tables and Economic review of State Planning Board for different years.

Statement 1.1
Growth of Population – Kerala

(lakhs)

Year	Rural	Urban	Total	Decade Growth rate of Population
1901	59.2	4.54	63.74	-
1911	66.23	5.25	71.48	11.75
1921	71.21	6.81	78.02	9.16
1931	85.91	9.16	95.07	21.85
1941	98.36	11.96	110.32	16.04
1951	117.23	18.26	135.49	22.82
1961	143.50	25.54	169.04	24.76
1971	178.81	34.66	213.47	26.29
1981	206.82	47.71	254.53	19.24
1991	214.18	76.80	290.98	14.32
2001	235.74	82.67	318.41	9.42

GROWTH OF POPULATION IN KERALA(Lakhs)



Statement 1.2
Growth of Households

(lakhs)

Year	Rural	Urban	Total	Decade variation of household %
1921	13.38	1.14	14.52	-
1931	15.55	1.42	16.97	16.87
1941	17.74	1.89	19.63	15.67
1951	19.43	2.58	22.01	12.12
1961	24.22	3.81	28.03	27.35
1971	29.19	5.14	34.33	22.48
1981	36.31	7.92	44.23	28.84
1991	41.02	14.11	55.13	24.64
2001	50.10	17.16	67.26	22.00

Statement 1.3

Projections of Total and Urban Population as on 1st March

(lakhs)

Year	2005	2006	2007	2008	2009	2010
Total Population	332.2	335.7	339.0	342.3	345.6	348.7
Urban Population	85.6	86.5	87.2	87.9	88.6	89.2

Source: 'Housing Statistics An Overview 2006'

Statement.1.4

CENSUS HOUSES AND THE USES TO WHICH THEY ARE PUT

	Total	%	Rural	%	Urban	%
Number of census houses	9356874	100.0	6894776	73.7	2462098	26.3
Vacant census houses	731823	7.8	508561	7.4	223262	9.1
Occupied census houses	8625051	92.2	6386215	92.6	2238836	90.9

Statement.1.4 Contd...

Uses of occupied census houses						
Residence	6490580	75.3	4870794	76.3	1619786	72.3
Residence-cum-other use	49620	0.6	33840	0.5	15780	0.7
Shop Office	897251	10.4	579073	9.1	318178	14.2
School College etc.	70435	0.8	51838	0.8	18597	0.8
Hotel, Lodge, Guest House, etc	42029	0.5	21712	0.3	20317	0.9
Hospital, Dispensary, etc	29565	0.3	19321	0.3	10244	0.5
Factory, Workshop, Work shed, etc	151692	1.8	91922	1.4	59770	2.7
Place of Worship	101140	1.2	81402	1.3	19738	0.9
Other non-residential use	792739	9.2	636313	10.0	156426	7.0

Source: Table. H-1 India: Census of India 2001

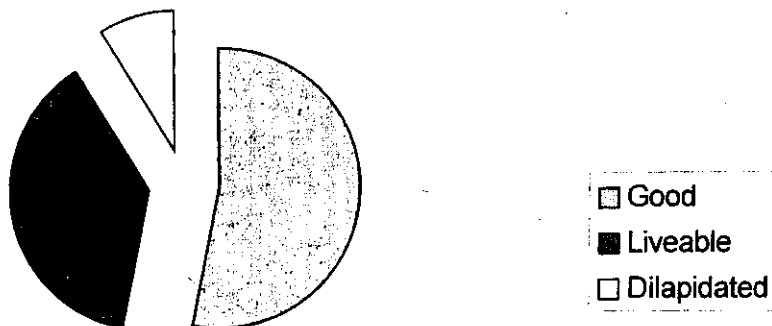
Statement:1.5

CONDITION OF CENSUS HOUSES USED AS RESIDENCE AND RESIDENCE-CUM-OTHER USE

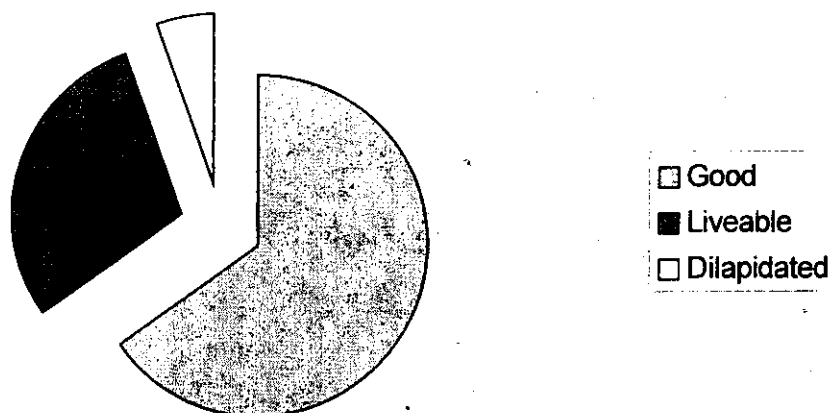
Condition of census house	Total	%	Rural	%	Urban	%
Total	6532021	100.0	4900050	100.0	1631971	100.0
Good	3648456	55.9	2589112	52.8	1059344	64.9
Liveable	2350488	36.0	1870667	38.2	479821	29.4
Dilapidated	533077	8.2	440271	9.0	92806	5.7

Source: Table. H-2 India: Census of India 2001

Conditions of census houses as residence and residence cum -other use (Rural)



Conditions of census houses used as residence and residence cum-other use(Urban)



Statement: 1.6.

DISTRIBUTION OF HOUSEHOLDS BY CONDITION OF CENSUS HOUSES OCCUPIED BY THEM

Condition of census house:	Total	%	Rural	%	Urban	%
Total	6595206	100.0	4942550	100.0	1652656	100.0
Good	3682251	55.8	2610474	52.8	1071777	64.9
Livable	2374221	36.0	1887563	38.2	486658	29.4
Dilapidated	538734	8.2	444513	9.0	94221	5.7

Source: Table. H-2 (Appendix) India: Census of India 2001.

Statement:1.7

**DISTRIBUTION OF HOUSEHOLDS BY TYPE OF CENSUS HOUSES
OCCUPIED**

	Total	%	Rural	%	Urban	%
Total number of households	6595206	100.0	4942550	100.0	1652656	100.0
Permanent	4493814	68.1	3191133	64.6	1302681	78.8
Semi permanent	1424375	21.6	1185096	24.0	239279	14.5
Temporary						
Total	673194	10.2	563847	11.4	109347	6.6
Serviceable	398983	6.0	341260	6.9	57723	3.5
Non-serviceable	274211	4.2	222587	4.5	51624	3.1
Unclassifiable	3823	0.1	2474	0.1	1349	0.1

Source: Table H-4 (Appendix) India: Census of India 2001

Statement: 1.8 .

DISTRIBUTION OF HOUSEHOLDS BY SIZE

Size of households	Total	%	Rural	%	Urban	%
Total number of households	6595206	100.0	4942550	100.0	1652656	100.0
One member	187102	2.8	145100	2.9	42002	2.5
Two members	457651	6.9	344194	7.0	113457	6.9
Three members	864207	13.1	638909	12.9	225298	13.6
Four members	1934787	29.3	1439661	29.1	495126	30.0
Five members	1389884	21.1	1056917	21.4	332967	20.1
Six to eight members	1340833	20.3	1018676	20.6	322157	19.5
Nine members and above	420742	6.4	299093	6.1	121649	7.4

Source : Table. H-5 India: Census of India 2001

Statement: 1.9**DISTRIBUTION OF HOUSEHOLDS BY NUMBER OF DWELLING ROOMS**

Number of dwelling rooms	Total	%	Rural	%	Urban	%
Total number of households	6595206	100.0	4942550	100.0	1652656	100.0
No exclusive rooms	103297	1.6	84590	1.7	18707	1.1
One room	721824	10.9	572181	11.6	149643	9.1
Two rooms	1756379	26.6	1370105	27.7	386274	23.4
Three rooms	1801212	27.3	1340455	27.1	460757	27.9
Four rooms	1207088	18.3	875810	17.7	331278	20.0
Five rooms	550152	8.3	391057	7.9	159095	9.6
Six rooms and above	455254	6.9	308352	6.2	146902	8.9
Median number of rooms	3		3		3	

Source : Table. H-5 India : Census of India 2001

Statement: 1.10.**DISTRIBUTION OF HOUSEHOLDS BY TENURE STATUS**

Tenure status	Total	%	Rural	%	Urban	%
Total	6595206	100.0	4942550	100.0	1652656	100.0
Owned	6109560	92.6	4662893	94.3	1446667	87.5
Rented	331917	5.0	163204	3.3	168713	10.2
Any Other	153729	2.3	116453	2.4	37276	2.3

Source: Table. H-5 India: Census of India 2001

Statement: 1.11.**DISTRIBUTION OF HOUSEHOLDS LIVING IN CENSUS HOUSES BY
PREDOMINANT MATERIAL OF ROOF**

	Total	%	Rural	%	Urban	%
Material of roof						
Total	6595206	100.0	4942550	100.0	1652656	100.0
Grass Thatch, Bamboo, Wood, Mud, etc	676394	10.3	568052	11.5	108342	6.6
Plastic, Polythene	56247	0.9	42456	0.9	13791	0.8
Tiles	3764851	57.1	2935300	59.4	829551	50.2
Slate	5226	0.1	4272	0.1	954	0.1
G.I., Metal, Asbestos sheets	286516	4.3	235203	4.8	51313	3.1
Brick	9019	0.1	6360	0.1	2659	0.2
Stone	6461	0.1	4909	0.1	1552	0.1
Concrete	1745121	26.5	1113393	22.5	631728	38.2
Any other material	45371	0.7	32605	0.7	12766	0.8

Source : Table. H-3A (Appendix) India: Census of India 2001

Statement: 1.12.**DISTRIBUTION OF HOUSEHOLDS LIVING IN CENSUS HOUSES BY
PREDOMINANT MATERIAL OF WALL**

	Total	%	Rural	%	Urban	%
Material of wall						
Total	6595206	100.0	4942550	100.0	1652656	100.0
Grass, Thatch, Bamboo, Wood, etc.	321952	4.9	260683	5.3	61269	3.7
Plastic, Polythene	17204	0.3	13278	0.3	3926	0.2
Mud, Unbent Brick	1568558	23.8	1337147	27.1	231411	14.0
Wood	93523	1.4	63733	1.3	29790	1.8
G.I., Metal, Asbestos sheets	30119	0.5	23769	0.5	6350	0.4
Bent Brick	2087317	31.6	1402837	28.4	684480	41.4
Stone	2209364	33.5	1631616	33.0	577748	35.0
Concrete	191929	2.9	146170	3.0	45759	2.8
Any other material	75240	1.1	63317	1.3	11923	0.7

Source : Table. H-3B (Appendix) India : Census of India 2001

Statement: 1.13**DISTRIBUTION OF HOUSEHOLDS LIVING IN CENSUS HOUSES BY
PREDOMINANT MATERIAL OF FLOOR**

	Total	%	Rural	%	Urban	%
Material of floor						
Total	6595206	100.0	4942550	100.0	1652656	100.0
Mud	1606927	24.4	1412213	28.6	194714	11.8
Wood, Bamboo	5826	0.1	4428	0.1	1398	0.1
Brick	51990	0.8	36837	0.7	15153	0.9
Stone	57257	0.9	46300	0.9	10957	0.7
Cement	4158498	63.1	3056043	61.8	1102455	66.7
Mosaic, Floor Tiles	644790	9.8	345880	7.0	298910	18.1
Any other material	69918	1.1	40849	0.8	29069	1.8

Source : Table. H-3C (Appendix) India : census of India 2001

Statement: 1.14.**DISTRIBUTION OF HOUSEHOLDS BY NUMBER OF MARRIED COUPLES
PER HOUSEHOLD, TOTAL NUMBER OF MARRIED COUPLES AND
NUMBER OF MARRIED COUPLES HAVING INDEPENDENT SLEEPING
ROOM**

Number of married couples in a household	Total	%	Rural	%	Urban	%
Total number of households	6595206		4942550		1652656	
Total number of married couples	7101509		5272522		1828987	
Total number of married couples	6422118	90.4	4729844	89.7	1692274	92.5
Having independent sleeping room						

Source : Table. H-7 India : Census of India 2001

Statement: 1.15

**DISTRIBUTION OF HOUSEHOLDS BY SOURCE OF DRINKING WATER
AND ITS LOCATION**

Location and source of drinking water Location	Total	%	Rural	%	Urban	%
Total number of households	6595206	100.0	4942550	100.0	1652656	100.0
Location: Within premises	4720031	71.6	3415561	69.1	1304470	78.9
Location: Near premises	1085260	16.5	859797	17.4	225463	13.6
Location: Away	789915	12.0	667192	13.5	122723	7.4
Source of drinking water						
Total	6595206	100.0	4942550	100.0	1652656	100.0
Tap	1345646	20.4	686697	13.9	659949	39.9
Hand pump	72332	1.1	56587	1.1	15745	1.0
Tube well	124323	1.9	91030	1.8	33293	2.0
Well	4738954	71.9	3814244	77.2	924710	56.0
Tank, Pond, Lake	50975	0.8	48201	1.0	2774	0.2
River, Canal	35198	0.5	34351	0.7	847	0.1
Spring	124409	1.9	122399	2.5	2010	0.1
Any other	103369	1.6	89041	1.8	14328	0.9

Source : Table. H-8 Census of India 2001

Statement: 1.16.

DISTRIBUTION OF HOUSEHOLDS BY SOURCE OF LIGHTING

Source of lighting	Total	%	Rural	%	Urban	%
Total	6595206	100.0	4942550	100.0	1652656	100.0
Electricity	4632722	70.2	3238899	65.5	1393823	84.3
Kerosene	1918660	29.1	1669386	33.8	249274	15.1
Solar energy	33291	0.5	26399	0.5	6892	0.4
Other oil	3965	0.1	3153	0.1	812	0.0
Any other	4358	0.1	3151	0.1	1207	0.1

Source : Table. H-9 : Census of India 2001

Statement: 1.17

**DISTRIBUTION OF HOUSEHOLDS BY AVAILABILITY OF BATHROOM,
TYPE OF LATRINE WITHIN THE HOUSE AND TYPE OF DRAINAGE
CONNECTIVITY FOR WASTE WATER OUTLET**

	Total	%	Rural	%	Urban	%
Total number of households	6595206		4942550		1652656	
Number of households having bathroom facility within the house	4096714	62.1	2792551	56.5	1304163	78.9
Type of Latrine within the house						
Pit latrine	815221	12.4	631664	12.8	183557	11.1
Water closet	4299445	65.2	3063983	62.0	1235462	74.8
Other latrine	426102	6.5	324374	6.6	101728	6.2
No latrine	1054438	16.0	922529	18.7	131909	8.0
Type of Drainage connectivity for waste water outlet						
Closed drainage	530486	8.0	285001	5.8	245485	14.9
Open drainage	770183	11.7	505104	10.2	265079	16.0
No drainage	5294537	80.3	4152445	84.0	1142092	69.1

Source : Table. H-10 : Census of India 2001.

Statement: 1.18.

**DISTRIBUTION OF HOUSEHOLDS BY AVAILABILITY SEPARATE
KITCHEN AND TYPE OF FUEL USED FOR COOKING**

Availability of separate kitchen within the house:	Total	%	Rural	%	Urban	%
Total	6595206	100.0	4942550	100.0	1652656	100.0
Available	6118547	92.8	4542383	91.9	1576164	95.4
Not available	353648	5.4	298663	6.0	54985	3.3
Cooking in open	104037	1.6	88972	1.8	15065	0.9
No cooking	18974	0.3	12532	0.3	6442	0.4
Type of fuel for cooking						
Total	6595206	100.0	4942550	100.0	1652656	100.0
Fire-wood	5107552	77.4	4153466	84.0	954086	57.7
Crop residue	116947	1.8	91654	1.9	25293	1.5
Cow dung cake	3814	0.1	2784	0.1	1030	0.1
Coal, lignite harcoal	3204	0.0	2222	0.0	982	0.1
Kerosene	113890	1.7	46828	0.9	67062	4.1
LPG	1168536	17.7	589189	11.9	579347	35.1
Electricity	6285	0.1	4184	0.1	2101	0.1
Biogas	50078	0.8	35160	0.7	14918	0.9
Any other	5926	0.1	4531	0.1	1395	0.1
No cooking	18974	0.3	12532	0.3	6442	0.4

Source : Table H-11 India : Census of India 2001

Statement: 1.19.**DISTRIBUTION OF HOUSEHOLDS BY AVAILABILITY OF ELECTRICITY
AND LATRINE**

	Total	%	Rural	%	Urban	%
Total number of households	6595206	100.0	4942550	100.0	1652656	100.0
Electricity and toilet both available	4302040	65.2	2961945	59.9	1340095	81.1
Electricity available but toilet not available	330682	5.0	276954	5.6	53728	3.3
Electricity not available but toilet available	1238728	18.8	1058076	21.4	180652	10.9
Electricity and toilet both not available	723756	11.0	645575	13.1	78181	4.7

Source: Table. H-12A(E) India : Census of India 2001

Statement: 1.20.**NUMBER OF HOUSEHOLDS AVAILING BANKING SERVICES AND
NUMBER OF HOUSEHOLDS HAVING EACH OF THE SPECIFIED ASSETS**

	Total	%	Rural	%	Urban	%
Total number of household	6595206		4942550		1652656	
Total number of households availing banking services	3370034	51.1	2479299	50.2	890735	53.9
Availability of assets:						
Radio, Transistor	3903341	59.2	2908735	58.9	994606	60.2
Television	2560680	38.8	1594344	32.3	966336	58.5
Telephone	1257615	19.1	774009	15.7	483606	29.3
Bicycle	1216832	18.5	776684	15.7	440148	26.6
Scooter, Motor cycle Moped	659520	10.0	365363	7.4	294.157	17.8
Car, Jeep, Van	262507	4.0	141113	2.9	121394	7.3
None of the specified assets	1795041	27.2	1481290	30.0	313751	19.0

Source : Table. H-13 India : Census of India 2001.

CHAPTER II

BRIEF REVIEW

1. Panchayath Level Building Statistics

Districtwise details of area, population and household as on 2001 census is included as statement II 1.1 in this chapter. Panchayathwise details of buildings constructed for the periods 2001-02, 2002-03 and 2003-04 are included as statements II 1.2, II 1.3 and II 1.4 respectively. These details were collected on the basis of the recommendation of National Statistical Commission and direction from Government of Kerala. Details of total buildings constructed in Panchayath areas of the State during 2001-02, 2002-03 and 2003-04 are as follows:

Year	Total Buildings	Buildings for residential purposes	Buildings for non residential purposes
2001-02	220094	175430	44664
2002-03	243136	194790	48346
2003-04	260816	211802	49014

Total number of census houses in Kerala as per 2001 Census is 9356874 and that in rural area is 6894776. This shows that there is an annual growth rate of 2.35% during 2001-02, 2.60% in 2002-03 and 2.79% in 2003-04 when compared with the total buildings in 2000-01. And again the growth rate is 3.19%, 3.53% and 3.78% respectively when the total rural census houses are considered. Construction of commercial buildings is also increasing significantly when compared with other types of buildings. Similarly the details of ownership of the new buildings were also collected. Majority of the buildings were constructed in private sector during the period.

Ownership details of new buildings

Year	Private		Govt. / Local Bodies	Others	Total
	Male	Female			
2001-02	160199	53380	2735	3780	220094
2002-03	177255	58476	3134	4271	243136
2003-04	189446	63675	3396	4299	2600816

About 25 per cent of new buildings in private sector are owned by females.

Type of roof

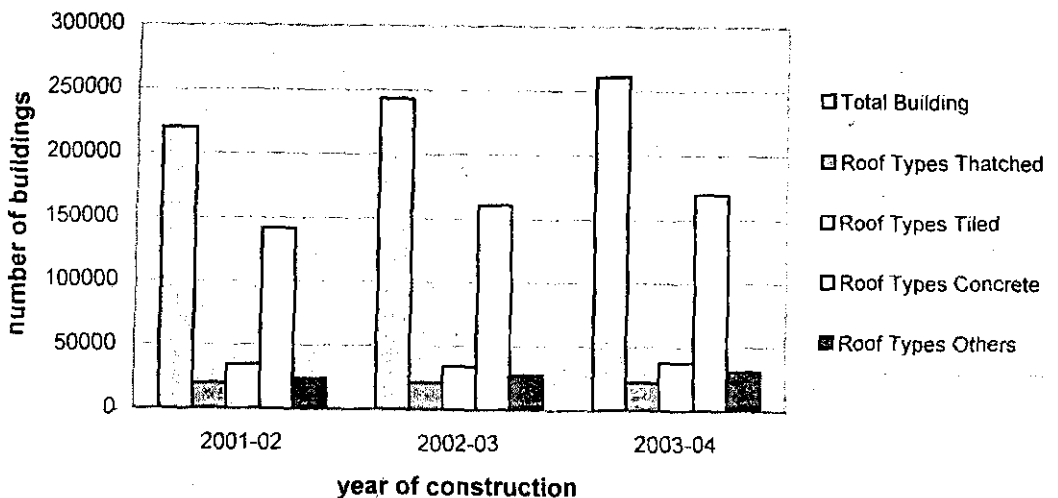
Details of roof were classified as thatched, Tiled concrete and others. The details shows that concrete buildings are increasing in a rapid rate. This also shows the use of modern building materials in the buildings construction sector.

Year	Total Building	Roof Types				Percentage			
		Thatched	Tiled	Concrete	Others	Thatched	Tiled	Concrete	Others
2001-02	220094	20131	34457	141467	24039	9.15	15.66	64.27	10.92
2002-03	243136	21349	34026	160451	27310	8.78	14.00	65.99	11.23
2003-04	260816	22375	37800	169752	30889	8.58	14.49	65.09	11.84

From the above it is clear that about 65% of the new buildings are of concrete type while nearly 15% are tiled. Thatched houses come to less than 10 per cent. Other type of roofing is used in the remaining buildings.

Even though the details of new buildings were collected from the register maintained by Local Bodies, some of the buildings may be constructed after demolishing the existing one. Hence there may be a slight variation in the number of buildings.

Type of roof in kerala



Statement II. 1.1

District wise Area, Population, Household in Kerala 2001

Sl. No.	District	Area (Sq.Km)			Population			Household		
		Rural	Urban	Total	Rural	Urban	Total	Rural	Urban	Total
1	Thiruvananthapuram	1920.91	271.09	2192	2142695	1091661	3234356	505653	253729	759382
2	Kollam	2378.1	112.9	2491	2119230	465978	2585208	491734	101580	593314
3	Pathanamthitta	2565.53	71.47	2637	1110218	123798	1234016	268498	28636	297134
4	Alappuzha	1153.37	260.63	1414	1487703	621457	2109160	345928	138032	483960
5	Kottayam	2087.26	120.74	2208	1653838	299808	1953646	368727	65793	434520
6	Idukky	4290.57	67.43	4358	1071628	57593	1129221	252256	13088	265344
7	Eranakulam	2537.7	530.3	3068	1628713	1477085	3105798	364881	328280	693161
8	Thrissur	2686.15	345.85	3032	2134799	839433	2974232	495526	180345	675871
9	Palakkad	4225.76	144.24	4370	2260907	356575	2617482	455911	74305	530216
10	Malappuram	3362.92	187.08	3550	3269301	256170	3525471	552722	59691	612413
11	Kozhikkode	2009.06	134.94	2144	1777974	1101157	2879131	364557	203101	567658
12	Wayanad	2090.26	40.74	2131	751007	29612	780619	160398	6365	166763
13	Kannur	2327.05	638.95	2966	1196058	1212898	2408956	237932	219436	457368
14	Kasaragode	1866.5	125.5	1992	970378	233700	1204078	181536	43716	225252
	Total	35501.14	3051.86	38553	23574449	8166925	31741374	5046259	1716097	6762356

Statement II. 1.2
Details of Buildings constructed and completed in Panchayath areas during the year 2001-2002

Sl. No.	Name of Panchayat	Number of Buildings newly constructed and completed										Total Number of Buildings (Col. 5 + 10)
		Residential Buildings					Non Residential Buildings					
		Dwelling Houses	Others	Total	Industrial	Commercial	Institutional	Others	Total			
1	2	3	4	5	6	7	8	9	10	11		
1	Thiruvananthapuram	16870	361	17231	114	3005	182	325	3626	20857		
2	Kollam	17743	185	17928	129	2223	242	394	2988	20916		
3	Pathanamthitta	5770	63	5833	48	913	43	266	1270	7103		
4	Alappuzha	12037	105	12142	362	1313	119	713	2507	14649		
5	Kottayam	9060	174	9234	54	704	117	1210	2085	11319		
6	Idukky	4873	238	5111	24	308	55	439	826	5937		
7	Eranakulam	14996	428	15424	243	2369	158	1047	3817	19141		
8	Thrissur	14153	154	14307	191	1890	164	800	3045	17352		
9	Palakkad	13382	213	13595	79	2261	104	697	3141	16736		
10	Malappuram	18959	2372	21331	146	7328	151	824	8509	29840		
11	Kozhikkode	16129	145	16274	112	3044	101	828	4085	20359		
12	Wayanad	3932	219	4151	31	543	72	247	893	5044		
13	Kannur	12915	664	13519	104	2430	284	1904	4722	18301		
14	Kasaragode	8840	650	9290	92	2154	90	814	3150	12440		
	Total	169459	5971	175430	1729	30535	1882	10518	44664	220094		

Statement II. 1.3
Details of Buildings constructed and completed in Panchayath areas during the year 2002-2003

Sl. No.	Name of Panchayat	Number of Buildings newly constructed and completed										Total Number of Buildings (Col. 5 + 10)	
		Residential Buildings					Non Residential Buildings						Total
		Dwelling Houses	Others	Total	Industrial	Commercial	Institutional	Others	Total				
3	4	5	6	7	8	9	10	11					
1	Thiruvananthapuram	18002	319	18321	91	2937	241	388	3657	21978			
2	Kollam	18427	323	18750	137	2483	251	490	3361	22111			
3	Pathanamthitta	6588	69	6657	28	1198	58	297	1581	8238			
4	Alappuzha	13722	104	13826	289	1142	102	834	2367	16193			
5	Kottayam	11634	144	11778	31	942	103	1363	2439	14217			
6	Idukky	5941	235	6176	23	400	62	409	894	7070			
7	Eranakulam	16766	479	17245	539	2455	249	1049	4292	21537			
8	Thrissur	17751	207	17958	229	2300	147	1311	3987	21945			
9	Palakkad	14251	454	14705	64	2305	133	641	3143	17848			
10	Malappuram	21011	2023	23034	114	7368	191	815	8488	31522			
11	Kozhikkode	18020	141	18161	108	4026	75	791	5000	23161			
12	Wayanad	3269	194	3463	9	562	44	241	856	4319			
13	Kannur	15115	887	16002	169	3346	196	1801	5512	21514			
14	Kasaragode	8006	708	8714	34	1862	130	743	3769	11483			
	Total	188503	6287	194790	1865	33326	1982	11173	48346	243136			

Details of Buildings constructed and completed in Panchayath areas during the year 2002-2003 Contd....

Sl. No.	Name of Panchayat	Ownership				Type of Roofs				Total
		Private		Govt./Local Bodies	Others	Thatched	Tiled	Concrete	Others	
		Male	Female							
1	2	12	13	14	15	16	17	18	19	20
1	Thiruvananthapuram	14508	7042	171	247	2582	1387	15638	2371	21978
2	Kollam	15093	6673	240	105	2587	3003	14023	2498	22111
3	Pathanamthitta	6197	1804	153	84	526	1106	5364	1242	8238
4	Alappuzha	11647	4235	128	183	1756	2763	8150	3524	16193
5	Kottayam	10699	2795	291	432	1134	1390	6894	4799	14217
6	Idukky	5359	1439	99	173	1038	689	2158	3185	7070
7	Eranakulam	16885	3936	380	366	1073	2437	15133	2894	21537
8	Thrissur	15847	5317	297	484	3514	2322	14834	1275	21945
9	Palakkad	12772	4701	175	200	1337	5466	10133	912	17848
10	Malappuram	25488	4873	248	913	1750	4194	24738	840	31522
11	Kozhikkode	17877	4847	206	231	2276	2209	17764	912	23161
12	Wayanad	2781	1121	299	118	192	884	1958	1285	4319
13	Kannur	14366	6485	209	454	938	3756	15624	1196	21514
14	Kasaragode	7736	3228	238	281	646	2420	8040	377	11483
	Total	179255	58496	3134	4271	21349	34026	16047	27310	243136

Statement II. 1.4

Details of Buildings constructed and completed in Panchayath areas during the year 2003-2004

Sl. No.	Name of Panchayat	Number of Buildings newly constructed and completed										Total Number of Buildings (Col. 5 + 10)	
		Residential Buildings					Non Residential Buildings						Total
		Dwelling Houses	Others	Total	Industrial	Commercial	Institutional	Others	Total				
1	2	3	4	5	6	7	8	9	10	11			
1	Thiruvananthapuram	19970	467	20437	71	3128	166	545	3910	24347			
2	kollam	21138	350	21488	128	2257	433	469	3287	24775			
3	Pathanamthitta	6875	75	6950	57	1018	71	302	1448	8398			
4	Alappuzha	14350	65	14415	355	1233	84	902	2574	16989			
5	Kottayam	12678	233	12911	43	1020	118	1498	2679	15590			
6	Idukky	5852	187	6039	59	353	75	429	916	6955			
7	Eranakulam	18001	484	18485	440	2435	245	1153	4273	22758			
8	Thrissur	18999	134	19133	216	2499	199	1111	4025	23158			
9	Palakkad	17741	457	18198	45	2840	140	992	4017	22215			
10	Malappuram	22097	1980	24077	147	6822	233	972	8174	32251			
11	Kozhikkode	20769	155	20924	90	3816	87	961	4954	25878			
12	Wayanad	3840	138	3978	4	504	43	236	787	4765			
13	Kannur	14717	741	15458	118	2934	307	1763	5122	20580			
14	Kasaragode	8511	798	9309	39	1933	99	777	2848	12157			
	Total	205538	6264	211802	1812	32792	2300	12110	49014	260816			

Details of Buildings constructed and completed in Panchayath areas during the year 2003-2004 Contd...

Sl. No.	Name of Panchayat	Ownership						Type of Roofs				Total
		Private		Female	Govt./Local Bodies	Others	Thatched	Tiled	Concrete	Others		
		Male										
1	2	12	13	14	15	16	17	18	19	20		
1	Thiruvananthapuram	16231	7606	287	223	3109	1780	16682	2776	24347		
2	kollam	17003	7447	191	134	2874	4818	14846	3037	24775		
3	Pathanamthitta	6304	1906	92	96	486	1175	5298	1439	8398		
4	Alappuzha	12226	4476	161	126	1603	2898	8508	3980	16989		
5	Kottayam	11792	3197	193	408	992	1414	7026	5558	15590		
6	Idukky	5063	1564	146	182	1314	678	1898	3065	6955		
7	Eranakulam	17611	4453	317	377	916	2468	16418	2956	22758		
8	Thrissur	16628	5718	409	403	3319	2351	16123	1365	23158		
9	Palakkad	15661	5973	301	280	2017	7409	19520	1269	22215		
10	Malappuram	25669	5273	386	923	2013	4260	25078	900	32251		
11	Kozhikkode	19937	5458	288	195	2514	2481	19801	1082	25878		
12	Wayanad	3126	1443	105	91	235	900	1855	1775	4765		
13	Kannur	14071	5841	245	423	440	3526	15417	1197	20580		
14	Kasaragode	8124	3320	275	438	543	2442	8682	490	12157		
	Total	189446	63675	3396	4299	22375	37800	169752	30889	260816		

2. Buildings Construction Statistics of Public Sector

The Statistics cell working in the Public Works Department (Buildings & Local Works) is responsible for the collection of building construction statistics costing project Rs.50,000 or more in Government Department and Public Sector undertakings. The details of projects in progress and projects completed for the period from 1995-96 to 2004-05 is included in this brochure based on the Annual reports received from that office. The details of residential units is given in table II 2.1. Type of buildings in progress/completed total plinth area, total floor area and expenditure incurred in lakhs are included in the statements II 2.2 to II 2.

Limitation – Details of buildings projects in PWD (Buildings & Local Works) alone is included in this brochure.

Statement II 2.1

Number of dwellings in Residential and Non-residential -cum residential Buildings in Public Sector

year	95-96	96-97	97-98	98-99	99-00	00-01	01-02	02-03	03-04	04-05
1 Room Unit	-	-	-	15	1	1	2	52	-	-
	16	69	69	54	55	54	52	-	20	20
2 Room Unit	1	24	48	-	2	7	1	6	14	14
	76	54	9	12	12	9	8	2	-	-
3 Room Unit	20	18	-	4	3	4	6	5	9	8
	26	10	17	13	12	11	5	-	-	1
4 Room Unit	171	223	37	26	5	24	12	7	26	29
	327	120	87	61	66	45	33	27	1	-
Total	192	265	85	45	11	36	21	70	69	71
	445	252	182	140	145	119	98	29	1	1

Statement 2.2

Details of Buildings Completed/Progressing in Public Sector

1995-96

Sl. No.	Type of Construction	No. of Building completed	Total Plinth area (Sq.Mt.)	Total floor area (Sq.Mt.)	Expenditure Rs. (Lakhs)
1.	Residential Buildings				
	a) New Construction	10	11726	9922	33.19
	b) Additions				
2.	Other Residential Buildings				
	a) New Construction	4	1149	955	8.03
	b) Additions				
3.	Industrial Buildings				
	a) New Construction				
	b) Additions				
4.	Commercial Buildings				
	a) New Construction	5	2399	2013	8.08
	b) Additions	1	53	42	.47
5.	Institutional Buildings				
	a) New Construction	46	24027	19719	71.73
	b) Additions	1	37	33	0.04
6.	Other Buildings				
	a) New Construction				
	b) Additions				

Statement 2.3

Details of Buildings Completed/Progressing in Public Sector

1995-96

Sl. No.	Type of Construction	No. of Plans Sanctioned/ Building In progress	Total Plinth area (Sq.Mt.)	Total floor area (Sq.Mt.)	Expenditure Rs. (Lakhs)
1.	Residential Buildings				
	a) New Construction	32	37417	31577	254.89
	b) Additions				
2.	Other Residential Buildings				
	a) New Construction	26	26157	22142	133.52
	b) Additions	1	761	698	
3.	Industrial Buildings				
	a) New Construction				
	b) Additions				
4.	Commercial Buildings				
	a) New Construction	50	111342	90361	1071.45
	b) Additions	3	714	613	.92
5.	Institutional Buildings				
	a) New Construction	191	208119	173690	1045.94
	b) Additions	2	412	364	
6.	Other Buildings				
	a) New Construction	1	360	306	1.73
	b) Additions				

Statement 2.4

Details of Buildings Completed/Progressing in Public Sector

1996-97

Sl. No.	Type of Construction	No. of Building completed	Total Plinth area (Sq.Mt.)	Total floor area (Sq.Mt.)	Expenditure Rs. (Lakhs)
1.	Residential Buildings				
	a) New Construction	16	17887	15413	241.81
	b) Additions				
2.	Other Residential Buildings				
	a) New Construction	12	8322	7011	25.79
	b) Additions	1	761	698	4.37
3.	Industrial Buildings				
	a) New Construction				
	b) Additions				
4.	Commercial Buildings				
	a) New Construction	17	10908	9276	28.27
	b) Additions	3	714	613	8.54
5.	Institutional Buildings				
	a) New Construction	83	54161	44360	247.92
	b) Additions	2	412	364	.75
6.	Other Buildings				
	a) New Construction	1	360	306	3.73
	b) Additions				

Statement 2.5**Details of Buildings Completed/Progressing in Public Sector****1996-97**

Sl. No.	Type of Construction	No. of Plans Sanctioned/ Building In progress	Total Plinth area (Sq.Mt.)	Total floor area (Sq.Mt.)	Expenditure Rs. (Lakhs)
1.	Residential Buildings				
	a) New Construction	26	24177	20274	252.95
	b) Additions				
2.	Other Residential Buildings				
	a) New Construction	28	31309	26310	147.94
	b) Additions				
3.	Industrial Buildings				
	a) New Construction				
	b) Additions				
4.	Commercial Buildings				
	a) New Construction	49	136088	107907	3229.20
	b) Additions				
5.	Institutional Buildings				
	a) New Construction	168	210159	176340	1396.40
	b) Additions				
6.	Other Buildings				
	a) New Construction				
	b) Additions				

Statement 2.6

Details of Buildings Completed/Progressing in Public Sector

1997-98

Sl. No.	Type of Construction	No. of Building Completed	Total Plinth area (Sq.Mt.)	Total floor area (Sq.Mt.)	Expenditure Rs. (Lakhs)
1.	Residential Buildings				
	a) New Construction	5	7155	5979	68.85
	b) Additions				
2.	Other Residential Buildings				
	a) New Construction	7	9793	8153	58.54
	b) Additions				
3.	Industrial Buildings				
	a) New Construction				
	b) Additions				
4.	Commercial Buildings				
	a) New Construction	9	2690	2159	16.40
	b) Additions				
5.	Institutional Buildings				
	a) New Construction	61	46230	38162	351.71
	b) Additions				
6.	Other Buildings				
	a) New Construction				
	b) Additions				

Statement 2.7

Details of Buildings Completed/Progressing in Public Sector

1997-98

Sl. No.	Type of Construction	No. of Plans Sanctioned/ Building In progress	Total Plinth area (Sq.Mt.)	Total floor area (Sq.Mt.)	Expenditure Rs. (Lakhs)
1.	Residential Buildings				
	a) New Construction	26	23580	19668	153.23
	b) Additions				
2.	Other Residential Buildings				
	a) New Construction	37	31494	26332	575.18
	b) Additions				
3.	Industrial Buildings				
	a) New Construction				
	b) Additions				
4.	Commercial Buildings				
	a) New Construction	70	158678	126431	4754.57
	b) Additions				
5.	Institutional Buildings				
	a) New Construction	147	213201	178556	1340.45
	b) Additions				
6.	Other Buildings				
	a) New Construction				
	b) Additions				

Statement 2.8

Details of Buildings Completed/Progressing in Public Sector

1998-99

Sl. No.	Type of Construction	No. of Building completed	Total Plinth area (Sq.Mt.)	Total floor area (Sq.Mt.)	Expenditure Rs. (Lakhs)
1.	Residential Buildings				
	a) New Construction	5	3457	2993	44.35
	b) Additions				
2.	Other Residential Buildings				
	a) New Construction	6	5296	4340	54.63
	b) Additions				
3.	Industrial Buildings				
	a) New Construction				
	b) Additions				
4.	Commercial Buildings				
	a) New Construction	23	37053	28567	514.82
	b) Additions				
5.	Institutional Buildings				
	a) New Construction	41	47439	40575	538.90
	b) Additions				
6.	Other Buildings				
	a) New Construction				
	b) Additions				

Statement 2.9

Details of Buildings Completed/Progressing in Public Sector

1998-99

Sl. No.	Type of Construction	No. of Plans Sanctioned/ Building In progress	Total Plinth area (Sq.Mt.)	Total floor area (Sq.Mt.)	Expenditure Rs. (Lakhs)
1.	Residential Buildings				
	a) New Construction	26	22359	18618	152.60
	b) Additions				
2.	Other Residential Buildings				
	a) New Construction	39	30375	25312	311.98
	b) Additions				
3.	Industrial Buildings				
	a) New Construction				
	b) Additions				
4.	Commercial Buildings				
	a) New Construction	67	129844	104782	5525.58
	b) Additions				
5.	Institutional Buildings				
	a) New Construction	134	199979	165998	1151.98
	b) Additions				
6.	Other Buildings				
	a) New Construction				
	b) Additions				

Statement 2.10

Details of Buildings Completed/Progressing in Public Sector

1999-2000

Sl. No.	Type of Construction	No. of Building completed	Total Plinth area (Sq.Mt.)	Total floor area (Sq.Mt.)	Expenditure Rs. (Lakhs)
1.	Residential Buildings				
	a) New Construction	6	2899	2578	26.93
	b) Additions				
2.	Other Residential Buildings				
	a) New Construction	9	4857	4076	40.61
	b) Additions				
3.	Industrial Buildings				
	a) New Construction				
	b) Additions				
4.	Commercial Buildings				
	a) New Construction	20	12563	10473	132.12
	b) Additions				
5.	Institutional Buildings				
	a) New Construction	57	52512	43499	645.79
	b) Additions				
6.	Other Buildings				
	a) New Construction				
	b) Additions				

Statement 2.11

Details of Buildings Completed/Progressing in Public Sector

1999-2000

Sl. No.	Type of Construction	No. of Plans Sanctioned/ Building In progress	Total Plinth area (Sq.Mt.)	Total floor area (Sq.Mt.)	Expenditure Rs. (Lakhs)
1.	Residential Buildings				
	a) New Construction	25	21992	18033	257.52
	b) Additions				
2.	Other Residential Buildings				
	a) New Construction	35	33929	28327	245.54
	b) Additions				
3.	Industrial Buildings				
	a) New Construction				
	b) Additions				
4.	Commercial Buildings				
	a) New Construction	57	122620	98581	460.71
	b) Additions				
5.	Institutional Buildings				
	a) New Construction	91	169610	140484	658.19
	b) Additions				
6.	Other Buildings				
	a) New Construction				
	b) Additions				

Statement 2.12

Details of Buildings Completed/Progressing in Public Sector

2000-01

Sl. No.	Type of Construction	No. of Building completed	Total Plinth area (Sq.Mt.)	Total floor area (Sq.Mt.)	Expenditure Rs. (Lakhs)
1.	Residential Buildings				
	a) New Construction	13	12357	10055	97.15
	b) Additions				
2.	Other Residential Buildings				
	a) New Construction	20	14346	11553	239.53
	b) Additions				
3.	Industrial Buildings				
	a) New Construction				
	b) Additions				
4.	Commercial Buildings				
	a) New Construction	37	68150	53554	466.72
	b) Additions				
5.	Institutional Buildings				
	a) New Construction	62	67449	56389	724.50
	b) Additions				
6.	Other Buildings				
	a) New Construction				
	b) Additions				

Statement 2.13

Details of Buildings Completed/Progressing in Public Sector

2000-01

Sl. No.	Type of Construction	No. of Plans Sanctioned/ Building In progress	Total Plinth area (Sq.Mt.)	Total floor area (Sq.Mt.)	Expenditure Rs. (Lakhs)
1.	Residential Buildings				
	a) New Construction	18	10658	8855	295.43
	b) Additions				
2.	Other Residential Buildings				
	a) New Construction	19	20828	17832	612.82
	b) Additions	2	511	440	
3.	Industrial Buildings				
	a) New Construction				
	b) Additions				
4.	Commercial Buildings				
	a) New Construction	44	73932	61332	3648.64
	b) Additions				
5.	Institutional Buildings				
	a) New Construction	61	148969	122424	1321.17
	b) Additions	1	458	411	7.4
6.	Other Buildings				
	a) New Construction	1	979	832	42.71
	b) Additions				

Statement 2.14

Details of Buildings Completed/Progressing in Public Sector

2001-02

Sl. No.	Type of Construction	No. of Building completed	Total Plinth area (Sq.Mt.)	Total floor area (Sq.Mt.)	Expenditure Rs. (Lakhs)
1.	Residential Buildings				
	a) New Construction	5	3543	2906	26.88
	b) Additions				
2.	Other Residential Buildings				
	a) New Construction	8	4823	4072	46.67
	b) Additions				
3.	Industrial Buildings				
	a) New Construction				
	b) Additions				
4.	Commercial Buildings				
	a) New Construction	17	15361	12650	284.68
	b) Additions				
5.	Institutional Buildings				
	a) New Construction	20	20064	17157	191.45
	b) Additions				
6.	Other Buildings				
	a) New Construction	1	979	832	12.90
	b) Additions				

Statement 2.15

Details of Buildings Completed/Progressing in Public Sector

2001-02

Sl. No.	Type of Construction	No. of Plans Sanctioned/ Building In progress	Total Plinth area (Sq.Mt.)	Total floor area (Sq.Mt.)	Expenditure Rs. (Lakhs)
1.	Residential Buildings				
	a) New Construction	13	7115	5949	118.21
	b) Additions				
2.	Other Residential Buildings				
	a) New Construction	12	16581	14436	340.74
	b) Additions	2	511	440	17.66
3.	Industrial Buildings				
	a) New Construction				
	b) Additions				
4.	Commercial Buildings				
	a) New Construction	34	59805	49698	576.70
	b) Additions				
5.	Institutional Buildings				
	a) New Construction	51	132108	107912	907.78
	b) Additions	1	458	411	
6.	Other Buildings				
	a) New Construction	1	111	95	
	b) Additions				

Statement 2.16

Details of Buildings Completed/Progressing in Public Sector

2002-03

Sl. No.	Type of Construction	No. of Plans Sanctioned/ Building In progress	Total Plinth area (Sq.Mt.)	Total floor area (Sq.Mt.)	Expenditure Rs. (Lakhs)
1.	Residential Buildings				
	a) New Construction	7	4684	3856	11.78
	b) Additions				
2.	Other Residential Buildings				
	a) New Construction	6	11719	9849	106.74
	b) Additions	3	808	680	6.68
3.	Industrial Buildings				
	a) New Construction				
	b) Additions				
4.	Commercial Buildings				
	a) New Construction	30	50419	40764	356.02
	b) Additions	2	407	336	9.51
5.	Institutional Buildings				
	a) New Construction	75	127831	104518	852.38
	b) Additions	1	458	411	
6.	Other Buildings				
	a) New Construction				
	b) Additions				

Statement 2.17

Details of Buildings Completed/ in Progress Public Sector

2002-03

Sl. No.	Type of Construction	No. of Building completed	Total Plinth area (Sq.Mt.)	Total floor area (Sq.Mt.)	Expenditure Rs. (Lakhs)
1.	Residential Buildings				
	a) New Construction	7	2551	2196	92.79
	b) Additions				
2.	Other Residential Buildings				
	a) New Construction	6	5132	4587	48.18
	b) Additions				
3.	Industrial Buildings				
	a) New Construction				
	b) Additions				
4.	Commercial Buildings				
	a) New Construction	16	19100	16843	183.18
	b) Additions				
5.	Institutional Buildings				
	a) New Construction	15	11658	9648	826.57
	b) Additions				
6.	Other Buildings				
	a) New Construction	1	111	95	3.85
	b) Additions				

Statement 2.18

Details of Buildings Completed/Progressing in Public Sector

2003-04

Sl. No.	Type of Construction	No. of Plans Sanctioned/ Buildings In progress	Total Plinth area (Sq.Mt.)	Total floor area (Sq.Mt.)	Expenditure Rs. (Lakhs)
1.	Residential Buildings				
	a) New Construction	8	7003	5707	40.25
	b) Additions				
2.	Other Residential Buildings				
	a) New Construction	6	11203	9450	95.91
	b) Additions	3	808	680	10
3.	Industrial Buildings				
	a) New Construction				
	b) Additions				
4.	Commercial Buildings				
	a) New Construction	42	40922	33041	753.62
	b) Additions	3	498	392	
5.	Institutional Buildings				
	a) New Construction	67	129777	106586	811.63
	b) Additions	2	588	477	
6.	Other Buildings				
	a) New Construction	2	280	220	
	b) Additions				

Statement 2.19

Details of Buildings Completed/Progressing in Public Sector

2003-04

Sl. No.	Type of Construction	No. of Building Completed	Total Plinth area (Sq.Mt.)	Total floor area (Sq.Mt.)	Expenditure Rs. (Lakhs)
1.	Residential Buildings				
	a) New Construction	1	264	215	10.67
	b) Additions				
2.	Other Residential Buildings				
	a) New Construction	2	1161	926	19.25
	b) Additions				
3.	Industrial Buildings				
	a) New Construction				
	b) Additions				
4.	Commercial Buildings				
	a) New Construction	17	15262	12526	344.10
	b) Additions	1	262	220	4.32
5.	Institutional Buildings				
	a) New Construction	39	10050	8035	255.01
	b) Additions				
6.	Other Buildings				
	a) New Construction				
	b) Additions				

Statement 2.20

Details of Buildings Completed/Progressing in Public Sector

2004-05

Sl. No.	Type of Construction	No. of Plans Sanctioned Building Completed	Total Plinth area (Sq.Mt.)	Total floor area (Sq.Mt.)	Expenditure Rs. (Lakhs)
1.	Residential Buildings				
	a) New Construction	1	71	56	3.04
	b) Additions				
2.	Other Residential Buildings				
	a) New Construction	3	5691	4801	107.32
	b) Additions				
3.	Industrial Buildings				
	a) New Construction				
	b) Additions				
4.	Commercial Buildings				
	a) New Construction	11	4736	3736	199.71
	b) Additions	2	383	294	14.13
5.	Institutional Buildings				
	a) New Construction	24	46961	38231	535.62
	b) Additions				
6.	Other Buildings				
	a) New Construction	2	280	220	10.14
	b) Additions				

Statement 2.21

Details of Buildings Completed/Progressing in Public Sector

2004-05

Sl. No.	Type of Construction	No. of Plans Sanctioned/ Buildings In Progress	Total Plinth area (Sq.Mt.)	Total floor area (Sq.Mt.)	Expenditure Rs. (Lakhs)
1.	Residential Buildings				
	a) New Construction	10	7281	5921	234.29
	b) Additions				
2.	Other Residential Buildings				
	a) New Construction	7	6710	5744	141.51
	b) Additions	2	504	430	
3.	Industrial Buildings				
	a) New Construction				
	b) Additions				
4.	Commercial Buildings				
	a) New Construction	51	40192	32188	12365
	b) Additions	2	200	168	
5.	Institutional Buildings				
	a) New Construction	62	90706	74902	857.81
	b) Additions	3	720	587	
6.	Other Buildings				
	a) New Construction	1	210	170	
	b) Additions				

3. Private Sector

The details of area, population and households of statutory towns in Kerala are given in table II 3.1. Collection of building statistics in private sector from cities/town having a population of 10000 or more has to be done by the statistical cell in Urban Affairs Directorate. Details of plans sanctioned and buildings completed have to be collected. As the local bodies are not giving much attention to this work, flow of data from Municipality/Corporation to Urban Directorate and to Department of Economics & Statistics are not encouraging. So only the available information is included in statement II 3.2

Statement II 3.1

Municipalities/Corporation in Kerala – 2001

Sl.No	Corporation in Kerala	Area	Population	House holds
1	Thiruvananthapuram	141.74	744983	174670
2	Kochi	94.88	595575	131692
3	Kozhikkode	84.29	436556	80528
4	Kollam	57.28	361560	78182
5	Trissur	101.42	317526	69138
Sl.No	Municipalities	Area	Population	House holds
1	Neyyattinkara	29.05	69467	16293
2	Nedumangadu	32.53	56138	13291
3	Attingal	16.87	35693	8309
4	Varkala	14.87	40728	8376
5	Punaloor	34.35	47235	11261
6	Paravoor	16.19	38652	7978
7	Pathanamthitta	23.5	38009	8868
8	Thiruvalla	27.15	56837	12900
9	Adoor	20.82	28952	8868
10	Alappuzha	46.71	177029	37595
11	Kayamkulam	21.79	68585	14594
12	Cherthala	16.19	45105	10073
13	Mavelikkara	12.65	28439	6825
14	Chengannur	14.60	25397	6079
15	Kottayam	15.99	60728	13936
16	Changanassery	13.5	51967	11218

Municipalities in Kerala – 2001 Contd.

Sl.No	Municipalities	Area	Population	House holds
17	Vaikom	8.73	22641	5139
18	Pala	16.06	22640	4578
19	Thodupuzha	35.43	46246	10308
20	Aluva	6.46	24110	5333
21	Perumbavoor	13.61	26547	6063
22	North Paravoor	9.02	30059	6834
23	Muvatupuzha	13.18	29246	6513
24	Tripunithura	18.69	59884	13925
25	Angamaly	28.24	33409	7556
26	Kothamangalam	40.04	37173	8186
27	Kalamassery	27.00	63116	14206
28	Kunnamkulam	34.18	51592	11138
29	Irinjalakkuda	11.24	28873	6494
30	Chalakkudy	25.23	48380	10874
31	Kodungallur	17.30	33539	7350
32	Chavakkadu	12.41	38138	6792
33	Guruvayur	7.48	21186	4487
34	Palakkadu	26.60	130767	26956
35	Chittur-Thathamangalam	14.71	31886	6945
36	Shornur	32.28	42029	8853
37	Ottappalam	32.66	49242	10130
38	Malappuram	33.6	58491	10353
39	Tirur	16.55	53654	8558
40	Manjeri	53.10	83707	14717
41	Ponnani	24.82	57495	12990
42	Perinthalmanna	34.41	44612	8093
43	Koilandi	29.05	68982	13100
44	Vadakara	21.32	75847	13112
45	Kalpetta	40.74	29612	6365
46	Kannur	11.03	63797	11034
47	Thalasseri	23.96	99387	17144
48	Payyannur	54.63	68734	13904
49	Koothuparambu	16.76	29532	5329
50	Thaliparambu	43.08	67507	12537
51	Kasaragod	16.69	52634	9283
52	Kanjhangad	39.54	65503	12575
53	Mattannur	54.32	44313	7950

Statement II 3.2
Buildings completed in Municipalities/Corporation

Sl. No.	Name of Municipality/ Corporation	97-98	98-99	99-00	2000-01	2001-02	2002-03	2003-04	2004-05
1.	Neyyattinkara	-	-	-	-	-	-	-	-
2.	Nedumangadu	-	-	-	-	-	-	-	-
3.	Attingal	125	131	-	65	96	128	-	-
4.	Varkala	70	159	102	77	-	-	-	-
5.	Kollam	-	24	57	17	-	-	-	-
6.	Punalur	82	98	71	117	205	-	-	-
7.	Paravoor	147	102	215	215	186	160	49	241
8.	Pathanamthitta	132	214	134	120	-	33	-	-
9.	Thiruvalla	236	246	193	91	180	-	-	-
10.	Adoor	-	-	-	-	-	37	112	181
11.	Alappuzha	84	36	107	-	-	-	-	-
12.	Kayamkulam	173	309	121	150	-	-	-	-
13.	Cherthala	243	211	111	104	166	163	35	123
14.	Mavelilkara	-	14	81	67	53	18	-	-
15.	Chengannur	11	18	27	60	56	23	11	50
16.	Kottayam	105	56	171	187	52	118	102	-
17.	Changanassery	159	191	54	36	32	52	-	-
18.	Vaikom	167	69	-	158	112	22	37	87
19.	Pala	-	23	12	-	-	-	-	-
20.	Thodupuzha	299	278	122	-	51	43	-	-
21.	Aluva	37	19	-	65	-	-	-	-
22.	Perumbavoor	83	158	112	77	45	-	-	-
23.	North Paravur	-	-	62	25	179	-	-	253
24.	Muvattupuzha	181	-	-	-	-	-	-	-
25.	Thripunithura	-	-	251	133	341	670	-	-
26.	Angamali	-	150	243	233	-	-	-	-
27.	Kothamangalam	68	153	244	424	185	111	-	-
28.	Kalamassery	155	82	82	78	-	-	-	-
29.	Thrissur	117	-	-	78	-	-	-	-
30.	Kunnamkulam	72	19	97	51	142	66	-	-

Buildings completed in Municipalities/Corporation Contd...

31.	Irinjalakuda	81	53	97	50	130	252	47	40
32.	Chalakkudy	-	-	-	-	-	-	-	-
33.	Kodungalloor	-	-	63	203	220	124	77	302
34.	Chavakkadu	29	31	21	-	-	-	-	-
35.	Guruvayur	-	-	-	-	-	-	-	-
36.	Palakkad	23	255	424	-	-	-	-	-
37.	Chittur- Thathamangalam	-	-	-	18	-	-	13	188
38.	Shoranur	-	-	60	-	-	-	-	-
39.	Ottappalam	103	105	-	-	-	-	-	-
40.	Malappuram	34	80	37	-	-	383	-	-
41.	Tirur	27	162	212	148	127	357	52	161
42.	Manjeri	430	361	318	215	38	357	-	-
43.	Ponnani	-	-	-	-	-	-	-	-
44.	Perinthalmanna	-	84	137	-	38	83	-	-
45.	Koyilandy	313	175	128	199	118	80	-	-
46.	Vadakara	295	404	418	482	534	-	-	-
47.	Kalpetta	-	-	-	-	-	-	-	-
48.	Kannur	132	129	88	-	-	-	-	-
49.	Thalasseri	247	200	218	275	-	292	180	220
50.	Payyannur	346	130	29	-	104	-	-	-
51.	Koothuparambu	156	-	80	58	-	-	-	-
52.	Thaliparambu	192	149	86	83	-	113	36	213
53.	Kasaragode	201	154	53	156	-	-	88	324
54.	Kanghangad	-	-	79	230	199	201	63	312
55.	Mattannur	96	184	125	48	64	41	-	-
56.	Kozhikode	-	-	-	-	-	-	-	-
57.	Kochi	-	-	-	-	-	-	-	-
58.	Thiruvananthapuram	-	-	-	-	-	-	-	-

Statement II 3.3

Plans sanctioned in Municipalities/Corporation

Sl. No.	Name of Municipality Corporation	97-98	98-99	99-00	2000-01	2001-02	2002-03	2003-04	2004-05
1.	Neyyattinkara	56	23	54	-	-	-	-	-
2.	Nedumangadu	-	72	87	-	28	78	-	-
3.	Attingal	-	-	-	107	113	220	-	-
4.	Varkala	66	212	170	205	-	-	-	-
5.	Kollam	258	198	114	31	-	-	-	-
6.	Punalur	195	257	395	639	218-	-	-	-
7.	Paravoor	166	205	410	444	521	174	143	207
8.	Pathanamthitta	89	175	213	170	-	62	-	-
9.	Thiruvalla	435	301	296	136	162	-	-	-
10.	Adoor	80	110	104	-	-	49	75	412
11.	Alappuzha	239	147	380	-	-	-	-	-
12.	Kayamkulam	420	255	184	168	-	-	-	-
13.	Cherthala	513	529	484	190	252	205	20	240
14.	Mavelikara	158	107	144	98	116	46	-	-
15.	Chengannur	-	120	145	98	94	47	105	72
16.	Kottayam	191	161	396	332	73	485	112	-
17.	Changanassery	199	210	225	95	90	-	-	-
18.	Vaikom	226	225	-	339	300	212	-	220
19.	Pala	116	49	31	170	71	-	-	-
20.	Thodupuzha	430	532	376	14	122	85	-	-
21.	Aluva	120	80	59	160	104	-	-	-
22.	Perumbavoor	134	241	376	181	168	86	-	-
23.	North Paravur	255	145	206	112	122	567	85	370
24.	Muvattupuzha	246	-	190	-	-	-	-	-
25.	Thripunithura	31	-	643	82	213	543	220	-
26.	Angamali	215	231	180	258	-	-	-	-
27.	Kothamangalam	220	572	497	493	219	203	-	-
28.	Kalamassery	478	395	667	725	-	-	-	-
29.	Thrissur	249	-	-	-	-	-	-	-
30.	Kunnamkulam	122	155	121	184	95	120-	-	-

Plans sanctioned in Municipalities/Corporation Contd...

31.	Irinjalakuda	113	226	181	250	222	71	124	293
32.	Chalakkudy	509	293	287	-	-	50	-	-
33.	Kodungalloor	220	66	271	316	229	166	-	496
34.	Chavakkadu	59	126	60	84	179	224	155	-
35.	Guruvayur	-	-	-	-	-	-	-	-
36.	Palakkad	442	274	539	-	-	-	-	-
37.	Chittur- Thathamangalam	127	254	121	109	18	106	-	178
38.	Shoranur	38	-	176	-	-	-	-	-
39.	Ottappalam	104	112	-	-	-	-	-	-
40.	Malappuram	102	136	90	-	-	358	105	-
41.	Tirur	388	337	340	317	210	297	49	295
42.	Manjeri	559	638	249	186	47	-	-	-
43.	Ponnani	656	46	53	-	-	-	-	-
44.	Perinthalmanna	48	216	128	30	114	139	47	-
45.	Koyilandy	445	392	256	574	192	154	-	-
46.	Vadakara	446	561	830	829	818	580	-	-
47.	Kalpetta	159	220	-	-	-	-	-	-
48.	Kannur	223	220	198	-	-	-	-	-
49.	Thalasseri	238	290	282	143	164	442	360	337
50.	Payyannur	609	139	48	-	77	-	-	-
51.	Koothuparambu	252	210	198	99	-	-	-	-
52.	Thaliparambu	342	315	318	100	-	436	251	249
53.	Kasaragode	216	179	203	212	-	87	103	337
54.	Kanghangad	473	622	491	197	-	-	36	597
55.	Mattannur	295	372	383	26	-	73	-	-
56.	Kozhikode	-	-	-	-	-	-	-	-
57.	Kochi	-	-	-	-	-	-	-	-
58.	Thirvananthapuram	-	-	-	-	-	-	-	-

4. Prices of Building Materials and Wages of building labour

Prices of building materials and wages of building labour are collected from all the district head quarters through the district offices on quarterly basis. District wise average prices of some important building materials and wages of building labour for the year 2000 to 2005 are included in statements II 4.1 and II 4.2

Statement II 4.1

District wise average annual market price of Building materials from 2000 to 2005

Districts	Country Bricks (1000 Nos.) - A class						Sand (Medium Variety) Cubic Meter						Stone Ballast (20mm) Cubic Meter					
	2000	2001	2002	2003	2004	2005	2000	2001	2002	2003	2004	2005	2000	2001	2002	2003	2004	2005
Thiruvananthapuram	1888	2000	2150	2200	2294	2338	545	503	462	605	689	723	461	538	598	635	664	
kollam	1800	2213	2219	2433	1225	1538	400	438		605	547	616	547	680	638	576	494	
Pathanamthitta	2287	2000	2050	2100	1825	2000	327	518	553	600	612	612	423	470	470	470	541	
Alappuzha	1600	1938	2275	2300	2550	2675	400	560	623	639	681	681	423	511	641	629	619	
Kottayam	1775	1825	1869	1894	2490	2813			600	696	713	755	423	462	428	442	533	
Idukky	1800	1841	1609	2181	2319	2550	398	400		624	900		540	540	532	376	428	
Ernakulam	1574	1597	1613	2100	2400	2686	490	700	1330	1970	883	781	548	564	578	682	639	
Thrissur	1750	1776	1825	1975	1925	2438	482	645	696	628	841	883	557	541	621	621	621	
Palakkad	2240	2865	2877				437	535	541	566	725	1158	626	758	703	716	776	
Malappuram	2912				5250	5438	307	378	320	418	475	503	595	539	468	522	543	
Kozhikkode	2850	2975	2900	2963			330	335					584	552	495	459	468	
Wayanad	1700	1700	1700	3000	1250	1900	395	405	410	517			565	575	563	545	546	
Kannur	2917	2888	2963	2938	2988	3144	297	295				453	735	713	711	737	724	
Kasaragode						3625	202	177	177	177	187	240	693	724	711	706	718	
State Average	2085	2135	2171	2371	2402	3315	385	453	571	668	660	673	551	583	586	580	594	

Statement II 4.1 Contd..
District wise average annual market price of Building materials

Districts	Lime unslaked										Jack Cubic Meter										Cement (MT)				
	2000	2001	2002	2003	2004	2005	2000	2001	2002	2003	2004	2005	2000	2001	2002	2003	2004	2005	2000	2001	2002	2003	2004	2005	
	Thiruvananthapuram	2640	3395	3500	3028	4000	5250	32795	37808	37870	35915	35265	35532	3635	3670	3040	3375	3455							
kollam							34363	35300	35300	35300	38843	43083	3590	3653	3000	3413	3350								
Pathanamthitta	3520	3520	3520	3520	4000	4000	41466	38819	38819	38819	38819	38819	3530	3705	2860	3230	3280								
Alappuzha		3080	3080	3300	4620	4375	30000	30326	30005	29564	29870	32432	3466	3650	2990		3040								
Kottayam	1373	1373	1385	2920	3975	4000	31783	32666	29797	35315	35315	36206	3600	3750	3025	3463	3463								
Idukky	2000	2104	2096	2703	3275	4000	32538	32658	32661	31417	33188	35118	3560	3753	3025	3445	3418								
Ernakulam						6833	29607	31146	30408	28233	28826	32667	3780	2798	2724	3237	3305								
Thrissur	2450	2450	2450	2818	2940	2940	32705	31784	31784	31784	31784	32225	3551	3734	3074	3314	3300								
Palakkad	2700	2700	2700	2700	2745	3000	25152	25593	24711	24266	25347	23125	3380	3527	2885	3295	3420								
Malappuram	2388	2625	3750	4000	3750	3750	37000	37250	38000	35825	35938	36000	3525	3670	2825	3255	3390								
Kozhikkode	4960	4708	4688	5250		6750	42569	41477	40606	36629	42364	41101	4100	3933	3020	3350	3450								
Wayanad				3960	4625	5688	23824	22891	21634	21505	25903	26435	3550	3715	3075	3325	3490								
Kannur	5335	5308	5280	5555		6750	29312	33154	35451	36842	33230	37380	3615	3730	3045	3298	3443								
Kasaragode	1320	6600	6600	6380		7125	37957	30896	34428	35310	35299	37078	3535	3640	3085	3265	3385								
State Average	2869	3442	3550	3845	3770	4959	32934	32983	32962	32623	33571	34804	3601	3638	2977	3328	3371								

Statement II 4.1 Contd..

District wise average annual market price of Building materials

Districts	S.W. Pipe (150 mm)					A.C. Pipe (150 mm)						
	2000	2001	2002	2003	2004	2005	2000	2001	2002	2003	2004	2005
Thiruvananthapuram	64	67	68				185	240	253	218		
kollam		75	75	75			234	245	245	245	229	230
Pathanamthitta	56	56	60	60	64	62	188	215	224	225	236	230
Alappuzha	62	65	90	90	90		90	90	90	90	175	
Kottayam	58	59	119	175			214	225	220		200	200
Idukky	50	59	59	63			238	188	171	206	187	165
Ernakulam	44	50	54	62	60	73	196	208	282	233	242	256
Thrissur	45	45	45	45			200	200	200	200	200	200
Palakkad	53	54	53				250	250	250	250	250	250
Malappuram	64	65	65	65			198	194	176	180	200	200
Kozhikkode	138	67	68	68	68	79	308	326	345	320		
Wayanad	49	53	58	53	48	52	165	170	210	174	183	186
Kannur	65	67	65				223	223	184	145	168	161
Kasaragode	55	55	55				230	230	230	218	217	200
State Average	56	60	68	76	66	67	209	215	220	208	207	209

Statement II 4.2

District wise Average Building wages of Mason, Carpenter and unskilled workers Male/Female for the period from 2000 to 2005

S.No.	District	Mason Ist class					Carpenter Ist class						
		2000	2001	2002	2003	2004	2005	2000	2001	2002	2003	2004	2005
1	Thiruvananthapuram	182	200	200	200	200	218	180	200	200	200	211	238
2	Kollam	175	175	81	200	200	219	175	175	181	200	200	219
3	Pathanamthitta	200	200	200	200	200	200	200	200	200	200	200	200
4	Alappuzha	175	200	200	206	225	225	175	200	200	206	225	225
5	Kottayam	175	200	200	200	200	200	175	198	200	200	200	200
6	Idukky	200	200	200	215	221	225	200	200	200	200	206	225
7	Erana-kulam	205	205	208	230	228	225	205	203	208	230	228	225
8	Thrissur	190	200	200	200	200	220	190	200	200	200	200	220
9	Palakkad	135	140	143	155	160	160	135	140	145	155	160	160
10	Mala-ppuram	185	200	200	206	225	225	185	200	200	213	225	225
11	Kozhikkode	175	180	180	180	185	203	175	180	180	180	185	203
12	Wayanad	87	90	80	195	200	200	188	90	180	185	200	200
13	Kannur	188	190	190	190	200	200	188	190	190	190	200	208
14	Kasara-gode	200	200	200	200	210	242	200	200	200	200	200	200

Statement II 4.2 Contd..

District wise Average Buildings wages of Mason, Carpenter and Unskilled workers Male/Female for the period from 2000 to 2005

Sl No.	District	Unskilled Male					Unskilled Female						
		2000	2001	2002	2003	2004	2005	2000	2001	2002	2003	2004	2005
1	Thiruvananthapuram	150	140	145	150	153	171	140	131	135	140	143	159
2	Kollam	130	130	153	150	150	160	125	125	148	140	140	150
3	Pathanamthitta	125	138	150	150	150	150	100	100	103	100	100	100
4	Alappuzha	125	150	150	156	175	179	100	126	140	145	155	171
5	Kottayam	125	140	145	150	150	150	110	123	125	125	125	125
6	Idukky	136	140	145	158	160	160	108	100	114	128	130	130
7	Eranakulam	132	138	150	175	175	175	117	123	124	135	130	138
8	Thrissur	147	150	150	150	150	170	115	120	120	120	120	130
9	Palakkad	90	100	100	100	115	125	65	65	71	78	78	80
10	Malappuram	145	150	150	163	175	175	119	135	135	138	140	140
11	Kozhikkode	120	120	120	120	125	160	105	110	110	110	111	144
12	Wayanad	125	115	120	121	124	120	100	95	100	100	100	100
13	Kannur	147	150	150	154	180	180	120	120	120	120	130	130
14	Kasaragode	150	150	150	150	150	150	120	120	120	120	121	120

5. Building Cost Index

Building Cost Index series can show the trend in building construction costs in selected centers for a period of time. The building construction costs, however vary with the type of construction, design, region, etc. Building Cost Index for middle income group houses of Thiruvananthapuram Centre, as base year 1990-91 = 100 is computed for the years.

Centre: Thiruvananthapuram

Base Year 1990-91=100

Year	Grop Index				General Index
	Materials	Labour	Water Supply & Sanitation	Electrified fittings	
1997-98	247	271	181	181	246
1998-99	259	294	179	189	259
1999-00	270	335	177	191	276
2000-01	308	351	179	171	304
2001-02	298	351	177	168	298
2002-03	292	356	179	167	295
2003-04	302	359	214	164	305
2004-05	332	386	208	183	331

6. Residential Flats

Housing sineareo will not be completed without mentioning the growth of residential Flats and Apartments in City Corporations and Municipalities. Kerala posses a very high population density (819 persons/Sq. Kilometer) as per 2001 census. Thus a villa in three or four cents became a dream to layman. In this circumstances, residential apartments came in to existence. As per the survey conducted by Town and Country Planning Department in 2002 there are 652 apartments in Kerala. In this 652 apartments there are 15198 flats. Most of these apartments are spread in City Corporations and Municipalities of the State. The maximum number of apartments and flats are in Kochin Corporation of Eranakulam District followed by Thiruvananthapuram Corporation of Thiruvananthapuram District. The total 652 apartments are spreads in four to twenty two floors in various parts of the state. District wise distribution of apartments and flats are given in table II 6.1 classification of dwelling units according to number of bed room in II 6.2 and according to nature of surrounding area is given in table II 6.3

Source: 'Residential Flats in City Corporation and Municipalities in Kerala 2002.'

Statement II 6.1

District wise Distribution of Flats in Apartments

Sl.No	Districts	Total Flats	Total Appartments	Plinth Area (Sqare metre)	Built up Area (Sqare metre)	Avg.No. of Flats per Appartments
1	Thiruvananthapuram	3233	161	58419.59	346151.08	20
2	kollam	49	2	1096.8	5414.9	25
3	Pathanamthitta	125	5	3510.16	27401.51	25
4	Alappuzha	36	1	450	4275	36
5	Kottayam	366	15	8662.85	63331.64	24
6	Idukky					
7	Eranakulam	9597	398			24
8	Thrissur	754	22	11466.5	82079.61	34
9	Palakkad	23	2	606.47	1985	12
10	Malappuram					
11	Kozhikkode	687	30	15163.28	85653.65	23
12	Wayanad					
13	Kannur	276	13	3672.84	23285.27	21
14	Kasaragode	52	3	700.9	4013.5	17
	State Total	15198	652	103749.39	643591.16	23

Statement II 6.2

Classification of Dwelling units according to Number of Bed rooms

Sl.No	Districts	No. of Bed rooms				Total
		1	2	3	Above 3	
1	Thiruvananthapuram	664	1332	1205	32	3233
2	kollam		29	20		49
3	Pathanamthitta	6	36	80	3	125
4	Alappuzha		18	18		36
5	Kottayam	5	102	235	24	366
6	Idukky					
7	Eranakulam	1102	4399	3898	198	9597
8	Thrissur	187	342	225		754
9	Palakkad		15	8		23
10	Malappuram					
11	Kozhikkode	7	392	287	1	687
12	Wayanad					
13	Kannur	182	49	45		276
14	Kasaragode		52			52
	State	2153	6766	6021	258	15198

Statement II 6.3

Distribution of Apartments according to nature of surrounding area

Sl.No	Districts	Residential	Commercial	Residential Commercial	Commercial Industrial	Total
1	Thiruvananthapuram	152	9			161
2	kollam	1	1			2
3	Pathanamthitta	3	1	1		5
4	Alappuzha	1				1
5	Kottayam	11	4			15
6	Idukky					
7	Eranakulam	304	36	53	5	398
8	Thrissur	20	2			22
9	Palakkad	2				2
10	Malappuram					
11	Kozhikkode	17	3	10		30
12	Wayanad					
13	Kannur	11	2			13
14	Kasaragode	3				3
State Total		525	58	64	5	652

7. Housing Agencies

There are nearly 20 public agencies supporting the housing schemes in Kerala apart from other agencies. Kerala State Housing Board, Rural Development Department, Kerala State Co-operative Housing Federation, Kerala State Co-operative Agricultural and Rural Development Banks and Nationalized Banks are the major Government department/agencies.

Besides Local Self Government are also assisting in the construction of houses.

Total number of houses assisted by various agencies

Year	No. of Houses
2001-02	83302
2002-03	133228
2003-04	129564
2004-05	155929
2005-06	110621

Source: Economic Review

CHAPTER III

This chapter is included to have an overview of housing statistics at National level. Growth of population housing statistics as per 2001 census, details of capital formation in housing, production of selected building materials etc. are included in this chapter

Source: 'Housing Statistics An Overview 2006' published by National Buildings Organisation.

Statement 3.1

Growth of Population in India (1901-2001)

(in Million)

Year	Total	Rural	%of Share	Urban	%age share
1901	238.4	212.6	89.2	25.8	10.8
1911	252.1	226.2	89.7	25.9	10.3
1921	251.3	223.2	88.8	28.1	11.2
1931	278.9	245.5	88.0	33.4	12.0
1941	318.6	274.5	86.2	44.1	13.9
1951	361.1	298.7	82.7	62.4	17.3
1961	439.2	360.3	82.0	78.9	18.0
1971	548.2	439.1	80.1	109.1	19.0
1981	683.3	523.8	76.7	159.5	23.3
1991	846.3	628.7	74.3	217.6	25.7
2001	1028.6	742.5	72.2	286.1	27.8

Statement 3.2

Migrants by place of Last residence and reasons for migration – 2001

(in Million)

Reasons for Migration	Sex	Last residence in India			Within the state of Enumeration			States in India beyond the state of Enumeration		
		Rural	Urban	Total	Rural	Urban	Total	Rural	Urban	Total
Employment	Male	18.59	6.82	25.83	11.48	4.12	15.85	7.11	2.71	9.98
	Female	2.65	0.84	3.62	2.04	0.58	2.74	0.61	0.26	0.87
Business	Male	1.53	0.76	2.33	1.10	0.46	1.59	0.43	0.30	0.74
	Female	0.30	0.11	0.44	0.26	0.08	0.36	0.04	0.03	0.08
Education	Male	1.65	0.64	2.35	1047	0.42	1.94	0.18	0.22	0.41
	Female	0.65	0.30	0.98	0.60	0.21	0.83	0.05	0.09	0.14
Moved with households	Male	11.10	5.37	17.10	8.85	3.93	13.30	2.24	1.45	3.80
	Female	15.86	7.26	23.87	12.33	5.03	17.97	3.53	2.22	5.91
Marriage	Male	1.86	0.25	2.16	1.74	0.20	1.98	0.13	0.05	0.18
	Female	136.60	14.23	153.34	127.92	11.08	141.28	8.69	3.15	12.06
Moved after birth	Male	6.02	2.98	9.26	5.52	2.58	8.33	0.50	0.40	0.93
	Female	4.04	2.26	6.49	3.69	1.97	5.83	0.35	0.29	0.66
Others	Male	9.84	4.22	31.65	8.40	3.36	28.59	1.44	0.85	3.06
	Female	12.74	3.52	29.97	11.66	2.89	27.64	1.08	0.63	2.33

Statement 3.3

Growth of Household

(in Million)

Year	Total	Rural	Urban
1951	73.4	60.6	12.8
1961	83.5	68.6	14.9
1971	97.1	78.0	19.1
1981	123.4	94.1	29.3
1991	153.2	112.5	40.7
2001	193.6	137.7	55.8

Statement 3.4

Distribution of Houses by different uses in 2001

(in Million)

	Houses used as	Total	Rural	Urban
1.	Residence	179.28	129.05	50.22
2.	Residence	7.89	6.05	1.84
3.	Hotels, Lodge, Guest House, etc.	0.52	0.27	0.25
4.	Shops, Offices	13.39	5.57	7.82
5.	Factories, Workshops and work sheds, etc.	2.21	0.99	1.22
6.	Places of worship	2.40	1.98	0.42
7.	School, College, etc.	1.50	1.23	0.27
8.	Hospitals, dispensary, etc.	0.60	0.34	0.26
9.	Other non-residential houses	25.49	22.71	2.79
10.	Census houses vacant at the time of house listing	15.81	9.36	6.45
11.	Total census houses	249.10	177.54	71.56

Statement 3.5

Percentage distribution of Households having by source of drinking water facility

1991 & 2001

	Source of Drinking water	Percentage of Households					
		Rural		Urban		Total	
		1991	2001	1991	2001	1991	2001
1.	Well	38.01	22.23	15.91	7.71	32.23	18.67
2.	Tap	20.64	24.29	65.06	68.67	32.26	36.70
3.	Hand Pump/ Tube Well	34.90	48.93	16.32	21.35	30.04	40.72
4.	River/Canal	2.58	1.33	0.35	0.19	2.01	1.01
5.	Tank, Ponds, Lake	1.69	1.28	0.31	0.31	1.33	1.01
6.	Others	2.17	1.94	2.04	1.77	2.13	1.89

Statement 3.6**Percentage distribution of Household by Tenure States, All India**

Source of Drinking water	Percentage distribution of Households					
	Owned		Rented		Others	
	Urban	Rural	Urban	Rural	Urban	Rural
1961	46.2	93.6	53.8	6.4	-	-
1971	47.1	93.8	52.9	6.2	-	-
1981	53.5	93.0	46.5	7.0	-	-
1991	63.1	94.5	34.1	4.0	2.8	1.5
2001	66.8	94.3	28.5	3.6	4.7	2.1

Statement 3.7**Number of household and persons per dwelling unit**

Year	Number of Household for dwelling unit			Number of persons for dwelling unit		
	Total	Rural	Urban	Total	Rural	Urban
1961	1.05	1.05	1.05	5.54	5.52	5.65
1971	1.04	1.04	1.02	5.89	5.89	5.88
1981	1.06	1.06	1.09	5.87	5.92	5.70
1991	1.03	1.02	1.03	5.72	5.72	5.49
2001	1.03	1.02	1.07	5.50	5.50	5.50

Statement 3.8**Household size by Rural/Urban/All India**

Year	Total	Rural	Urban
1961	5.2	5.2	5.1
1971	5.7	5.6	5.7
1981	5.5	5.6	5.4
1991	5.5	5.6	5.4
2001	5.3	5.4	5.1

Statement 3.9

Trends in the Growth of Urban/Rural Housing Stock by type of Structure

Year	Urban				Rural			
	Total Housing Stock (mm)	Pucca %	Semi-pucca %	Katcha %	Total Housing Stock (mm)	Pucca %	Semi-pucca %	Katcha %
1961	14.0	46.00	35.00	19.00	65.2	13.00	37.00	50.00
1971	18.5	63.80	23.50	12.70	74.4	19.00	37.00	44.00
1981	28.0	64.60	24.30	11.10	88.7	21.10	37.60	41.30
1991	39.3	75.80	15.80	8.40	108.7	33.00	34.20	32.80
2001	52.0	79.16	15.58	5.27	135.1	41.00	35.80	23.20

Statement 3.10

Housing Stock (Residential)

(in Million)

Area	Housing Stock									
	1961		1971		1981		1991		2001	
	No.	%	No.	%	No.	%	No.	%	No.	%
Total	79.4	100.00	93.00	100.00	116.7	100.00	148.0	100.00	187.1	100.00
Rural	65.2	82.1	74.5	80.1	88.7	76.0	108.7	73.4	135.1	72.2
Urban	14.2	17.9	18.5	19.9	28.0	24.0	39.3	26.6	52.0	27.8

Statement 3.11

Usable Housing Stock

(in Million)

Area	Usable Housing Stock *				
	1961	1971	1981	1991	2001
Total	68.3	82.5	101.5	133.8	174.5
Rural	57.1	66.4	77.8	97.8	123.6
Urban	11.2	16.1	23.7	36.0	50.9

* Consist of Pucca, Semi-pucca and serviceable katcha

Statement 3.12
Housing Shortage

(in Million)

Year	1961	1971	1981	1991	2001
Total	15.2	14.6	23.3	22.9	24.7
Rural	11.6	11.6	16.3	14.7	14.1
Urban	3.6	3.0	7.0	8.2	10.6

Statement 3.13

Components of Housing Shortage (Backlog) based on Census 2001

(in Million)

	Components of housing shortage	Total	Rural	Urban
1.	Excess of household area houses including houseless household	7.60	2.71	4.89
2.	Congestion (No. of married couple requiring separate room/house)	1.97	-	1.97
3.	Replacement/up gradation of katcha/Unserviceable katcha houses	13.11	11.41	1.70
4.	Obsolescence/ replacement of houses	2.01	-	2.01
	Total	24.68	14.12	10.56

Statement 3.14

Housing Stock, Households and Housing Shortage in Urban India

(in Million)

	1991	1997	1998	1999	2000	2001
Pucca	29.8	40.07	42.13	44.28	46.55	41.17
Semi Pucca	6.2	6.64	6.72	6.80	6.83	8.08
Kutchha	3.2	3.35	3.37	3.40	3.42	2.74
House holds	40.7	50.08	51.85	53.67	55.56	55.8
Housing Shortage	8.23	7.57	7.36	7.18	6.93	10.56

Statement 3.15

Percentage distribution of households by number of rooms occupies

No. of rooms occupied	Percentage distribution of households									
	1961		1971		1981		1991		2001	
	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural
One room	53.1	48.1	50.0	47.3	45.8	44.3	39.6	40.8	35.1	39.8
Two room	24.7	26.8	27.0	28.5	27.8	28.9	30.4	30.6	29.5	30.2
Three room	10.3	11.5	11.4	12.1	12.2	12.3	12.8	13.5	17.1	13.3
Four or more Rooms	11.1	12.0	11.4	12.0	12.1	12.1	14.7	14.0	16.0	13.3
No exclusive rooms and unspecified room	0.9	1.6	0.2	0.1	2.1	2.4	0.5	1.1	2.3	3.4
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Statement 3.16

Number of Houseless Household and house less population

(in lakhs)

Year	Houseless households			Houseless Population		
	Total	Rural	Urban	Total	Rural	Urban
1961	-	-	-	12.65	9.70	1.95
1971	5.65	3.88	1.77	19.86	15.20	4.66
1981	6.16	4.13	2.03	23.43	17.24	6.19
1991	5.22	3.05	2.17	20.07	12.82	7.25
2001	4.48	2.60	1.88	19.44	11.65	7.89

Statement 3.17

Percentage distribution of Houses by type of structure during 1961-2001

Type of structure	Percentage distribution of houses							
	1971		1981		1991		2001	
	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural
Pucca	63.8	19.0	64.6	21.1	75.8	33.0	79.2	41.0
Semi Pucca	23.5	37.0	24.3	37.6	15.8	34.2	15.6	35.8
Kutcha (serviceable)	12.7	32.0	11.1	29.0	8.4	22.8	3.2	14.8
Kutcha (unserviceable)	-	12.0	-	12.3	-	10.0	2.0	8.4
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Statement 3.18

Growth of Households by type of structure

Year	Total (in mm)	Pucca (mm)	% Share	Semi Pucca (mm)	% Share	Katcha (mm)	% Share
Rural							
1961	65.2	12.1	18.6	23.1	35.4	30.0	46.0
1971	74.4	14.1	18.1	27.9	37.5	32.4	44.4
1981	88.7	18.8	22.6	33.3	36.8	36.6	40.5
1991	111.5	34.1	30.6	39.7	35.7	37.7	33.8
2001	138.3	56.8	41.0	49.4	35.7	32.0	23.1
Urban							
1961	14.0	6.3	45.0	4.9	35.0	2.8	20.0
1971	18.5	11.8	64.0	4.3	23.3	2.4	12.8
1981	28.0	18.1	64.7	6.8	21.8	3.1	13.5
1991	39.3	28.7	72.8	6.9	17.7	3.7	9.6
2001	53.7	42.6	79.3	8.2	15.4	2.8	5.2

Statement 3.19

Production of selected building materials during different years

Building materials	Unit	1998-99	1999-2000	2000-01	2001-02	2002-03
Cement (All kinds)	Million Tones	88.0	100.4	99.5	106.9	116.3
Steel (Finished)	Thousand tones	24.7	28.5	30.3	31.1	34.5
A.C Sheet	"	975	1094	1097	1195	1248
Paints, Enamel and varnishes	Tones	315325	388215	475312	393596	384842
Plywood (commercial)	Thousand sq.mts.	52341.5	27946.2	15809.0	9879.3	8913.7
Glazed Tiles Ceramic Tiles	Tones	540033	881759	787968	698169	718320
C. I Casting	Tones	144283	144627	153721	127791	146779
Asbestos cement pressure pipes	Thousand tones	248	208	114	138	139

Statement 3.20

Wholesale Price Index for Building materials

Year	Base	Fire Bricks	Cement	Asbestos Cement corrugated sheets	Iron & Steel	Bars & Rods	Pipes & Tubes
1998-99	1993-94=100	118.7	130.9	113.5	132.8	131.3	121.4
1999-00	1993-94=100	118.7	128.4	107.0	134.5	130.2	122.3
2000-01	1993-94=100	125.9	136.6	106.2	136.8	130.6	132.2
2001-02	1993-94=100	136.8	148.7	110.2	136.6	132.8	130.7
2002-03	1993-94=100	136.8	145.3	108.8	143.5	138.8	131.5
2003-04	1993-94=100	136.8	147.1	106.6	181.1	177.0	161.5
2004-05	1993-94=100	150.8	152.8	107.1	232.9	236.5	188.9

Statement 3.21

Contribution of Housing to National Income

(Rs. Crore)

Year	GDP of Dwelling (At current Price)			GDP at Factor Cost	% of Total GDP to GDP at Factor Cost
	Rural	Urban	Total		
1993-94	18917	24590	43507	781345	5.6
1994-95	19896	27310	47206	917058	5.1
1995-96	20620	30279	50899	1073271	4.7
1996-97	21759	33621	55380	1243546	4.5
1997-98	22853	36863	59716	1390148	4.3
1998-99	24770	42798	67568	1598127	4.2
1999-00	27287	50277	77564	1761838	4.4
2000-01	29731	57528	87259	1902999	4.6
2001-02	31907	65076	96983	2081474	4.7
2002-03	33659	71860	105519	2254888	4.7
2003-04	35300	78770	114070	2519785	4.5

Statement 3.22

At 1993-94 Prices

(Rs. Crore)

Year	GDP of Dwelling (At current Price)			GDP at Factor Cost	% of Total GDP to GDP at Factor Cost
	Rural	Urban	Total		
1993-94	18917	24590	43507	781345	5.6
1994-95	19270	25436	44706	838031	5.3
1995-96	19647	26311	45958	899563	5.1
1996-97	20033	27219	47252	970083	4.9
1997-98	20430	28155	48585	1016595	4.8
1998-99	20717	29123	49840	1082747	4.6
1999-00	21099	30127	51226	1148367	4.5
2000-01	21486	31164	52650	1198592	4.4
2001-02	21874	32238	54112	1267945	4.3
2002-03	22269	33344	55613	1318362	4.2
2003-04	22669	34489	57158	1430548	4.0

Statement 3.23
Capital Formation in Housing
(At 1993-94 Prices)

(Rs. Crore)

Year	Gross Fixed Capital Formation in Housing				Total Gross Domestic Capital Formation	Total Domestic Product at Factor cost
	Private		Public			
	Residential	Non Residential	Residential*	Non Residential		
1993-94	19381	13179	1066	6608	198412	781345
1994-95	20191	14431	1175	7198	243882	838031
1995-96	20925	17005	1162	7844	271015	899563
1996-97	22828	17734	1250	7789	268435	970083
1997-98	24297	23691	1192	7722	289058	1016595
1998-99	25060	24315	1269	8743	290971	1082747
1999-00	24213	26353	1460	8963	351624	1148367
2000-01	25886	27949	979	7766	346682	1198592
2001-02	26195	32064	871	8612	336486	1267945
2002-03	26948	33458	1010	7973	395163	1318362
2003-04	26545	36124	1545	10165	449539	1430548

* Doesn't include Public Sector enterprises

Statement 3.24
Capital Formation in Housing
(At Current Prices)

(Rs. Crore)

Year	Gross Fixed Capital Formation in Housing				Total Gross Domestic Capital Formation	Total Domestic Product at Factor cost
	Private		Public			
	Residential	Non Residential	Residential*	Non Residential		
1993-94	19381	13179	1066	6608	198412	781345
1994-95	21604	15536	1269	7748	263356	917058
1995-96	26151	20741	1113	9837	319527	1073271
1996-97	29841	22795	1613	10048	334999	1243546
1997-98	32870	31643	1613	10447	374480	1390148
1998-99	35328	35521	1818	12529	393021	1598127
1999-00	38152	39884	2154	13219	490669	1761838
2000-01	42210	43609	1507	12195	498179	1902999
2001-02	45938	52439	1412	14188	513543	2081474
2002-03	48434	56093	1680	13495	610288	2254888
2003-04	50545	65505	2804	18690	72868	2519785

* Doesn't include Public Sector enterprises

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