

**ANNUAL SURVEY OF CONSTRUCTION**

**INDUSTRIES**

**1999**

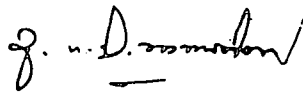
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## PREFACE

The first survey of Construction Industry was conducted in 1993 with the assistance of Institute for Construction Training and Development (ICTAD ). Thereafter the Department continues to conduct the survey annually to cater the needs of National Planners and other data users.

This publication provides the results of 1999 survey on which the reference period was 1998. The frame for this survey was the list of contractors registered with ICTAD and Local Authorities. The list of plan approvals ( building permit issued ) of the local authorities in the year 1998 and 1997 are also included.

Any suggestion to improve this survey and report is most welcome.



A.G.W. Nanayakkara,  
Director General of Census & Statistics.  
Department of Census & Statistics,  
No. 15/12, Maitland Crascent,  
P. O. Box 563,  
Colombo.  
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## ACKNOWLEDGEMENT

The planning, collection and processing of data was done by the staff of the Industry and Construction Division under the guidance of Mr. D.J.C.S. Jayalath, former Deputy Director and under the direction of Mrs. A. B. S. Fernando, Senior Statistician with the assistance of Mr. D.S.S. Gunawardana, Statistician.

Computer Data Processing was done by Mr. W.F.M.J. Fernando Statistician using the Software Package Dbase III+ and the statistical tables were obtained by Mr. R.D.N. Premawansa, Statistical Officer using the software package SPSS/PC+.

Editing and coding of data was done by Mrs K. A. P. Deepanie and Miss W. S. D. Jayasundara, Statistical Officers under the direct supervision of Mr. D. S. S. Gunawardana, Statistician.

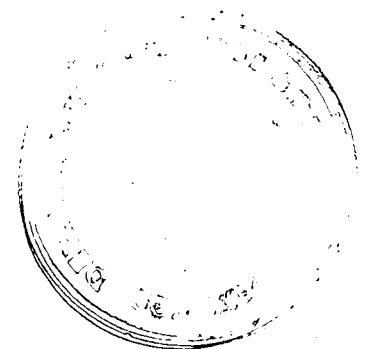
Data collection of the follow up stage was done by the Statistical Officers attached to the divisional secretariats and the Industry and Construction Division of the Department under the supervision of District Statisticians/Statistical Officers and Staff officers of the Industry and Construction Division, respectively.

Preparation of this publication was done by Mr. D.S.S. Gunawardana, Statistician using the Apple Macintosh software system, under the guidance of Mr. D. C. A. Gunawardana, Acting Deputy Director of the Industry and Construction Division.

Acknowledgements are also due to Mr. Galahitiyawa, Deputy Director and his staff for printing this report within a short period.

The publication of this report and conducting of the survey were done under the overall guidance of Mrs. Suranjana Vidyarthna, Director (Statistics) 2.

The co-operation given by the respondents is also much appreciated.



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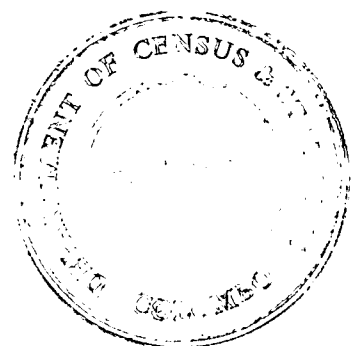
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# Survey of Construction Industry - Sri Lanka 1999

## 1. Introduction

Survey of Construction Industry was conducted in 1993 for the first time in Sri Lanka mainly to furnish data regarding input, output and their trends to the Institute for Construction Training and Development (ICTAD). The Department of Census and Statistics continues to conduct the survey annually to cater the requirements of the data users along with the rapid development of the construction industry in Sri Lanka. However due to the unsettled conditions, the survey of construction industries could not be fully conducted in Northern and Eastern Province. Therefore, in this report all information are given only for the Province where the survey had been conducted.

## 2. Scope and Coverage

In this survey, all construction activities undertaken by the contractors registered with ICTAD and Local Authorities are covered. The plan approvals for building construction (building permit issued) of the local authorities during the year 1998 and 1997 are also covered. Therefore the construction activities undertaken by other private contractors and informal construction activities are excluded from this survey.

Information is collected relating to the following sectors of the construction industry.

- i. Building construction
- ii. Highway construction
- iii. Bridge construction
- iv. Water supply & water work
- v. Irrigation & canal development
- vi. Reclamation of low lying areas
- vii. Other construction

Above construction activities are categorized under Civil Engineering activities except building construction.

## 3 Methodology

The Survey of Constructions Industries was aimed to cover 1300 sample Units in all provinces except some districts in northern and eastern provinces during the reference year 1998. The department used very simple questionnaire for this survey considering the difficulties to obtain the information of construction activities.

The questionnaire was posted to selected contractors in order to collect information such as, value of contract, value of work done, expenditure for work

Field follow up for non responding contractors was done by using the trained Statistical officers attached to respective Divisional Secretary Divisions and Industry & Construction Division under the supervision of Statisticians and Statistical Officers in each District.

#### 4. Frame

List of contractors registered with the ICTAD which was used as the frame for the Survey of Construction Industry - 1993, has been used as the frame for this year after revising as at December 1998. As this frame seemed to be incomplete, the contractors registered with the Provincial Councils and the list of plan approval of the local authorities were also added to the ICTAD list of contractors.

#### 5. Sample Design

Stratified systematic sampling method was used for the survey and the list of contractors registered with the ICTAD was divided into 6 strata according to the grading system of ICTAD considering the financial terms. Contractors categorized under grade 1 to grade 4 were 100% canvassed and a probability sample was selected from other contractors and building permit holders as mentioned below.

Sample Frame		Sample fraction	Sample Size
1. List of contractors registered with ICTAD (as at december 1998)	i	100.0%	122
	ii	16.6%	274
2. List of contractors registered with Local Authorities		12.7%	200
3. List of plan approvals of Local Authorities in 1998	i	0.8%	163
	ii	5.0%	241
4. List of plan approvals of Local Authorities in 1997		1.4%	300
Total			1300

#### 6. Concepts & Definitions

##### a) Reference Period

Data relating to construction activities carried out during the calendar year 1998 or financial year 1998/99.



b) Number of Persons Engaged

This refers to the average number of persons engaged during the reference period, including working proprietors, active business partners, unpaid family workers and other paid workers.

d) Output

Value of work done during the year 1998

e) Input

Expenditure on goods (raw materials) & services = goods + services + other expenses

f) Value Added

Value added the increment to the value of commodities and services that is contributed by the contractor. It is computed as follows.

Output - Input = Value added

## 7. Survey Results

The Survey of Construction Activities does not cover all construction activities carried out during the reference period in the island. The survey covers building construction activities carried out within MCC, UCC and some selected rural areas with the approval of the local authority concerned on one hand and all the construction activities carried out by the contractors registered with ICTAD as well as the Local Authorities.

Therefore it is clear that;

- a. The construction activities other than carried out by the ICTAD and Local Authority registered contractors such as construction of houses in the rural sector,
- b. The construction activities carried out in the urban sector without the approval of the local authority,
- c. Large scale construction activities carried out by international contractors, are not covered by this survey.

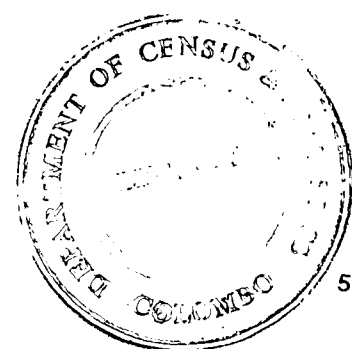
It should also be noted that there may be a duplication of the building construction activities if an ICTAD registered contractor has built a house in an urban area where plan approval is compulsory.

All enterprises engaged in the construction sector activities in Sri Lanka which are registered with the ICTAD are covered in this study. Both in public sector and private sector enterprises, 55% per cent of the value of work done was through the building construction activities. Activities related to water supply & drainage and construction of highways registered next to building activities in both public and private sector. (table 2)

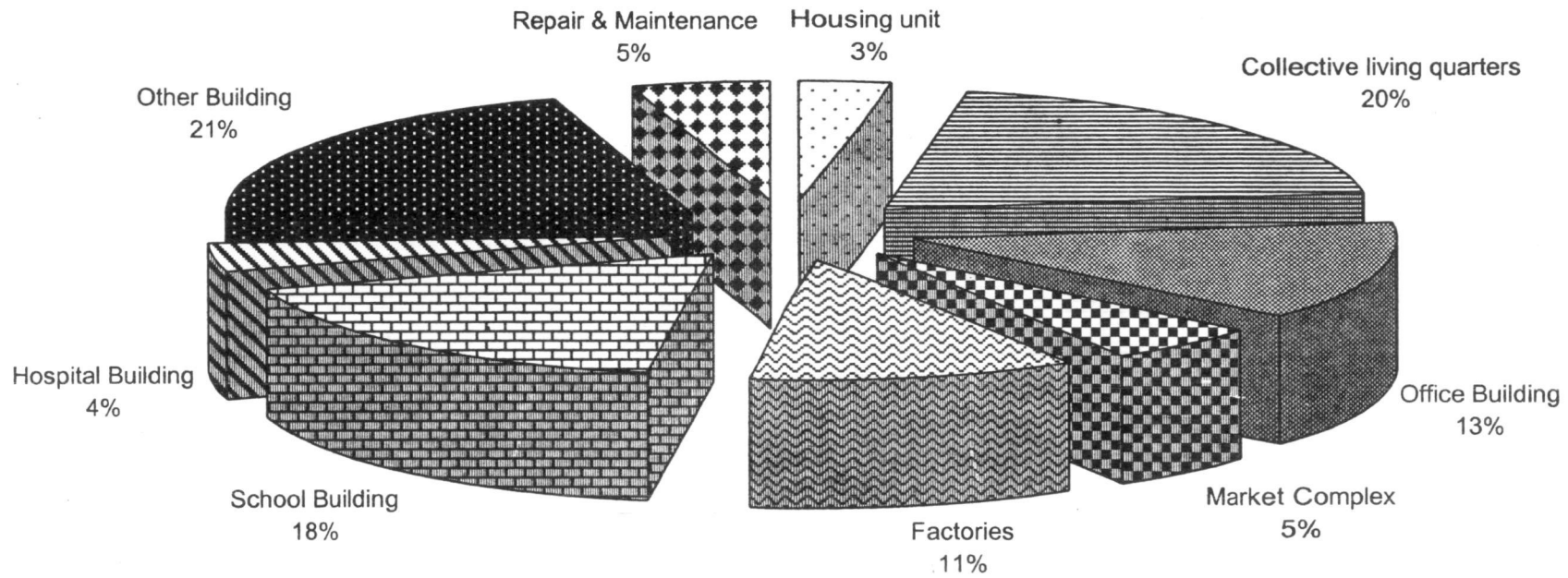
It is evident in the 3rd table that the highest value of work done reported from Colombo district and it was over (40%) forty per cent of the total output. Ratnapura and Gampaha districts contributed to 8.5% per cent and 7.9 per cent to total value of work done respectively .

**Table 1 : Value of contract classified by type of construction activity - 1998  
(Taken by contractors)**

Type of construction activity		Value of contract	
		Rs.	%
<b>Building</b>	<b>Group Total</b>	<b>12,598,913,113</b>	<b>60.2</b>
	Housing units	342,149,433	1.6
	Collective living quarters	2,540,246,417	12.1
	Office Building	1,665,767,737	8.0
	Market Complex	657,858,046	3.1
	Factories	1,383,420,592	6.6
	School Building	2,259,842,642	10.8
	Hospital Building	481,083,012	2.3
	Other Building	2,674,304,814	12.8
	Repair & Maintenance	594,240,420	2.8
	<b>Highway</b>	<b>Group Total</b>	<b>2,039,287,936</b>
Maintenance		1,047,238,522	5.0
Repair & Maintenance		992,049,414	4.7
<b>Bridge</b>	<b>Group Total</b>	<b>1,765,025,666</b>	<b>8.4</b>
	Bridge	1,756,176,795	8.4
	Culvert	128,871	.0
	Repair & Maintenance	8,720,000	.0
<b>Water supply &amp; Drainage</b>	<b>Group Total</b>	<b>1,526,363,415</b>	<b>7.3</b>
	Water supply	1,514,746,141	7.2
	Repair & Maintenance	11,617,274	.1
<b>Irrigation &amp; Land Drainage</b>	<b>Group Total</b>	<b>158,658,236</b>	<b>.8</b>
	Anicut	95,405,684	.5
	Irrigation canal	3,073,500	.0
	Repair & Maintenance	60,179,052	.3
<b>Dredging &amp; Reclamation</b>	<b>Group Total</b>	<b>678,353,275</b>	<b>3.2</b>
	Filling	678,353,275	3.2
<b>Other</b>	<b>Group Total</b>	<b>2,159,875,159</b>	<b>10.3</b>
	Other Construction	2,159,875,159	10.3
<b>Grand Total</b>		<b>20,926,476,801</b>	<b>100.0</b>



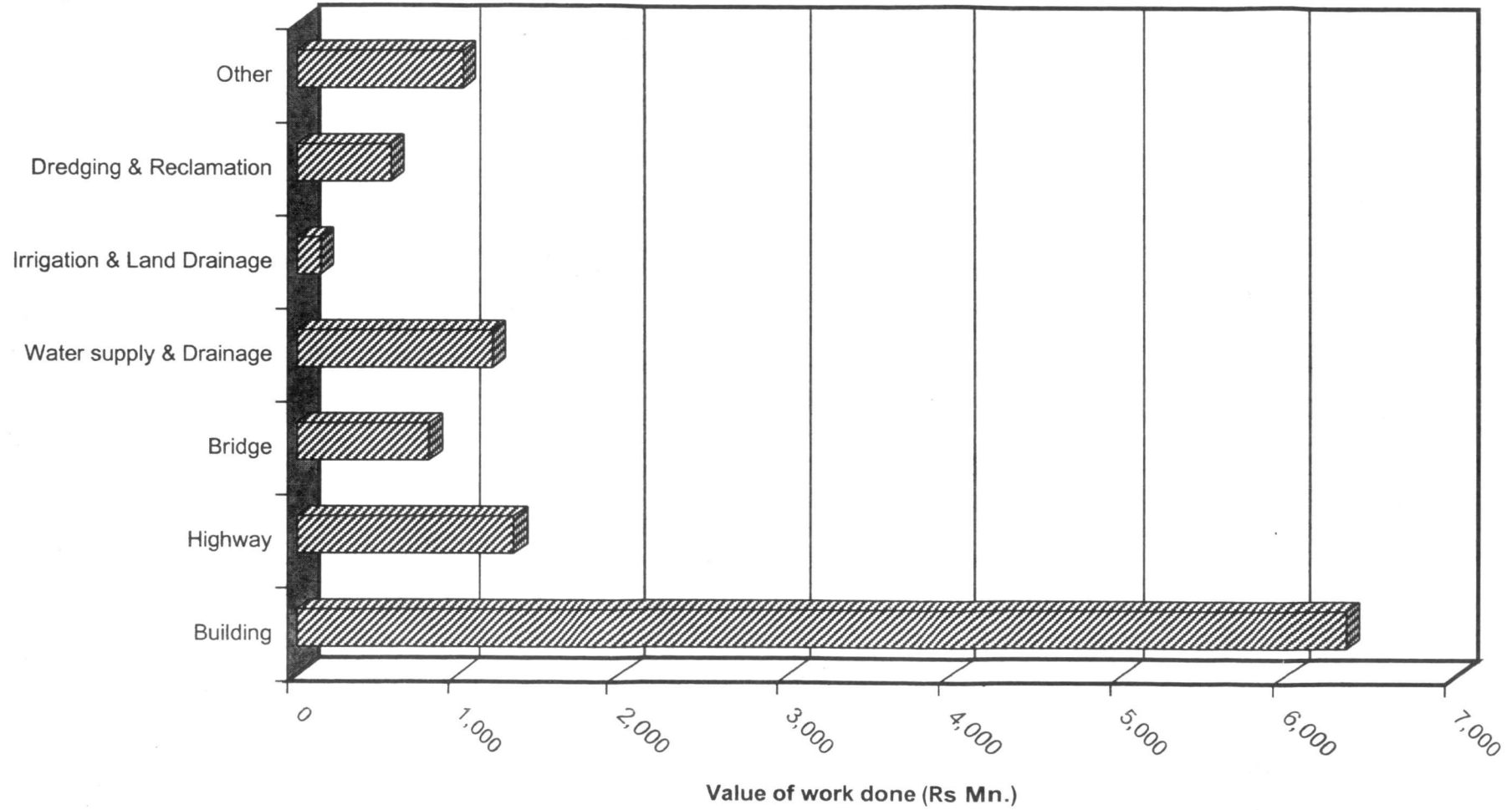
**Chart 1 : Value of Contract of Building Construction - 1998  
(Taken by contractors)**



**Table 2 : Value of work done classified by type of construction activity - 1998  
(constructed by contractors)**

Type of construction activity		Value of work done				Total	
		Private sector		State sector		Rs.	%
		Rs.	%	Rs.	%		
<b>Building</b>	<b>Group Total</b>	<b>1,863,094,003</b>	<b>52.5</b>	<b>4,474,741,896</b>	<b>56.3</b>	<b>6,337,835,900</b>	<b>55.1</b>
	Housing units	130,865,660	3.7	165,774,226	2.1	296,639,885	2.6
	Collective living quarters	311,565,821	8.8	672,708,221	8.5	984,274,042	8.6
	Office Building	145,660,661	4.1	844,630,703	10.6	990,291,364	8.6
	Market Complex	156,078,929	4.4	111,650,371	1.4	267,729,300	2.3
	Factories	456,822,371	12.9	259,064,915	3.3	715,887,286	6.2
	School Building	18,460,000	.5	1,011,450,938	12.7	1,029,910,938	9.0
	Hospital Building	.	.	243,174,036	3.1	243,174,036	2.1
	Other Building	585,398,660	16.5	742,916,359	9.3	1,328,315,019	11.5
	Repair & Maintenance	58,241,902	1.6	423,372,127	5.3	481,614,029	4.2
<b>Highway</b>	<b>Group Total</b>	.	.	<b>1,351,875,357</b>	<b>17.0</b>	<b>1,351,875,357</b>	<b>11.8</b>
	Maintenance	.	.	417,266,448	5.2	417,266,448	3.6
	Repair & Maintenance	.	.	934,608,909	11.8	934,608,909	8.1
<b>Bridge</b>	<b>Group Total</b>	.	.	<b>823,280,467</b>	<b>10.4</b>	<b>823,280,467</b>	<b>7.2</b>
	Bridge	.	.	815,521,596	10.3	815,521,596	7.1
	Culvert	.	.	128,871	.0	128,871	.0
	Repair & Maintenance	.	.	7,630,000	.1	7,630,000	.1
<b>Water supply &amp; Drainage</b>	<b>Group Total</b>	<b>690,000,000</b>	<b>19.4</b>	<b>534,873,836</b>	<b>6.7</b>	<b>1,224,873,836</b>	<b>10.6</b>
	Water supply	690,000,000	19.4	528,790,562	6.7	1,218,790,562	10.6
	Repair & Maintenance	.	.	6,083,274	.1	6,083,274	.1
<b>Irrigation &amp; Land Drainage</b>	<b>Group Total</b>	.	.	<b>149,364,888</b>	<b>1.9</b>	<b>149,364,888</b>	<b>1.3</b>
	Anicut	.	.	76,007,204	1.0	76,007,204	.7
	Irrigation canal	.	.	3,073,500	.0	3,073,500	.0
	Repair & Maintenance	.	.	70,284,184	.9	70,284,184	.6
<b>Dredging &amp; Reclamation</b>	<b>Group Total</b>	<b>467,492,300</b>	<b>13.2</b>	<b>117,942,875</b>	<b>1.5</b>	<b>585,435,175</b>	<b>5.1</b>
	Filling	467,492,300	13.2	117,942,875	1.5	585,435,175	5.1
<b>Other</b>	<b>Group Total</b>	<b>530,048,878</b>	<b>14.9</b>	<b>499,461,129</b>	<b>6.3</b>	<b>1,029,510,008</b>	<b>9.0</b>
	Other Construction	530,048,878	14.9	499,461,129	6.3	1,029,510,008	9.0
<b>Total</b>		<b>3,550,635,182</b>	<b>100.0</b>	<b>7,951,540,449</b>	<b>100.0</b>	<b>11,502,175,630</b>	<b>100.0</b>

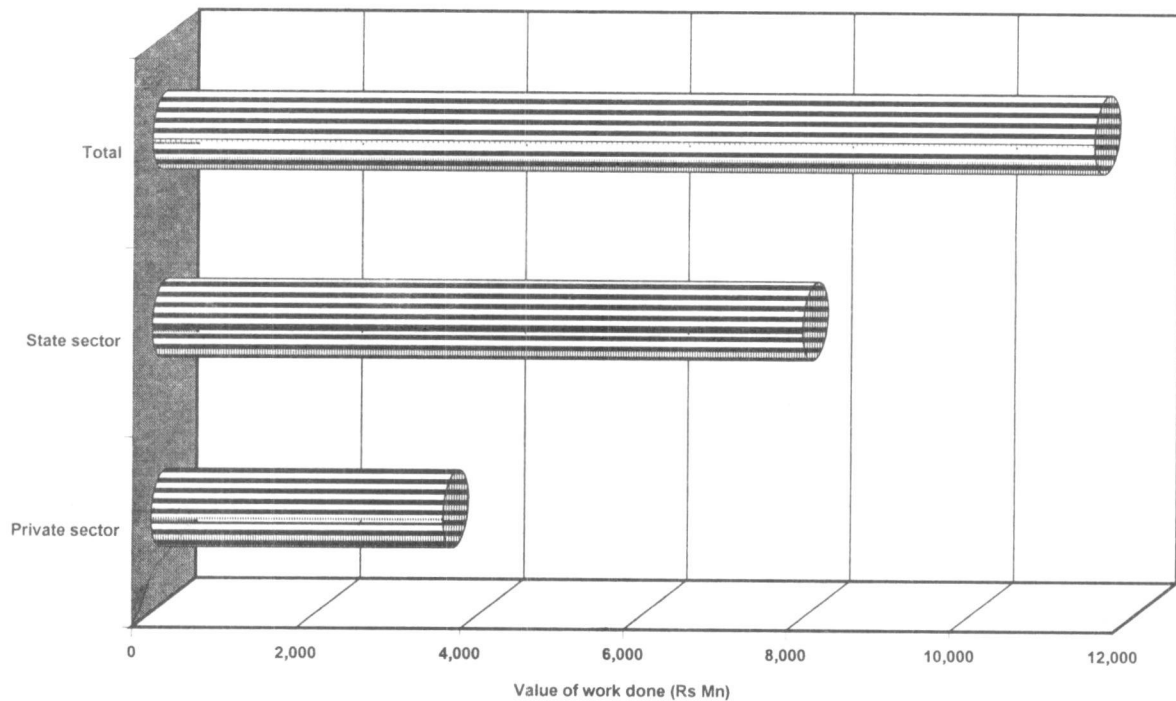
Chart 2 : Value of work done by type of construction - 1998  
(Constructed by contractors)



**Table 3 : Value of work done classified by district - 1998  
(Constructed by contractors)**

District	Value of work done				Total	
	Private sector		State sector		Rs.	%
	Rs.	%	Rs.	%		
Colombo	2,286,501,883	64.4	2,463,571,955	31.0	4,750,073,838	41.3
Gampaha	167,085,621	4.7	745,785,111	9.4	912,870,732	7.9
Kalutara	2,092,500	.1	523,091,378	6.6	525,183,878	4.6
Kandy	21,050,000	.6	648,317,335	8.2	669,367,335	5.8
Matale	.	.	136,389,130	1.7	136,389,130	1.2
Nuwara-Eliya	.	.	100,047,427	1.3	100,047,427	.9
Galle	.	.	518,060,981	6.5	518,060,981	4.5
Matara	15,712,675	.4	279,382,869	3.5	295,095,544	2.6
Hambantota	21,580,000	.6	90,331,037	1.1	111,911,037	1.0
Vavunia	6,228,810	.2	.	.	6,228,810	.1
Ampara	.	.	18,776,602	.2	18,776,602	.2
Trincomalee	187,335,793	5.3	40,211,943	.5	227,547,735	2.0
Kurunegala	.	.	863,815,955	10.9	863,815,955	7.5
Puttalam	46,800,000	1.3	300,449,636	3.8	347,249,636	3.0
Anuradhapura	5,100,000	.1	383,820,236	4.8	388,920,236	3.4
Polonnaruwa	569,900	.0	130,437,628	1.6	131,007,528	1.1
Badulla	71,786,000	2.0	355,811,405	4.5	427,597,405	3.7
Moneragala	392,000	.0	20,217,685	.3	20,609,685	.2
Ratnapura	690,000,000	19.4	283,081,396	3.6	973,081,396	8.5
Kegalle	28,400,000	.8	49,940,740	.6	78,340,740	.7
<b>Total</b>	<b>3,550,635,182</b>	<b>100.0</b>	<b>7,951,540,449</b>	<b>100.0</b>	<b>11,502,175,630</b>	<b>100.0</b>

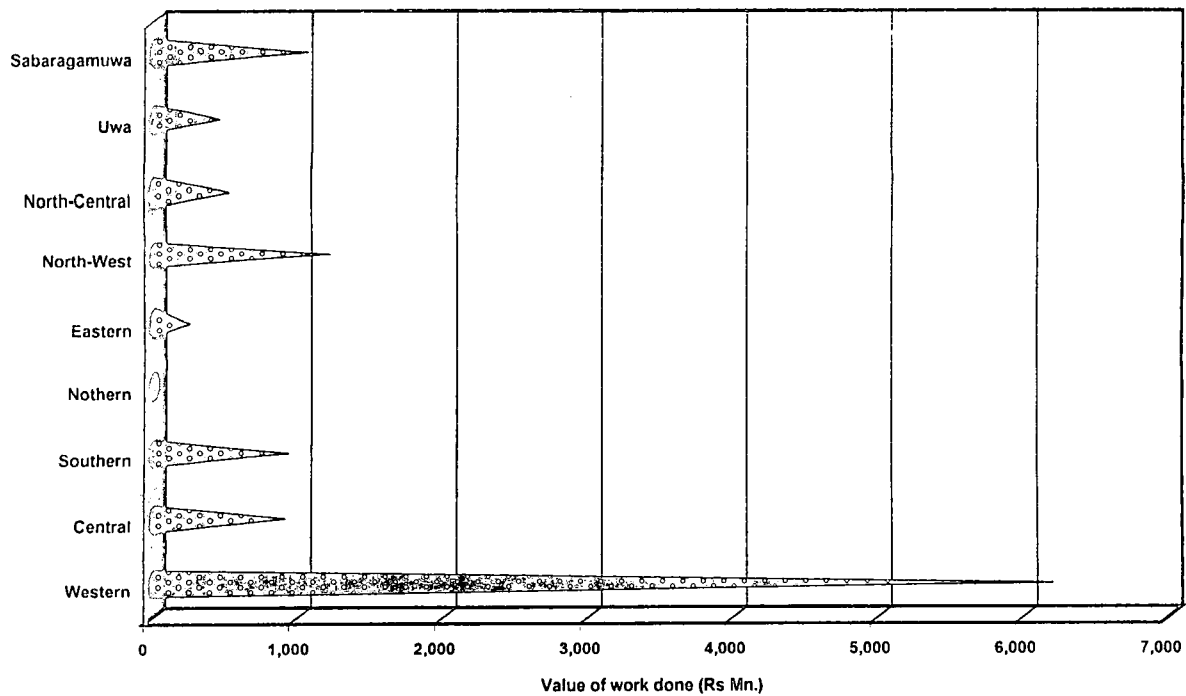
**Chart 3 : Value of work done by sector - 1998  
(Constructed by contractors)**



**Table 4 : Value of work done classified by province - 1998  
(Constructed by contractors)**

Province	Value of work done				Total	
	Private sector		State sector		Rs.	%
	Rs.	%	Rs.	%		
Western	2,455,680,004	69.2	3,732,448,444	46.9	6,188,128,448	53.8
Central	21,050,000	.6	884,753,893	11.1	905,803,893	7.9
Southern	37,292,675	1.1	887,774,887	11.2	925,067,562	8.0
Nothern	6,228,810	.2	.	.	6,228,810	.1
Eastern	187,335,793	5.3	58,988,545	.7	246,324,337	2.1
North-West	46,800,000	1.3	1,164,265,591	14.6	1,211,065,591	10.5
North-Central	5,669,900	.2	514,257,863	6.5	519,927,763	4.5
Uwa	72,178,000	2.0	376,029,090	4.7	448,207,090	3.9
Sabaragamuwa	718,400,000	20.2	333,022,136	4.2	1,051,422,136	9.1
<b>Total</b>	<b>3,550,635,182</b>	<b>100.0</b>	<b>7,951,540,449</b>	<b>100.0</b>	<b>11,502,175,630</b>	<b>100.0</b>

**Chart 4 : Value of work done by province - 1998  
(Constructed by contractors)**





**Table 5 : Raw materials consumed & salaries classified by value of work done size class - 1998**  
(Constructed by contractors)

Value of work done size class	Raw materials consumed (Rs)							Other expenditure (Rs)	Salaries (Rs)
	Cement	Sand	Metal	Bricks	Iron	Wood	Other		
less than 250,000	9,305,278	3,607,364	5,537,241	2,728,235	2,758,124	6,537,263	7,903,981	3,680,426	14,456,614
250,000 - 499,999	7,313,700	3,100,957	5,427,078	2,439,680	5,549,306	4,301,668	5,286,562	6,247,888	26,783,500
500,000 - 999,999	14,753,148	4,810,605	26,441,159	7,088,734	9,917,687	7,620,318	19,239,902	7,942,376	34,752,812
1,000,000 - 14,999,999	192,841,101	84,962,277	231,811,959	81,255,169	196,337,971	149,702,310	285,964,648	271,519,587	763,331,722
15,000,000 - 49,999,999	294,510,762	53,679,269	65,737,801	108,008,004	228,316,169	141,931,525	191,200,598	205,375,028	462,763,609
50,000,000 & above	609,643,747	129,711,148	293,654,761	224,558,300	633,184,451	308,783,242	559,756,998	442,825,582	1,571,713,077
<b>Total</b>	<b>1,128,367,736</b>	<b>279,871,620</b>	<b>628,609,999</b>	<b>426,078,122</b>	<b>1,076,063,708</b>	<b>618,876,325</b>	<b>1,069,352,688</b>	<b>937,590,887</b>	<b>2,873,801,334</b>

**Table 5A : Selected indicators of construction activity - 1998**  
(Constructed by contractors)

	Value of work done in 1998 (Rs)	Raw materials consumed (Rs)	Other expenditure (Rs)	Value added (Rs)	Salaries (Rs)
Value	11,502,175,630	5,227,220,196	937,590,887	5,337,364,547	2,873,801,334

**Table 6 : Value of contract classified by floor area of the building - 1998**  
(Constructed by contractors)

Floor area (sq.feet)	Value of contract	
	Rs	%
less than 500	116,286,978	1.0
500 - 999	258,187,569	2.1
1000 - 1499	175,441,496	1.5
1500 - 1999	194,456,213	1.6
2000 & above	11,280,714,099	93.8
<b>Total</b>	<b>12,025,086,355</b>	<b>100.0</b>

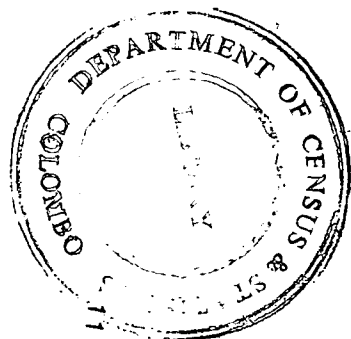
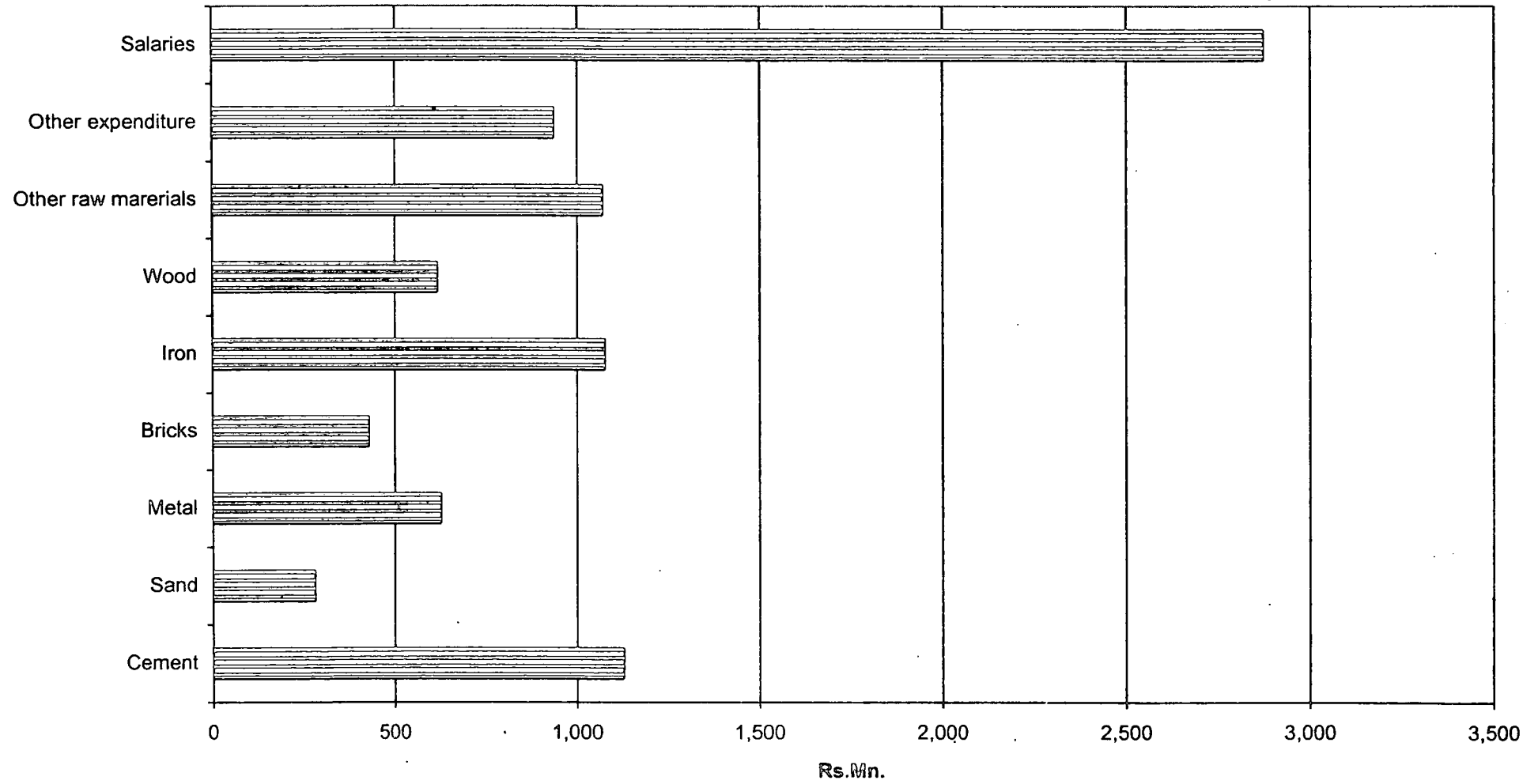


Chart 5 : Raw materials used & Salaries - 1998  
(Constructed by contractors)



**Table 7 : Value of contract classified by province & floor area of the building - 1998  
(Constructed by contractors)**

Province & Floor area (sq.feet)		Value of contract	
		Rs	%
<b>Western</b>	less than 500	51,345,393	.6
	500 - 999	138,218,519	1.7
	1000 - 1499	89,112,225	1.1
	1500 - 1999	13,211,557	.2
	2000 & above	7,829,797,083	96.4
	<b>Total</b>	<b>8,121,684,777</b>	<b>100.0</b>
<b>Central</b>	less than 500	12,354,199	1.2
	500 - 999	29,275,000	2.8
	1000 - 1499	28,275,000	2.7
	1500 - 1999	28,740,650	2.8
	2000 & above	931,089,586	90.4
	<b>Total</b>	<b>1,029,734,435</b>	<b>100.0</b>
<b>Southern</b>	less than 500	1,459,205	.1
	500 - 999	1,742,149	.2
	1000 - 1499	3,726,240	.3
	1500 - 1999	14,554,832	1.4
	2000 & above	1,045,116,783	98.0
	<b>Total</b>	<b>1,066,599,208</b>	<b>100.0</b>
<b>Nothern</b>	500 - 999	6,228,810	100.0
	<b>Total</b>	<b>6,228,810</b>	<b>100.0</b>
<b>Eastern</b>	2000 & above	344,936,800	100.0
	<b>Total</b>	<b>344,936,800</b>	<b>100.0</b>
<b>North-West</b>	less than 500	7,122,500	2.6
	500 - 999	12,598,702	4.6
	1000 - 1499	4,866,518	1.8
	1500 - 1999	10,575,000	3.8
	2000 & above	240,358,125	87.2
	<b>Total</b>	<b>275,520,845</b>	<b>100.0</b>
<b>North-Central</b>	less than 500	34,860,592	7.4
	500 - 999	12,600,000	2.7
	1000 - 1499	7,674,898	1.6
	1500 - 1999	16,900,000	3.6
	2000 & above	400,573,900	84.8
	<b>Total</b>	<b>472,609,390</b>	<b>100.0</b>
<b>Uwa</b>	less than 500	1,315,787	.4
	500 - 999	42,388,790	11.7
	1000 - 1499	23,326,615	6.4
	1500 - 1999	40,366,053	11.1
	2000 & above	254,687,523	70.3
	<b>Total</b>	<b>362,084,768</b>	<b>100.0</b>
<b>Sabaragamuwa</b>	less than 500	7,829,302	2.3
	500 - 999	15,135,600	4.4
	1000 - 1499	18,460,000	5.3
	1500 - 1999	70,108,122	20.3
	2000 & above	234,154,298	67.7
	<b>Total</b>	<b>345,687,322</b>	<b>100.0</b>

Class Number	338.09.
Accession Number	13346

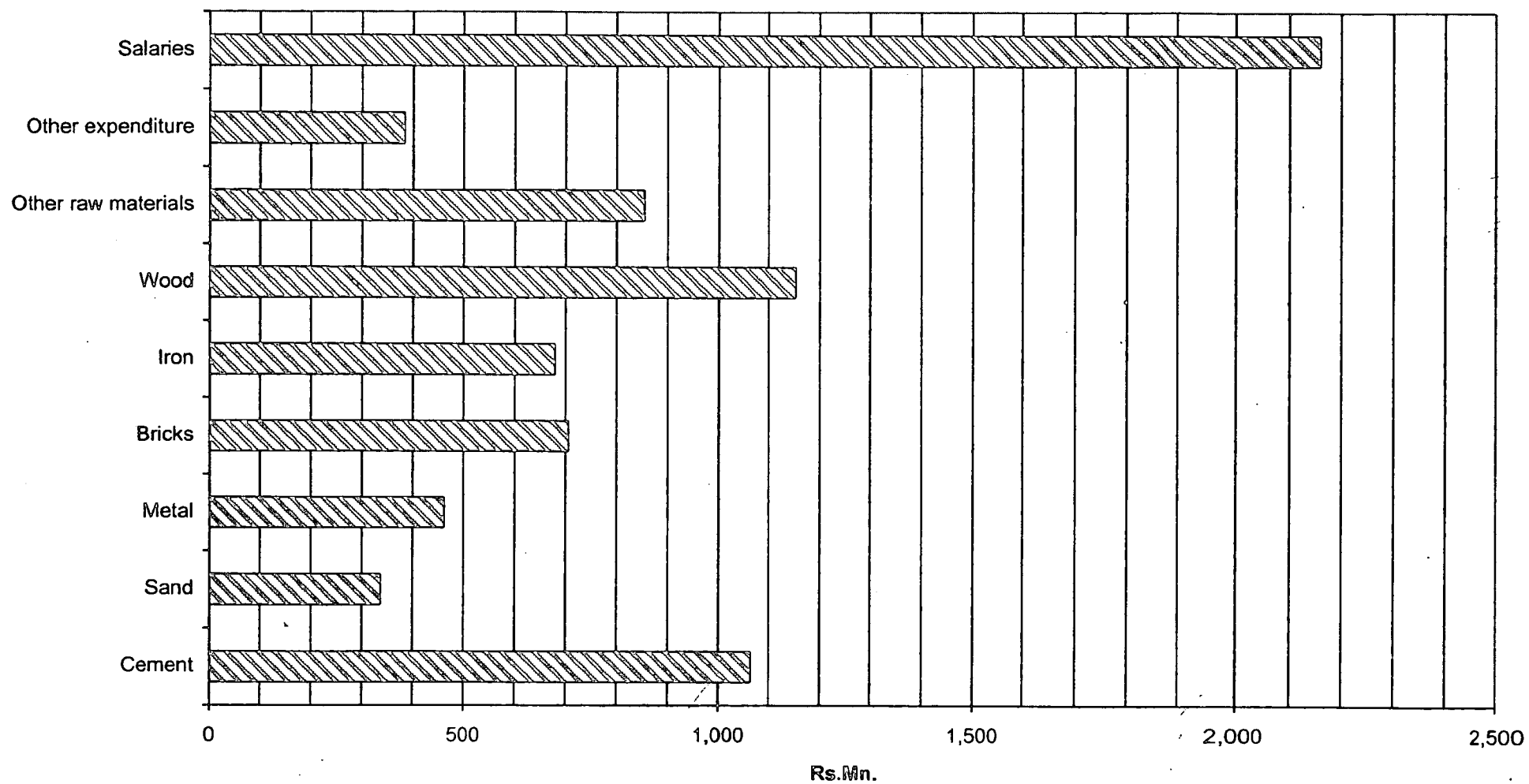
**Table 8 : Raw materials consumed & salaries classified by value of work done size class - 1998**  
(Constructed by building permit holders)

Value of work done size class	Raw materials consumed (Rs)							Other expenditure (Rs)	Salaries (Rs)
	Cement	Sand	Metal	Bricks	Iron	Wood	Other		
less than 250,000	253,553,815	109,776,979	138,527,842	168,700,489	128,718,525	288,594,979	260,183,327	104,214,015	492,085,036
250,000 - 499,999	317,995,964	97,311,015	100,684,676	184,479,897	168,740,388	296,449,702	237,510,624	117,120,596	661,156,812
500,000 - 999,999	267,140,113	83,442,817	146,287,636	209,724,137	165,180,303	284,192,116	207,510,171	52,161,824	600,077,804
1,000,000 - 14,999,999	223,986,722	46,261,550	76,525,054	142,606,202	215,165,180	284,339,880	149,024,013	110,488,190	406,427,827
<b>Total</b>	<b>1,062,676,614</b>	<b>336,792,361</b>	<b>462,025,209</b>	<b>705,510,724</b>	<b>677,804,396</b>	<b>1,153,576,677</b>	<b>854,228,134</b>	<b>383,984,925</b>	<b>2,159,747,479</b>

**Table 8A : Selected indicators of construction activity - 1998**  
(Constructed by building permit holders)

	Value of work done in 1998 (Rs)	Raw materials consumed (Rs)	Other expenditure (Rs)	Value added (Rs)	Salaries (Rs)
Value	7,914,023,790	5,252,614,114	383,984,925	2,277,424,751	2,159,747,479

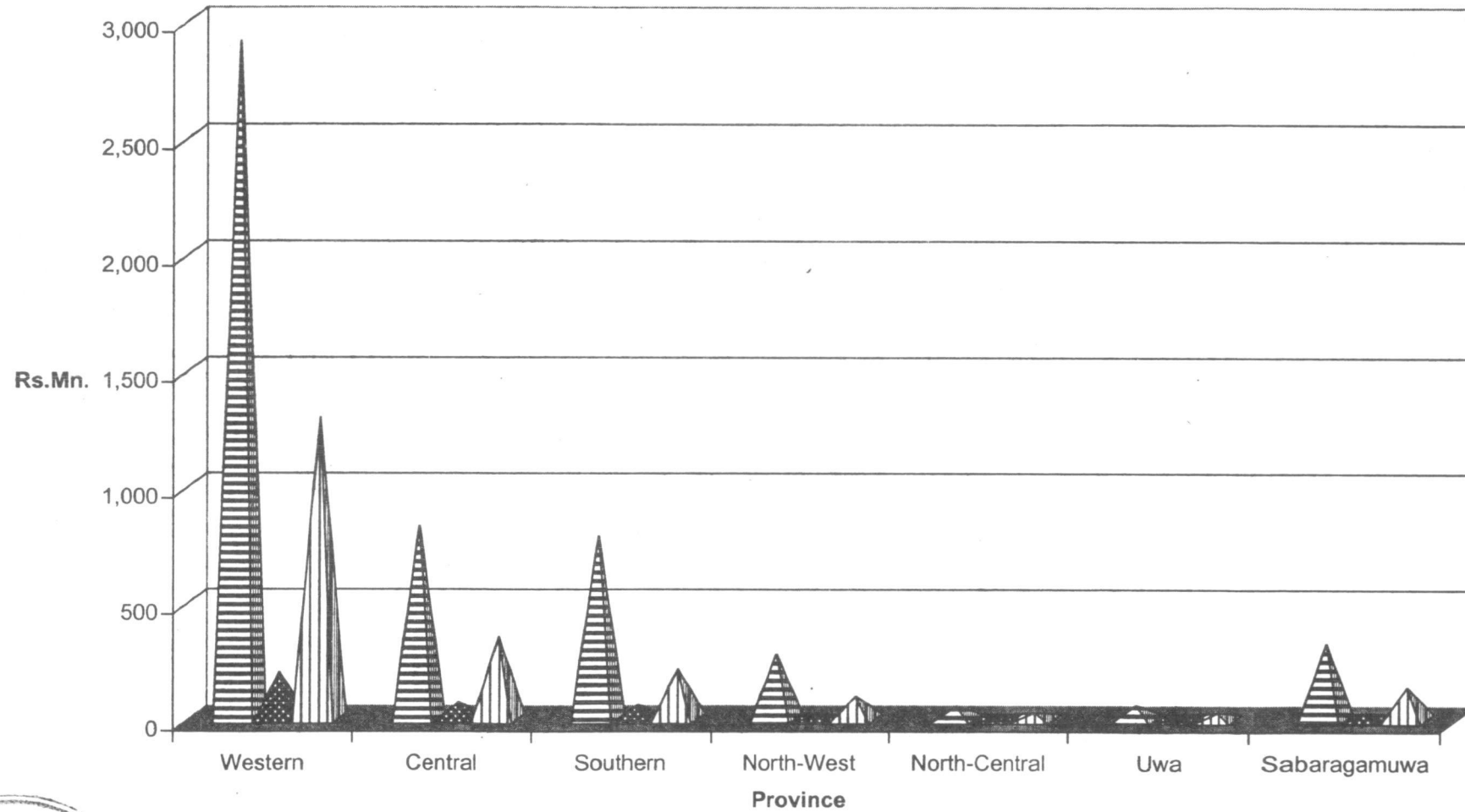
Chart 6 : Raw materials used & Salaries - 1998  
(Constructed by building permit holders)



**Table 9 : Selected indicators of building construction classified by province & district - 1998  
(Constructed by building permit holders)**

Province & District		Raw materials consumed (Rs)	Other expenditure (Rs)	Salaries (Rs)
Western	Colombo	1,513,313,070	85,439,240	714,037,650
	Gampaha	947,440,251	83,422,412	405,405,515
	Kalutara	452,242,282	32,295,951	179,988,405
	<b>Group Total</b>	<b>2,912,995,603</b>	<b>201,157,603</b>	<b>1,299,431,570</b>
Central	Kandy	482,062,211	43,111,645	205,364,686
	Matale	264,596,469	20,769,842	126,981,071
	Nuwara-Eliya	83,702,747	6,801,370	21,677,755
	<b>Group Total</b>	<b>830,361,426</b>	<b>70,682,857</b>	<b>354,023,512</b>
Southern	Galle	173,142,698	12,216,808	48,578,190
	Matara	372,701,452	33,334,815	100,832,910
	Hambantota	241,243,019	14,841,270	65,519,909
	<b>Group Total</b>	<b>787,087,169</b>	<b>60,392,893</b>	<b>214,931,009</b>
North-West	Kurunegala	138,948,511	5,670,036	50,335,026
	Puttalam	139,624,298	8,229,636	46,023,217
	<b>Group Total</b>	<b>278,572,809</b>	<b>13,899,672</b>	<b>96,358,243</b>
North-Central	Anuradhapura	21,626,570	2,153,200	14,928,850
	Polonnaruwa	33,264,000	3,126,400	13,068,000
	<b>Group Total</b>	<b>54,890,570</b>	<b>5,281,600</b>	<b>27,996,850</b>
Uwa	Badulla	32,114,425	3,143,700	11,517,800
	Moneragala	28,645,330	1,275,470	16,111,200
	<b>Group Total</b>	<b>60,759,755</b>	<b>4,419,170</b>	<b>27,629,000</b>
Sabaragamuwa	Ratnapura	179,729,860	16,028,610	81,229,900
	Kegalle	148,216,922	12,122,520	58,147,397
	<b>Group Total</b>	<b>327,946,782</b>	<b>28,151,130</b>	<b>139,377,297</b>
<b>Total</b>		<b>5,252,614,114</b>	<b>383,984,925</b>	<b>2,159,747,479</b>

**Chart 7 : Selected indicators of building construction by province - 1998**  
**(Constructed by building permit holders)**



▨ Raw materials consumed (Rs) ▩ Other expenditure (Rs) ▪ Salaries (Rs)



Table 10 : Distribution of materials used for roof, wall & floor of constructed building - 1998  
(Constructed by building permit holders)

Materials		Units	%
Roof	Tiles	9,214	35.8
	Asbestoes	11,045	43.0
	Other	5,444	21.2
<b>Group Total</b>		<b>25,704</b>	<b>100.0</b>
Wall	Cement bricks	20,946	84.5
	Other bricks	2,563	10.3
	Other	1,282	5.2
<b>Group Total</b>		<b>24,791</b>	<b>100.0</b>
Floor	Cement	12,533	44.5
	Terrazzo / Ceramics	15,360	54.5
	Other	300	1.1
<b>Group Total</b>		<b>28,193</b>	<b>100.0</b>

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2012	✓
2013	
2014	
2015	
2016	

Chart 8 : Materials used for roof - 1998

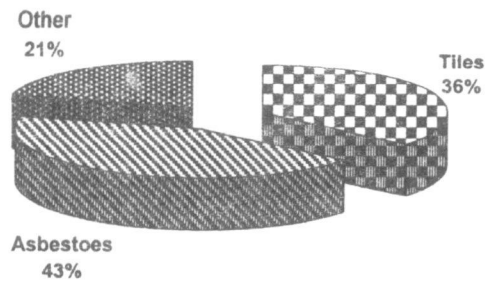


Chart 9 : Materials used for wall of building - 1998

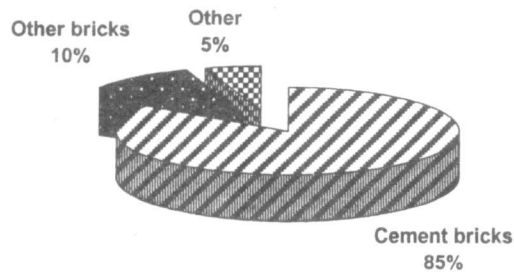
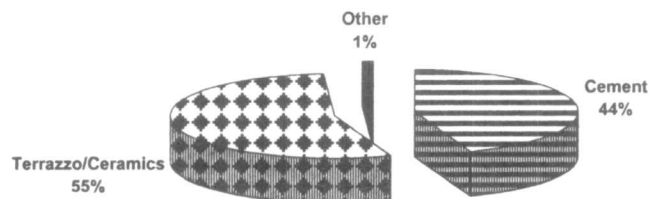


Chart 10 : Materials used for floor of building - 1998



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