



GOVERNMENT OF KERALA

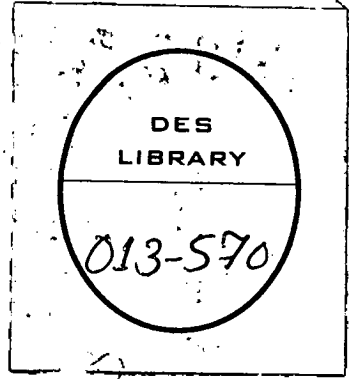
**REPORT ON THE SURVEY  
ON HOUSEHOLD CON-  
STRUCTION ACTIVITIES  
IN KERALA - 1980-81**

DEPARTMENT OF  
ECONOMICS & STATISTICS  
MARCH, 1985

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GOVERNMENT OF KERALA



REPORT ON THE SURVEY ON  
HOUSEHOLD CONSTRUCTION ACTIVITIES IN KERALA  
1980-81

ISSUED BY  
THE DIRECTORATE OF ECONOMICS AND STATISTICS  
1984.

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THE OFFICE OF THE ATTORNEY GENERAL  
STATE OF TEXAS

## P R E F A C E

Construction of new buildings for residential and non-residential purposes, renovation and addition of existing ones and other construction activities has become an important segment of Kerala economy both in terms of its contribution to State income and generation of employment. Though some data on construction activities carried out in the public sector and in the household sector in the municipal areas are available, there is practically no data on the construction activities in the household sector of rural areas where there has been a hectic house building activities in recent years consequent on the large remittances from keralites working in Gulf Countries. It was in this context that the Government of Kerala has decided to conduct a sample survey to collect basic data on construction activities undertaken by the household and private non-household agencies during 1980-81. The report was prepared by Shri G. Somasekharan Nair and Shri N.V. George, Joint Directors.

I hope the data contained in this report will be very much useful not only for estimating the State income but also for realistic planning of the production and distribution of building materials.

Trivandrum:  
7--3--1985:

N. GEORGE JOHN  
DIRECTOR OF ECONOMICS & STATISTICS

Report of the Survey on Construction Activities

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Report of the Survey on Construction Activities

C O N T E N T S

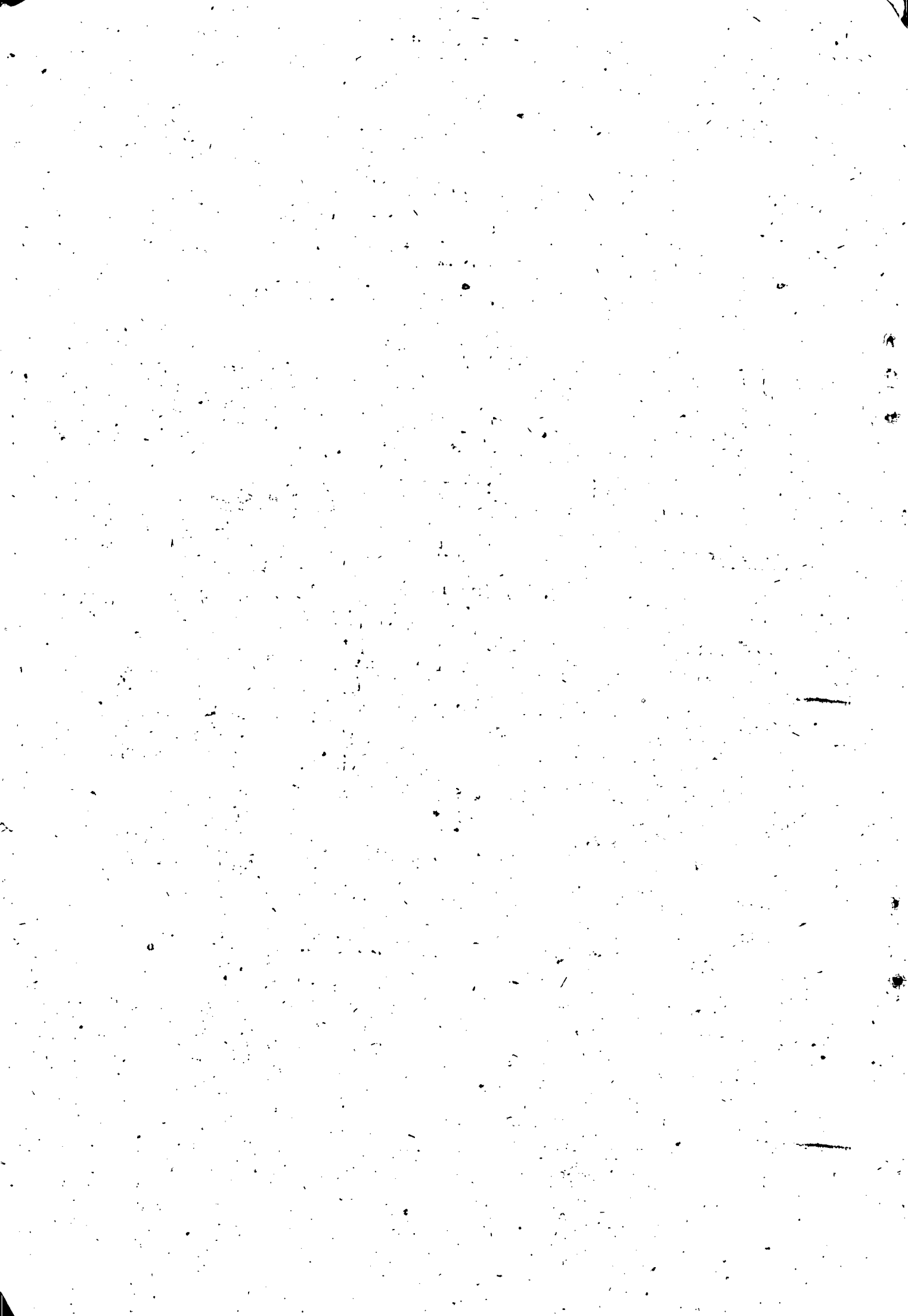
Chapter	Title
1	Background
2	Design and conduct of survey
3	Findings of the survey
4	Summary and conclusions

A P P E N D I X

1	Detailed Tables
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C O N T E N T S

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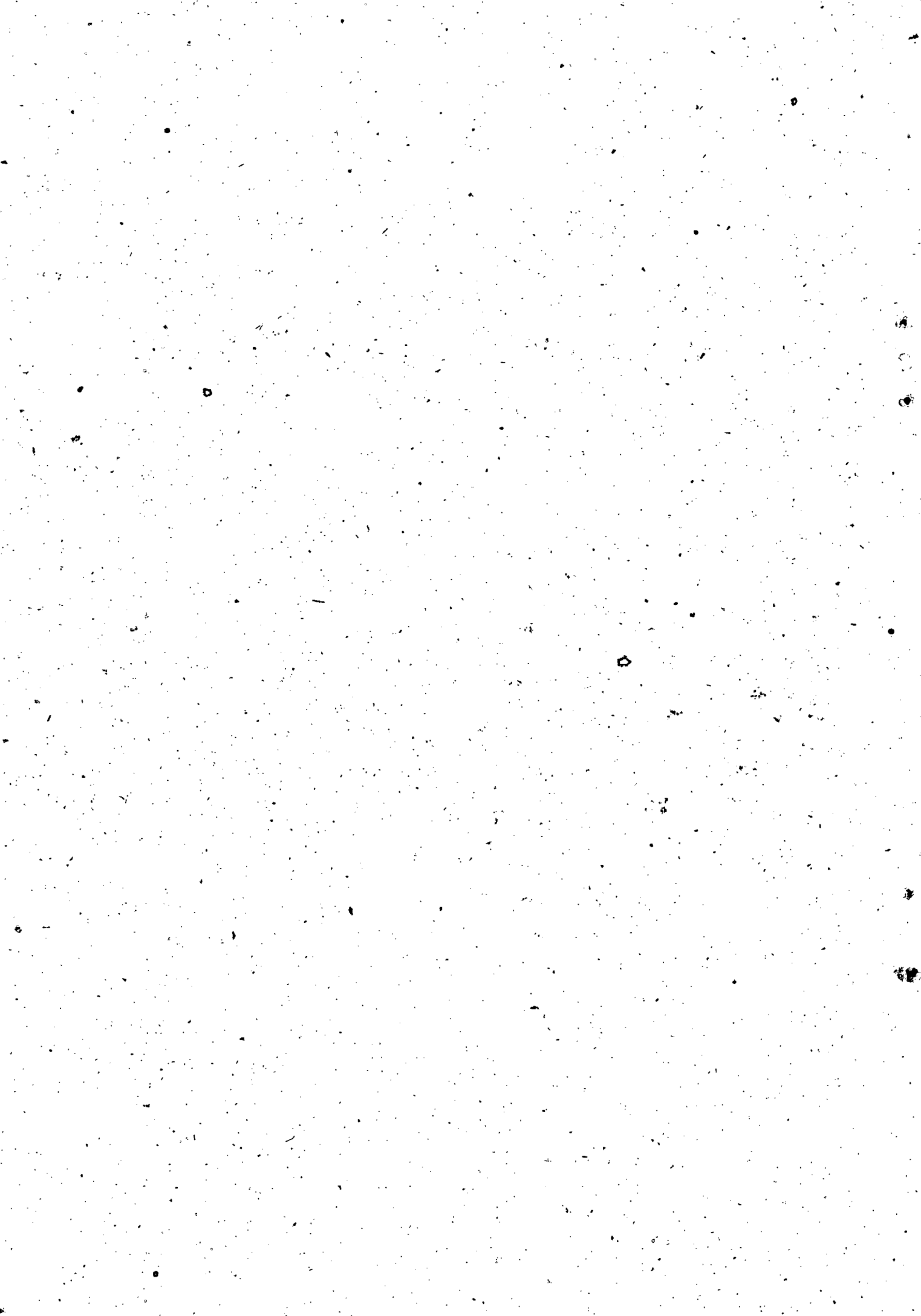
Chapter I

Background

Introduction:

- 1.1 One of the major problems facing every country - developed as well as developing - is that of providing accommodation to its people. With the increasing population year by year, the problem becomes acute in the case of developing countries like India where millions are left houseless even after more than three decades of planning. Construction of new buildings for residential and non-residential purposes, renovations and additions to the existing ones and other construction activities in the non-building sector have acquired added significance not only in terms of the percentage contribution towards the national income (4 to 6%) but also in terms of generation of employment to the people both directly and indirectly.
- 1.2 Construction activities of different types are being carried out by public sector undertakings, Public and Private Corporate bodies, Private non-household agencies such as trusts, religious and other institutions and by households. In spite of the importance of the construction sector in the economy of the country as well as that of the State, basic information relating to the different activities of the sector are either incomplete or lacking. Some items of information relating to the construction activities of the public and private undertakings can be collected from different official sources. But even such information regarding the household sector is not available at present.
- 1.3 Estimates of the State Income for Kerala during 1977-78 reveal that the construction sector accounts for nearly 3.48 percent at current prices and only 3.45 percent at constant prices indicating the growing importance of the sector especially during the period from 1970-71 onwards. The 1971 census reveals that nearly 1.73 percent of the working force was employed in the sector on a regular basis. A census of housing and employment conducted in the state in 1980, under the employment generation scheme, has revealed that nearly 4.40 lakhs houses out of 40.66 lakhs covered were less than two years of age. This indicates that the number of houses in the state has increased from 36.26 lakhs to 40.66 lakhs during a period of two years giving an average annual rate of increase of 6.07 percent. The number of houses constructed, by the house construction programmes of the different agencies of involved, during 1980-81 was only 47095 (Economic Review 1981) as against an annual estimate of nearly 2.2 lakhs new constructions. The above analysis reveal that bulk of the new constructions during each year is done by the un-organised household sector for which no data are available at present.
- 1.4 Under this background, it was felt desirable that reliable data on the construction activities in the State in the different sectors should be made available so as to improve the data base of this important sector. This information will be very useful not only for estimating the state income, but also for realistic planning of the production and distribution of scarce building materials like cement and steel. A modest attempt to collect these information was made during 1980-81 by conducting a sample survey in the State.





The survey was confined to the construction activities undertaken by the household and private non-household agencies.

- 1.5. A detailed scheme of the survey was prepared and sent to Government which was sanctioned as per G.O. (Pt) No. 363/80/Pig. dated 8-6-1980. The field work relating to the survey was started from 16-11-1980 and continued for a period of 12 months and was completed on 15-11-1981. The tabulation and analysis of the data collected was completed on 31-10-1982 and it took nearly four months to complete and finalise the report. Full details of the survey and its results are given on the following chapters.

## Chapter II

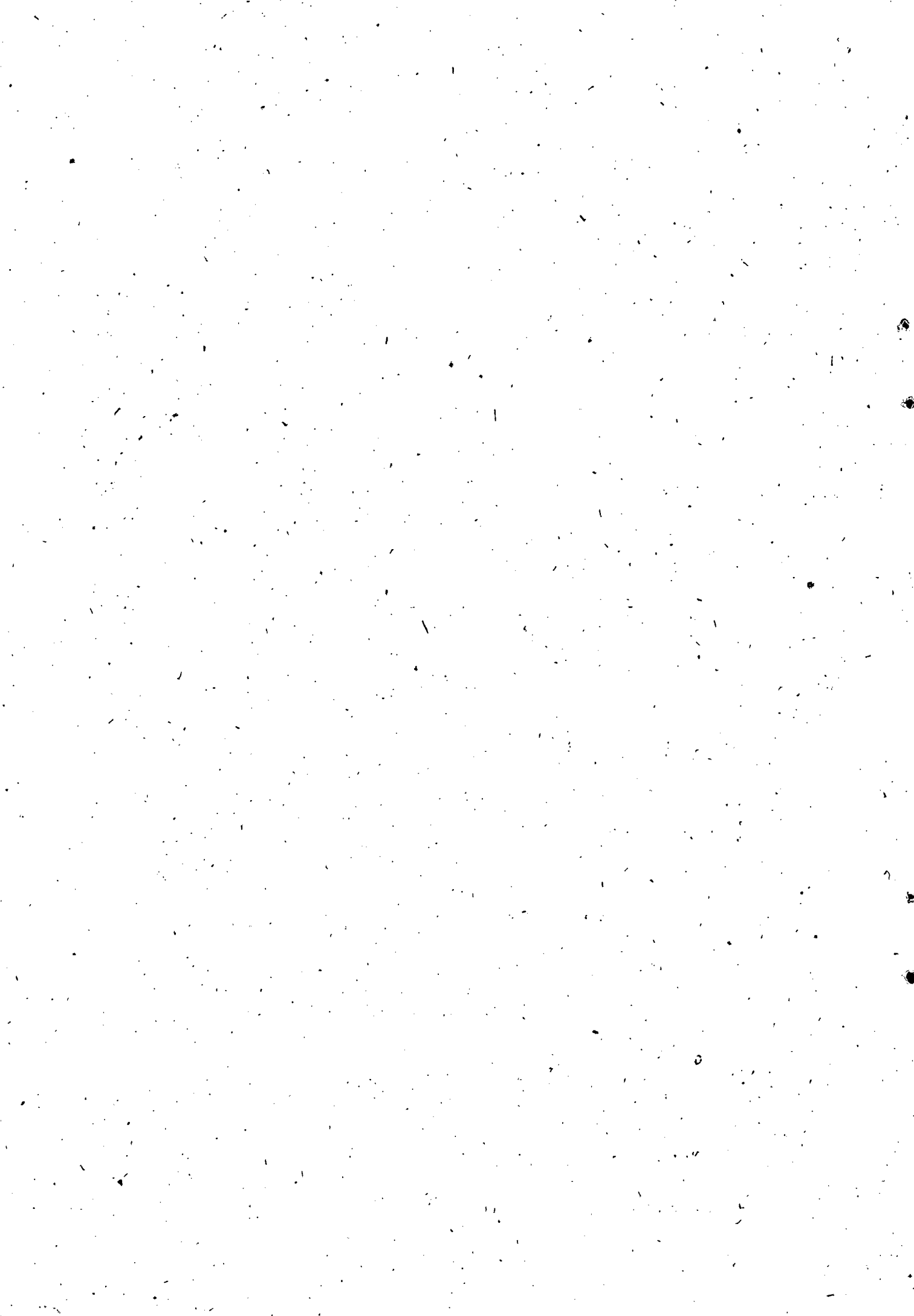
### Design and conduct of the survey

- 2.1. A stratified two stage sampling design with the district as the stratum, panchayat/urban ward as the first stage and household as the second stage sampling unit was adopted for the survey. It was decided to conduct the survey on 300 first stage units with 260 units from the Panchayat area (rural) and 40 units from the corporation/Municipal (urban) areas, the fixation of the sample size being governed mainly on cost considerations. The allocation of the sample size for the first stage, among the strata was made roughly in proportion to the number of new constructions during the last two years. The distribution of the first stage units among the different districts is given below.

Table 2.1. Distribution of the number of sampling units

<u>District</u>	<u>No. of first stage units (wards)</u>			<u>No. of second stage sampling units (households)</u>		
	Rural	Urban	Total	Rural	Urban	Total
Trivandrum	29	8	37	13486	3549	17035
Quilon	34	3	37	14547	1060	15607
Ailleppey	31	5	36	13742	1700	15442
Kottayam	21	2	23	9340	827	10167
Idukki	15	1	16	5485	338	5823
Ernakulam	24	8	32	8716	2531	11247
Trichur	28	4	32	10759	1199	11958
Palghat	15	1	16	6765	430	7195
Malappuram	21	1	22	8031	411	8442
Kozhikode	18	5	23	6804	1901	8705
Wynad	3	-	3	1008	-	1008
Cannanore	21	2	23	9751	683	10434
STATE	260	40	300	108434	14629	123063

- 2.2. The survey consisted of two parts viz (1) the listing part and (2) the detailed enumeration part. The listing part aimed at identifying the construction activities undertaken by the households in the selected wards and to obtain a sampling frame for selection of units for detailed enumeration. The detailed enumeration part was for collecting information of the construction activities which included the type and cost of materials used, type and agency of construction, cost of labour and other relevant particulars.



2.2. Field work and supervision

2.3. The field work was done by 25 Investigators sanctioned under the scheme and they were distributed among the different districts depending upon the number of sample wards selected in each district. They were given necessary training regarding the concepts and definitions to be adopted and the details of the conduct of the field work, before the commencement of the survey.

2.4. The supervision of the field work was entrusted to the District level officers of the Department. At the state level, the Regional Officer and the Joint Director appointed under the scheme were responsible for imparting training, guiding the field work and for the overall supervision.

Schedules

2.5. Two schedules were used for the survey as given below.

Schedule I:

List of households, which contains identification particulars, list of households and construction activities, record of selection for detailed enumerations and details of selections.

Schedule II:

Particulars of the constructions which was intended to collect the details of the construction activities undertaken such as expenditure on materials, labour and type, assets, source of materials and labour allocated. Copies of the schedules used for given in appendix.

Period of the Survey

2.6. The different items of work relating to the survey were completed as per the following time schedules.

1. Preliminary work	10-8-1980	-	1-11-1980
2. Training to Investigator	1-11-1980	-	15-11-1980
3. Field work	16-11-1980	-	15-11-1981
4. Tabulation of data	16-11-1981	-	31-10-1982
5. Analysis of	1-11-1982	-	31-12-1982
6. Preparation and finalisation of the report	1-1-1983	-	28-2-1983

Chapter III

Results of the Survey

Number of Constructions

3.1 The estimated number of construction activities during the reference period of the survey (1980-81) was 15,81,274 out of which building activities account for 1529158 (96.70%) and the remaining 52116 (3.3%) are non-building activities. The distribution of the activities according to rural - urban break up and type of construction for the State is given below while the district-wise details are given in appendix.

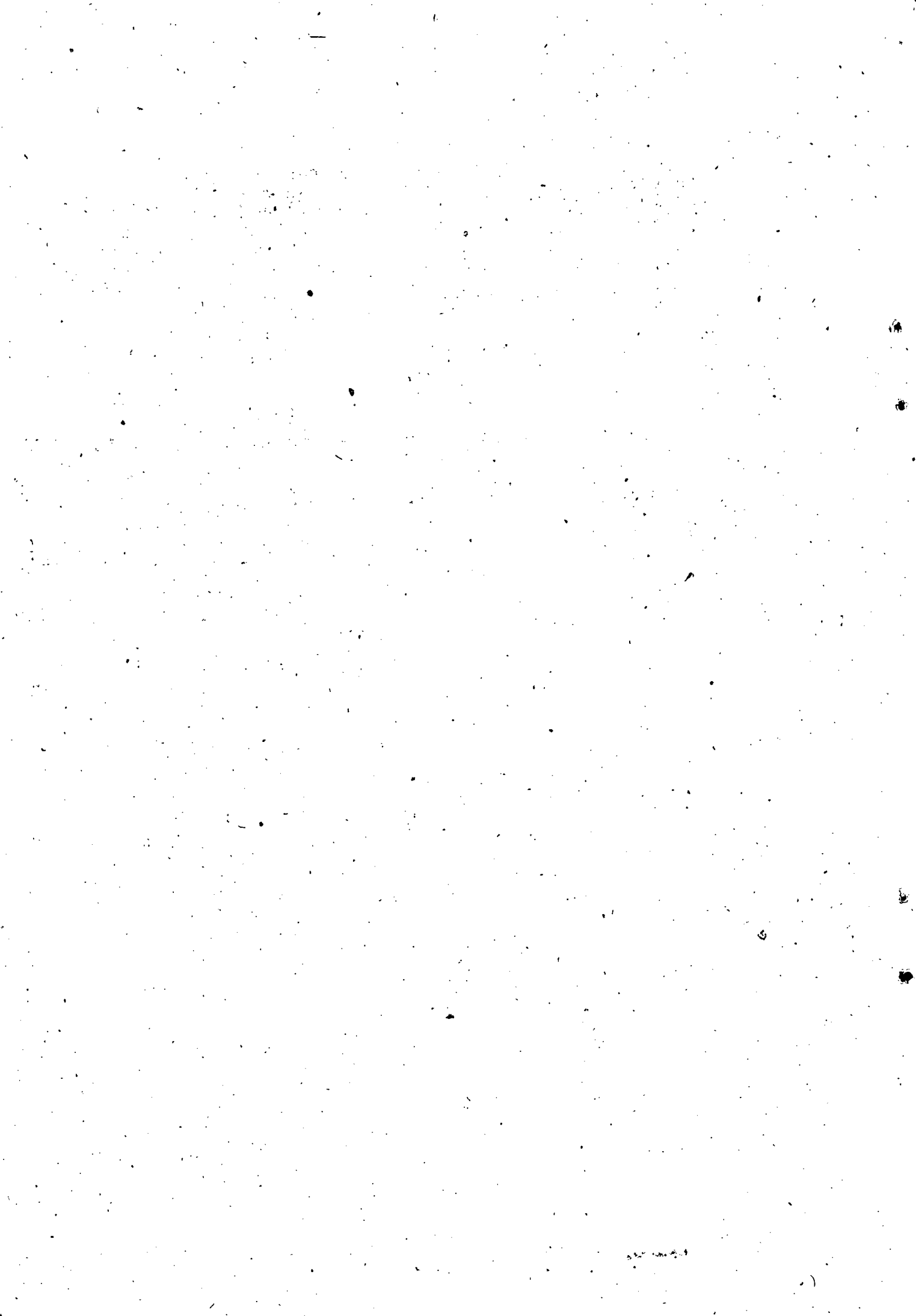


Table 3.1. Distribution construction activities  
in Kerala 1980-81

Type of construction	Rural	Urban	Total
1. New building	246103 (15.56)	30858 (1.95)	276961 (17.51)
2. Addition, alteration & improvement	1134482 (71.74)	117715 (7.44)	1252197 (79.18)
3. Non-building activities	49017 (3.11)	3099 (0.20)	52116 (3.31)
Total	1429602 (90.41)	151672 (9.59)	1581274 (100.00)

(Figures on bracket are percentages)

It is observed that more than 90% of the construction activities are undertaken in the rural areas as against the proportion of only 34 percent of the population. Out of the 96.70% of the building constructions, 17.51% is accounted by new building and the remaining 79.18% is for making alterations and additions in the existing structures.

Building constructions

(a) New building according to type of use

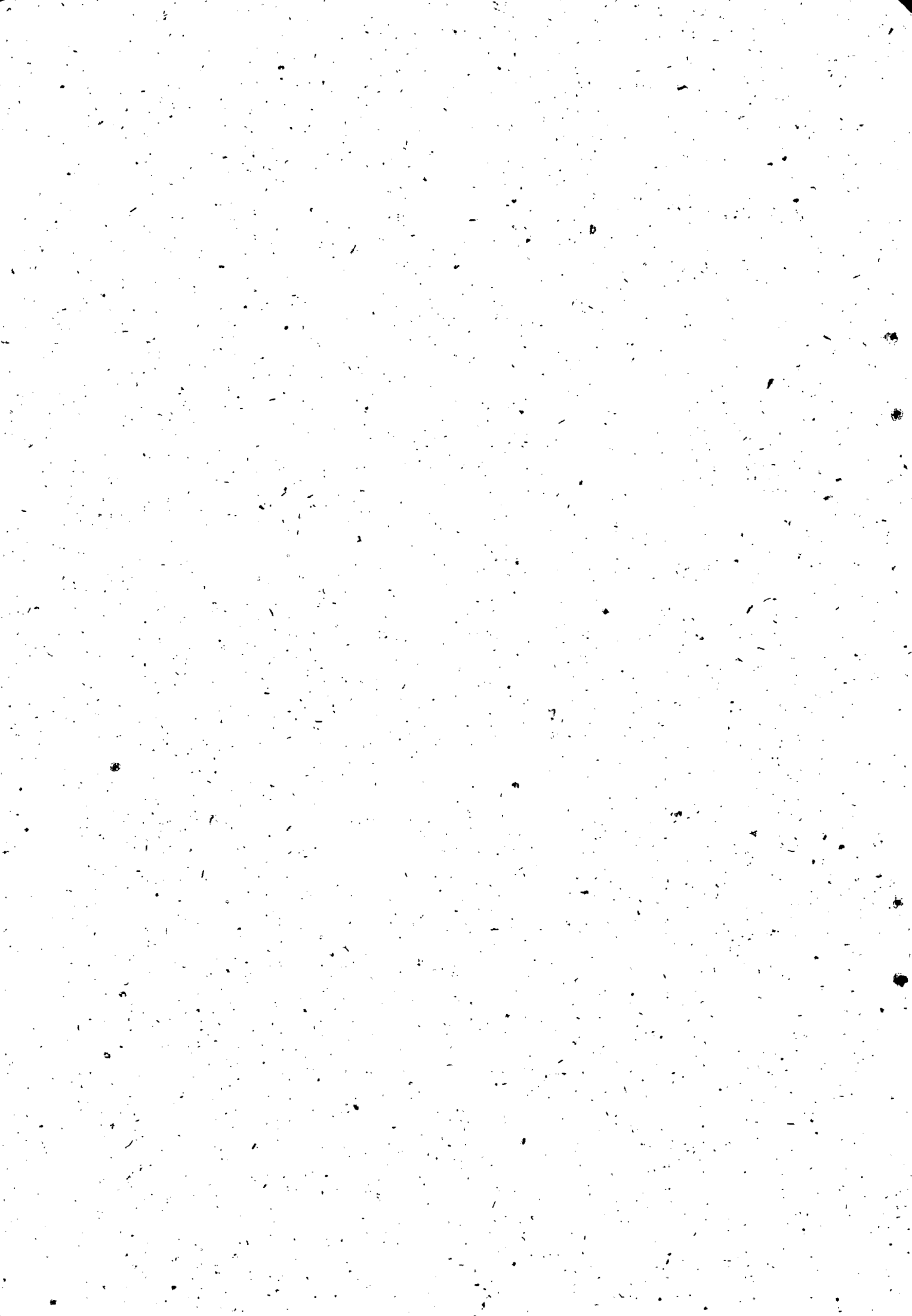
- 3.2. The total number of new buildings constructed has been estimated as 2,76,961 out of which 92.54 percent is for residential, 6.93 percent for non-residential purpose and the remaining 0.53 percent is for both. The details for the State are given below.

Table 3.2. Distribution of new buildings according  
to type of use

Type of use	Rural	Urban	Total
Residential	227565 (92.47)	28744 (93.15)	256309 (92.54)
Non-residential	17195 (6.99)	1988 (6.44)	19183 (6.93)
Residential cum non-residential	1343 (0.54)	120 (0.41)	1469 (0.53)
All	246103 (88.85)	30858 (11.14)	276961 (100.00)

The District-wise percentage distribution is given in the Appendix table 2.

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(b) New buildings by nature of construction

3.3. The distribution of the newly constructed buildings according to nature of construction reveals that only 58.85% can be classified as Pucca type, 26.54% are Kacha and the remaining 14.61% is to be classified as Semi-pucca, Table No.3.3 given below provide the details for the state while the district-wise details are available on appendix. Table 3.

Table 3.3. Distribution of new buildings by nature of construction

Nature of Construction	Rural	Urban	Total
Pucca	142625 (57.95)	20366 (66.00)	162991 (58.85)
Semi-pucca	38245 (15.54)	2219 (7.19)	40464 (14.61)
Katcha	65233 (26.51)	8273 (26.81)	73506 (26.54)
All	246103 (88.86)	30858 (11.14)	276961 (100.00)

3.4. Construction works by nature of construction

The construction works are broadly classified as 1) New buildings, 2) addition, alteration and improvement of building and 3) non-building. The second category is further classified into a) addition to floor space of building and (b) alteration and improvement of building. Non-building activities are classified into the following six categories.

- e) pucca wells, tube wells and tanks
- b) Katcha wells, ponds, tanks, embankment, checkdams, channels and other irrigation works.
- c) Laying of orchards and plantations.
- d) Cattle sheds, poultry sheds, other sheds and platforms
- e) Katcha road building, raising and levelling of land and other land improvement works.
- f) Other non-building works.

The percentage of addition to floor space accounts for about 30 percent of the second category and alteration and improvement of building accounts for the remaining 70%.

The percentages of Rural and urban areas are given in Table 3.4 for addition and alteration of buildings and non-building activities.





Table 3.4

## Percentages of construction works by nature of construction

Nature of construction	Percentages		
	Rural	Urban	Total
1. Addition to floor space of building	29.77	31.20	29.90
2. Alterations and improvement of building	70.23	68.80	70.10
Total	100.00	100.00	100.00
1. Pucca wells, tube wells and tanks	24.79	20.62	24.55
2. Katcha wells, ponds, tanks and other irrigation works	16.76	7.10	16.18
3. Laying of orchards and plantations	14.93	1.45	14.13
4. Cattle sheds, poultry sheds, other sheds and platforms	14.45	15.42	14.51
5. Katcha roads, building raising and levelling of land and other land improvement works	13.39	8.36	13.09
6. Other works	15.68	47.05	17.54
Total non-building	100.00	100.00	100.00

The District wise tables are given as appendix table 4.

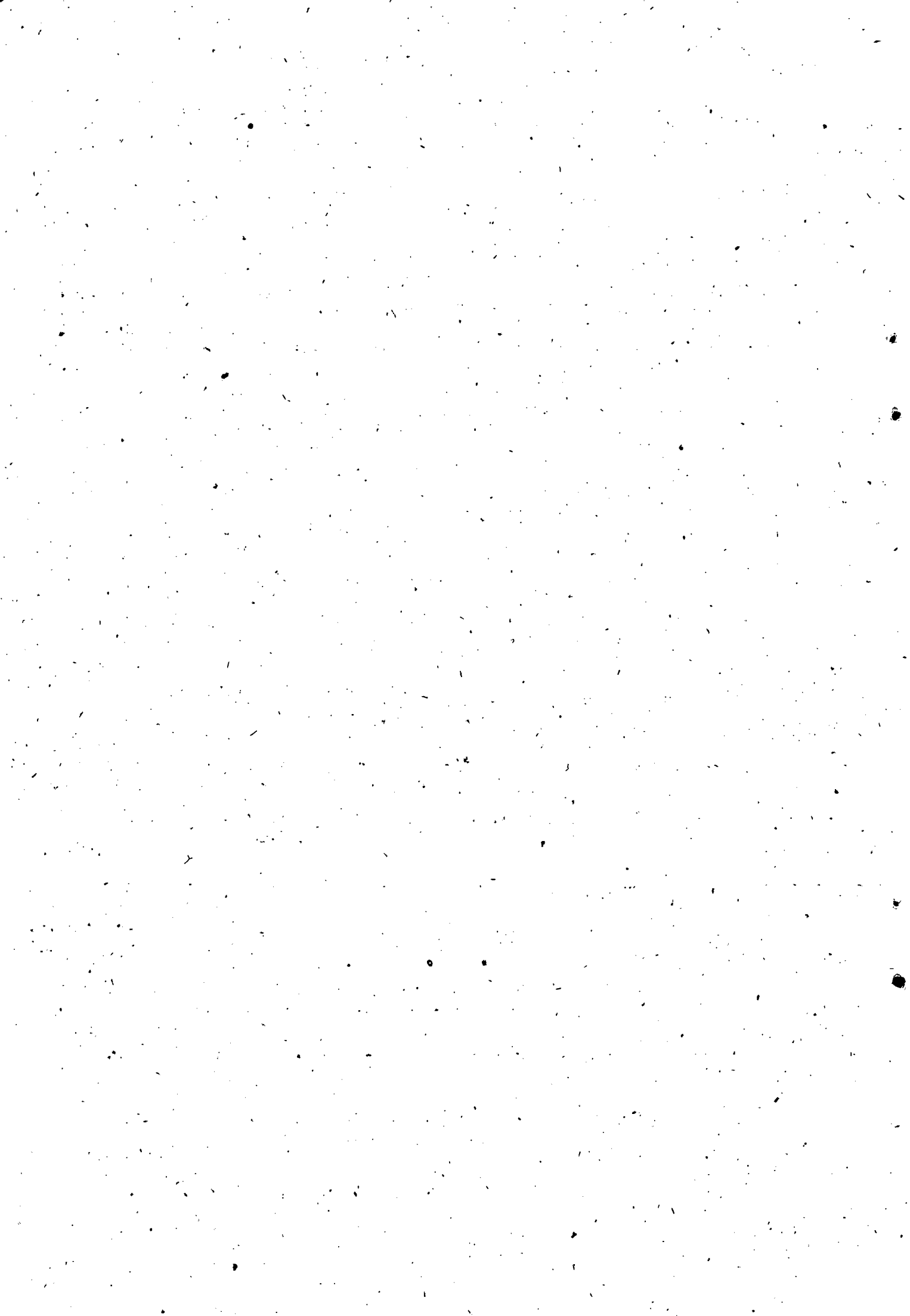
## 3.5. Construction works by agency of construction

It was enquired in the survey whether the construction work was owned by the household itself or it was owned by other organised agencies or contractors. The percentages of construction works entrusted to each agency are given in the following table.

Table 3.5. Percentages of construction work by agency of construction

Nature of construction	Percentages in each category								
	Rural			Urban			All		
	Household	Other organised agency	Contractor	Household	Other organised agency	Contractor	Household	Other organised agency	Contractor
1. New building	99.15	0.85	-	98.34	1.56	0.10	99.06	0.92	0.02
2. Addition, alteration or improvement	99.45	0.53	0.02	100.00	-	-	99.50	0.48	0.02
3. Non-building	94.73	0.43	4.84	91.22	0.55	0.23	94.52	0.44	5.04
All	97.84	0.58	1.58	99.48	0.33	0.19	99.26	0.56	0.17

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Detailed tables for Districts are given in Appendix tables 5.1 to 5.12.

From the tables it can be seen that most of the works are owned by the household itself.

### 3.6. Construction works by responsibility

The information as to who undertook the responsibility of construction was also collected in the survey. The construction might have been carried over by the owner either with paid labour or unpaid labour or on contract wholly or partly. The construction works classified according to these divisions is presented in the following table.

Table 3.6  
Percentage distribution of construction works by  
construction responsibility

Nature of construction		Owner with household labour	Owner with paid labour	Owner partly with paid labour	wholly by contractor	Partly by contractor	Total
1. New Building	R	4.12	27.95	58.07	2.45	7.41	100.00
	U	2.04	32.01	41.09	10.91	13.95	100.00
	T	3.88	28.40	56.18	2.30	9.24	100.00
2. Addition, alteration or improvement	R	5.03	32.55	49.73	10.45	2.24	100.00
	U	1.16	35.57	42.71	15.15	5.41	100.00
	T	4.68	32.82	49.10	10.87	2.53	100.00
3. Non-building	R	15.08	68.62	2.37	13.41	0.52	100.00
	U	0.55	86.39	3.90	8.26	0.30	100.00
	T	14.21	69.68	2.46	13.10	0.55	100.00
4. All	R	5.21	32.97	49.55	9.24	3.03	100.00
	U	1.33	35.88	41.60	14.16	7.03	100.00
	T	4.85	33.24	48.82	9.69	3.40	100.00

From the above table it can be seen that most of the works are done by the owner with paid labour or partly with paid labour. In the different Districts also the same pattern is noticed. The District tables are given Tables 6.1 to 6.12 in the Appendix.

### 3.7 Building works by purpose of construction

The building construction works during the reference period are classified according to the purpose for which it was constructed. The following table gives the details.

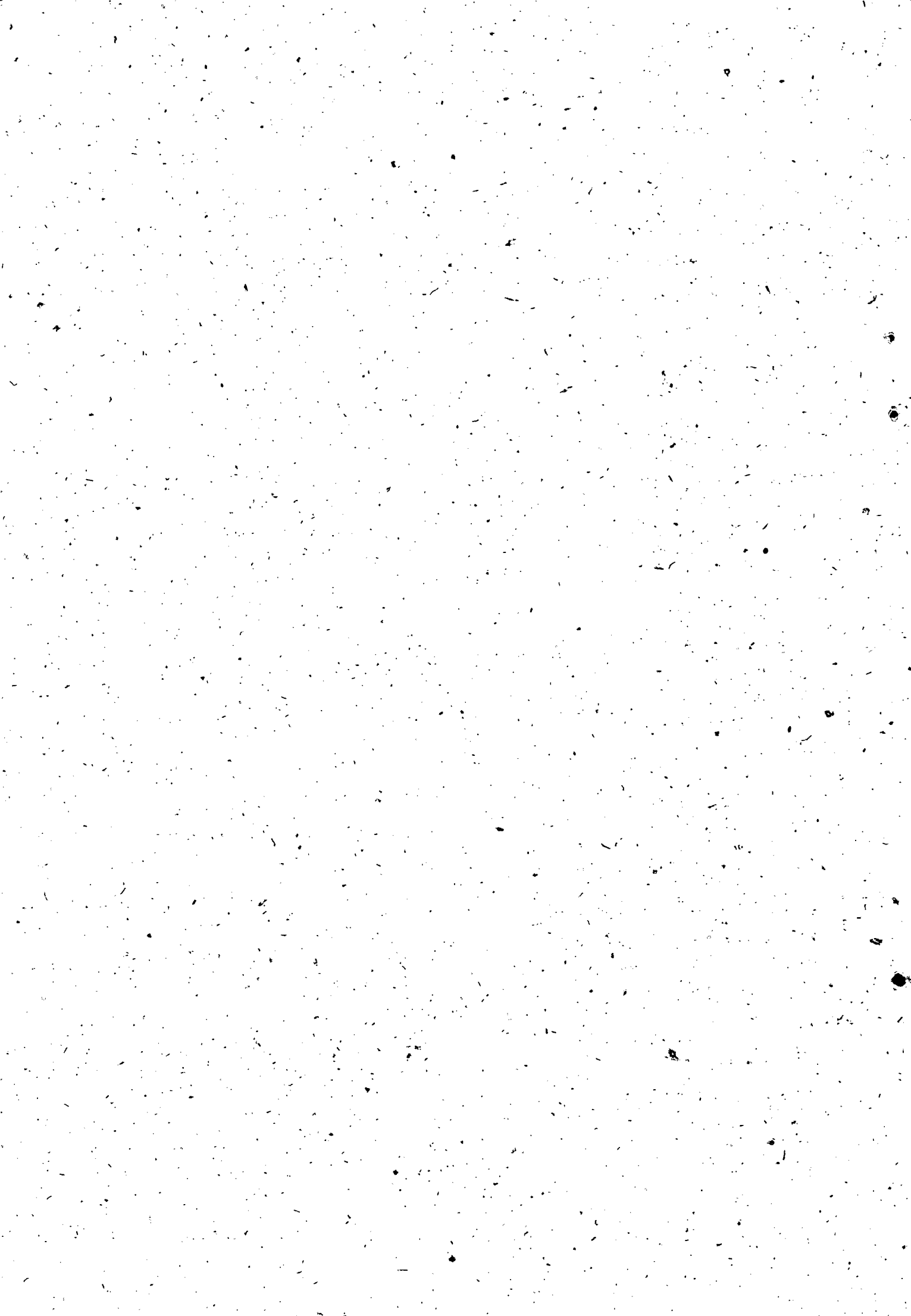


Table 3.7 percentage distribution of building works according to purpose

Purpose	Rural	Urban	Total
1. Residential	93.13	93.64	93.21
2. Industrial	0.75	1.27	0.82
3. Commercial	2.55	3.50	2.67
4. Agricultural	0.85	0.63	0.82
5. Educational	0.44	0.16	0.40
6. Health	0.07	-	0.06
7. Other industrial purpose	0.10	-	0.08
8. Residential cum industrial	0.14	0.48	0.19
9. Residential cum Commercial	0.58	-	0.51
10. Residential cum agricultural	0.05	0.16	0.06
11. Others	1.34	0.16	1.18
Total	100.00	100.00	100.00

More than 93% of the building constructions are for residential purposes as revealed by the survey. There is no substantial difference in this aspect between Districts or Rural-Urban areas. The next important purpose reported is commercial purposes and industrial purposes. The percentages are a little higher in these categories in the urban areas. The District-wise tables are given in Appendix tables 7.1 to 7.3.

3.8. Stage of completion by type of structure

The stage of completion of the house construction works studied is given in the following table.

Table 3.8. percentage distribution of house construction works by stage of completion

Type of construction	Rural		Urban		Total	
	Completed	Not completed	Completed	Not completed	Completed	Not completed
Pucca	39.38	60.62	44.86	55.14	40.14	59.86
Katcha	85.49	14.51	86.36	13.64	85.61	14.39
All	55.67	46.33	57.40	42.60	54.18	45.82

From the above table it can be seen that more than 50% of the building works undertaken during the reference period were completed at the time of investigation. Naturally, a larger percentage (86%) of the Katcha buildings were completed since they require a lesser period for their completion. The distribution for the Districts are given in Tables 8.1 to 8.12 in the Appendix.



### 3.9. New building construction works by estimated cost of construction

The estimated cost of the new building constructions was ascertained during the survey. The following table gives the details.

Table 3.9 Percentage distribution of new building constructions by estimated cost

Estimated cost of construction	Pucca	Katcha	Total
Less than Rs.1000/-	2.99	53.84	16.47
Rs.1000 - 2000	2.42	22.68	7.79
Rs.2000 - 3000	2.65	9.26	4.40
Rs.3000 - 5000	5.36	6.07	5.55
Rs.5000 - 10000	18.38	5.59	14.99
Rs.10000 - 25000	33.64	2.24	25.32
Rs.25000 - 50000	20.22	0.32	14.94
Rs.50,000 - 1 lakh	12.38	-	9.10
Above Rs.1 lakh	1.96	-	1.44
Total	100.00	100.00	100.00

More than 50% of the Katcha constructions have an estimated cost of less than Rs.1000/- and more than 76% have a cost of less than Rs.2000/-. More than 35% of the pucca constructions have an estimated cost of more than Rs.25000/-. About 2% have estimated cost above Rs.1 lakh.

The District wise tables are given in appendix as table 9.1 to 9.12.

### 3.10 Building constructions by plinth area

The plinth area of the building constructions are classified into nine. The 1st category is less than 20 Sq. m and the last category is 250 or more Sq.m. The following table gives the percentage distribution.

Table 3.10. Percentage distribution of buildings according to plinth area

Plinth area (Sq.m)	Rural	Urban	Total
Less than 20 Sq.m.	11.89	10.65	11.73
20-30 "	15.80	14.47	15.63
30-40 "	16.36	15.58	16.26
40-50 "	15.05	13.99	14.91
50-70 "	18.36	19.40	18.49
70-100	13.64	11.45	13.35
100-150	6.49	9.38	6.87
150-250	2.09	4.29	2.38
2500 or more	0.32	0.79	0.38
Total	100.00	100.00	100.00





About 60% of the houses have a plinth area of 50 Sq.m. or below. About 10% of the houses have plinth area 100 Sq.m. or above. The largest percentage of houses are in the group 50-70 Sq.m. This group alone accounts for about 1/5th of the total house constructions. District wise tables are given in the Appendix as tables 10.1 to 10.12.

### 3.11 Non-building works by estimated cost

The distribution of non-building works by estimated cost is given below.

Table 3.11 Percentage distribution of non-building works by estimated cost.

Estimated Cost	Rural	Urban	Total
Less than Rs.500/-	33.83	21.21	32.96
Rs. 500-1000	28.23	23.23	27.89
1000-2000	21.81	27.28	22.18
2000-3000	10.08	12.12	10.22
3000-5000	3.73	10.10	4.17
5000-10000	1.35	4.04	1.53
10000-25000	0.53	2.02	0.63
25000-50000	0.37	-	0.35
More than 50,000	0.07	-	0.07
Total	100.00	100.00	100.00

From the above table it is seen that more than 60% of the non-building works are petty works with estimated cost less than Rs.1000/-. 83% of the works have estimated cost less than Rs.2000/-. The District wise tables are given in Appendix as tables 11.1 to 11.12.

### 3.12 Source of finance.

The finance required for the construction works by borrowing or by other sources like savings, inherited wealth, grants or gifts. The sources of finance are broadly classified into three.

- 1) Borrowing from employer
- 2) Borrowing from other sources
- 3) Other sources (excluding borrowing)

The 1st category includes borrowing from all types of employers - Government, Semi-Government or private. The 2nd category includes borrowing from all sources - Government, X Semi-Government or private but includes borrowing by their employees. The third category is sources other than borrowing. As can be seen from the subjoined table in more than 70% of the cases the sources are other than borrowing. In urban areas the percentage is a little lower



Table 3.12. Percentage distribution of finance  
by source of finance of building  
construction works

Source of finance.	Rural	Urban	Total
1. Borrowing from employer	2.40	2.42	2.40
2. Borrowing from other sources	25.26	33.02	27.09
3. Other sources	72.34	64.56	70.51
4. Total	100.00	100.00	100.00

The appendix tables 12.1 to 12.12 give the district-wise distribution.

### 3.13 Rate of interest and period of repayment

As seen from the previous section, the funds for the construction were raised by loans in 30% cases. The sources of loan are different as also the rate of interest and the period of repayment.

The following table gives the distribution of loans according to the rate of interest.

Table 3.13.1

Percentage distribution of loans according to  
rate of interest

Rate of interest (percentage)	Rural	Urban	Total
Less than 4	1.37	6.04	0.86
4 - 5 "	2.85	0.44	3.47
5 - 6 "	3.69	8.33	3.06
6 - 8 "	8.59	13.45	8.54
8 - 10 "	14.72	55.23	14.47
10 - 20 "	55.21	5.70	56.02
More than 20	7.89	10.81	7.47
Rate not stated	4.98		6.11
Total	100.00	100.00	100.00

It is seen that about 70% loans are taken for an interest rate of above 10 percent. More than 50% comes in the range of 10-20 percent.

The District-wise distribution is given in Appendix Tables 13.1, 13.2 and 13.5.

The percentage distribution of loans according to period of repayment is given in the following table.



Table 3.13.2

Percentage distribution of loans according to period of repayment

Period of repayment	Rural	Urban	Total
Less than 6 months	0.25	-	0.20
6 - 12 "	1.84	0.01	1.49
12- 24 "	8.22	3.26	7.26
24- 36 "	12.46	8.72	11.74
36- 60 "	11.24	11.35	11.26
60-120 "	13.17	7.57	12.09
120 months and more	28.65	34.19	29.72
Not stated	24.17	34.90	26.24
Total	100.00	100.00	100.00

The period is not seen stated in a large percentage of cases. In the case of those on whom information on period is available, large percentage is long term loans of duration 10 years and above.

The District wise details are given in Appendix Tables 13.3, 13.4 and 13.6.

### 3.14 Amount spent on building works

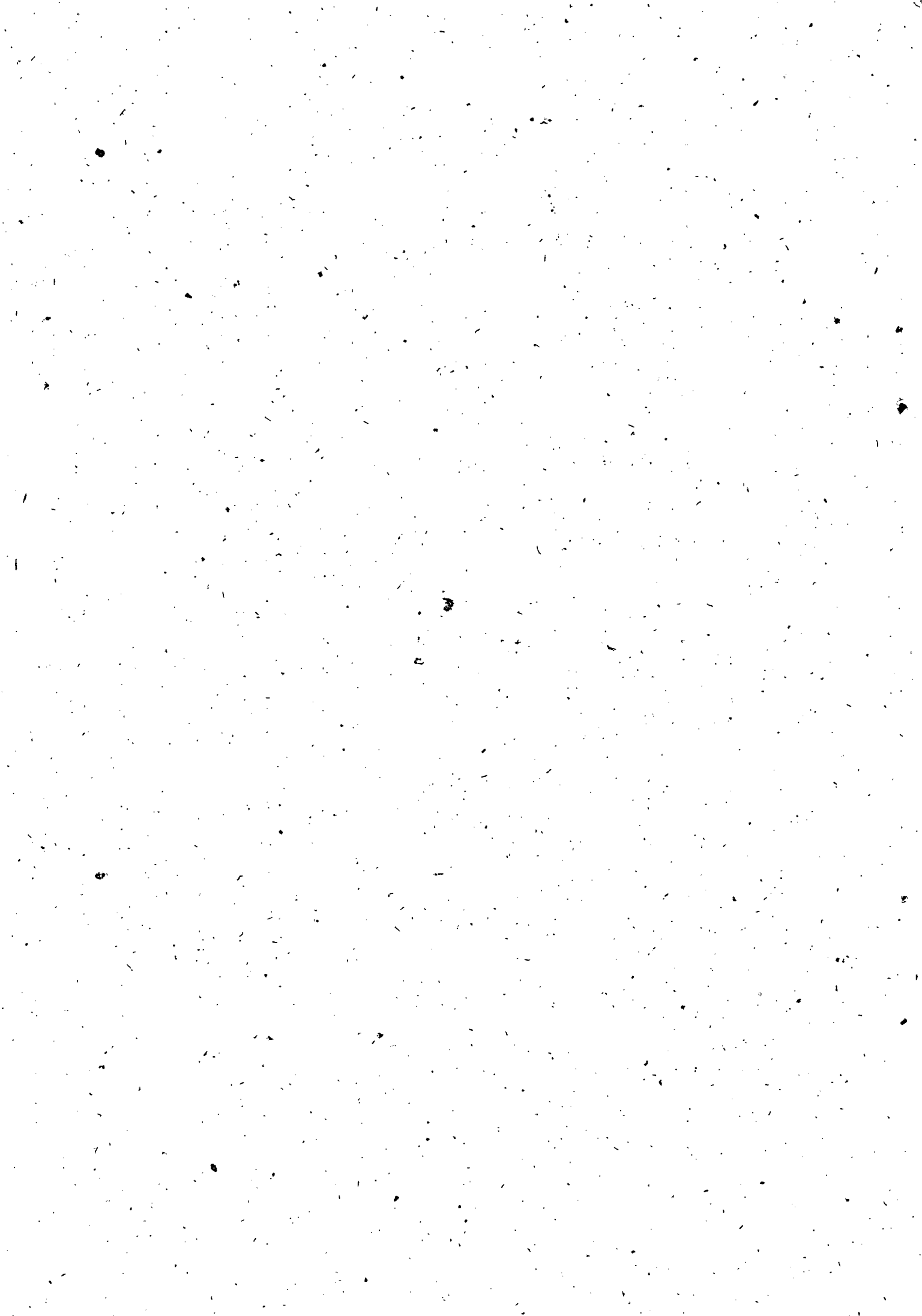
The details of the amount spent on building works were collected in the survey. The items of expenditure include materials of construction as well as that on wages of labour. The estimated expenditure under new building construction, addition and alteration of buildings are given in the following table.

Table 3.14.1.

Estimated expenditure on construction works (Rs. lakhs)

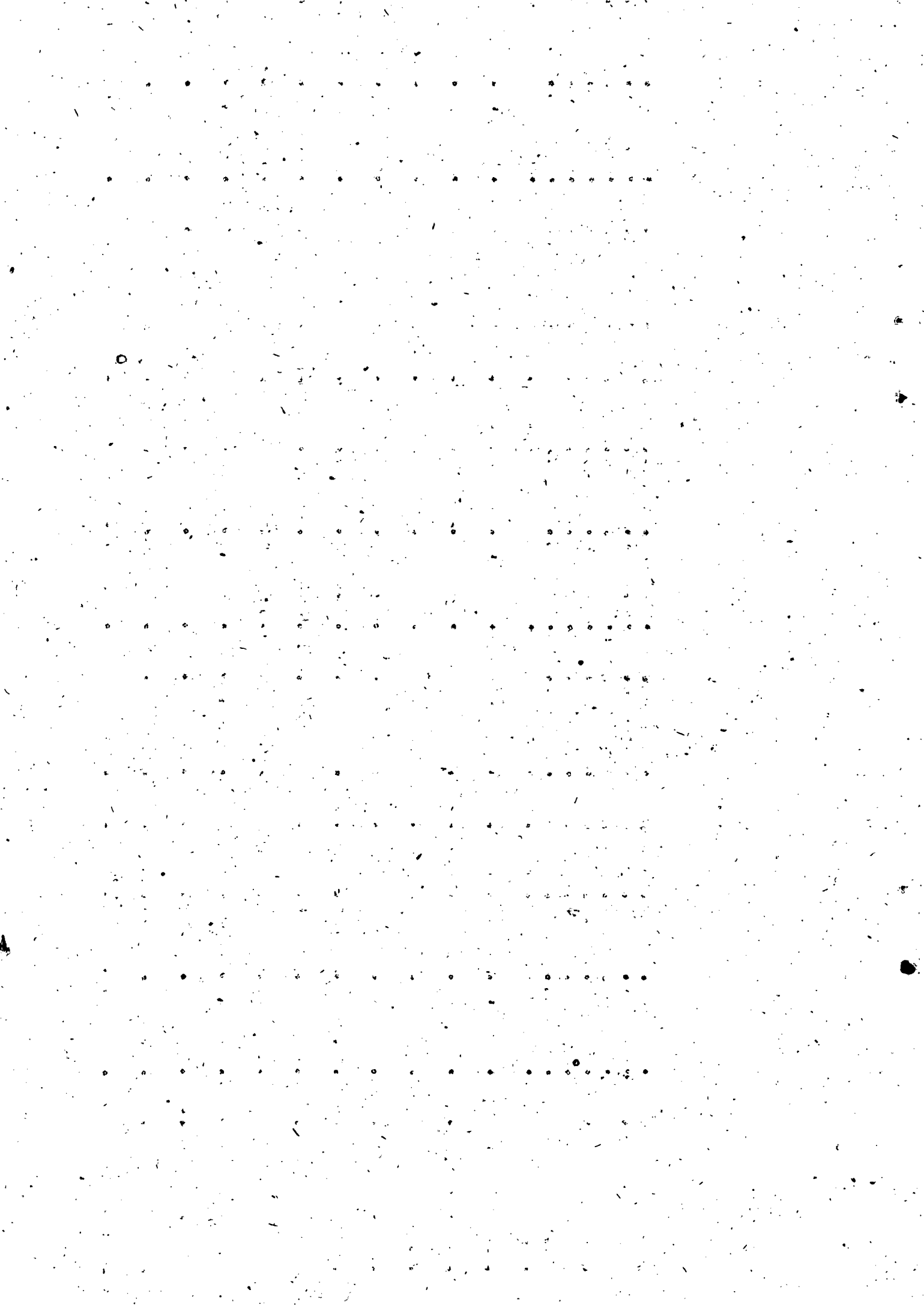
Item	Rural	Urban	Total
New building construction	17053.14	4879.41	21932.55
Additional alteration	23517.45	1967.91	25485.36
Total	40570.59	6847.32	47417.91

The percentage distribution of the expenditure in the various items is given in the following table with Rural - Urban break up.









About 20% of the expenditure is accounted for the wages of labour. Among other items wood which accounts for about 17% of the expenditure is the major item. Other items which account for a major percentage are stone, bricks, cement, tiles and iron steel. The District wise tables are given in the Appendix as Tables 14.1 to 14.12.

### 3.15. Amount spent on non-building construction

The non-building constructions were classified into the following categories.

- 1) Pucca roads, bridges and culverts
- 2) Play grounds, stadia, Swimming pools and other recreation facilities.
- 3) Pucca wells, tube wells and tanks.
- 4) Katcha wells, ponds, tanks, embankments and other irrigation works.
- 5) Kutchra roads, bunding, raising and levelling of land and other land improvement works.
- 6) laying orchards and plantations.
- 7) installation of industrial plants.
- 8) Cattle sheds, poultry sheds, other sheds and platforms.
- 9) Others.

The estimated expenditure on non-building activities in the state during the reference period is given in the following table.

Table 3.15.1

Estimated expenditure on non-building works (Rs.lakhs)

Item	Rural	Urban	Total
1. Wages	316.07	18.81	334.88
2. Cost of materials	234.69	41.38	276.07
3. Others	89.36	2.71	92.07
4. Total	640.12	62.90	703.02

The non-building sector the estimated expenditure of construction is only Rs.703.02 lakhs. This is only 1.5% of the estimated cost of building construction. About 48 percent of the expenditure is accounted on wages.

### 3.16 Labour involvement

For the construction works both skilled and unskilled workers are employed. The number of workers engaged was estimated from the data collected in the survey. In the category of skilled workers, Carpenter, Mason, brick layer, floor layer, tile layer, black smith, plumber, fitter, electrician, painter, bulldozer operator and crane operator are included. The following table gives the estimates of mandays for each category of worker.

Contd....



Table 3.16.1

Estimates of mandays category wise for building works  
(No. lakhs)

Category	Rural	Urban	Total
Skilled	230.81	21.79	252.60
Unskilled	147.77	14.47	162.24
Total	378.58	36.26	414.84

Table 3.16.2

Estimates of mandays category wise for non-building works  
(No lakhs)

Category	Rural	Urban	Total
Skilled	4.28	0.23	4.56
Unskilled	11.44	0.47	11.91
Supervisory	0.10	0.01	0.11
Total	15.82	0.76	16.58

The mandays estimated for non-building construction works is 16.58 lakhs. The major portion is unskilled workers.

#### Chapter IV

##### Summary and Conclusions

The estimated number of household construction activities during the reference period of 1980-81 was 15.81 lakhs. Out of this, 2.77 lakh were new building constructions, 12.52 lakh were addition and alterations of buildings and the remaining 0.52 lakh were non-building construction activities.

92.54% of the new buildings were for residential purposes. 73% of the new building constructions were either pucca or semi-pucca.

Among the improvement to buildings, 30% were addition to the floor space of the building and the remaining alteration and improvement of building.

41% of the non-building constructions were construction of wells.

99% of the construction works were observed to be done by the household itself.

Contd....



The construction works were done under the whole or part responsibility of the contractor in only about 13% cases. In the remaining cases the owner was responsible for the execution of work with household labour or paid labour.

93% of the buildings constructed during the reference period were for residential purposes.

In the case of Katcha buildings the estimated cost was less than Rs. 1000/- in more than 50% cases. The cost of pucca houses was less than Rs. 25,000 in more than 35% cases.

In the case of non-building works the cost was less than Rs. 1000/- in more than 60% cases.

The finance for the construction works was raised by loans in about 30% cases.

About 30% of the loans were long term loans of duration 10 years and above.

The estimated cost of building construction works was estimated to be Rs. 474 crores. About 20% of the cost is accounted for by labour charges. Cost of wood accounted for 17%, and that of cement 9%. Another major item was stone which accounted for 10% of the cost.

For the non-building construction works the estimated cost was Rs. 7 crores. About 48% of the expenditure was on labour charges.

The estimated number of mandays utilised for building construction works was 415 lakhs and that for non-building works was about 17 lakhs.

The information presented in the report relates to household construction activities only. Data on institutional construction activities have to also be collected to have a total picture of this sector.



LIST OF TABLES

<u>Table No.</u>	<u>Description:</u>
1	Estimated number of construction activities by type of construction
2	Percentage distribution of new buildings according to type of use.
3	Percentage distribution of new buildings by nature of construction.
4 (a)	Percentage distribution of non-building construction by nature of construction.
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5.1 to 5.12	Percentage distribution of works by agency of construction - Trivandrum to Cannanore.
6.1 to 6.12	Percentage distribution of construction works by construction responsibility - Trivandrum to Cannanore.
7.1 to 7.3	Percentage distribution of building works according to purpose - Rural, Urban and Total.
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9.1 to 9.12	Percentage distribution of new building construction by estimated cost of construction - Trivandrum to Cannanore.
10.1 to 10.12	Percentage distribution of building construction by plinth area and type of construction - Trivandrum to Cannanore.
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12.1 to 12.12	Percentage distribution of finance by source of finance - Trivandrum to Cannanore.
13.1 to 13.6	Percentage distribution of loans by rate of interest and period of repayment - Rural, Urban and Total.
14.1 to 14.12	Percentage distribution of expenditure on building works - Trivandrum to Cannanore.

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TABLE NO. 1

Estimated number of construction activities by type of construction.

.....

	Rural			Urban				Total				
	New Build- ing	Addition, & Alteration & improvement	Non-build- ing	Total	New building	Addition, & Alteration & improvement	Non-build- ing	Total	New build- ing	Addition, & Alteration & improvement	Non-build- ing	Total
	2	3	4	5	6	7	8	9	10	11	12	13
Mi- am	18631	206835	1208	226674	3862	28789	51	32702	22493	235624	1250	259376
lon	35188	134478	3199	172865	2449	8667	333	11449	37637	143145	3592	184214
eppey	35404	82355	..	117759	5615	10284	..	15899	41019	92639	..	132658
ttayam	14686	45722	6792	67200	1359	4727	226	6312	16045	50449	7018	73512
ri	6825	13178	4048	24051	235	235	33	503	7060	13413	4081	24554
ruilam	22932	75402	5065	103399	7293	23714	815	31822	30225	99116	5880	135221
our	27788	154013	6326	188127	2537	20354	216	23107	30325	174367	6542	211234
hat	10908	89110	2450	102468	1277	4215	..	5492	12185	93325	2450	107960
happuram	16980	99351	..	116331	901	4170	..	5071	17881	103521	..	121402
anad	6429	43612	2085	52126	..	..	..	..	6429	43612	2085	52126
zhikode	22939	138528	4199	165966	3380	10279	1061	14720	26319	148807	5560	180686
annano re	27393	51898	13345	92636	1950	2281	364	4599	29343	54179	13709	97231
TOTAL:	246103	1134482	49017	1429602	30858	117715	3099	151672	276961	1352197	52116	1581274

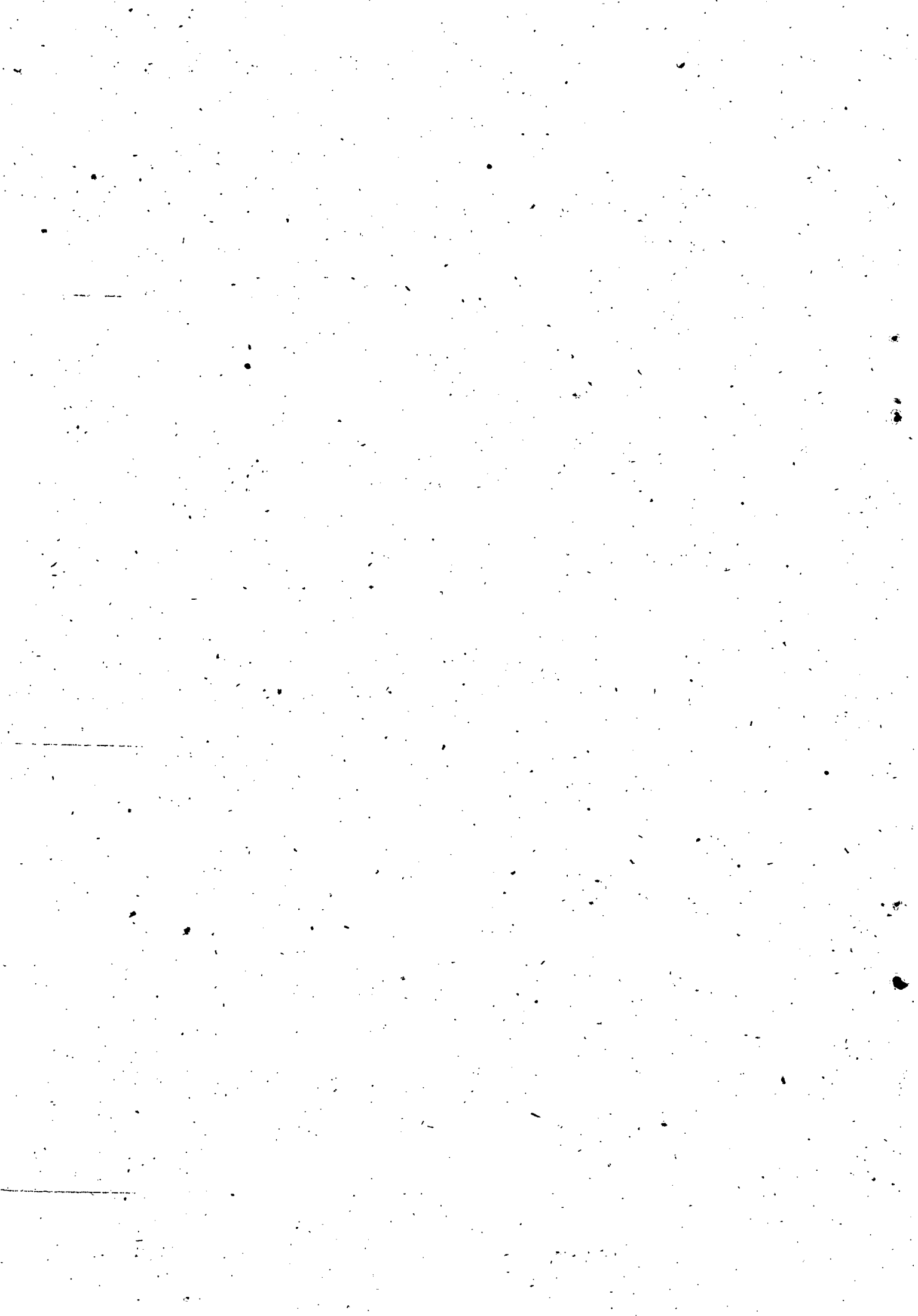


TABLE: 2. Percentage distribution of new buildings according to type of use.

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District	Rural				Urban				Total			
	Residential	Non-residential	Residential cum-non-residential	Total	Residential	Non-residential	Residential-cum-non-residential	Total	Residential	Non-residential	Residential cum-non-residential	Total
1	2	3	4	5	6	7	8	9	10	11	12	13
Andrum	90.87	6.52	2.61	100.00	95.16	4.84	..	100.00	91.78	6.16	2.06	100.00
An	94.82	4.81	0.37	100.00	100.00	..	..	100.00	95.24	4.42	0.34	100.00
Oppey	98.39	1.21	0.40	100.00	100.00	..	..	100.00	98.60	1.05	0.35	100.00
ayam	95.24	4.17	0.59	100.00	87.50	12.50	..	100.00	94.57	4.89	0.54	100.00
tri	91.84	5.10	3.06	100.00	75.00	25.00	..	100.00	90.57	6.60	2.83	100.00
hulam	83.02	11.98	..	100.00	84.48	13.79	1.73	100.00	87.20	12.40	..	100.00
hur	89.24	10.31	0.45	100.00	96.88	3.12	..	100.00	90.20	9.41	0.39	100.00
at	86.55	13.45	..	100.00	100.00	..	..	100.00	87.40	12.60	..	100.00
ppuram	94.64	5.36	..	100.00	100.00	..	..	100.00	94.89	5.11	..	100.00
	79.17	20.83	..	100.00	..	..	..	..	79.17	20.83	..	100.00
kode	96.53	3.47	..	100.00	100.00	..	..	100.00	97.28	2.72	..	100.00
nanore	85.29	10.12	0.59	100.00	75.00	25.00	..	100.00	88.04	11.41	0.55	100.00
TOTAL:	92.47	6.99	0.54	100.00	93.15	6.44	0.41	100.00	92.54	6.93	0.53	100.00



Table: 3. Percentage distribution of new buildings by nature of construction.

.....

District	Rural				Urban				Total			
	Pucca	Semi-pucca	Katcha	Total	Pucca	Semi-pucca	Katcha	Total	Pucca	Semi-pucca	Katcha	Total
	2	3	4	5	6	7	8	9	10	11	12	13
Wandrum	42.61	25.22	32.17	100.00	69.35	9.68	20.97	100.00	48.29	21.92	29.79	100.00
Bion	58.15	15.93	25.92	100.00	70.83	4.17	25.00	100.00	59.18	14.97	25.85	100.00
Peppay	69.35	6.05	24.60	100.00	76.32	5.26	18.42	100.00	70.23	5.94	23.78	100.00
Payam	63.10	12.50	24.40	100.00	68.75	6.25	25.00	100.00	63.59	11.96	24.45	100.00
Kkhi	41.84	22.45	35.71	100.00	87.50	..	12.50	100.00	45.28	20.75	33.97	100.00
makulam	72.92	5.21	21.87	100.00	74.14	1.72	24.14	100.00	73.20	4.40	22.40	100.00
chur	60.09	15.69	24.22	100.00	78.12	6.25	15.63	100.00	62.35	14.51	23.14	100.00
ghat	40.34	23.53	36.13	100.00	50.00	25.00	25.00	100.00	40.95	23.62	35.43	100.00
appuram	50.00	13.69	36.31	100.00	25.00	25.00	50.00	100.00	48.86	14.20	36.94	100.00
ad	50.00	25.00	25.00	100.00	..	..	..	..	50.00	25.00	25.00	100.00
zhikode	63.89	10.42	25.69	100.00	67.50	7.50	25.00	100.00	64.67	9.78	25.55	100.00
ganahore	48.81	29.17	22.02	100.00	100.00	..	..	100.00	53.26	25.63	20.11	100.00
TOTAL:	57.95	15.54	26.51	100.00	66.00	7.19	26.81	100.00	58.85	14.61	26.54	100.00



Table: 4(a). Percentage distribution of non-building construction by nature of construction.

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Rural/Urban

Districts	Pucca wells, tube wells and tanks		Katcha well, ponds, tanks, embankment, check dams, channels & other irrigation works		Laying of orchards and plantations		Cattlesheds poultry sheds and other sheds and platforms		Katcha roads, buildings, raising & levelling of land and other land improvement works		Others		All non-buildings	
	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban
	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Wandrum	8.7	..	2.2	..	15.2	..	58.7	50.0	13.0	50.0	2.2	..	100.0	100.0
Chollon	..	5.8	..	2.9	63.6	46.1	..	..	36.4	26.9	..	18.3	100.0	100.0
Alleppey	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Pattayam	16.2	..	2.7	..	19.0	12.5	27.7	37.5	8.3	37.5	26.1	12.5	100.0	100.0
Maduri	6.6	..	12.4	..	48.9	50.0	23.4	50.0	7.3	..	1.4	..	100.0	100.0
Idukulam	32.4	25.0	23.6	5.0	1.4	..	9.5	..	8.1	..	25.0	70.0	100.0	100.0
Kochur	49.2	42.9	36.5	57.1	3.6	..	5.8	..	4.7	..	5.2	..	100.0	100.0
Chattat	18.9	..	43.4	..	5.7	..	18.4	..	13.2	..	..	..	100.0	100.0
Chappuram	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wynad	..	..	12.5	..	8.4	..	41.6	..	37.5	..	..	..	100.0	100.0
Calicut	6.3	..	5.4	5.3	11.7	..	5.4	13.2	12.6	2.6	58.6	78.9	100.0	100.0
Cannanore	37.4	9.1	19.8	..	9.4	..	8.5	..	17.3	..	7.6	90.9	100.0	100.0
STATE:	24.79	20.62	16.76	7.10	14.93	1.45	14.45	15.42	13.39	8.36	15.68	47.05	100.00	100.00





Table: 4(b). Percentage distribution of building constructions (alterations) by nature of construction.

District	Addition to floor space of building			Alteration and improvement			All		
	Rural	Urban	Total	Rural	Urban	Total	Rural	Urban	Total
1	2	3	4	5	6	7	8	9	10
Idiandrum	27.16	20.31	25.68	72.84	79.69	74.32	100.00	100.00	100.00
Alion	46.64	50.00	46.92	53.36	50.00	53.08	100.00	100.00	100.00
Oppoy	37.65	43.59	38.46	62.35	56.41	61.54	100.00	100.00	100.00
Bayam	32.74	18.75	31.52	67.26	81.25	68.48	100.00	100.00	100.00
akkri	33.33	25.00	32.74	66.67	75.00	67.26	100.00	100.00	100.00
Ennakulam	50.00	49.47	48.83	50.00	50.53	51.17	100.00	100.00	100.00
Trichur	33.78	25.00	32.68	66.22	75.00	67.32	100.00	100.00	100.00
Palghat	17.50	25.00	17.97	82.50	75.00	82.03	100.00	100.00	100.00
Malappuram	25.59	12.50	25.00	74.41	87.50	75.00	100.00	100.00	100.00
mad	4.17	..	4.17	95.83	..	95.83	100.00	100.00	100.00
ilicut	15.28	25.00	17.39	84.72	75.00	82.61	100.00	100.00	100.00
annanore	33.93	50.00	32.07	66.07	50.00	67.93	100.00	100.00	100.00
STATE:	29.77	31.20	29.90	70.23	68.80	70.10	100.00	100.00	100.00



Table 5.1  
Percentage distribution of works by agency of construction  
Trivandrum District

Nature of construction	URBAN				RURAL				TOTAL			
	Household	Other organised Agency	Contra-ctor	Total	Household	Other organised agency	Contra-ctor	Total	Household	Other organised agency	Contra-ctor	Total
1	2	3	4	5	6	7	8	9	10	11	12	13
1. New building	98.39	1.61	-	100.00	93.26	1.74	-	100.00	98.29	1.71	-	100.00
2. Addition to floor space of building.	100.00	-	-	100.00	100.00	-	-	100.00	100.00	-	-	100.00
3. Alteration and improvement of building.	100.00	-	-	100.00	99.41	0.59	-	100.00	99.55	0.45	-	100.00
4. All Building (to total)	99.21	0.79	-	100.00	98.92	1.08	-	100.00	98.98	1.02	-	100.00
5. Pucca wells, Tube wells and Tank.	-	-	-	-	100.00	-	-	100.00	100.00	-	-	100.00
6. Kutcha wells, Ponds tanks, embankment check dams, channels & other irrigation work.	-	-	-	-	100.00	-	-	100.00	100.00	-	-	100.00
7. Laying of orchards and plantation	-	-	-	-	100.00	-	-	100.00	100.00	-	-	100.00
8. Cattle sheds, poultry sheds, other sheds and platforms.	100.00	-	-	100.00	100.00	-	-	100.00	100.00	-	-	100.00
9. Kutcha roads, building raising & levelling of land & other land improvement works.	100.00	-	-	100.00	83.33	-	16.67	100.00	85.71	-	14.29	100.00
10. Others specify	-	-	-	-	100.00	-	-	100.00	100.00	-	-	100.00
11. All Non-building Sub-Total	100.00	-	-	100.00	97.83	-	2.17	100.00	97.92	-	2.08	100.00
12. All construction	99.22	0.78	-	100.00	98.82	10.98	0.20	100.00	98.90	0.94	0.16	100.00

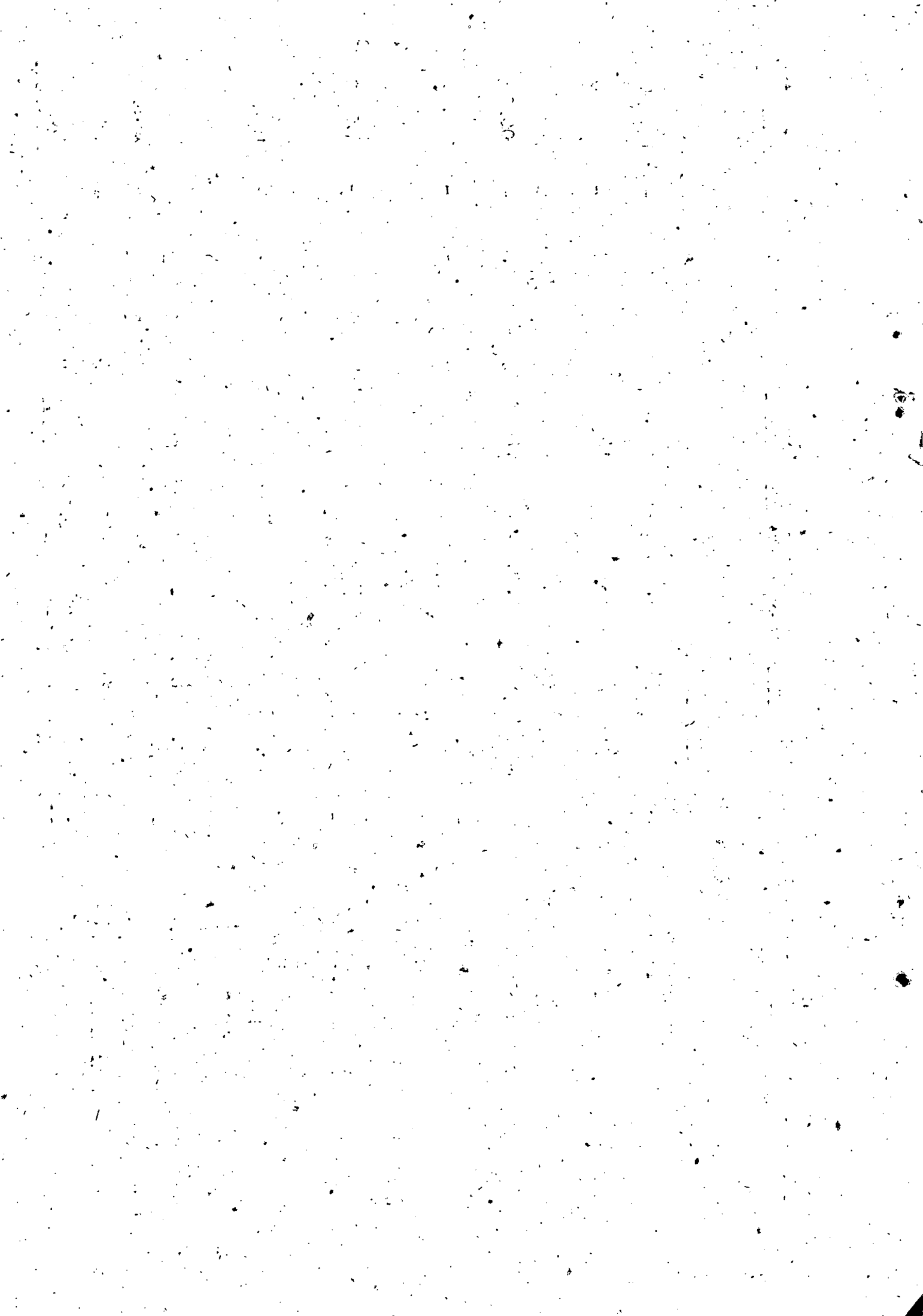


Table 5.2  
 Percentage distribution of works by agency of construction

Type of construction	Quilon District												
	URBAN					RURAL					total		
	Household	Other orga-nised agency	Contra-ctor	To-tal	Household	Other orga-nised agency	Contra-ctor	To-tal	Other orga-nised agency	To-tal			
1	2	3	4	5	6	7	8	9	10	11	12	13	
1. Building	100.00	-	-	-	100	97.78	2.22	-	100	97.96	2.04	-	100
2. Addition to floor	100.00	-	-	-	100	98.40	1.60	-	100	98.54	1.46	-	100
3. Repairs of building	100.00	-	-	-	100	97.20	2.80	-	100	97.42	2.58	-	100
4. Renovation and improve-ment of buildings	100.00	-	-	-	100	92.77	2.23	-	100	97.95	2.05	-	100
5. Plaster buildings	-	-	-	-	-	100.00	-	-	100	100.00	-	-	100
6. Trench wells, tube wells and tanks	-	-	-	-	-	100.00	-	-	100	100.00	-	-	100
7. Trench wells, Ponds, tanks, embankment, check dams, channels and other irrigation works	-	-	-	-	-	100.00	-	-	100	100.00	-	-	100
8. Laying of orchards and plantations	100.00	-	-	-	100	100.00	-	-	100	100.00	-	-	100
9. Cattle sheds, Poultry sheds, other sheds and platforms	-	-	-	-	-	-	-	-	-	-	-	-	-
10. Katcha roads, building raising and levelling of land and land improve-ment works	100.00	-	-	-	100	100.00	-	-	100	100.00	-	-	100
11. Others specify	-	-	-	-	-	-	-	-	-	-	-	-	-
12. All non-building sub-total	100.00	-	-	-	100	100.00	-	-	100	100.00	-	-	100
13. All constructions	100.00	-	-	-	100	98.13	1.87	-	100	98.29	1.71	-	100



Table 5.3

Percentage distribution of works by agency of construction

Alleppey District

Nature of construction	URBAN					RURAL					TOTAL		
	Household	Other orga-nised Agency	Contra-ctor	To-tal	Household	Other orga-nised Agency	Contra-ctor	To-tal	Household	Other orga-nised Agency	Contra-ctor	To-tal	
	2	3	4	5	6	7	8	9	10	11	12	13	
1. New building	100.00	-	-	100	100.00	-	-	100	100.00	-	-	100	
2. Addition to floor space of building	100.00	-	-	100	100.00	-	-	100	100.00	-	-	100	
3. Alteration and improvement of building.	100.00	-	-	100	100.00	-	-	100	100.00	-	-	100	
4. All buildings.	100.00	-	-	100	100.00	-	-	100	100.00	-	-	100	
5. Pucca wells, tube wells & tanks.	-	-	-	-	-	-	-	100	100.00	-	-	100	
6. Kutcha wells, Ponds Tanks, embankment, check dam, channels and other irrigation works.	-	-	-	-	-	-	-	-	-	-	-	-	
7. Laying of orchards and plantations.	-	-	-	-	-	-	-	-	-	-	-	-	
8. Cattle sheds, Poultry sheds, other sheds and platforms.	-	-	-	-	-	-	-	-	-	-	-	-	
9. Kutcha roads, building raising and levelling of land and land improvement works.	-	-	-	-	-	-	-	-	-	-	-	-	
10. Others specify	-	-	-	-	-	-	-	-	-	-	-	-	
11. All non-building sub-total	-	-	-	-	-	-	-	-	-	-	-	-	
12. All constructions	100.00	-	-	100	100.00	-	-	100	100.00	-	-	100	



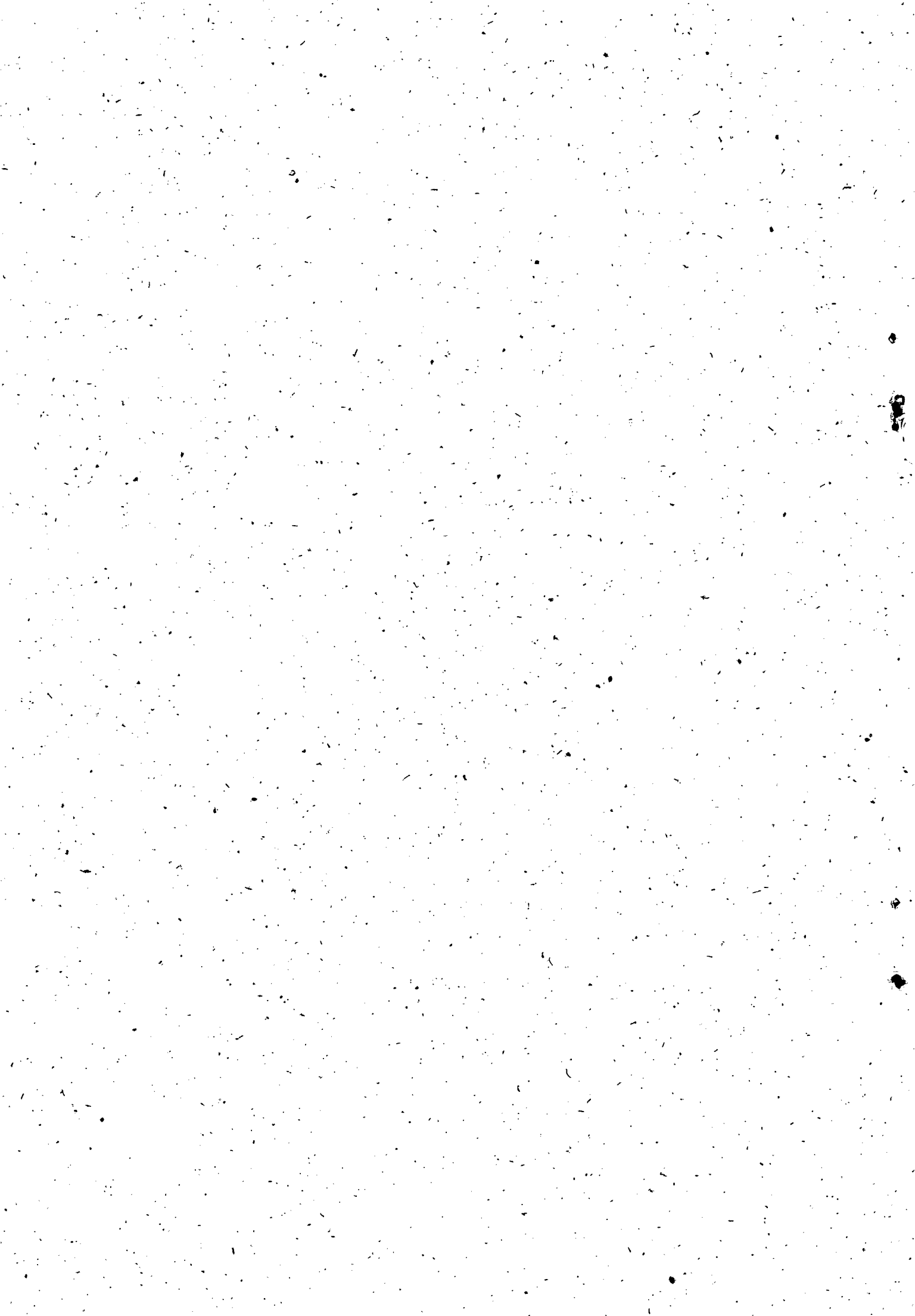


Table 5.4

## Percentage distribution of works by agency of construction

Kottayam District

Type of construction	URBAN				RURAL				TOTAL			Total
	Household	Other organised agency	Contractor	Other	Household	Other organised agency	Contractor	Other	Household	Other organised agency	Contractor	
1	2	3	4	5	6	7	8	9	10	11	12	13
1. New building	100.00	-	-	100	99.40	0.60	-	100	99.46	0.54	-	100
2. Addition to floor space of building	100.00	-	-	100	100.00	-	-	100	100.00	-	-	100
3. Alteration and improvement of building.	100.00	-	-	100	100.00	-	-	100	100.00	-	-	100
4. All Buildings	100.00	-	-	100	99.70	0.30	-	100	99.73	0.27	-	100
5. Bore wells, tube wells & Tanks.	-	-	-	-	95.12	-	4.88	100	95.12	-	4.88	100
6. Kutchha wells, Ponds, tanks, embankment check dams, channels and other irrigation work	-	-	-	-	100.00	-	-	100	100.00	-	-	100
7. Laying of orchards & Plantation	100.00	-	-	100	100.00	-	-	100	100.00	-	-	100
8. Cattle sheds, poultry sheds, other sheds & Platforms.	100.00	-	-	100	100.00	-	-	100	100.00	-	-	100
9. Kutchha roads, building, raising and levelling of land & other land improvement works.	100.00	-	-	100	100.00	-	-	100	100.00	-	-	100
10. Others specify.	100.00	-	-	100	100.00	-	-	100	100.00	-	-	100
11. All non-building	100.00	-	-	100	99.21	-	0.79	100	99.23	-	0.77	100
Sub Total	100.00	-	-	100	99.49	0.17	0.34	100	99.52	0.16	0.32	100
12. All construction	100.00	-	-	100	99.49	0.17	0.34	100	99.52	0.16	0.32	100

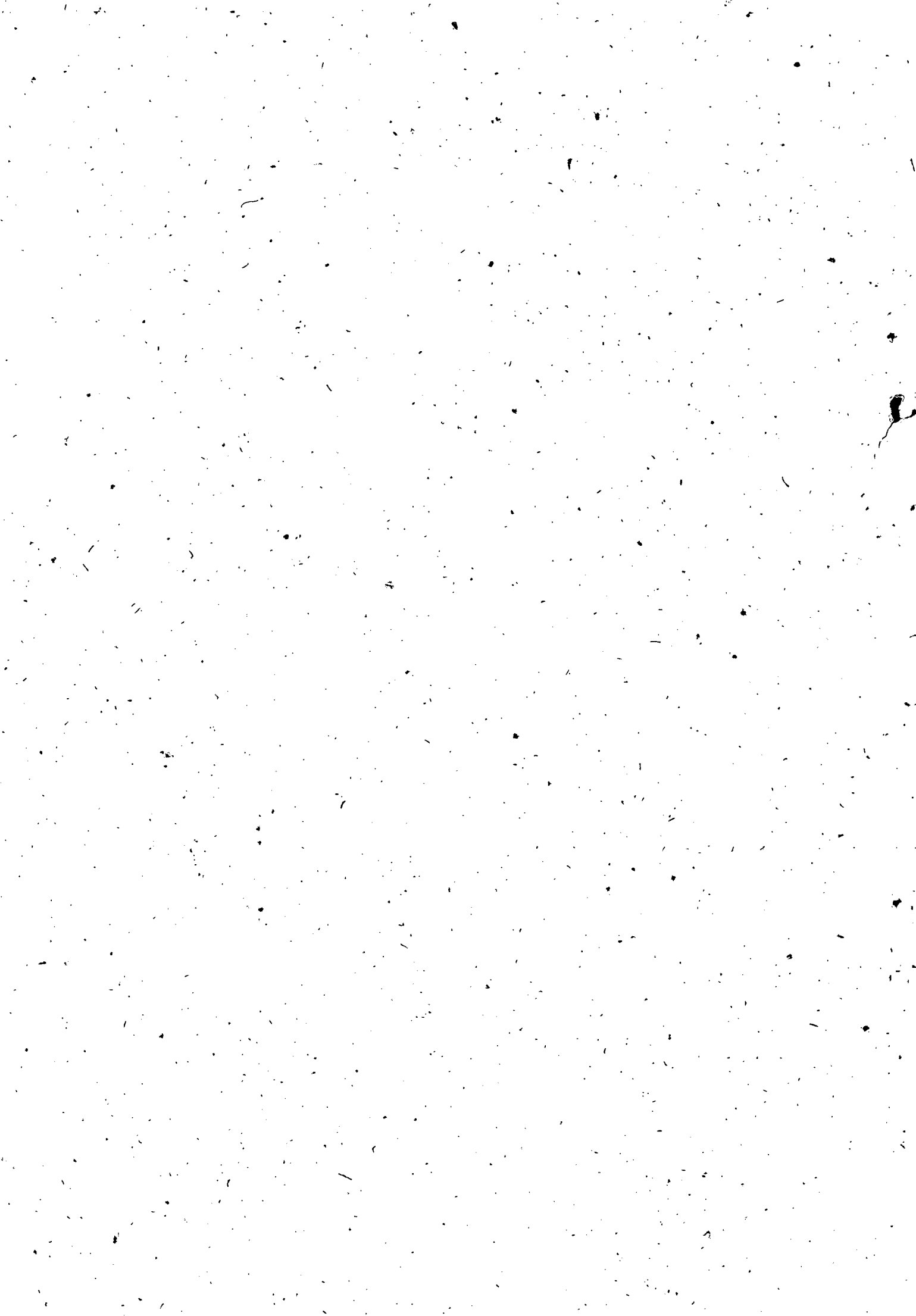


Table 5.5

## Percentage distribution of works by agency of construction

Idukki District

Nature of construction	URBAN				URBAN				TOTAL			
	Household	Other organised agency	Contractor	Total	Household	Other organised agency	Contractor	Total	Household	Other organised agency	Contractor	Total
	2	3	4	5	6	7	8	9	10	11	12	13
1. New building	87.50	-	12.50	100	100.00	-	-	100	99.06	-	0.94	100
2. Addition to floor space of building.	100.00	-	-	100	97.14	-	2.86	100	97.30	-	2.70	100
3. Alteration & improvement of building.	100.00	-	-	100	100.00	-	-	100	100.00	-	-	100
4. All buildings	93.75	-	6.25	100	99.51	-	0.49	100	99.09	-	0.91	100
5. Pucca wells, tube wells & Tanks.	-	-	-	-	100.00	-	-	100	100.00	-	-	100
6. Kutcha wells, Ponds, tanks, embarkment check dams, channels & other irrigation works.	-	-	-	-	100.00	-	-	100	100.00	-	-	100
7. Laying of orchards & plantation.	100.00	-	-	100	100.00	-	-	100	100.00	-	-	100
8. Cattle sheds, poultry sheds, other sheds & platforms.	-	100.00	-	100	90.63	6.25	3.12	100	87.88	9.09	3.03	100
9. Kutcha roads, building, raising and levelling of land & other land improvement works.	-	-	-	-	50.00	40.00	10.00	100	50.00	40.00	10.00	100
10. Others specify	-	-	-	-	100.00	-	-	100	100.00	-	-	100
11. All Non-building Sub total	50.00	50.00	-	100	94.16	4.38	1.46	100	93.52	5.04	1.44	100
12. All constructions	88.88	5.56	5.56	100	97.36	1.76	0.88	100	96.92	1.96	1.12	100

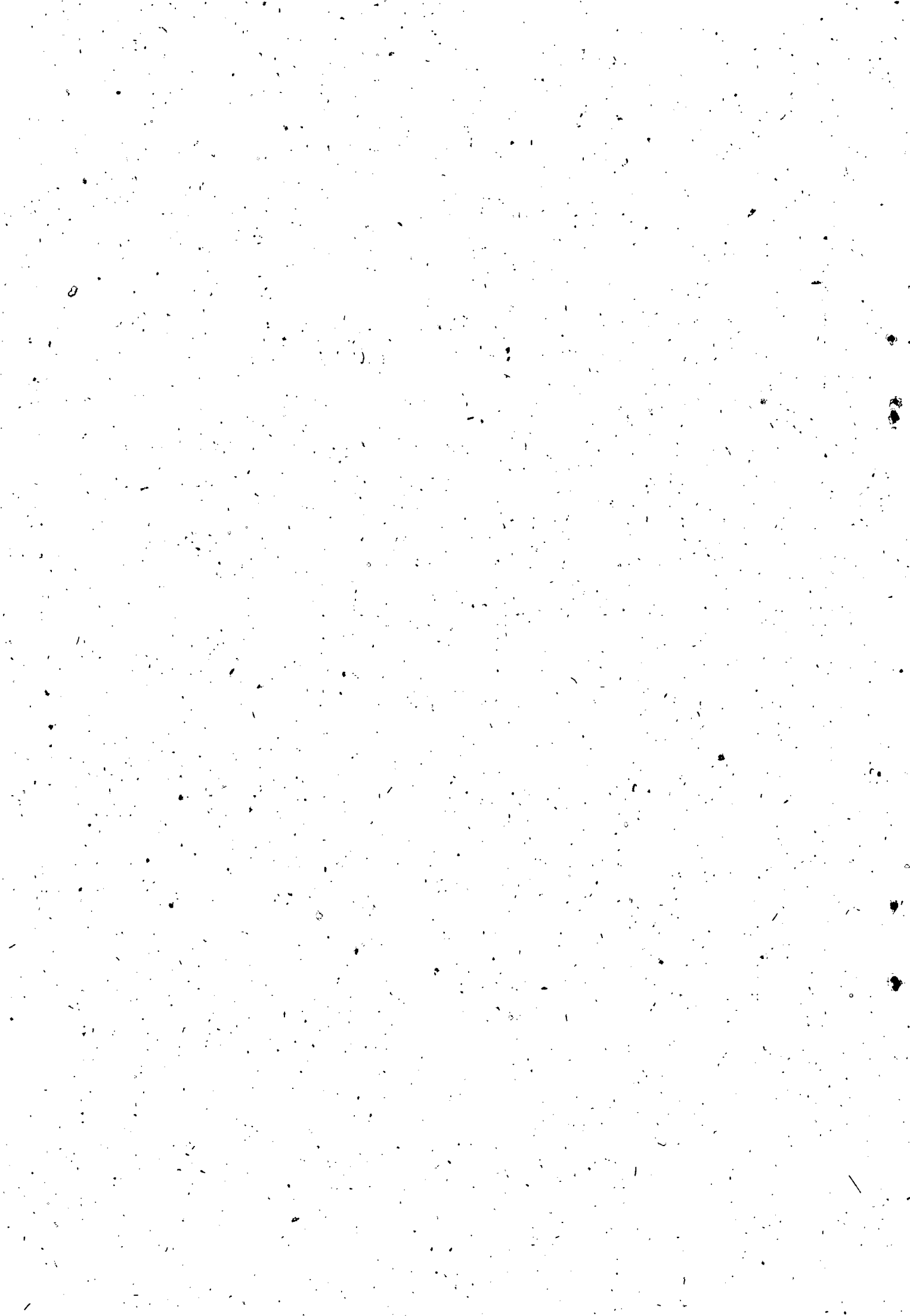


Table 5.6.

Percentage distribution of works by agency of construction - ERNAKULAM district

Nature of construction	Household	URBAN		Total	Household	RURAL		Total	Household	TOTAL		Total
		other organized agency	contractor			other organized agency	contractor			other organized agency	contractor	
	2	3	4	5	6	7	8	9	10	11	12	13
1. New building	96.55	3.45	..	100	99.48	0.52	..	100	98.80	1.20	..	100
2. Addition to floor space of building	100.00	..	..	100	97.92	2.08	..	100	98.40	1.60	..	100
3. Alteration and improvement of building	100.00	..	..	100	100.00	..	..	100	100.00	..	..	100
4. All building (Total)	98.36	1.64	..	100	99.22	0.78	..	100	99.01	0.99	..	100
5. Pucca wells, tube wells and Tank	40.00	..	60.00	100	85.42	..	14.58	100	81.13	..	18.87	100
6. Katcha wells, ponds tanks, embarkent check dams, channels & other irrigation work	..	..	100.00	100	85.71	..	14.29	100	83.33	..	16.67	100
7. Laying of orchards and plantation	..	..	..	..	100.00	..	..	100	100.00	..	..	100
8. Cattle sheds, poultry sheds and other sheds & platforms..	..	..	..	..	100.00	..	..	100	100.00	..	..	100
9. Katcha roads, building raising and levelling of lands & other land improvement works	..	..	..	..	100.00	..	..	100	100.00	..	..	100
10. Others specify	100.00	..	..	100	89.19	..	10.81	100	92.16	..	7.84	100
11. All Non building Sub.Total	80.00	..	20.00	100	89.19	..	10.81	100	88.10	..	11.90	100
12. All construction	95.77	1.41	2.82	100	96.43	0.56	3.01	100	96.29	0.74	2.97	100

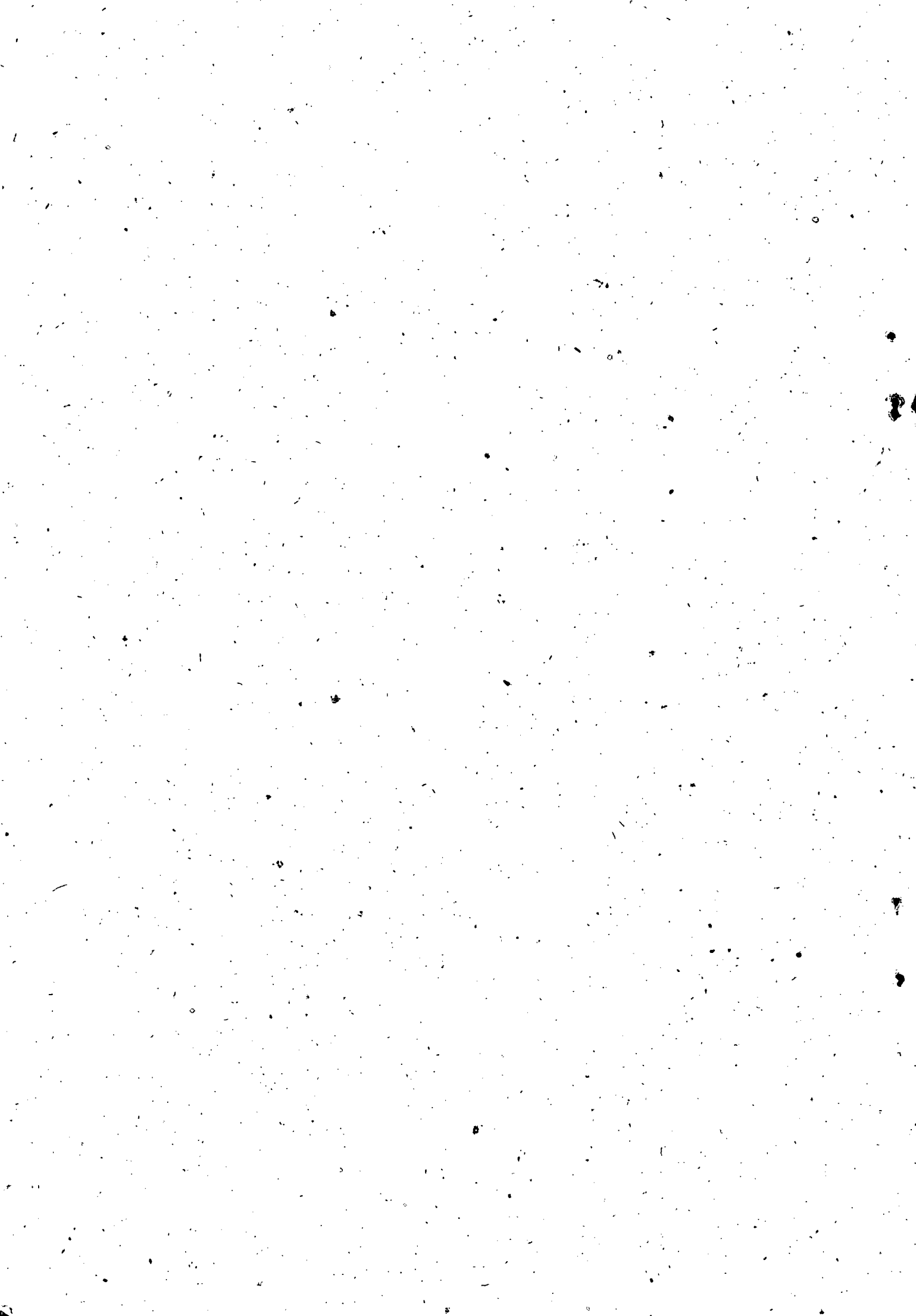


Table 5.7.

## Percentage distribution of works by agency of construction - TRICHUR District

Name of construction	Household.	URBAN			RURAL				TOTAL			
		other organized agency	contractor	Total	Household	Other organized agency	Contractor	Total	Household	other organized agency	contractor	Total
1	2	3	4	5	6	7	8	9	10	11	12	13
1. Building	100.00	..	..	100	98.21	1.79	..	100	98.43	1.57	..	100
Addition to floor	100.00	..	..	100	97.37	2.63	..	100	97.62	2.38	..	100
Repair of building	100.00	..	..	100	100.00	..	..	100	100.00	..	..	100
Alteration and improvement of building	100.00	..	..	100	93.66	1.34	..	100	98.83	1.17	..	100
2. Katcha wells, tube wells and Tank	..	..	100.00	100	55.32	..	44.68	100	53.61	..	46.39	100
3. Katcha wells, ponds, tanks embankment check dams channels & other irrigation work	100.00	..	..	100	91.67	1.67	6.66	100	92.19	1.56	6.25	100
4. Laying of orchards and plantation	..	..	..	..	71.43	..	28.57	100	71.43	..	28.57	100
5. Cattle sheds, poultry sheds other sheds & platforms..	..	..	..	..	81.82	..	18.18	100	81.82	..	18.18	100
6. Katcha roads, building raising & levelling of lands & other improvement works	..	..	..	..	100.00	..	..	100	100.00	..	..	100
7. Others specify	..	..	..	..	90.00	..	10.00	100	90.00	..	10.00	100
8. All Non building Sub Total	57.14	..	42.86	100	72.77	0.52	26.71	100	72.22	0.51	27.27	100
9. All construction	95.77	..	4.23	100	90.92	1.10	7.98	100	91.41	0.99	7.60	100



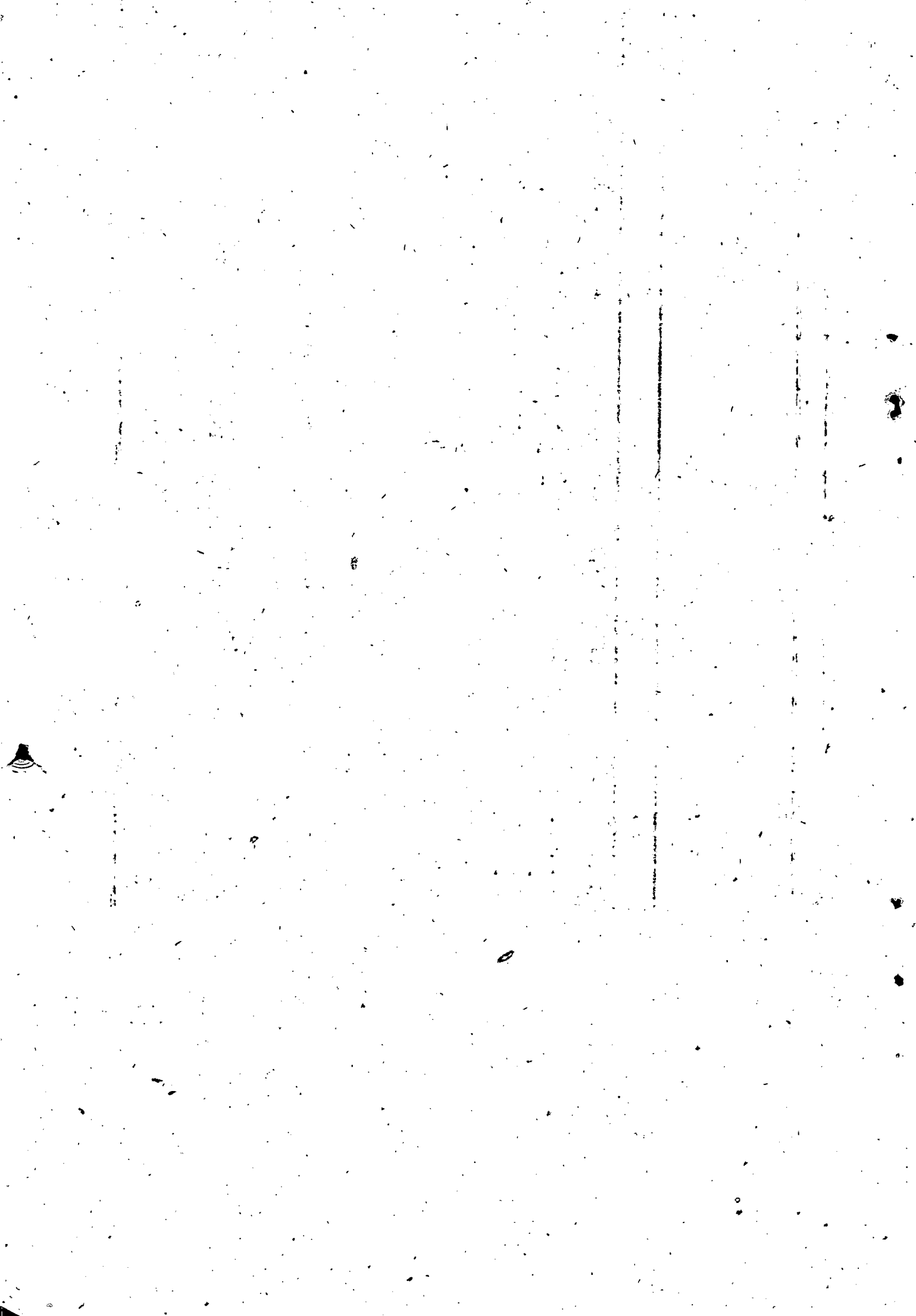


Table 5.8.

## Percentage distribution of works by agency of construction - PALGHAT District

Type of construction	Household	URBAN		Total	Household	RURAL		Total	TOTAL			Total
		Other organised agency	Contractor			other organised agency	contractor		household	other organised agency	contractor	
1	2	3	4	5	6	7	8	9	10	11	12	13
1. New building	100.00	..	..	100	97.48	2.52	..	100	97.64	2.36	..	100
2. Addition to floor space of building	100.00	..	..	100	100.00	..	..	100	100.00	..	..	100
3. Alteration and improvement of building	100.00	..	..	100	100.00	..	..	100	100.00	..	..	100
4. All building (Total)	100.00	..	..	100	98.74	1.26	..	100	98.82	1.18	..	100
5. Bucca wells, tube wells and tank	..	..	..	..	100.00	..	..	100	100.00	..	..	100
6. Katcha wells, ponds tanks, embarkment check dams, channels & other irrigation work	..	..	..	..	100.00	..	..	100	100.00	..	..	100
7. Laying of orchards and plantation	..	..	..	..	100.00	..	..	100	100.00	..	..	100
8. Cattle sheds, poultry sheds, other sheds and platforms	..	..	..	..	100.00	..	..	100	100.00	..	..	100
9. Katcha roads, building raising & levelling of lands & other improvement works	..	..	..	..	100.00	..	..	100	100.00	..	..	100
10. Others specify	..	..	..	..	..	..	..	..	..	..	..	..
11. All Non Building Sub Total	..	..	..	..	100.00	..	..	100	100.00	..	..	100
12. All construction	100.00	..	..	100	98.97	1.03	..	100	99.03	0.97	..	100

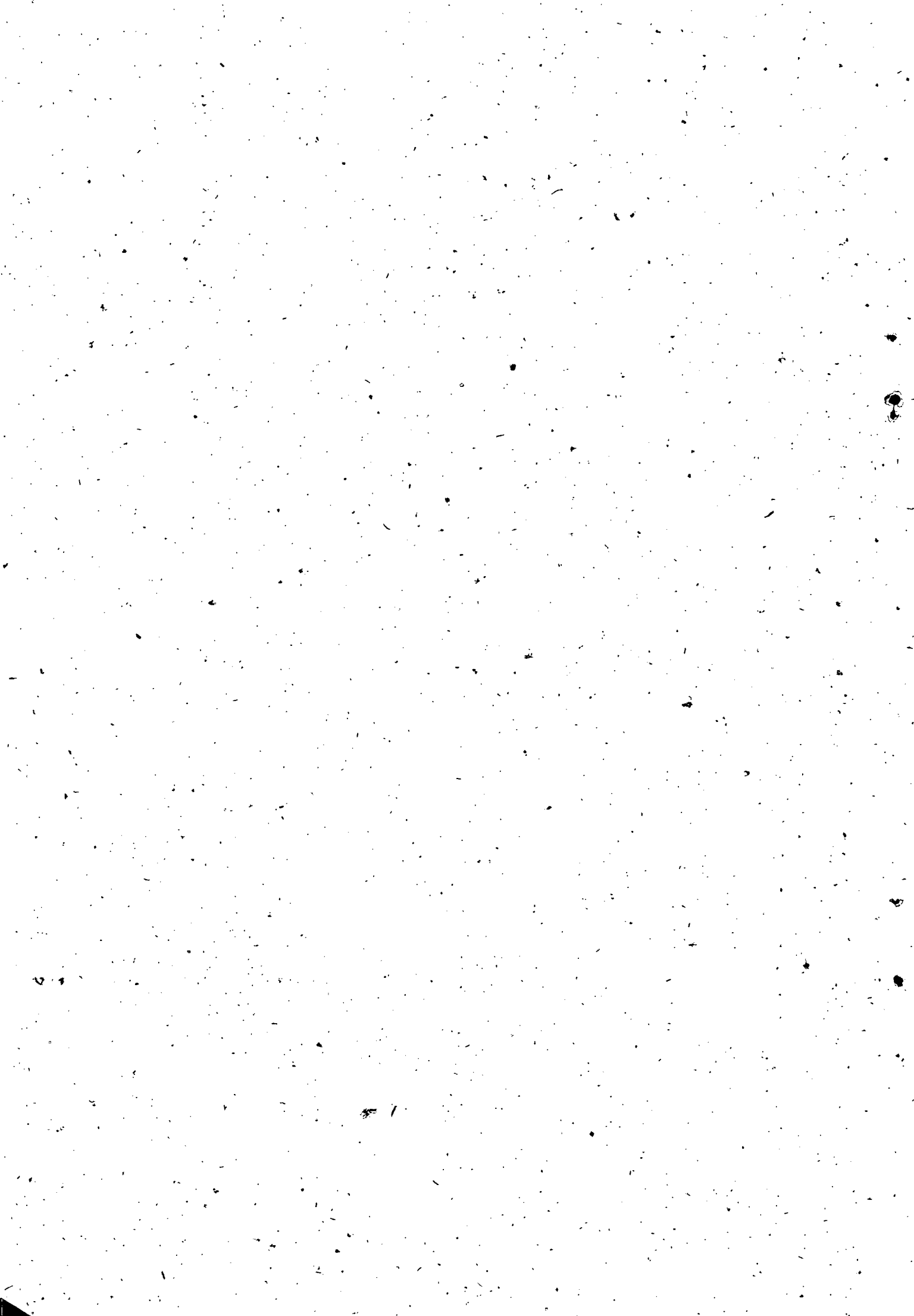


Table 5.9.

## Percentage distribution of works by agency of construction - MALAPPURAM District

Nature of construction	URBAN			Total	RURAL			Total	TOTAL			Total
	household	other organised agency	contractor		household	other organised agency	contractor		household	other organised agency	contractor	
1	2	3	4	5	6	7	8	9	10	11	12	13
1. New building	100.00	..	..	100	100.00	..	..	100	100.00	..	..	100
2. Addition to floor space of building	100.00	..	..	100	100.00	..	..	100	100.00	..	..	100
3. Alteration and improvement of building	100.00	..	..	100	100.00	..	..	100	100.00	..	..	100
4. All building (Total)	100.00	..	..	100	100.00	..	..	100	100.00	..	..	100
5. Pucca wells, tube wells and Tank	..	..	..	..	..	..	..	..	..	..	..	..
6. Katcha wells, ponds, tanks embarkment check dams channels & other irrigation work	..	..	..	..	..	..	..	..	..	..	..	..
7. Laying of orchards and plantation	..	..	..	..	..	..	..	..	..	..	..	..
8. Cattle sheds, poultry sheds other sheds & platforms	..	..	..	..	..	..	..	..	..	..	..	..
9. Katcha roads, building raising & levelling of lands & other improvement works	..	..	..	..	..	..	..	..	..	..	..	..
10. Others specify	..	..	..	..	..	..	..	..	..	..	..	..
11. All Non building Sub Total	..	..	..	..	..	..	..	..	..	..	..	..
12. All construction	100.00	..	..	100	100.00	..	..	100	100.00	..	..	100.00



Table 5.10.

Percentage distribution of works by agency of construction - WYNAD District  
(No Urban sample)  
 .....

Nature of construction	RURAL				TOTAL			
	Household	other organised agency	contractor	Total	household	other organised agency	contractor	Total
1	6	7	8	9	10	11	12	13
New building	100.00	..	..	100.00	100.00	..	..	100
Addition to floor space of building	100.00	..	..	100	100.00	..	..	100
Alteration and improvement of building	100.00	..	..	100.00	100.00	..	..	100
All building (Total)	100.00	..	..	100.00	100.00	..	..	100
Pucca wells, tube wells and Tank	..	..	..	..	..	..	..	..
Katcha wells, ponds, tanks, embarkment check dams, channels & other irrigation work	100.00	..	..	100	100.00	..	..	100
Laying of orchards and plantation	100.00	..	..	100	100.00	..	..	100
Cattle sheds, poultry sheds, other sheds and platforms	100.00	..	..	100	100.00	..	..	100
Katcha roads, building raising & levelling of lands & other improvement works	100.00	..	..	100	100.00	..	..	100
10. Others specify	..	..	..	..	..	..	..	..
11. All Non building Sub Total	100.00	..	..	100	100.00	..	..	100
12. All construction	100.00	..	..	100	100.00	..	..	100



Table 5.11  
Percentage distribution of works by agency of construction

Kozhikode District

Nature of construction	URBAN				RURAL				TOTAL			
	House- hold	Other orga- nised agency	Con- tra- ctor	To- tal	House- hold	Other orga- nised agency	Con- tra- ctor	To- tal	House- hold	Other orga- nised agency	Con- tra- ctor	To- tal
1	2	3	4	5	6	7	8	9	10	11	12	13
New building	95.00	5.00	-	100	100.00	-	-	100	98.91	-	1.09	100
Addition to floor space of building	100.00	-	-	100	100.00	-	-	100	100.00	-	-	100
Alteration & improve- ment of building.	100.00	-	-	100	100.00	-	-	100	100.00	-	-	100
All buildings	97.50	2.50	-	100	100.00	-	-	100	99.46	0.54	-	100
Pucca wells, Tube wells and Tanks.	-	-	-	-	100.00	-	-	100	100.00	-	-	100
Kutcha wells, Ponds, Tanks, embarkment check dams, channels and other irriga- tion works.	100.00	-	-	100	100.00	-	-	100	100.00	-	-	100
Laying of orchards and plantation	-	-	-	-	100.00	-	-	100	100.00	-	-	100
Cattle sheds, poultry sheds, other sheds and platforms.	100.00	-	-	100	100.00	-	-	100	100.00	-	-	100
Kutcha roads, build- ing raising & levell- ing of land & other land improvement works.	100.00	-	-	100	100.00	-	-	100	100.00	-	-	200
Others specify	100.00	-	-	100	100.00	-	-	100	100.00	-	-	100
All Non-buildings												
Sub Total	100.00	-	-	100	100.00	-	-	100	100.00	-	-	100
All constructions	98.31	1.69	-	100	100.00	-	-	100	99.61	0.39	-	100



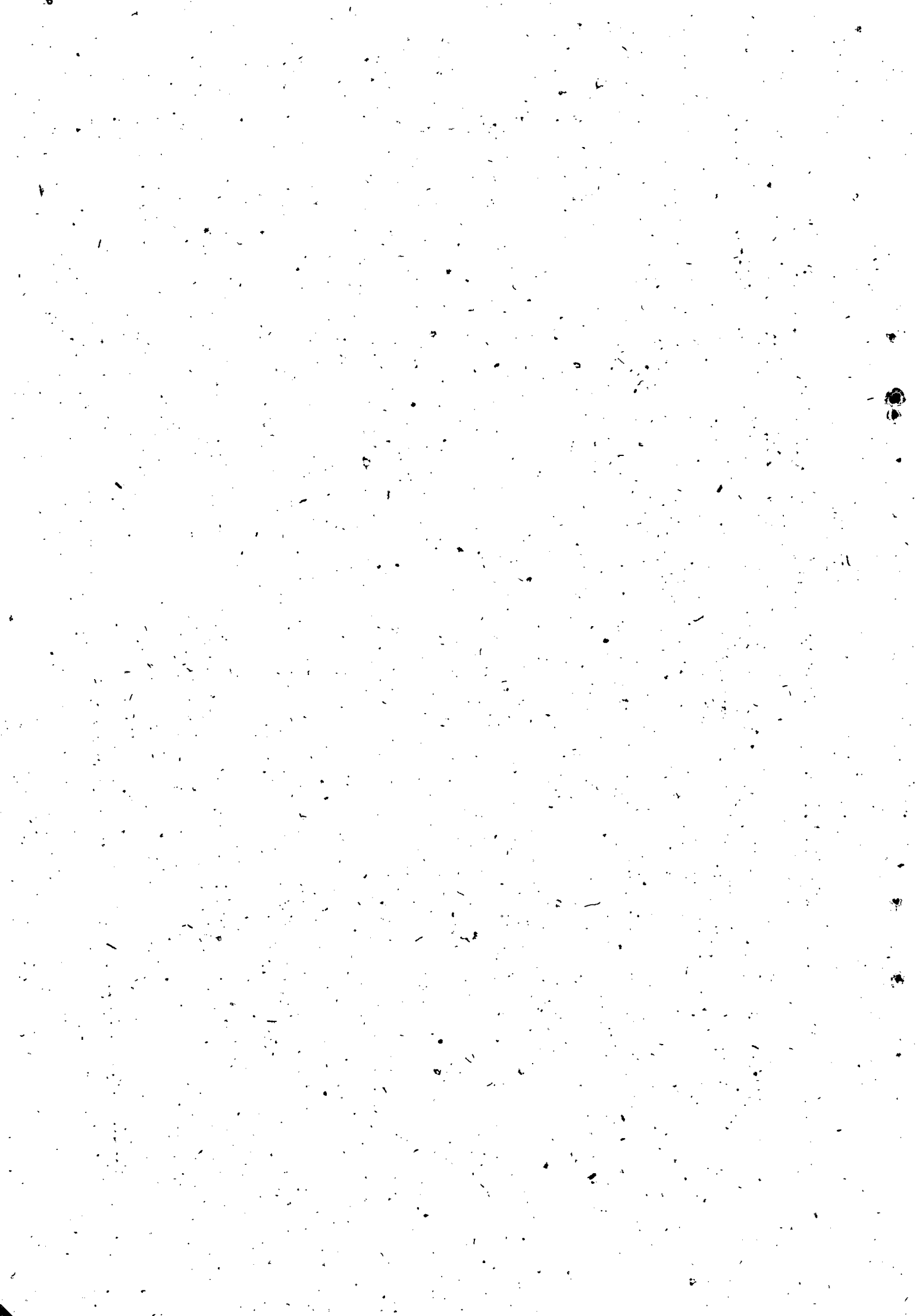


Table 5.12

## Percentage distribution of works by agency of construction

Cannanore District

Nature of construction	Urban				RUR/L				TOTAL			
	House- hold	Other orga- nised agency	Con- tra- ctor	To- tal	House- hold	Other orga- nised agency	Con- tra- ctor	To- tal	House- hold	Other orga- nised agency	Con- tra- ctor	To- tal
1	2	3	4	5	6	7	8	9	10	11	12	13
1. New building	100.00	-	-	100	100.00	-	-	100	100.00	-	-	100
2. Addition to floor space of building.	100.00	-	-	100	100.00	-	-	100	100.00	-	-	100
3. Alteration & improve- ment of building	100.00	-	-	100	100.00	-	-	100	100.00	-	-	100
4. All buildings	100.00	-	-	100	100.00	-	-	100	100.00	-	-	100
5. Pucca wells, Tube wells and Tanks.	100.00	-	-	100	100.00	-	-	100	100.00	-	-	100
6. Kutcha wells, Ponds, tanks, embankment check dams, channels & other irrigatio works	-	-	-	-	100.00	-	-	100	100.00	-	-	100
7. Laying of orchards and plantation.	-	-	-	-	100.00	-	-	100	100.00	-	-	100
8. Cattle sheds, poultry sheds, other sheds and platforms.	-	-	-	-	100.00	-	-	100	100.00	-	-	100
9. Kutcha roads, building raising & levelling of land & other land improvement works.	-	-	-	-	100.00	-	-	100	100.00	-	-	100
10. Others specify.	100.00	-	-	100	100.00	-	-	100	100.00	-	-	100
11. All non-buildings Sub-total	100.00	-	-	100	100.00	-	-	100	100.00	-	-	100
12. All constructions	100.00	-	-	100	100.00	-	-	100	100.00	-	-	100
				100	100.00			100	100.00			100

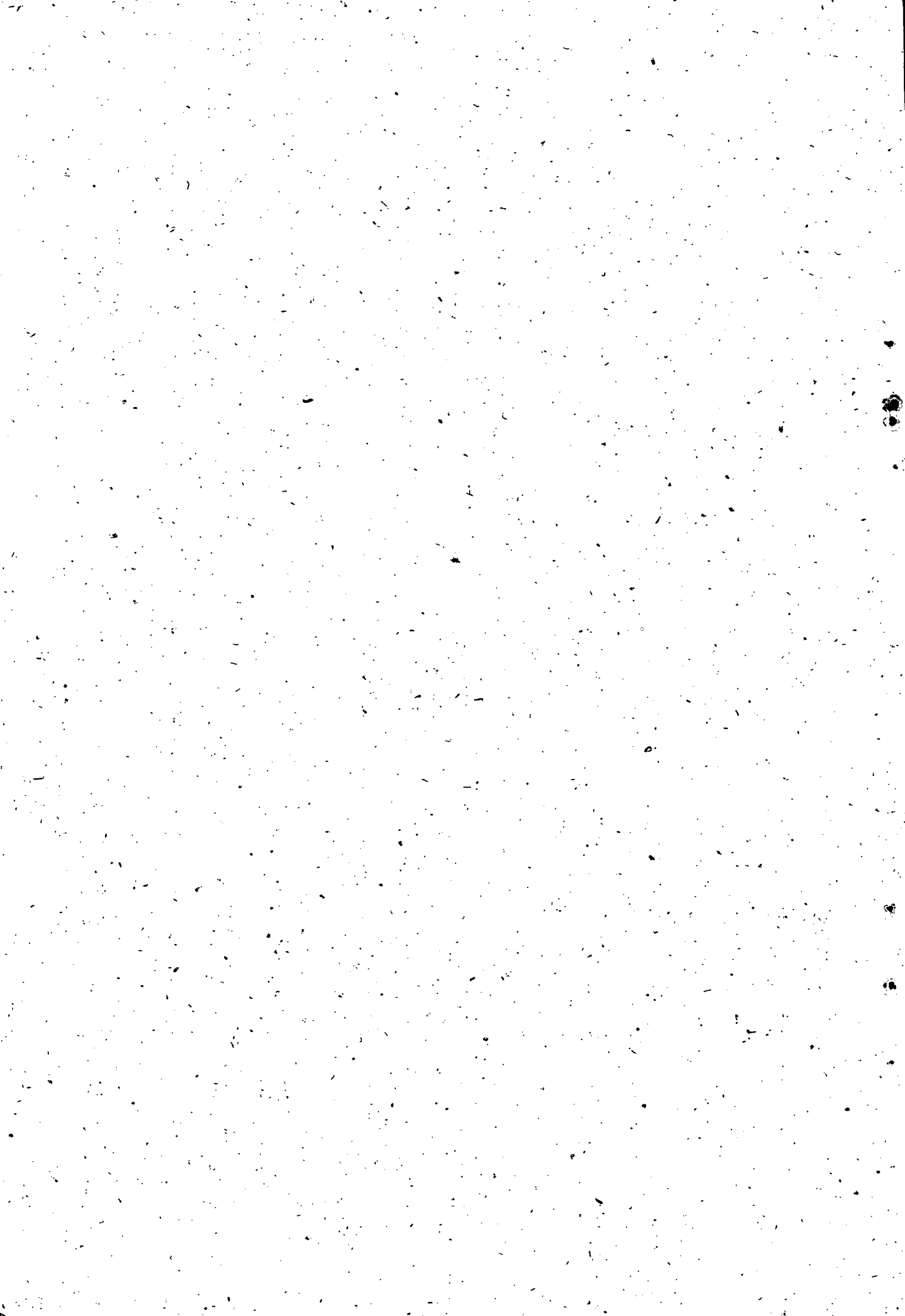
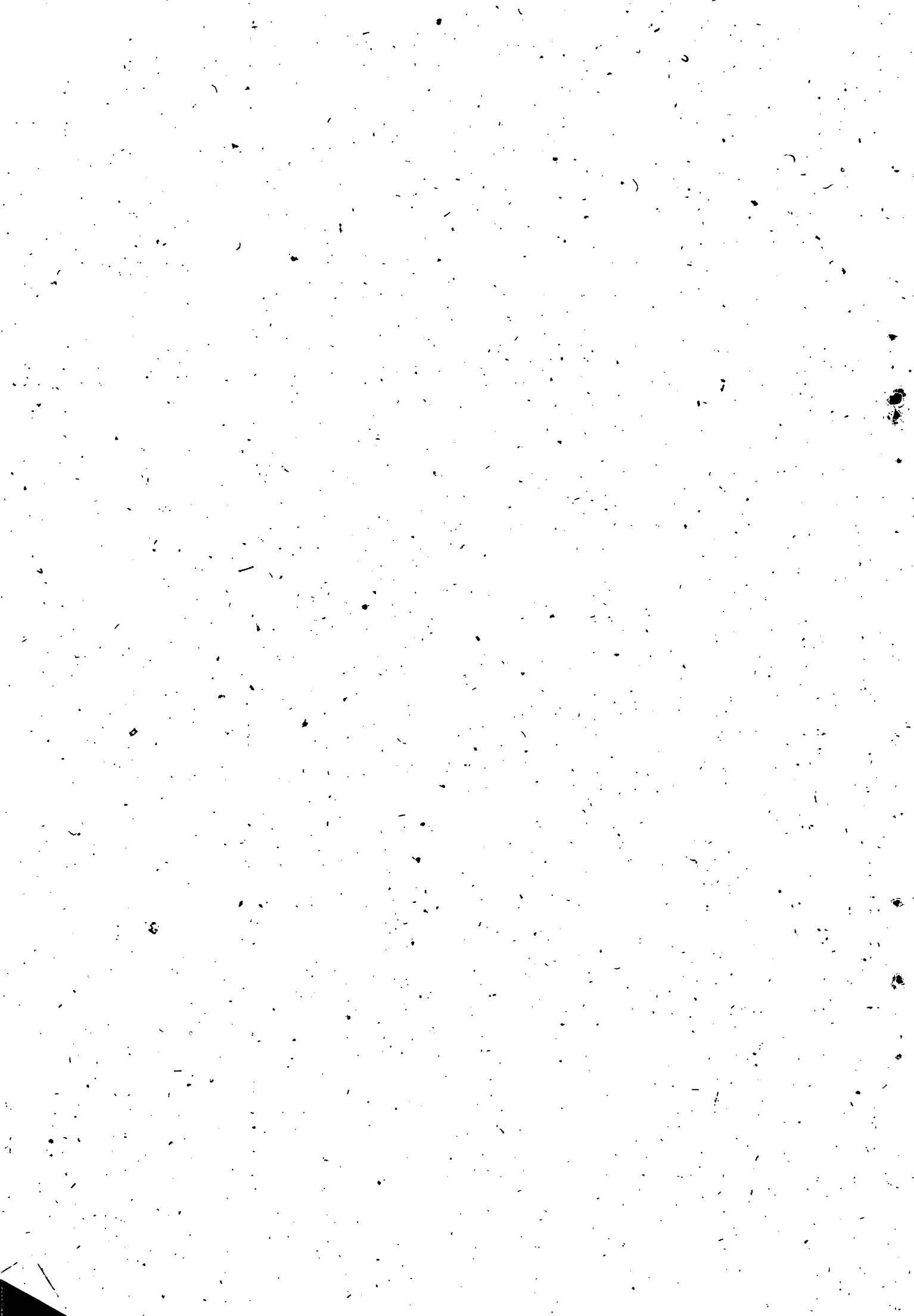


Table 6.1

Percentage distribution of construction works by construction responsibility

Trivandrum

Nature of construction	Urban						
	Owner taking household labour	With labour	Partly own labour and partly by paid labour	Partly by own labour and partly by paid labour	Wholly on contract	Partly on contract	Total
	2	3	4	5	6	7	
1. New building	1.61	46.77	22.58	29.04	-	-	100.00
2. Addition to floor space of building.	-	38.46	30.77	30.77	-	-	100.00
3. Alteration & improvement of building.	-	21.57	23.53	54.90	-	-	100.00
4. All buildings (Total)	0.80	35.71	23.81	39.68	-	-	100.00
5. Pucca wells, tube wells & tank.	-	-	-	-	-	-	-
6. Kutcha wells, ponds, tanks, embankment check dams and other irrigation works.	-	-	-	-	-	-	-
7. Laying of orchards & plantations.	-	-	-	-	-	-	-
8. Cattle sheds, poultry sheds, other sheds and platforms.	-	100.00	-	-	-	-	100.00
9. Kutcha roads, building raising and levelling of land and other improvement works.	-	100.00	-	-	-	-	100.00
10. Others specify.	-	100.00	-	-	-	-	100.00
11. All non-building - Sub-Total	-	100.00	-	-	-	-	100.00
12. All constructions Total	0.78	36.72	23.44	39.06	-	-	100.00



Nature of construction	rural					Total
	Owner under-taking with household labour	With paid labour	Partly by own labour and partly by paid labour	Wholly on contract	Partly on contract	
1	8	9	10	11	12	13
1. New building	24.79	37.39	35.65	1.74	1.43	100.00
2. Addition to floor space of building	23.81	39.68	34.92	1.59	-	100.00
3. Alteration and improvement of building.	17.16	47.34	23.08	12.42	-	100.00
4. All buildings (Total)	22.07	41.13	30.95	5.63	-	100.00
5. Pucca wells, Tube wells & Tank.	-	75.00	-	-	.22	100.00
6. Kutcha wells, Ponds, tanks, embankment check dams and other irrigation works.	-	100.00	-	-	25.00	100.00
7. Laying of orchards & plantations	-	57.14	-	42.86	-	100.00
8. Cattle sheds, poultry sheds, other sheds and platforms.	-	92.59	-	-	7.41	100.00
9. Kutcha roads, building raising and levelling of land and other improvement works.	-	83.33	-	16.67	-	100.00
10. Others specify	-	100.00	-	-	-	100.00
11. All non-building Sub-total	-	84.78	-	8.70	6.52	100.00
12. All constructions Total	20.07	45.08	28.15	5.91	.79	100.00

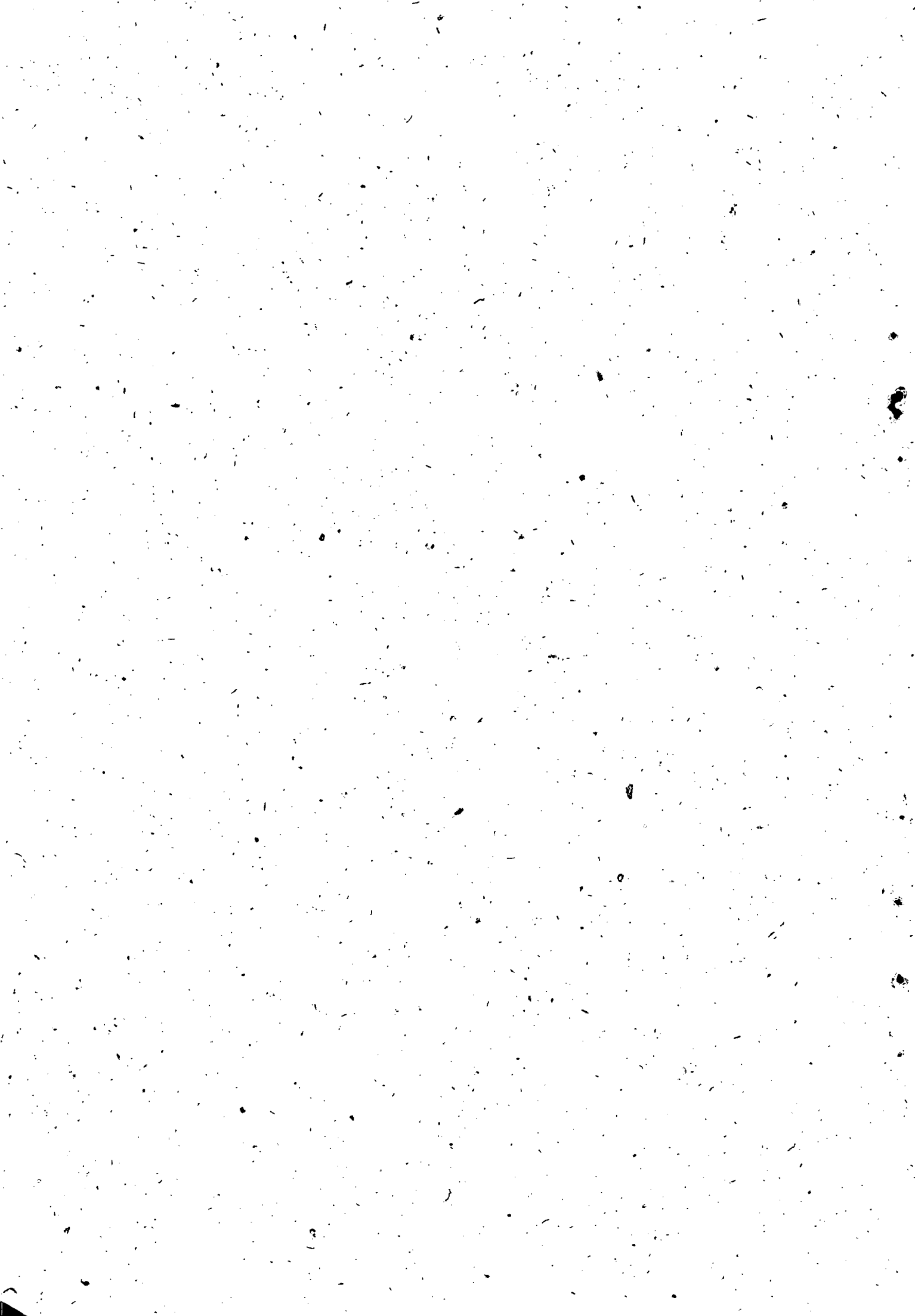


Table 6.1

Trivandrum

Nature of construction	Total					Total
	Owner under-taking with household labour	With paid labour	Partly by own labour and partly by paid labour	Wholly on contract	Partly on contract	
1	14	15	16	17	18	19
1. New building	19.86	39.38	32.88	7.53	.34	100.00
2. Addition to floor space of building	26.32	38.16	34.20	1.32	-	100.00
3. Alteration and improvement of building.	13.18	41.36	23.18	22.28	-	100.00
4. All buildings (Total)	17.52	39.97	29.42	12.93	.16	100.00
5. Rucca wells, tube wells and tank.	-	75.00	-	-	25.00	100.00
6. Kutcha wells, Ponds, tanks, embankment check dams and other irrigation works.	-	100.00	-	-	-	100.00
7. Laying of orchards and plantations.	-	57.14	-	42.86	-	100.00
8. Cattle sheds, poultry sheds, other sheds & platforms.	-	92.86	-	-	7.14	100.00
9. Kutcha roads, building raising and levelling of land and other improvement works.	-	85.71	-	14.29	-	100.00
10. Others - specify	-	100.00	-	-	-	100.00
11. All non-building - sub-total	-	85.42	-	-	-	100.00
12. All constructions - Total	16.19	43.40	27.20	12.58	7.63	100.00



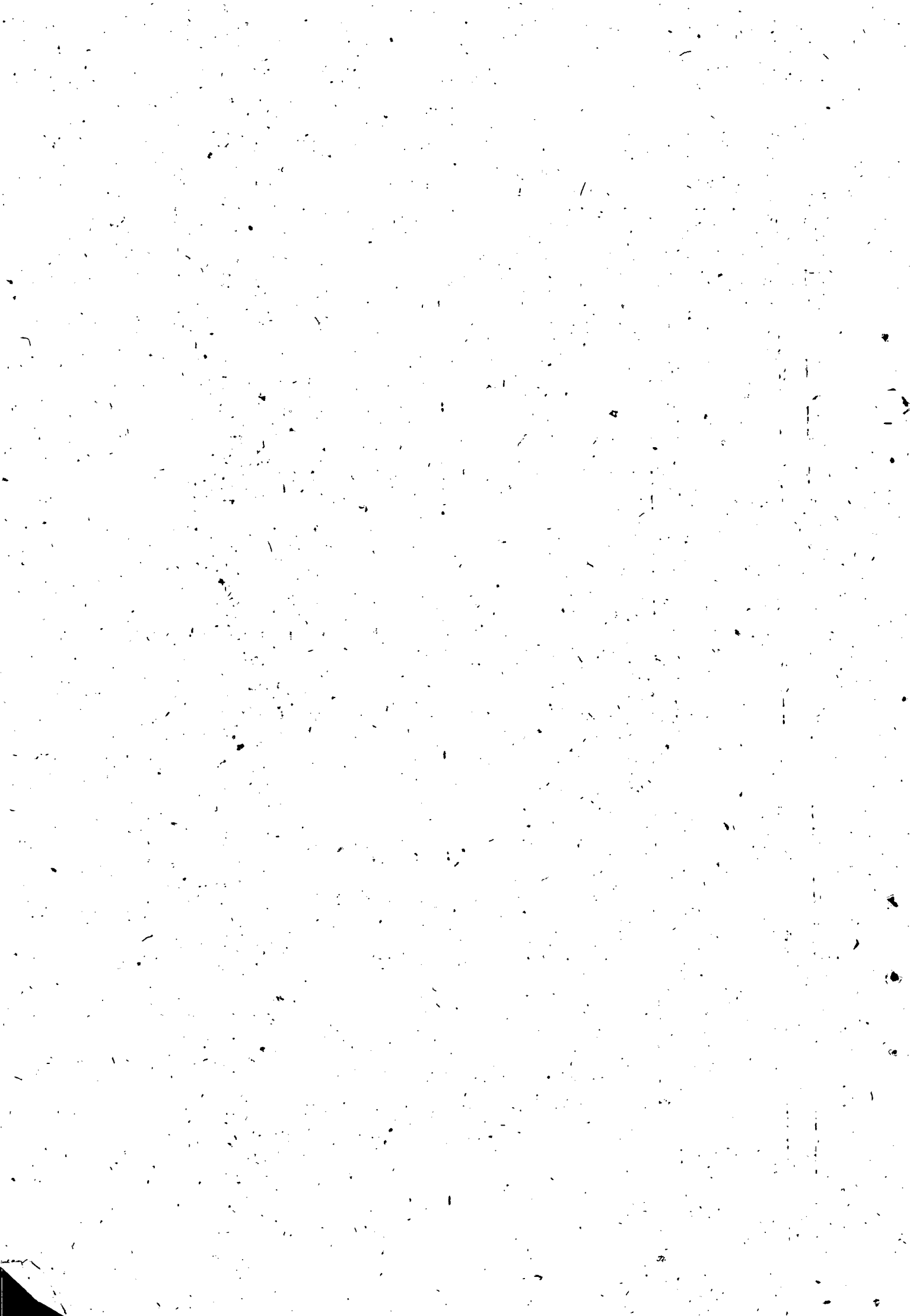


Table 6.2  
 Percentage distribution of construction works by construction responsibility

Quilon

Urban

Nature of construction	Urban						
	Owner under-taking with household labour	With paid labour	Partly by own labour and partly by paid labour	Wholly on contract	Partly on contract	Total	
	2	3	4	5	6	7	
1. New building	-	-	-	-	-	-	-
2. Addition to floor space of building.	-	58.33	41.67	-	-	-	100.00
3. Alteration and improvement of buildings.	-	50.00	50.00	-	-	-	100.00
4. All buildings (Total)	-	8.33	91.67	-	-	-	100.00
5. Pucca wells, Tube wells and tanks.	-	43.75	56.25	-	-	-	100.00
6. Kutcha wells, Ponds, tanks, embankment check dams and other irrigation works.	-	-	-	-	-	-	-
7. Laying of orchards and plantations	-	-	-	-	-	-	-
8. Cattle sheds, poultry sheds, other sheds and platforms.	-	42.86	57.14	-	-	-	100.00
9. Kutcha roads, building raising and levelling of land and other improvement works.	-	-	-	-	-	-	-
10. Others - specify	-	100.00	-	-	-	-	100.00
11. All non-building - sub-total	-	63.64	36.36	-	-	-	100.00
12. All Constructions - Total	-	47.46	52.54	-	-	-	100.00

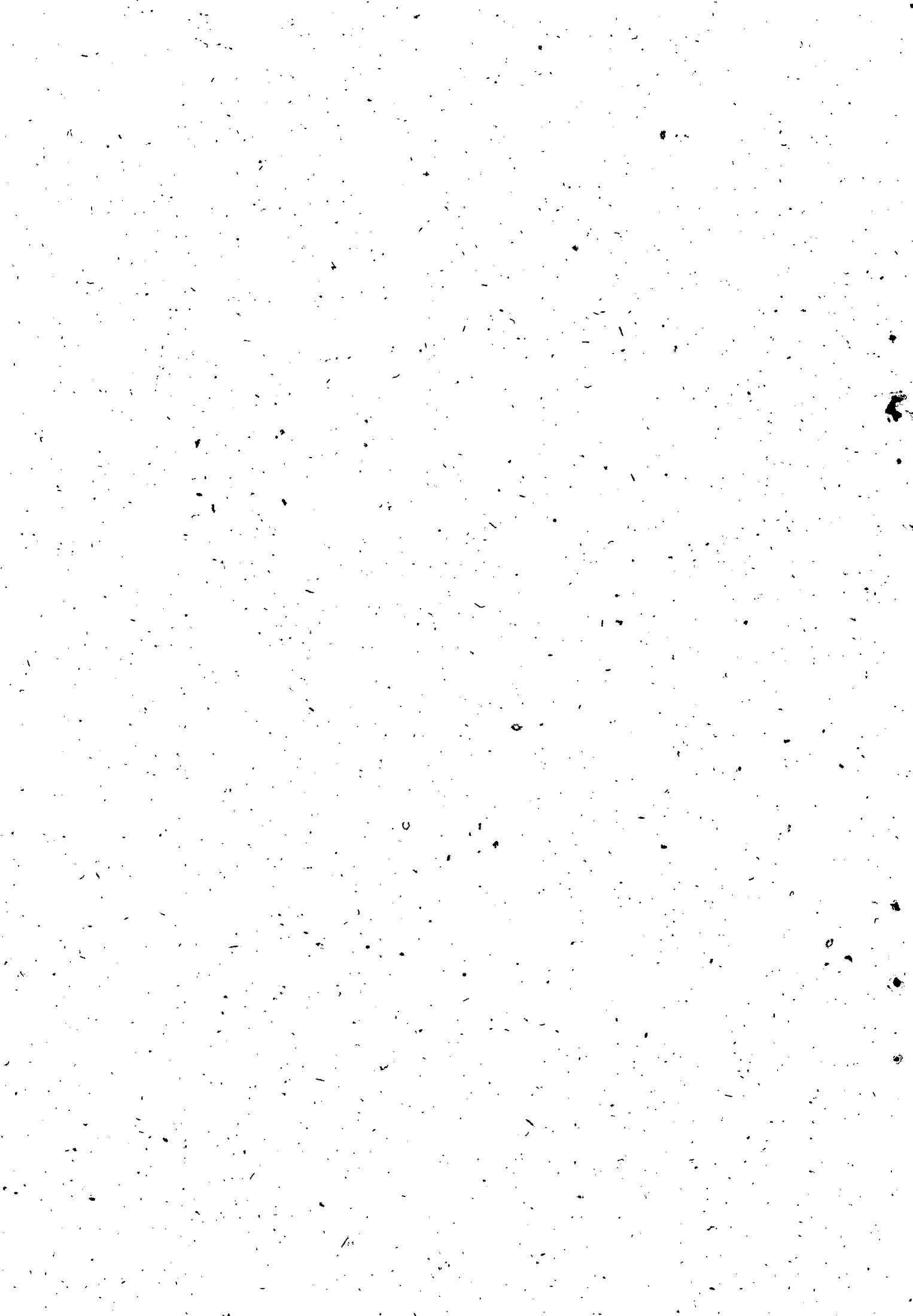


Table 6.2

Quilon

Mural

Nature of construction	Mural							Total
	Owner under-taking with household labour	With paid labour	Partly by own labour and partly by paid labour	Wholly on contract	Partly on contract			
	8	9	10	11	12	13		
1. New building	0.74	30.74	68.15	.37	-	-	100.00	
2. Addition to floor space of building	2.40	49.60	47.20	.80	-	-	100.00	
3. Alteration and improvement of building	4.90	37.06	58.04	-	-	-	100.00	
4. All buildings (Total)	2.23	36.80	60.59	.38	-	-	100.00	
5. Pucca wells, tube wells & tanks.	-	100.00	-	-	-	-	100.00	
6. Kutcha wells, Ponds, tanks, embankment check dams and other irrigation works.	-	100.00	-	-	-	-	100.00	
7. Laying of orchards and plantations.	-	97.92	2.08	-	-	-	100.00	
8. Cattle sheds, poultry sheds, other sheds and platforms.	-	-	-	-	-	-	-	
9. Kutcha roads, building raising and levelling of land and other improvement works.	6.90	93.10	-	-	-	-	100.00	
10. Others - specify.	5.56	94.44	-	-	-	-	100.00	
11. All non-building - sub-total	2.88	96.15	.97	-	-	-	100.00	
12. All constructions - Total	2.34	46.42	50.93	0.31	-	-	100.00	



Table 6.2

Quilon

Nature of construction	Total					
	Owner under-taking with household labour	With paid labour	Partly by own labour and partly by paid labour	Wholly on contract	Partly on contract	Total
1	14	15	16	17	18	19
1. New building	.68	32.99	65.99	0.34	-	100.00
2. Addition to floor space of building.	2.19	49.64	47.45	.72	-	100.00
3. Alteration and improvement of building.	4.51	34.84	60.65	-	-	100.00
4. All buildings (Total)	2.05	37.37	60.24	0.34	-	100.00
5. Pucca wells, Tube wells and Tanks.	-	100.00	-	-	-	100.00
6. Kutcha wells, Ponds, tanks, embankment check dams and other irrigation works.	-	100.00	-	-	-	100.00
7. Laying of orchards and plantations.	-	90.91	9.09	-	-	100.00
8. Cattle sheds, poultry sheds, other sheds and platforms.	-	-	-	-	-	-
9. Kutcha roads, building raising and levelling of land and other improvement works.	6.06	93.94	-	-	-	100.00
10. Others - specify	5.56	94.44	-	-	-	100.00
11. All non-buildings - Sub-total	2.61	93.04	4.35	-	-	100.00
12. All constructions - Total	2.14	46.50	51.07	.29	-	100.00

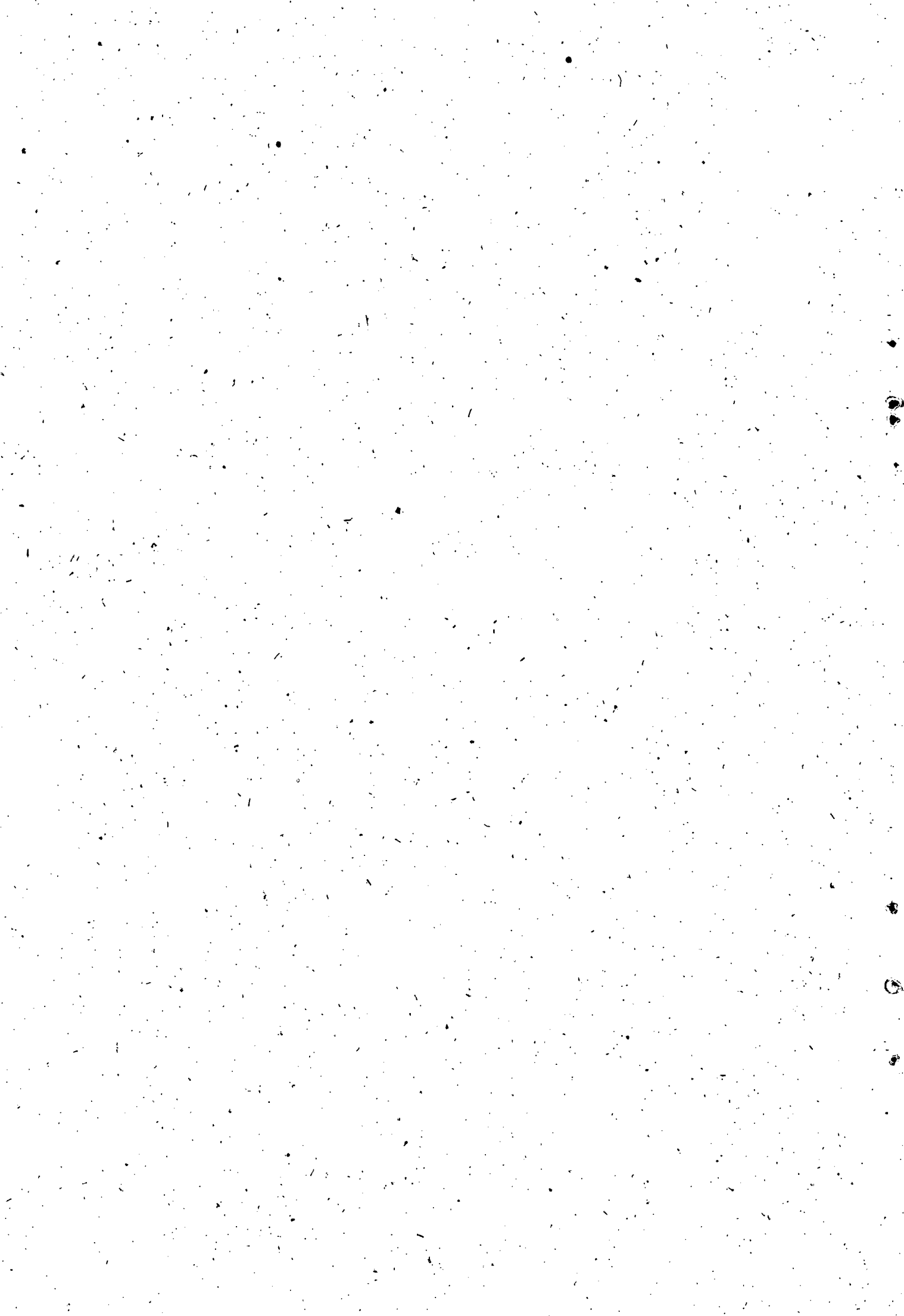


Table 6.3

Percentage distribution of construction works by construction responsibility

Alleppey

Nature of construction	Urban					Total
	Owner undertaking with household labour	With paid labour	Partly by own labour and partly by paid labour	Wholly on contract	Partly on contract	
1	2	3	4	5	6	7
1. New building	2.63	7.89	47.37	15.79	26.32	100.00
2. Addition to floor space of building	..	35.30	58.82	..	5.88	100.00
3. Alteration & improvement of building	..	13.63	81.82	..	4.55	100.00
4. All buildings (Total)	1.30	15.58	0.60	7.79	15.58	100.00
5. Pucca wells, tube wells and Tank	..	..	..	..	..	..
6. Katcha wells, ponds, tanks, embankment check dams and other irrigation works.	..	..	..	..	..	..
7. Laying of orchards & plantations	..	..	..	..	..	..
8. Cattle sheds, poultry sheds, other sheds and platforms.	..	..	..	..	..	..
9. Katcha roads, building raising and levelling of land and other improvement work.	..	..	..	..	..	..
Others specify	..	..	..	..	..	..
All non-building - Sub-Total:	..	..	..	..	..	..
All Constructions - Total:	1.30	15.58	0.60	7.79	15.58	100.00



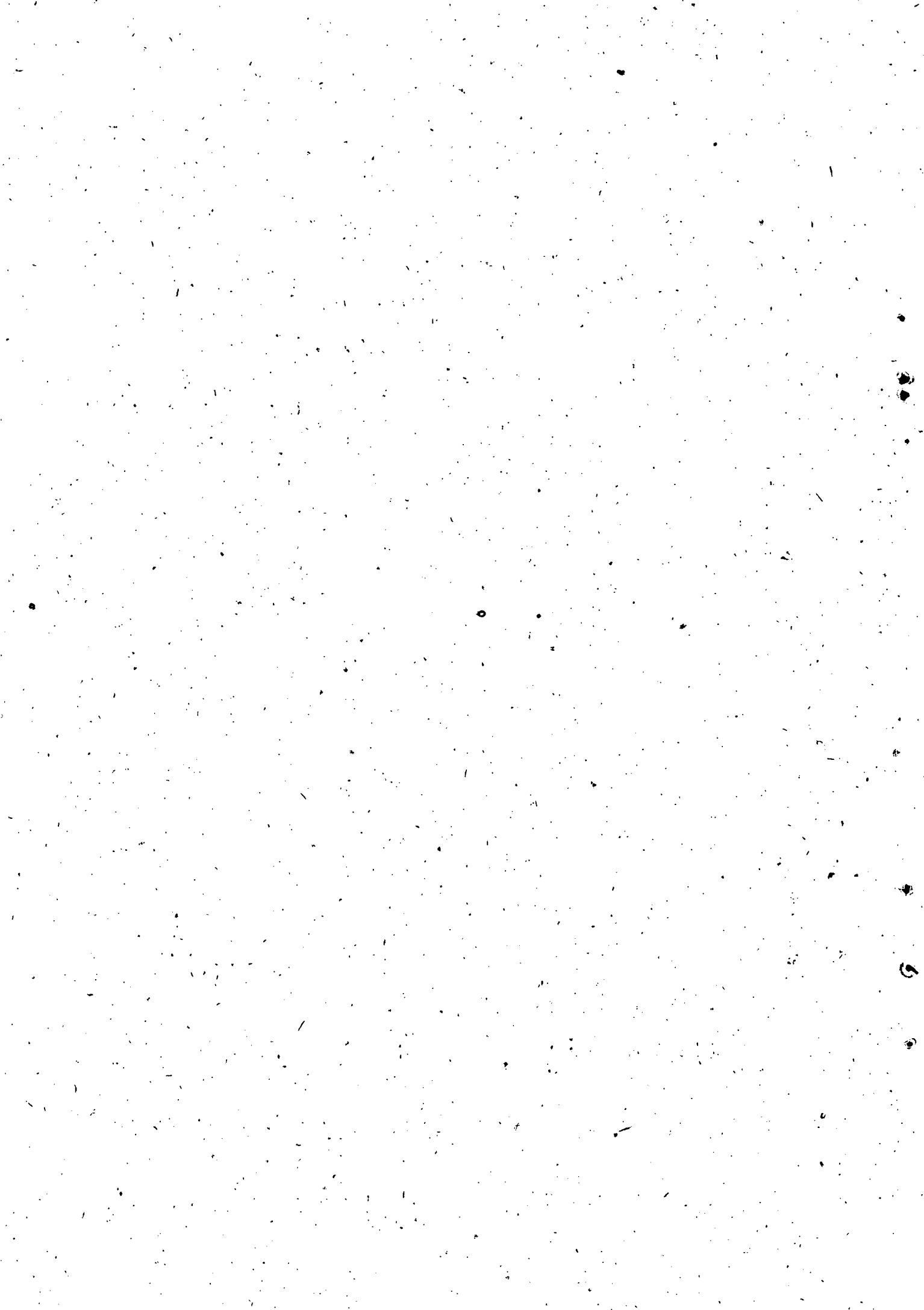


Table 6.3 (Contd.....)

Alleppey

Rural

Nature of construction.	Owner un- dertaking with house- hold la- bour	With paid labour	Partly by own labour and partly by paid labour	Wholly on con- tract	Partly on con- tract	Total
1	8	9	10	11	12	13
New building	4.03	14.12	57.26	9.27	15.32	100.00
Addition to floor space of building	1.08	16.12	64.52	1.08	17.20	100.00
Alteration & improvement of building	5.19	11.69	79.22	1.30	3.60	100.00
All buildings (Total)	3.84	13.74	65.45	5.25	11.72	100.00
Pucca wells, tube wells and Tank	..	..	..	..	..	..
Katcha wells, ponds, tanks, embankment check dams and other irrigation works.	..	..	..	..	..	..
Laying of orchards & Plantations	..	..	..	..	..	..
Cattle sheds, poultry sheds, other sheds and platforms.	..	..	..	..	..	..
Katcha roads, building raising and levelling of land and other improve- ment works.	..	..	..	..	..	..
Others specify	..	..	..	..	..	..
All non-building - Sub-Total:	..	..	..	..	..	..
All Constructions - Total:	3.84	13.74	65.45	5.25	11.72	100.00

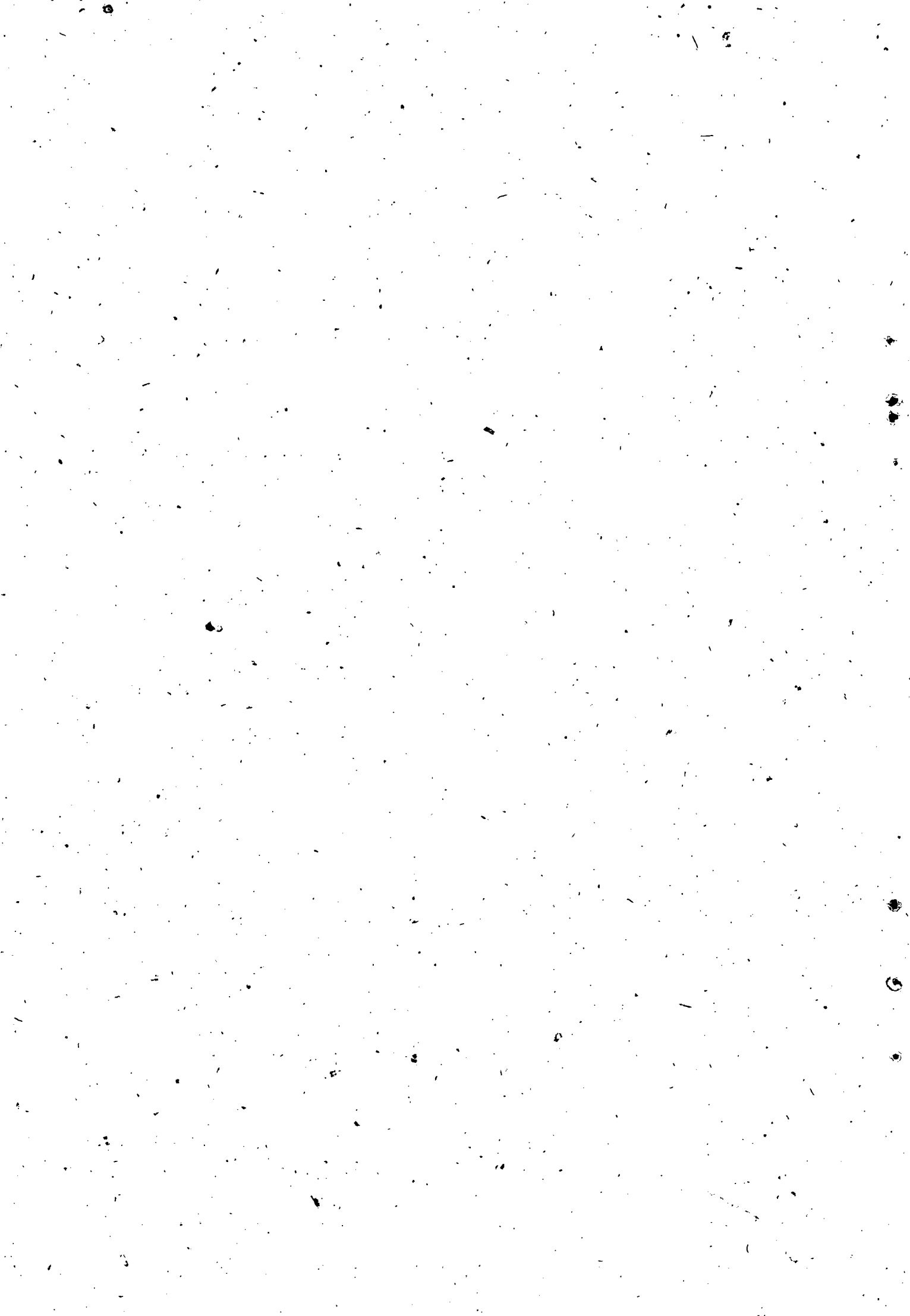


Table 6.3 (Contd.....)

Allepney

Nature of Construction	Total					
	Owner un- dertaken with house- hold la- bour	With paid labour	Partly by own labour and partly by paid labour	Wholly on con- tract	Partly on contract	Total
1	14	15	16	17	18	19
New building	3.85	13.29	55.94	10.14	16.78	100.00
Addition to floor space of building	0.91	19.09	63.64	0.91	15.45	100.00
Alteration & improvement of building	4.53	11.92	79.55	1.14	2.84	100.00
All buildings (Total)	3.50	13.98	64.69	5.59	12.24	100.00
Pucca wells, Tube wells and Tank	..	..	..	..	..	..
Katcha wells, ponds, tanks, embarkment check dams and other irrigation works	..	..	..	..	..	..
Laying of orchards & Plantations	..	..	..	..	..	..
Cattle sheds, poultry sheds, other sheds and platforms.	..	..	..	..	..	..
Katcha roads, building raising and levelling of land and other improvement works.	..	..	..	..	..	..
Others specify	..	..	..	..	..	..
All non-building - Sub-Total:	..	..	..	..	..	..
All Constructions - Total:	3.50	13.98	64.69	5.29	12.24	100.00

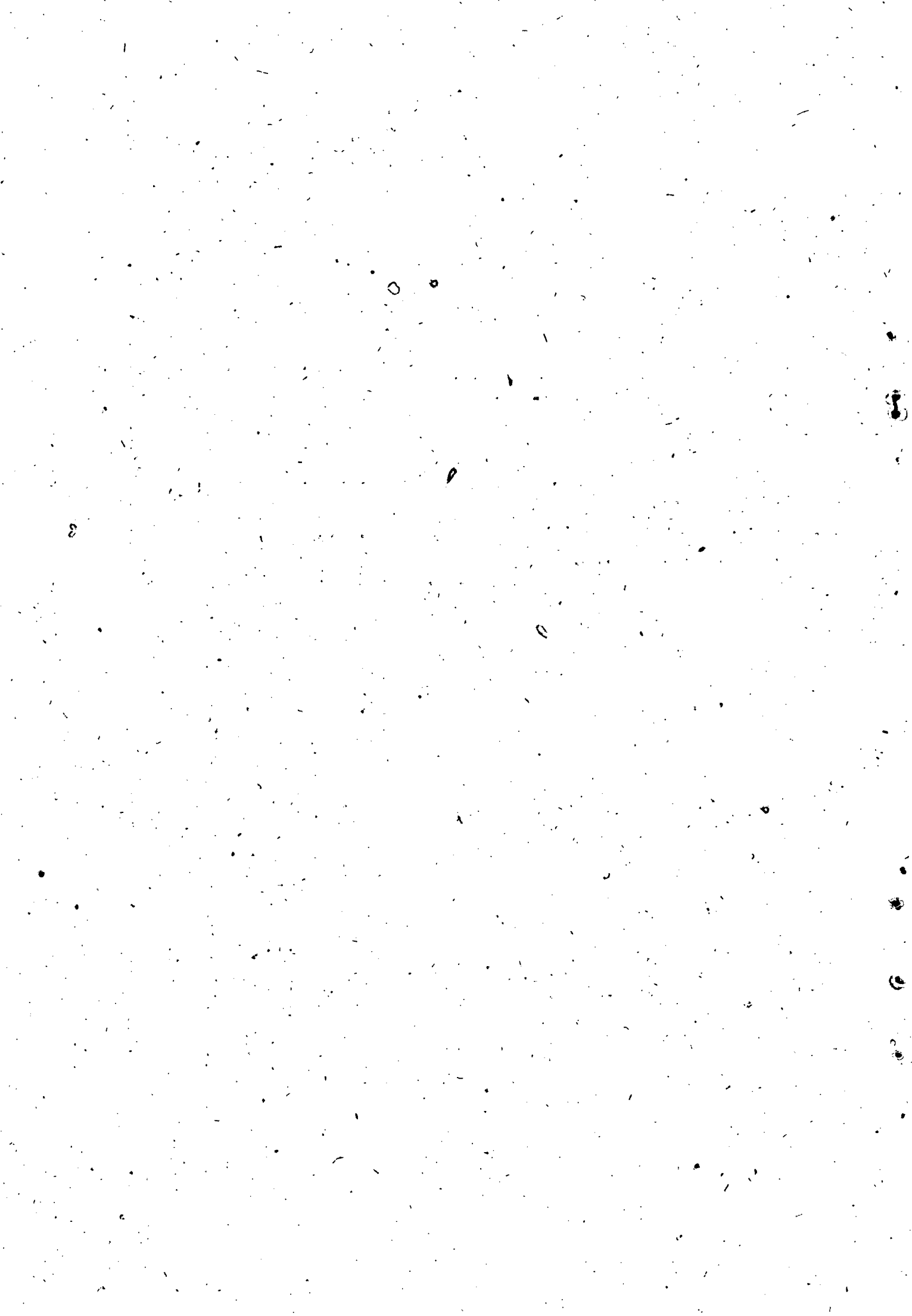


Table 6.4

Percentage distribution of construction works by construction responsibility

Kottayam

Urban

1	2	3	4	5	6	7
1	2	3	4	5	6	7
Structure of construction	Owner undertaking with household labour	With paid labour	Partly by own labour and partly by paid labour	Wholly on contract	Partly on contract	Total
1	2	3	4	5	6	7
Construction	12.50	18.75	50.00	12.50	6.25	100.00
Extension to floor space of building	..	66.67	33.33	..	..	100.00
Alteration & improvement of building	7.69	23.08	53.85	7.69	7.69	100.00
Small buildings (Total)	9.38	25.00	50.00	9.38	6.25	100.00
Open wells, tube wells and Tank	..	..	..	..	..	..
Step wells, ponds, tanks, embankment	..	..	..	..	..	..
Check dams and other irrigation works.	..	..	..	..	..	..
Planting of orchards and plantations	..	100.00	..	..	..	100.00
Stable sheds, poultry sheds, other	..	100.00	..	..	..	100.00
Sheds and platforms	..	100.00	..	..	..	100.00
High roads, building raising and	..	..	..	..	..	..
Leveling of land and other improvement	..	66.60	..	..	33.33	100.00
Works not specify	..	100.00	..	..	..	100.00
non-building - Sub-Total:	..	87.50	..	..	12.50	100.00
Small Constructions - Total:	7.50	37.50	40.00	7.50	7.50	100.00

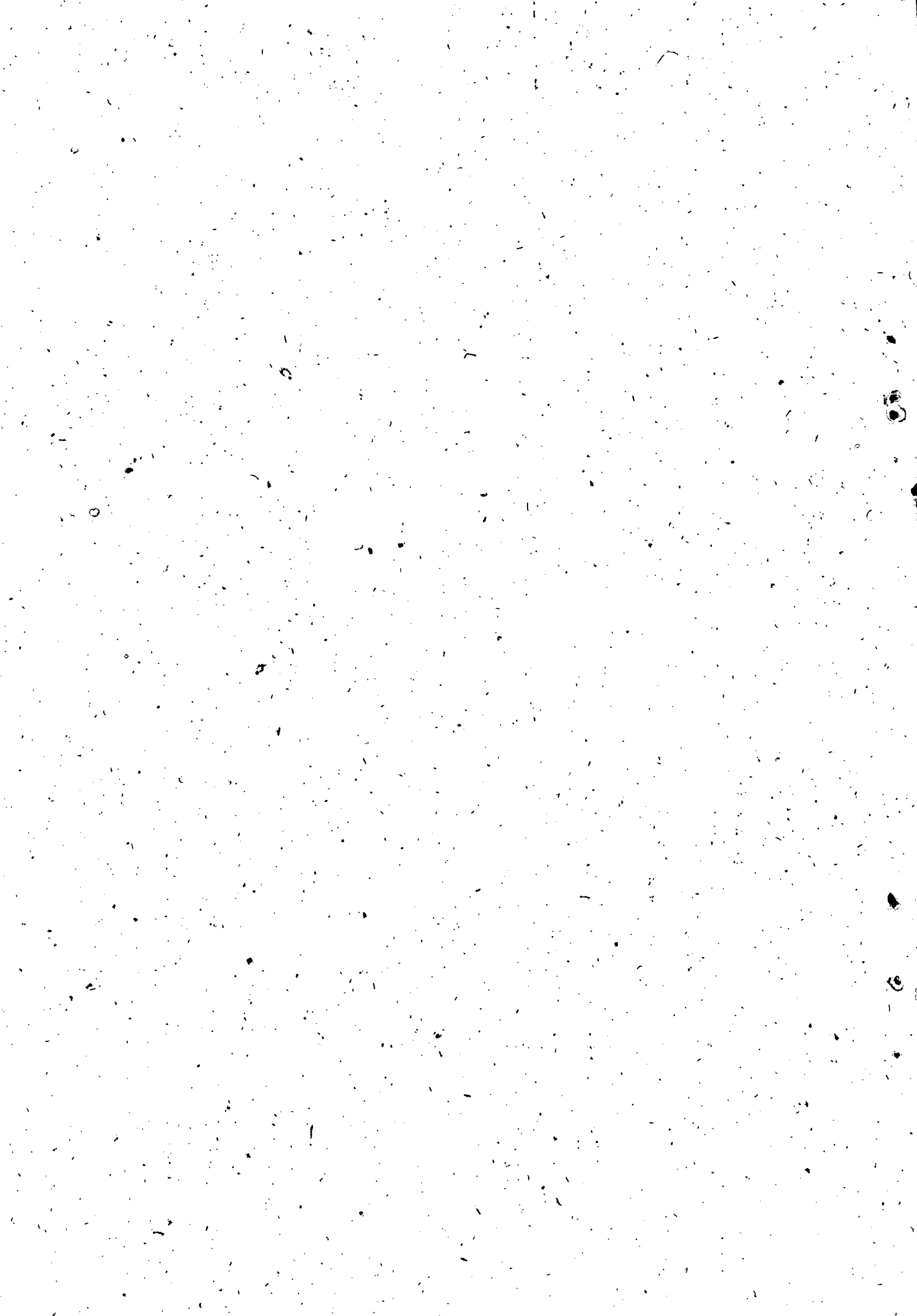


Table 6.4 (Contd.....)

Kottayam

Nature of Construction	Rural					Total
	Owner un- dertaking with household labour	With paid labour	Partly by own labour and partly by paid labour	Wholly on con- tract	Partly on con- tract	
1	8	9	10	11	12	13
New building	4.17	8.93	73.21	4.76	8.93	100.00
Addition to floor space of building	..	18.18	76.36	1.82	3.64	100.00
Alteration & improvement of building	3.54	32.74	58.41	1.77	3.54	100.00
All buildings (Total)	3.28	18.45	68.75	3.27	6.25	100.00
Pucca wells, tube wells and tank	26.20	61.90	2.38	9.52	..	100.00
Katcha wells, ponds, tanks, embankment check dams and other irrigation works.	..	100.00	..	..	..	100.00
Laying of orchards & plantations	25.53	55.32	19.15	..	..	100.00
Cattle sheds, poultry sheds, other sheds and platforms	27.14	61.44	5.71	5.71	..	100.00
Katcha roads, building raising and levelling of land and other improvement works.	10.10	60.00	25.00	5.00	..	100.00
Other specify	41.79	55.22	2.99	..	..	100.00
All non-building - Sub-Total:	28.46	59.68	8.30	3.56	..	100.00
All Constructions - Total:	14.09	36.16	42.78	3.40	3.56	100.00





Table 6.4 (Contd....).

Kottayam

Nature of construction	Total					
	Owner un- dertaking with household labour	With paid labour	Partly by own labour and partly by paid labour	Wholly on con- tract	Partly on con- tract	Total
1	14	15	16	17	18	19
New building	4.89	9.78	71.20	5.43	8.70	100.00
Addition to floor space of building	..	20.69	74.14	1.72	3.45	100.00
Alteration & improvement of building	3.96	31.75	57.94	2.38	3.97	100.00
All buildings (Total)	3.80	19.03	67.12	3.80	6.25	100.00
Pucca wells, tube wells and tank	26.19	61.90	2.38	9.53	..	100.00
Katcha wells, ponds, tanks, embankment check dams and other irrigation works.	..	100.00	..	..	..	100.00
Laying of orchards & Plantations	25.00	56.25	8.75	..	..	100.00
Cattle sheds, poultry sheds, other sheds and platforms.	26.03	63.01	5.48	5.48	..	100.00
Katcha roads, building raising and levelling of land & other improvement works.	8.70	60.86	21.74	4.35	4.35	100.00
Other specify	41.18	55.88	2.04	..	..	100.00
All non-building - Sub-Total:	27.53	60.54	8.05	3.45	0.38	100.00
All Constructions - Total:	13.66	36.25	42.61	3.66	3.82	100.00

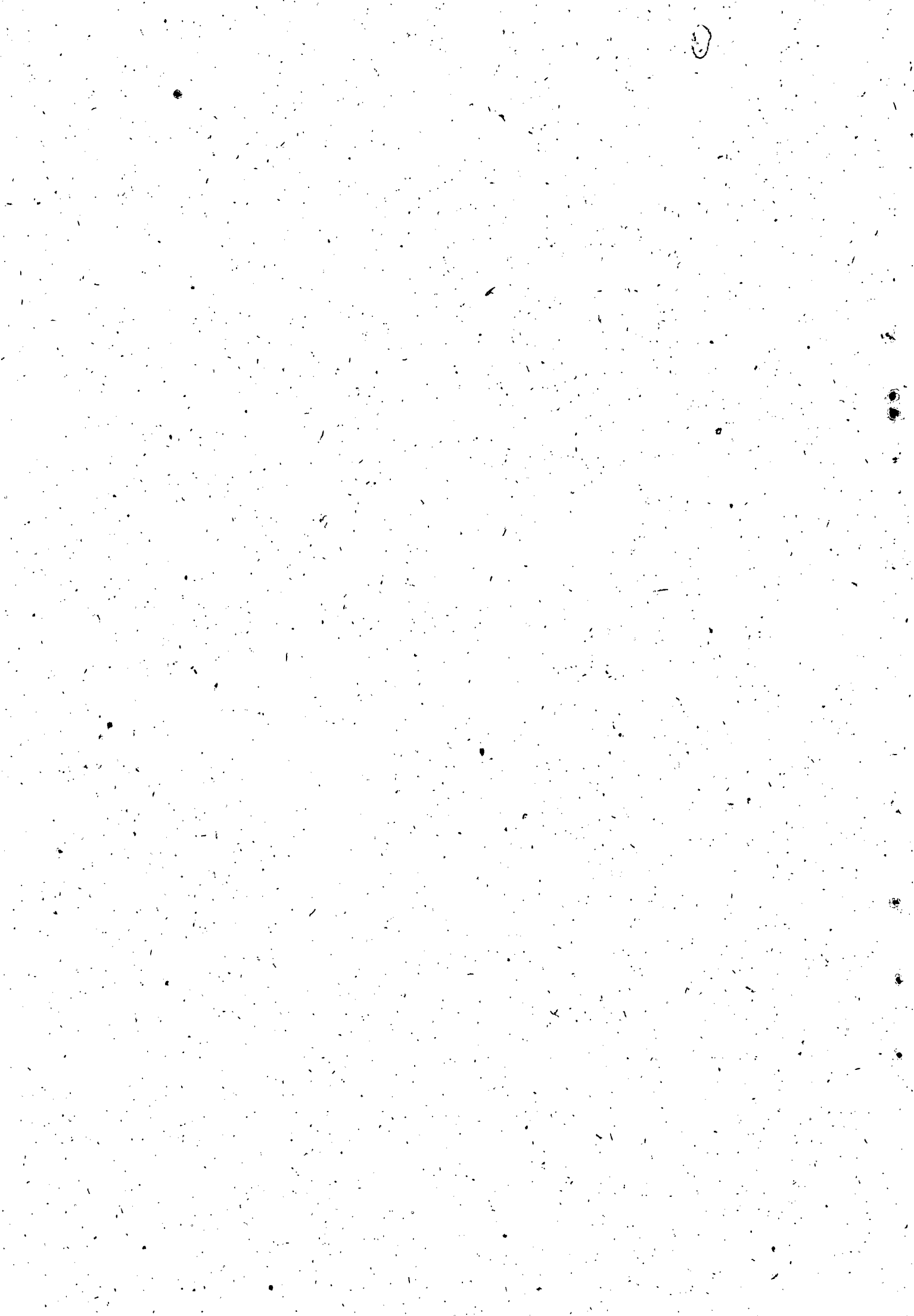


Table 6.5  
Percentage distribution of construction works by construction responsibility.

Idukki

Nature of construction	Urban					Total
	Owner under-taking with household labour	With paid labour	Partly by own labour and partly by paid labour	Wholly on contract	Partly on contract	
1	2	3	4	5	6	7
1. New building	-	75.00	12.50	-	12.50	100.00
2. Addition to floor space of building.	-	100.00	-	-	-	100.00
3. Alteration and improvement of building.	-	66.67	33.33	-	-	100.00
4. All buildings (Total)	-	75.00	18.75	-	6.25	100.00
5. Pucca wells, Tube wells and Tanks.	-	-	-	-	-	-
6. Kutcha wells, ponds, tanks, embankment check dams and other irrigation works.	-	-	-	-	-	-
7. Laying of orchards and plantations.	100.00	-	-	-	-	-
8. Cattle sheds, poultry sheds, other sheds & platforms.	-	100.00	-	-	-	100.00
9. Kutcha roads, building raising and levelling of land and other improvement works.	-	-	-	-	-	100.00
10. Others - specify	-	-	-	-	-	-
11. All non-buildings	-	-	-	-	-	-
Sub-total	50.00	50.00	-	-	-	100.00
12. All constructions - Total	5.56	72.22	16.67	-	5.55	100.00

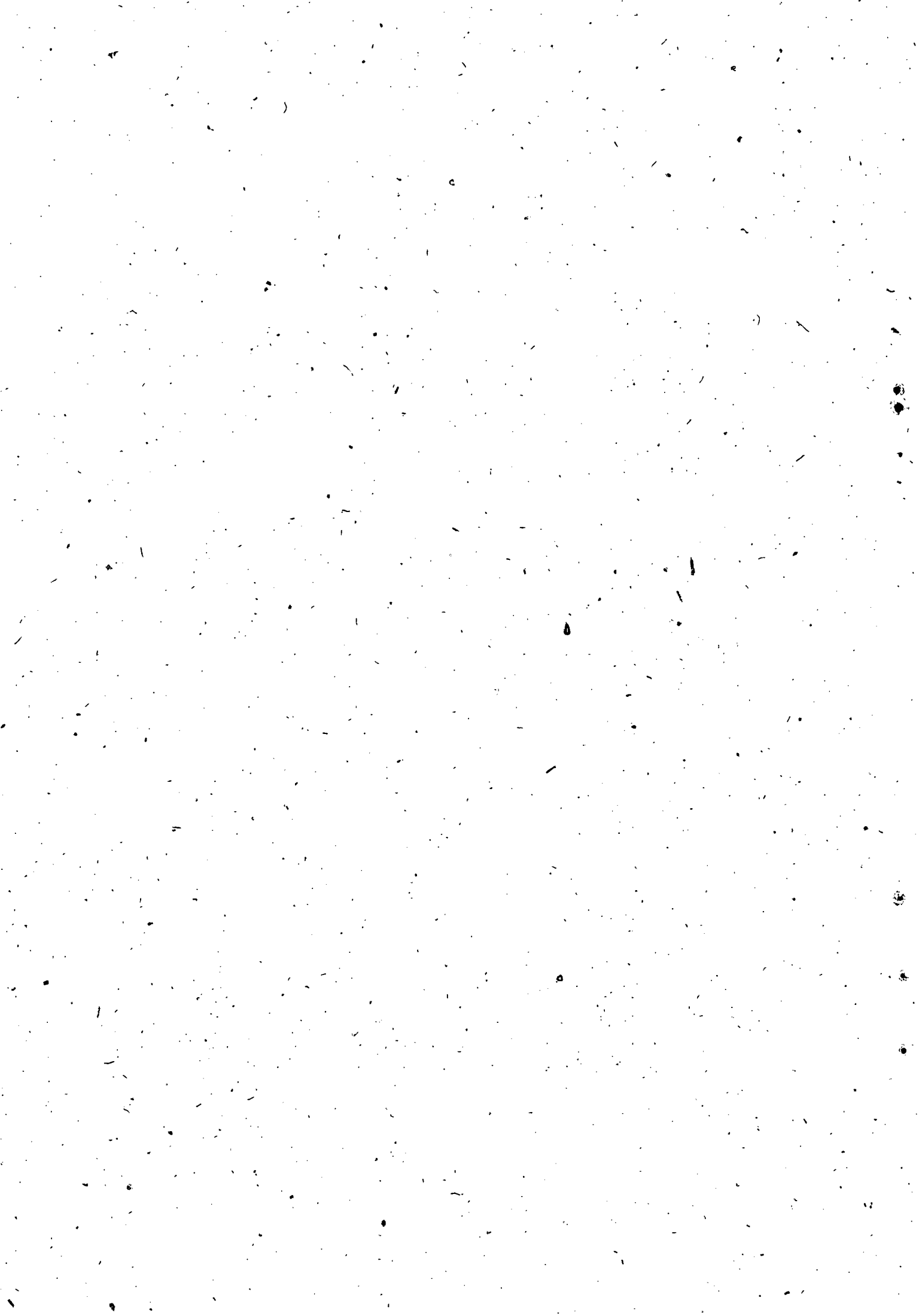


Table 6.5  
Percentage distribution of construction works by construction responsibility  
Idukki

Nature of construction	rural					Total
	Owner under-taking with household labour.	with paid labour	Partly by own labour and partly by paid labour.	Wholly on contract	Partly on contract	
1	8	9	10	11	12	13
1. New building	1.02	37.76	60.20	1.02	-	100.00
2. Addition to floor space of building	-	62.86	34.29	2.85	-	100.00
3. Alteration and improvement of building.	7.14	28.57	62.86	1.43	-	100.00
4. All buildings (Total)	2.95	38.92	56.65	1.48	-	100.00
5. Pucca wells, tube wells and tank.	-	100.00	-	-	-	100.00
6. Kutcha wells, ponds, tanks, embankment check dams and other irrigation works.	5.88	94.12	-	-	-	100.00
7. Laying of orchards and plantations.	5.97	94.03	-	-	-	100.00
8. Cattle sheds, poultry sheds, other sheds and platforms.	34.38	62.50	-	3.12	-	100.00
9. Kutcha roads, building raising and levelling of land and other improvement works.	-	80.00	-	20.00	-	100.00
10. Others - specify.	-	100.00	-	-	-	100.00
11. All non-building Sub-total	11.68	86.13	-	2.19	-	100.00
12. All constructions - Total	6.47	57.94	33.83	1.76	-	100.00



Table 6.5  
Percentage distribution of construction works by construction responsibility

Nature of construction	Total					Idukky	
	Owner undertaking with household labour	With paid labour	Partly by own labour and partly by paid labour	Wholly on contract	Partly on contract	Total	
1	14	15	16	17	18	19	
1. New building	0.94	40.58	56.60	0.94	0.94	100.00	
2. Addition to floor space of building.	-	64.86	32.44	2.70	-	100.00	
3. Alteration and improvement of building.	6.58	31.58	60.52	1.32	-	100.00	
4. All buildings (Total)	2.74	41.55	53.88	1.37	0.46	100.00	
5. Pucca wells, tube wells and tank.	-	100.00	-	-	-	100.00	
6. Kutcha wells, ponds, tanks, embankment check dams and other irrigation works.	5.88	94.12	-	-	-	100.00	
7. Laying of orchards and plantations.	7.35	92.65	-	-	-	100.00	
8. Cattle sheds, poultry sheds, other sheds and platforms.	38.33	63.64	-	3.03	-	100.00	
9. Kutcha roads, building raising and levelling of land and other improvement works.	-	80.00	-	20.00	-	100.00	
10. Others -- specify.	-	100.00	-	-	-	100.00	
11. All non-building - Sub-total	12.23	85.61	-	2.16	-	100.00	
12. All constructions - Total	6.42	58.66	32.96	1.68	0.28	100.00	



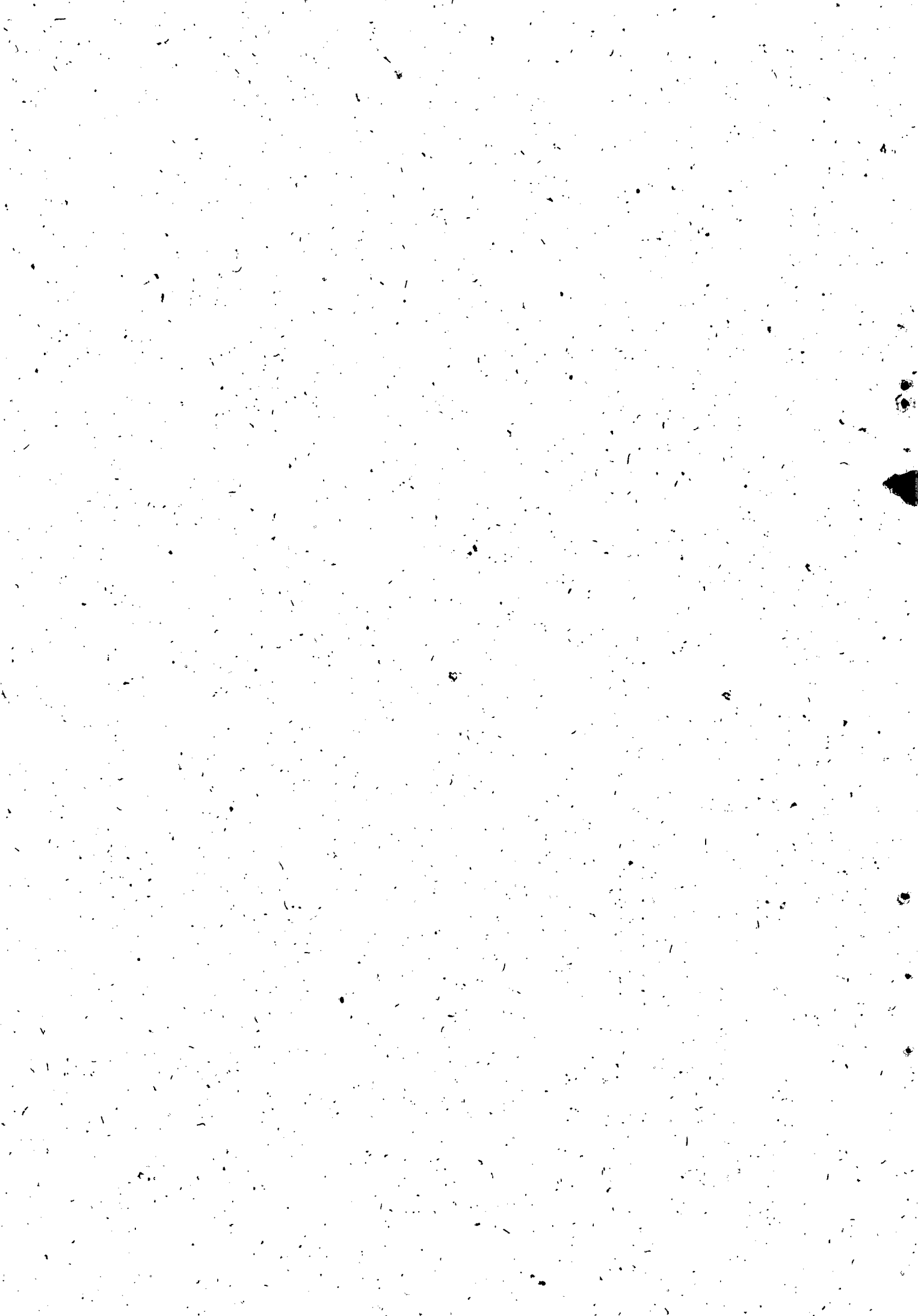


Table 6.6

Ernakulam

Nature of construction	Rural					Total
	Owner under-taking with household labour	With paid labour	Partly by own labour and partly by paid labour	Wholly on contract	Partly on contract	
1	8	9	10	11	12	13
1. New building	2.62	18.32	70.68	1.05	7.33	100.00
2. Addition to floor space of building.	-	34.38	59.38	2.08	4.16	100.00
3. Alteration and improvement of building	3.13	25.00	68.75	1.04	2.08	100.00
4. All buildings (Total)	2.09	24.02	67.36	1.31	5.22	100.00
5. Pucca wells, tube wells and Tanks.	30.61	53.06	-	16.33	-	100.00
6. Kutchha wells, ponds, tanks embankment check dams and other irrigation works.	41.18	47.06	-	11.76	-	100.00
7. Laying of orchards and plantations.	50.00	50.00	-	-	-	100.00
8. Cattle sheds, poultry sheds, other sheds and platforms.	64.29	35.71	-	-	-	100.00
9. Kutchha roads, building raising and levelling of land and other improvement works.	50.00	33.33	-	16.67	-	100.00
10. Others - specify	51.35	21.62	-	27.03	-	100.00
11. All non-buildings - sub-total	43.24	40.54	-	16.22	-	100.00
12. All constructions - Total	13.56	28.63	48.59	5.45	3.77	100.00



Table 6.6

Bmnakulam

Nature of construction	Total					
	Owner under-taking with household labour	With paid labour	Partly by own labour and partly by paid labour	Wholly on contract	Partly on contract	Total
1	14	15	16	17	18	19
1. New building	2.81	17.27	69.88	2.41	7.63	100.00
2. Addition to floor space of building	-	34.40	59.20	1.60	4.80	100.00
3. Alteration and improvement of buildings.	3.82	25.95	65.65	2.29	2.29	100.00
4. All buildings (Total)	2.38	23.76	66.14	2.18	5.54	100.00
5. Pucca wells, Tube wells and Tanks.	27.78	51.85	-	20.37	-	100.00
6. Kutchu wells, ponds, tanks, embankment check, dams and other irrigation works.	40.00	45.71	-	14.29	-	100.00
7. Laying of orchards and plantations.	50.00	50.00	-	-	-	100.00
8. Cattle sheds, poultry sheds, other sheds and platforms.	64.29	35.71	-	-	-	100.00
9. Kutchu roads, buildings, raising and levelling of land and other improvement works.	50.00	33.33	-	16.67	-	100.00
10. Others - specify	37.25	43.14	-	19.61	-	100.00
11. All non-buildings - Sub-total	38.10	45.24	-	16.60	-	100.00
12. All constructions - Total	11.29	29.13	49.53	5.79	4.16	100.00



Table 6.6-  
Percentage distribution of construction works by construction responsibility

Ernakulam

Nature of construction	Urban					Total
	Owner under-taking with household labour	With paid labour	Partly by own labour and partly by paid labour	Wholly on contract	Partly on contract	
1	2	3	4	5	6	7
1. New building	3.45	13.79	67.24	6.90	8.62	100.00
2. Addition to floor space of building.	-	34.48	58.62	-	6.90	100.00
3. Alteration and improvement of building	5.71	28.37	57.15	5.71	2.86	100.00
4. All buildings (Total)	3.28	22.95	62.30	4.92	6.55	100.00
5. Pucca wells, tube wells and Tanks.	-	40.00	-	60.00	-	100.00
6. Kutcha wells, ponds, tanks, embankments check dams and other irrigation works.	-	-	-	100.00	-	100.00
7. Laying of orchards and plantations.	-	-	-	-	-	-
8. Cattle sheds, poultry sheds, pther sheds and platforms.	-	-	-	-	-	-
9. Kutcha roads, building retaining and levelling of land and other improvement works.	-	-	-	-	-	-
10. Others - specify	-	100.00	-	-	-	-
11. All non-buildings - sub-total	-	80.00	-	20.00	-	100.00
12. All constructions - total	2.82	30.99	53.52	7.04	5.63	100.00



Table 6.7

## Percentage distribution of construction works by construction responsibility

Trichur

Nature of construction	Urban					Total
	Owner under-taking with household labour	With paid labour	Partly by own labour and partly by paid labour	Wholly on contract	Partly on contract	
1	2	3	4	5	6	7
1. New building	-	43.75	40.62	6.25	9.38	100.00
2. Addition to floor space of building	-	37.50	62.50	-	-	100.00
3. Alteration and improvement of building.	-	50.00	33.33	4.17	12.50	100.00
4. All buildings (Total)	5	45.30	40.63	4.69	9.38	100.00
5. Pucca wells, tube wells and tanks.	-	-	-	100.00	-	100.00
6. Kutcha wells, ponds, tanks, embankment check dams and other irrigation works.	-	100.00	-	-	-	100.00
7. Laying of orchards and plantations.	-	-	-	-	-	-
8. Cattle sheds, poultry sheds, other sheds and platforms.	-	-	-	-	-	-
9. Kutcha roads, building raising and levelling of land and other improvement works.	-	-	-	-	-	-
10. Others - specify.	-	-	-	-	-	-
11. All non-buildings - sub-total	-	57.14	-	42.86	-	100.00
12. All constructions - Total	-	46.48	36.62	8.45	8.45	100.00



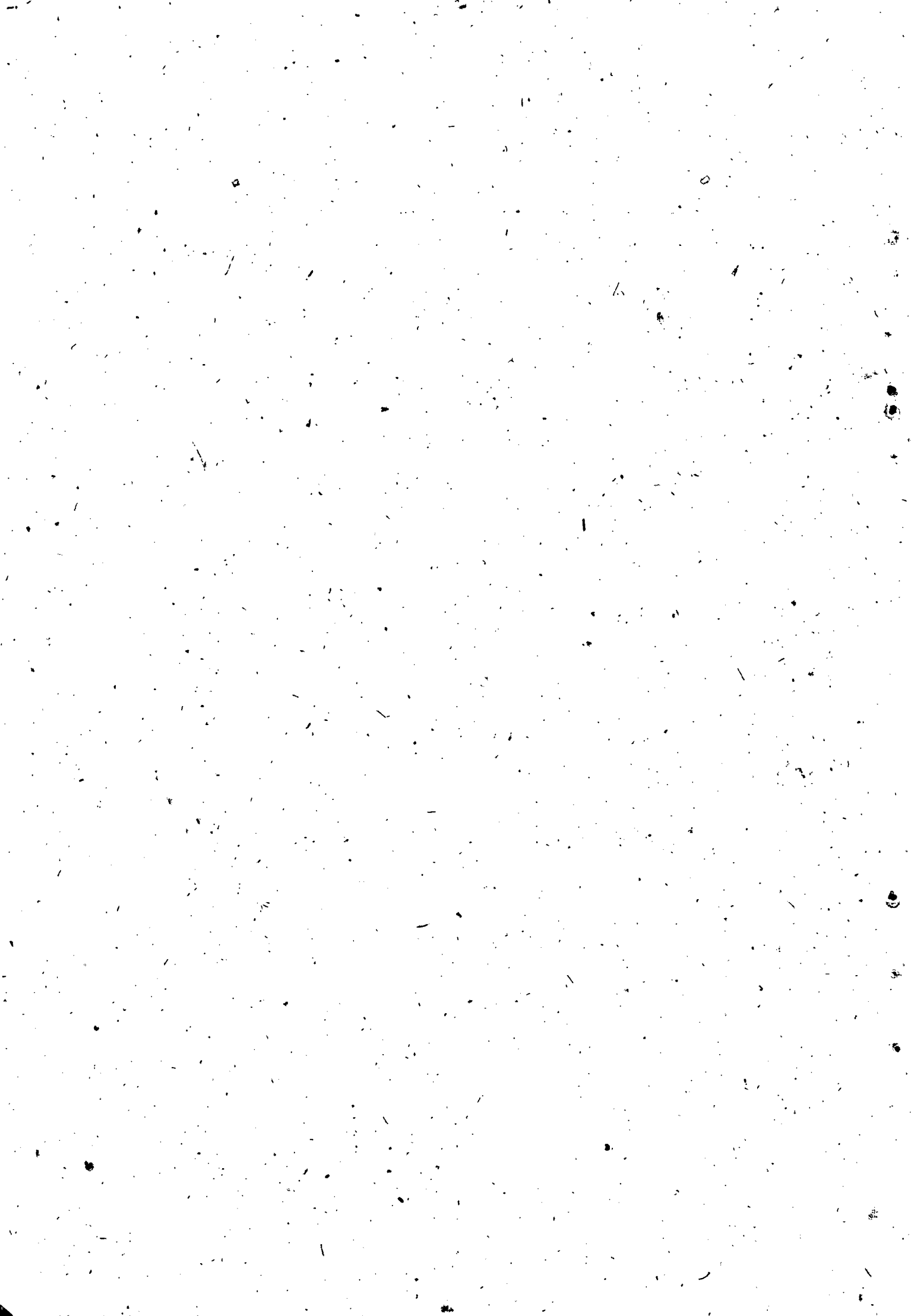


Table 6.7

Trichur

Nature of construction	Rural					
	Owner under-taking with household labour	With paid labour	Partly by own labour and partly by paid labour	Wholly on contract	Partly on contract	Total
1	8	9	10	11	12	13
1. New building	0.90	34.08	56.05	1.35	7.62	100.00
2. Addition to floor space of building.	5.26	46.05	38.16	1.32	9.21	100.00
3. Alteration and improvement of building.	2.01	30.87	59.73	2.01	5.38	100.00
4. All buildings (Total)	2.02	35.04	54.24	1.56	7.14	100.00
5. Pucca wells, tube wells and tanks.	1.06	44.68	-	51.06	3.20	100.00
6. Kutcha wells, ponds, tanks, embankment check dams and other irrigation works.	5.00	3.23	83.33	11.67	-	100.00
7. Laying of orchards and plantations.	-	-	71.43	28.57	-	100.00
8. Cattle sheds, poultry sheds, other sheds and platforms.	-	100.00	-	-	-	100.00
9. Kutcha roads, building raising and levelling of land and other improvement works.	-	-	88.89	11.11	-	100.00
10. Others - specify	-	90.00	-	10.00	-	100.00
11. All non-buildings - Sub Total	2.09	65.45	30.8	30.89	1.57	100.00
12. All constructions - Total	2.03	44.13	38.03	10.33	5.48	100.00



Table 6.7

Trichur

Nature of construction	Total					
	Owner under-taking with household labour	With paid labour	Partly by own labour and partly by paid labour	Wholly on contract	Partly on contract	Total
1	14	15	16	17	18	19
1. New building	0.79	35.30	54.11	1.96	7.84	100.00
2. Addition to floor space of building	4.76	45.24	40.48	1.19	8.33	100.00
3. Alteration and improvement of building	1.73	33.53	56.07	2.31	6.36	100.00
All buildings (Total)	1.76	36.33	52.54	1.95	7.42	100.00
4. Bore wells, tube wells and Tanks.	1.03	43.30	-	52.58	3.09	100.00
5. Kutchu wells, ponds, tanks, embankment check dams and other irrigation works.	4.68	84.38	-	10.94	-	100.00
6. Laying of orchards and plantations.	-	71.43	-	28.57	-	100.00
7. Cattle sheds, poultry sheds, other sheds and platforms.	-	100.00	-	-	-	100.00
8. Kutchu roads, building raising and levelling of land and other improvement works.	-	88.89	-	11.11	-	100.00
9. Others - specify	-	90.00	-	10.00	-	100.00
All non-buildings - Sub Total	2.02	65.15	-	31.31	1.52	100.00
All constructions - Total	1.83	44.37	37.89	10.14	5.77	100.00



Table 6.8

Percentage distribution of construction works by construction responsibility

Palghat

Nature of construction	Owner under-taking with household labour	Urban		Wholly on contract	Partly on Contract	Total
		With paid labour	Partly by own labour and partly by paid labour			
1	2	3	4	5	6	7
1. New building	-	37.50	50.00	12.50	-	100.00
2. Addition to floor space of building.	-	100.00	-	-	-	100.00
3. Alteration and improvement of building	-	66.67	33.33	-	-	100.00
4. All buildings (Total)	-	56.25	37.50	6.25	-	100.00
5. Pucca wells; tube wells and tanks.	-	-	-	-	-	-
6. Kutcha wells, ponds, tanks, embankments, check dams and other irrigation works.	-	-	-	-	-	-
7. Laying of orchards and plantations.	-	-	-	-	-	-
8.attle sheds, poultry sheds, other sheds and platforms.	-	-	-	-	-	-
9. Kutcha roads, building raising and levelling of land and other improvement works.	-	-	-	-	-	-
10. Others - specify	-	-	-	-	-	-
11. All Non-buildings - Sub Total	-	-	-	-	-	-
12. All constructions - Total	56.25	56.25	37.50	6.25	-	100.00

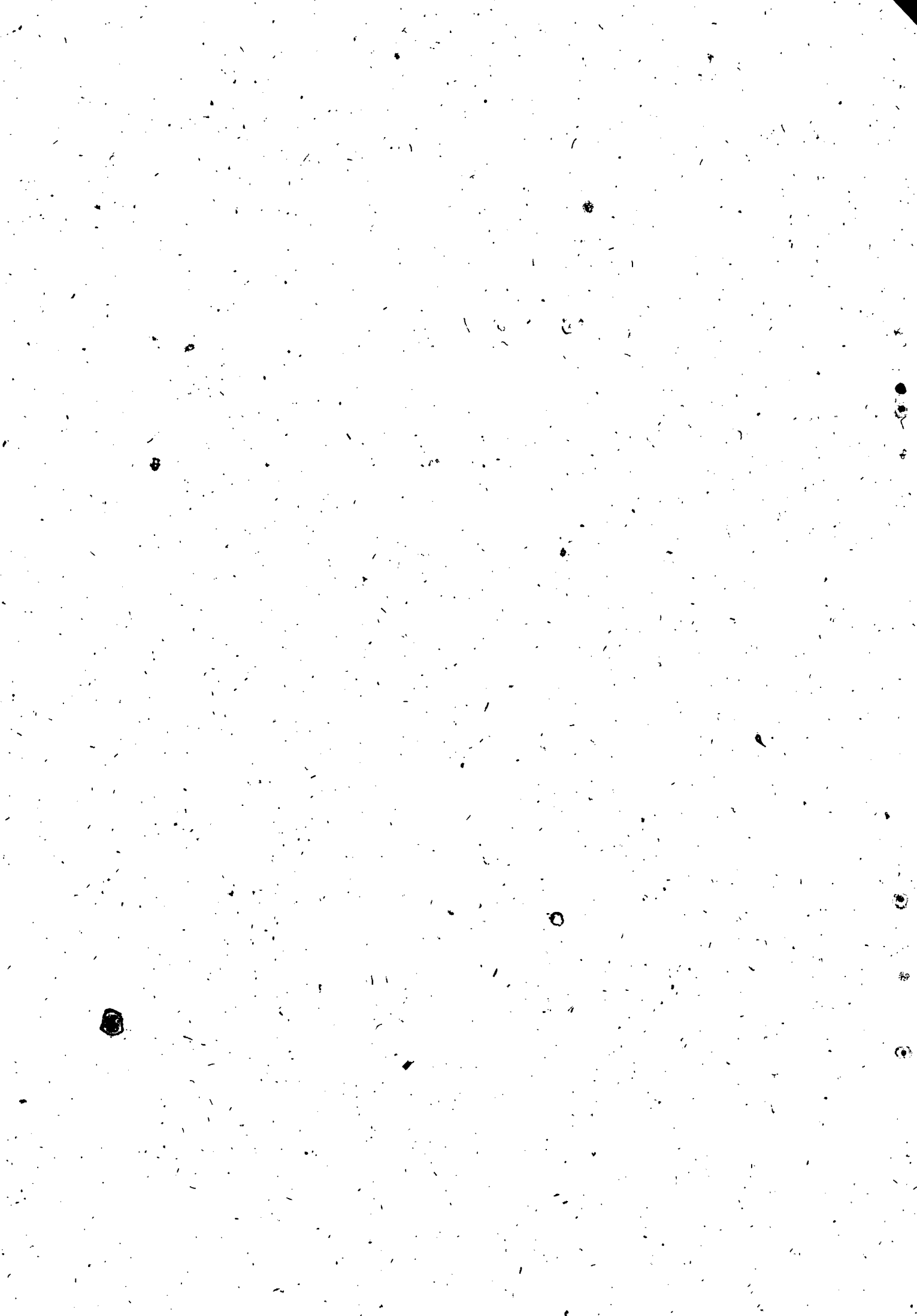
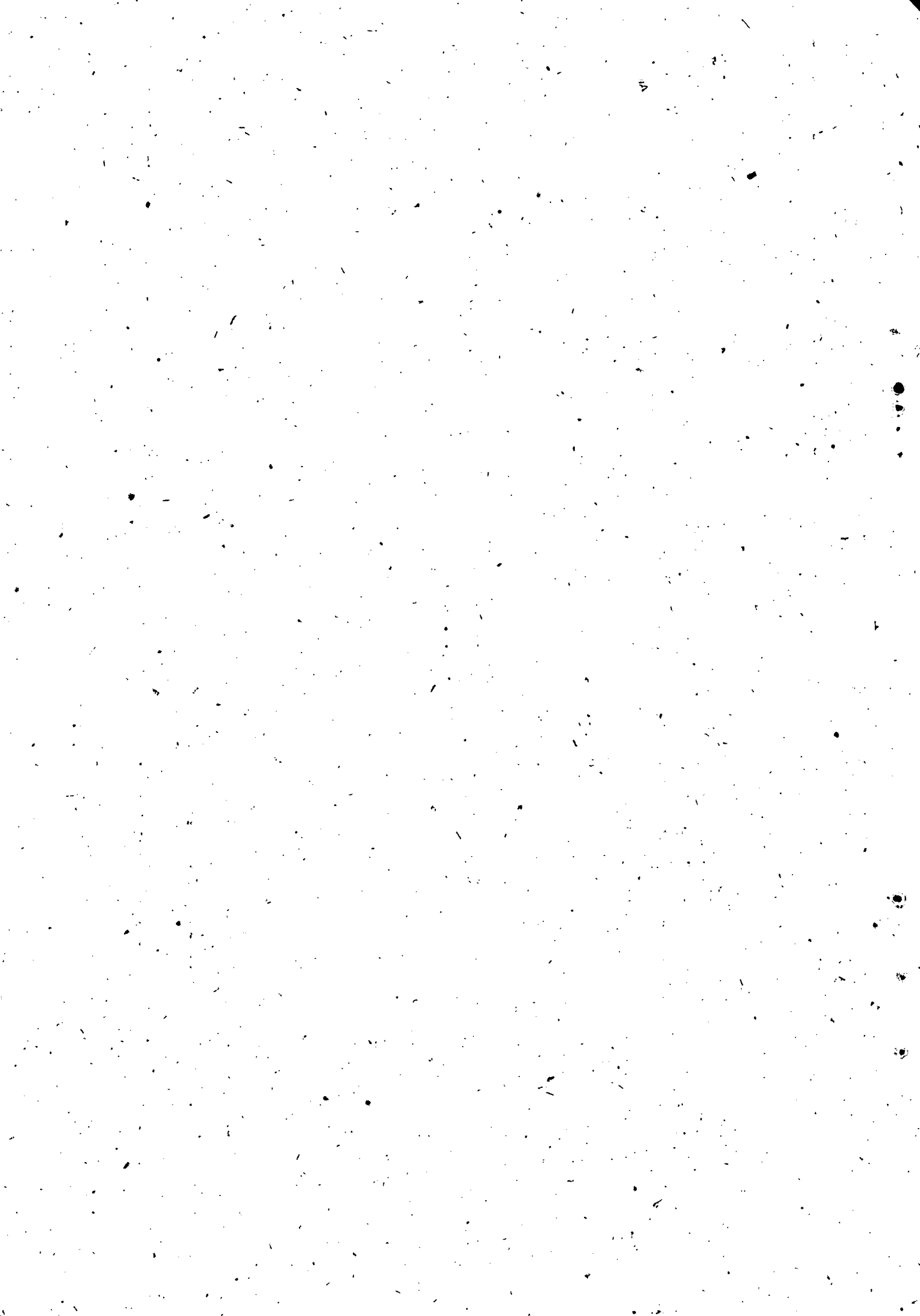


Table 6 .8

Palghat

Type of construction	Rural					Total
	Owner under-taking with household labour	With paid labour	Partly by own labour and partly by paid labour	Wholly on contract	Partly on contract	
1	8	9	10	11	12	13
New building	2.52	36.13	54.62	1.68	5.05	100.00
Addition to floor space of building	-	42.86	57.14	-	-	100.00
Alteration & improvement of building.	1.01	22.22	67.68	9.09	-	100.00
All buildings (Total)	1.67	30.96	60.25	4.60	2.52	100.00
Pucca wells, tube wells and tanks.	-	100.00	-	-	-	100.00
Kutcha wells, ponds, tanks, embankment check dams and other irrigation works.	-	100.00	-	-	-	100.00
Laying of orchards and plantations.	-	100.00	-	-	-	100.00
Cattle sheds, poultry sheds, other sheds and platforms.	-	100.00	-	-	-	100.00
Kutcha roads, building raising and levelling of land and other improvement works.	-	100.00	-	-	-	100.00
Others - specify	-	-	-	-	-	100.00
All non-buildings - sub Total	-	100.00	-	-	-	100.00
All constructions - Total	1.37	43.49	49.32	3.77	2.05	100.00





54  
Table 6.8

Palghat.

Type of construction	Total					Total
	Owner under-taking with household labour	With paid labour	Partly by own labour and partly by paid labour	Wholly on contract	Partly on contract	
1	14	15	16	17	18	19
New buildings	2.36	36.22	54.33	2.36	4.73	100.00
Addition to floor space of building	-	47.83	52.17	-	-	100.00
Alteration & improvement of building.	0.95	24.76	65.71	8.58	-	100.00
All buildings (Total)	1.57	32.55	58.82	4.71	2.35	100.00
Pucca wells, Tube wells & Tanks.	-	100.00	-	-	-	100.00
Kutchha wells, ponds, tanks, embankment check dams and other irrigation works.	-	100.00	-	-	-	100.00
Laying of orchards and Plantations.	-	100.00	-	-	-	100.00
Cattle sheds, poultry sheds, other sheds and platforms.	-	100.00	-	-	-	100.00
Kutchha Roads, building raising and levelling of land and other improvement works.	-	100.00	-	-	-	100.00
Others - specify	-	-	-	-	-	-
All non-buildings - Sub-Total	-	100.00	-	-	-	100.00
All constructions - Total	1.30	44.16	48.70	3.90	1.94	100.00

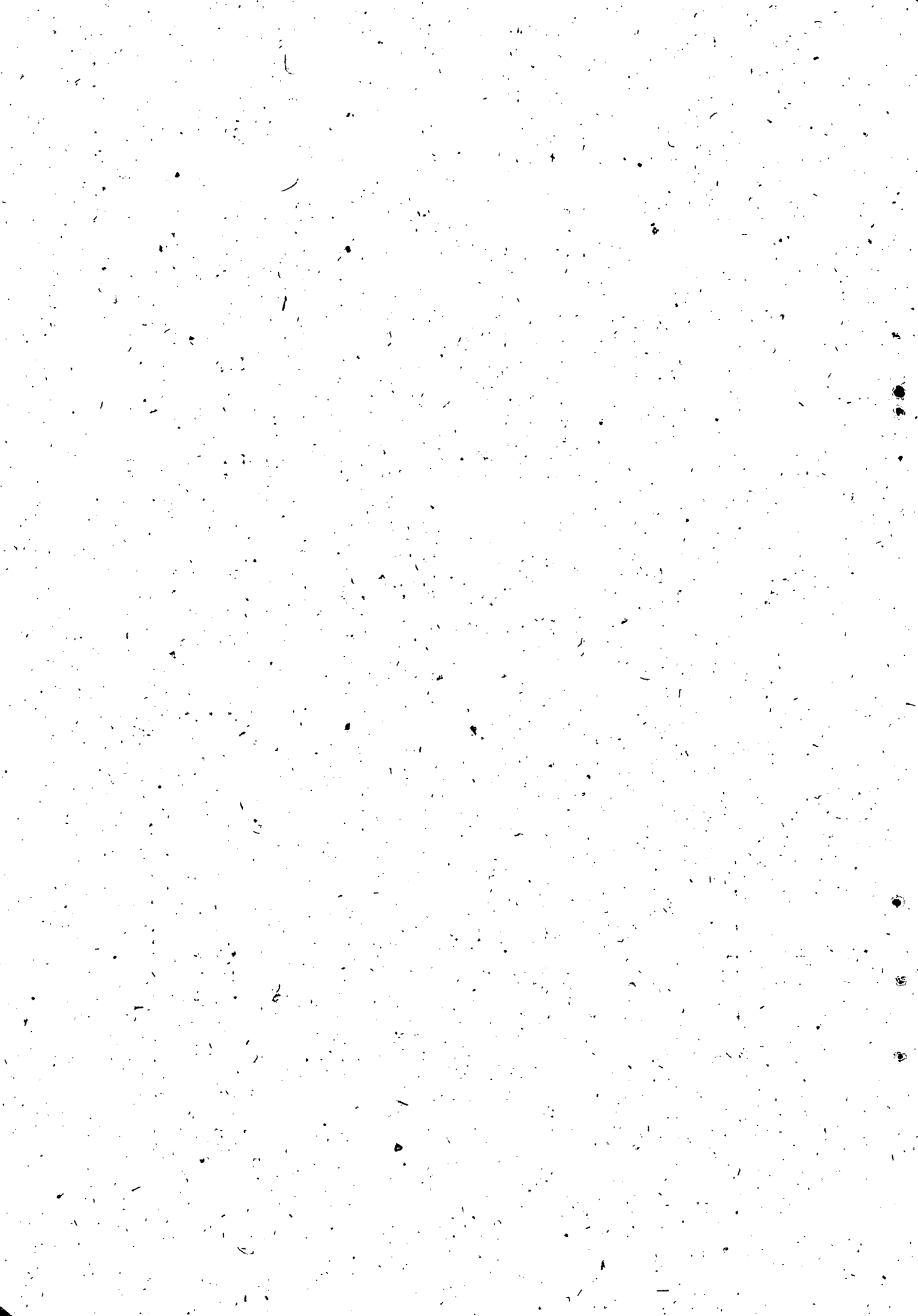


Table: 6.9

Percentage distribution of construction works by construction responsibility

Malappuram

Urban

Type of construction	Urban						Total
	Owner undertaking with household labour	With paid labour	Partly by own labour & partly by paid labour	Wholly on contract	Partly on contract		
1	2	3	4	5	6	7	
New building	..	100.00	..	..	..	100.00	
Addition to floor space of building	..	100.00	..	..	..	100.00	
Alteration and improvement of building	..	100.00	..	..	..	100.00	
All buildings (Total):	..	100.00	..	..	..	100.00	
Open wells, tube wells and tanks	..	..	..	..	..	..	
Open wells, ponds, tanks, embankment	..	..	..	..	..	..	
Check dams and other irrigation works	..	..	..	..	..	..	
Planting of orchards and plantations	..	..	..	..	..	..	
Cattle sheds, poultry sheds, other	..	..	..	..	..	..	
Stables and platforms	..	..	..	..	..	..	
Open roads, building raising and	..	..	..	..	..	..	
Leveling of land and other improvement	..	..	..	..	..	..	
Others	..	..	..	..	..	..	
Non-buildings - Sub-Total:	..	..	..	..	..	..	
All constructions - Total:	..	100.00	..	..	..	100.00	

Contd.....



Table: 6.9 (Contd.....)

Rural

Kind of construction	Owner un- dertaking with household labour	With paid labour	Partly by own labour & partly by paid labour	Wholly on con- tract	Partly on con- tract	Total
1	8	9	10	11	12	13
New building	4.17	39.88	49.40	2.38	4.17	100.00
Addition to floor space building	..	5385	4231	1.92	1.92	100.00
Alteration & improvement of building	0.86	50.00	47.41	1.73	..	100.00
All buildings (Total):	2.38	45.54	47.62	2.08	2.38	100.00
Katcha wells, tube wells and tanks	..	..	..	..	..	..
Katcha wells, ponds, tanks, embankment check dams and other irrigation works	..	..	..	..	..	..
Laying of orchards and plantations	..	..	..	..	..	..
Cattle sheds, poultry sheds, other sheds and platforms.	..	..	..	..	..	..
Katcha roads, building raising and levelling of land and other improvement works.	..	..	..	..	..	..
there - specify	..	..	..	..	..	..
All Non-buildings - Sub-Total:	..	..	..	..	..	..
All constructions - Total:	2.38	45.54	47.62	2.08	2.38	100.00



Table: 6.9 (Contd....)

1	Total					
	Owner un- dertaking with household labour	With paid labour	Partly by own labour & partly by paid labour	Wholly on con- tract	Partly on con- tract	Total
1	14	15	16	17	18	19
New building	3.98	42.61	47.16	2.27	3.98	100.00
Addition to floor space of building	..	54.72	41.50	1.89	1.89	100.00
Alteration and improvement of building	0.80	52.85	44.72	1.63	..	100.00
All buildings (Total):	2.27	54.80	45.45	1.99	2.28	100.00
Bucca wells, tube wells and tanks	..	..	..	..	..	..
Katcha wells, ponds, tanks, embankment check dams and other irrigation works	..	..	..	..	..	..
Laying of orchards and plantations.	..	..	..	..	..	..
Cattle sheds, poultry sheds, other sheds and platforms.	..	..	..	..	..	..
Katcha roads, building raising and levelling of land and other improve- ment works.	..	..	..	..	..	..
Others - specify	..	..	..	..	..	..
All Non-buildings - Sub-Total:	..	..	..	..	..	..
All constructions - Total:	2.27	48.01	45.45	1.99	2.28	100.00



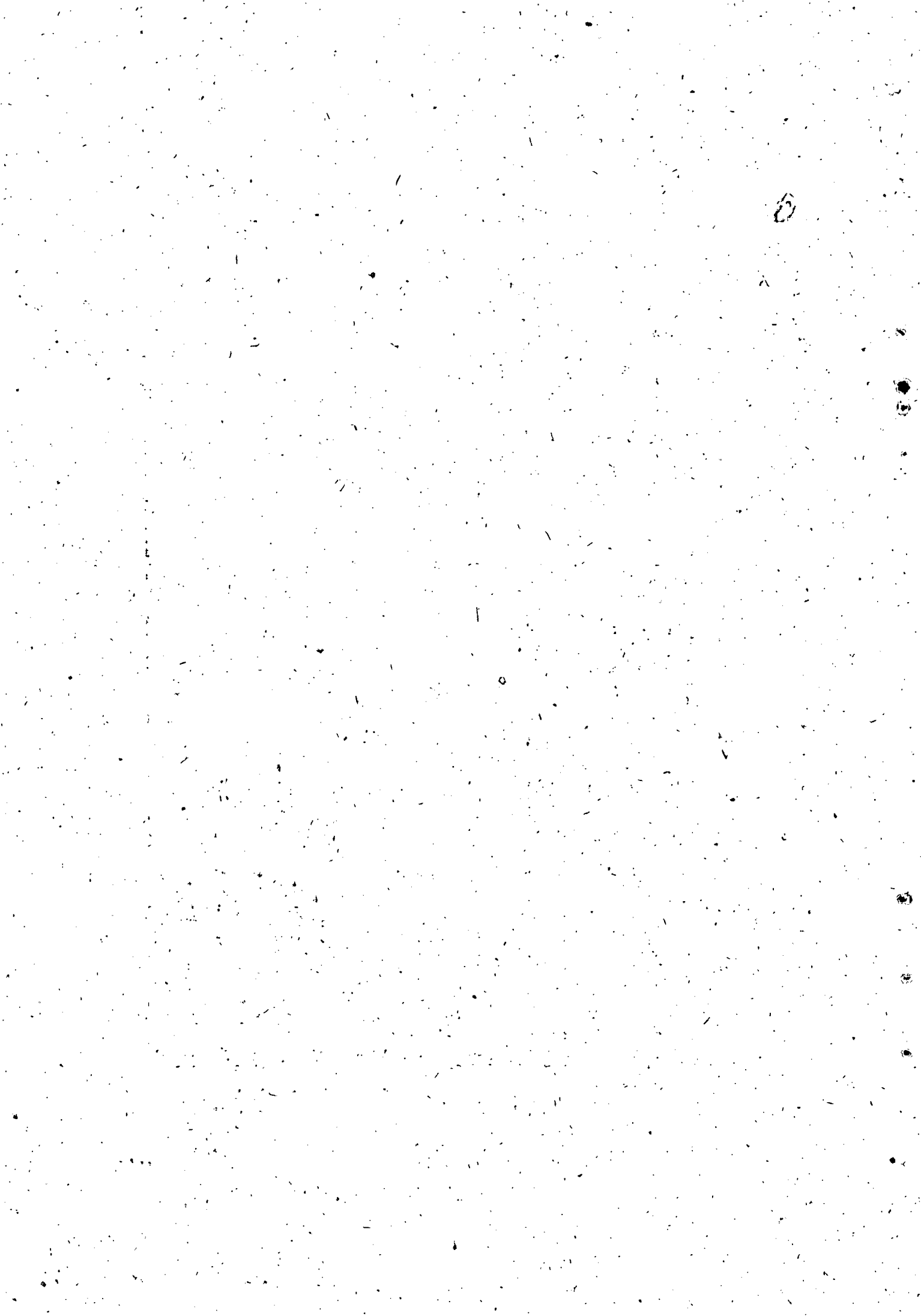


Table : 6.10

Percentage distribution of construction works by construction responsibility.

Wynad

- Urban

Nature of construction	Owner un- dertaking with household labour	With paid labour	Partly by own labour & partly by paid labour	Wholly on con- tract	Partly on con- tract	Total
1	2	3	4	5	6	7
1. New building						
2. Addition to floor space of building						
3. Alteration and improvement of building						
4. All buildings - (Total):						
5. Pucca wells, tube wells and tanks						
6. Katcha wells, ponds, tanks, embankment check dams and other irrigation works						
7. Laying of orchards and plantations						
8. Cattle sheds, poultry sheds, other sheds and platforms.						
9. Katcha roads, building raising and levelling of land and other improve- ment works.						
10. Others - specify						
11. All Non-buildings - Sub-Total:						
12. All constructions - Total:						

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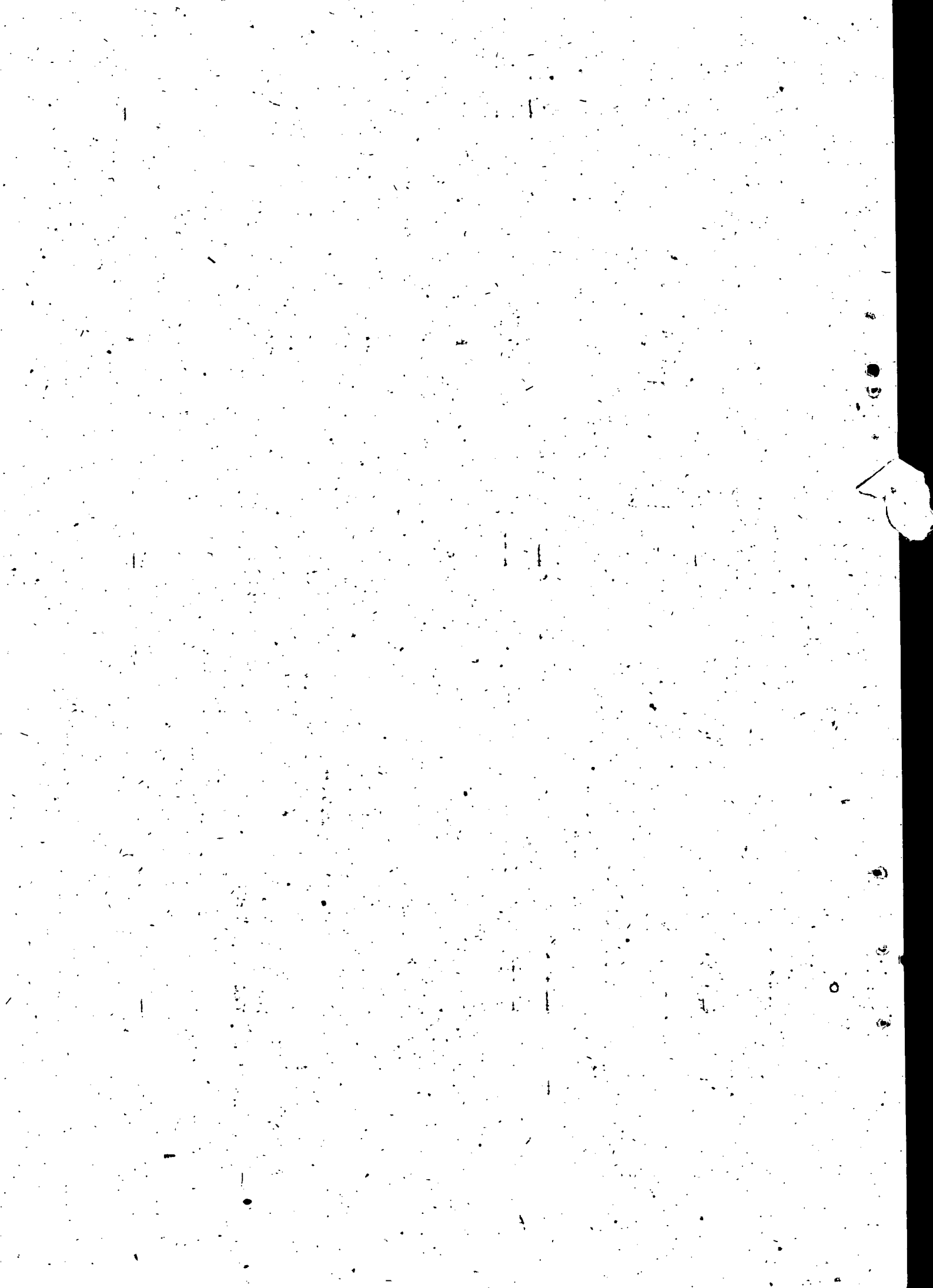


Table: 6.10 (Contd.....)

Nature of construction	Rural					Total
	Owner un- dertaking with household labour	With paid labour	Partly by own labour & partly by paid labour	Wholly on con- tract	Partly on con- tract	
1	8	9	10	11	12	13
New building	4.17	29.17	45.83	..	20.83	100.00
Addition to floor space of building	..	..	100.00	..	..	100.00
Alteration and improvement of building	..	13.04	78.26	8.70	..	100.00
All buildings (Total):	2.08	20.83	62.50	4.17	10.42	100.00
Pucca wells, tube wells and tanks	..	..	..	..	..	..
Katcha wells, ponds, tanks, embankment check dams and other irrigation works	..	100.00	..	..	..	100.00
Laying of orchards and plantations	..	100.00	..	..	..	100.00
Cattle sheds, poultry sheds, other sheds and platforms.	..	100.00	..	..	..	100.00
Katcha roads, building raising and levelling of land and other improve- ment works.	..	100.00	..	..	..	100.00
Others - specify	..	100.00	..	..	..	100.00
All Non-buildings - Sub-Total:	..	100.00	..	..	..	100.00
All constructions - Total:	1.39	47.22	41.67	2.78	6.94	100.00

Contd.....



Table: 6.10 (Contd....)

Nature of construction	Total:					
	Owner un- dertaking with household labour	With paid labour	Partly by own labour & Partly by paid labour	Wholly on con- tract	Partly on con- tract	Total
1	14	15	16	17	18	19
New building	4.17	29.17	45.83	..	20.83	100.00
Addition to floor space of building	..	..	100.00	..	..	100.00
Alteration and improvement of building	..	13.04	78.26	8.70	..	100.00
All buildings (Total):	2.08	20.83	62.50	4.17	10.42	100.00
Pucca wells, <del>wells</del> tube wells and tanks	..	..	..	..	..	..
Katcha wells, ponds, tanks, embankment check dams and other irrigation works.	..	100.00	..	..	..	100.00
Laying of orchards and plantations	..	100.00	..	..	..	100.00
3. Cattle sheds, poultry sheds, other sheds and platforms.	..	100.00	..	..	..	100.00
Katcha roads, building raising and levelling of land and other improve- ment works,	..	100.00	..	..	..	100.00
Others - specify	..	100.00	..	..	..	100.00
All Non-buildings - Sub-Total:	..	100.00	..	..	..	100.00
All constructions - Total:	1.39	47.22	41.67	2.78	6.94	100.00

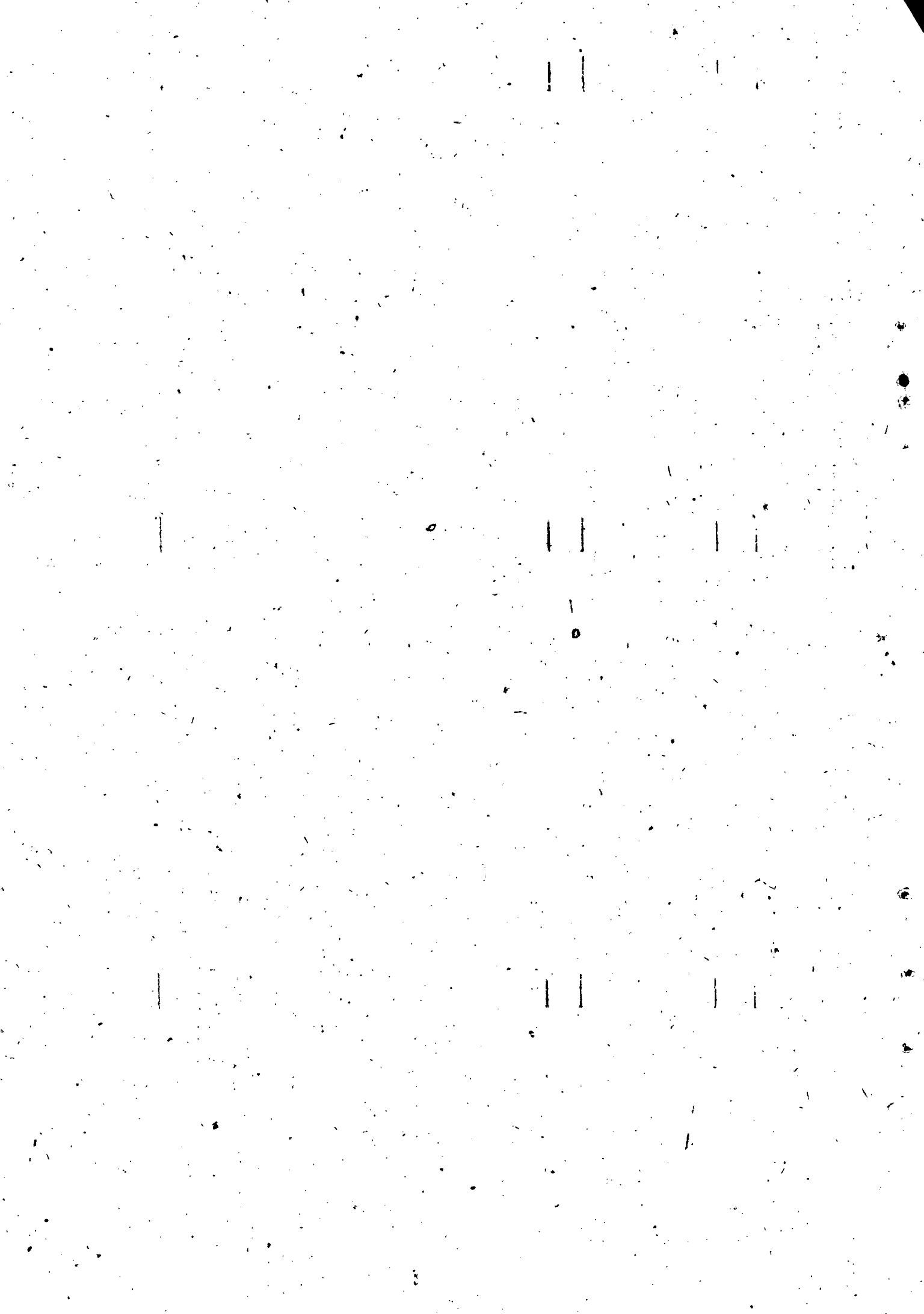


Table 6.11

Kozhikode

Nature of construction	Urban					Total
	Owner under-taking with household labour	With paid labour	Partly by own labour and partly by paid labour	Wholly on contract	Partly on contract	
1	2	3	4	5	6	7
1. New building	-	60.00	25.00	-	15.00	100.00
2. Addition to floor space of building.	10.00	60.00	10.00	10.00	10.00	100.00
3. Alteration & improvement of building	-	30.00	40.00	23.33	6.67	100.00
4. All buildings (Total)	1.25	48.75	28.75	10.00	11.25	100.00
5. Pucca wells, Tube wells and tanks.	-	-	-	-	-	-
6. Kutcha wells, Ponds, tanks, embankment check dams and other irrigation works.	-	100.00	-	-	-	100.00
7. Laying of orchards and plantations	-	-	-	-	-	-
8. Cattle sheds, poultry sheds, other sheds and platforms.	-	100.00	-	-	-	100.00
9. Kutcha roads, building raising and levelling of land and other improvement works.	-	100.00	-	-	-	100.00
10. Others - specify	-	100.00	-	-	-	100.00
11. All non-buildings - Sub Total	-	100.00	-	-	-	100.00
12. All constructions - Total	0.85	65.25	19.49	6.78	7.63	100.00





Table 6.11

66

Kozhikode

- Rural -						
1	2	3	4	5	6	7
Type of construction	Owner under-taking with household labour	With paid labour	Partly by own labour and partly by paid labour	Wholly on contract	Partly on contract	Total
1	8	9	10	11	12	13
1. New building.	0.69	29.86	59.72	1.39	8.34	100.00
2. Addition to floor space of building.	-	20.83	58.33	20.84	-	100.00
3. Alteration and improvement of building.	3.33	24.17	65.00	4.17	3.33	100.00
4. All buildings (Total)	1.74	26.74	61.81	4.16	5.55	100.00
5. Pucca wells, Tube wells & Tanks.	5.00	30.00	60.00	5.00	-	100.00
6. Kutcha wells, ponds, tanks, embankment check dams and other irrigation works.	-	100.00	-	-	-	100.00
7. Laying of orchards & plantations.	-	100.00	-	-	-	100.00
8. Cattle sheds, poultry sheds, other sheds and platforms.	-	100.00	-	-	-	100.00
9. Kutcha roads, building raising and levelling of land and other improvement works.	50.00	50.00	-	-	-	100.00
10. Others - specify	19.70	80.30	-	-	-	100.00
11. All non-buildings - Sub-Total	18.02	70.27	10.81	0.90	-	100.00
12. All constructions - Total	6.27	38.85	47.62	3.26	4.00	100.00

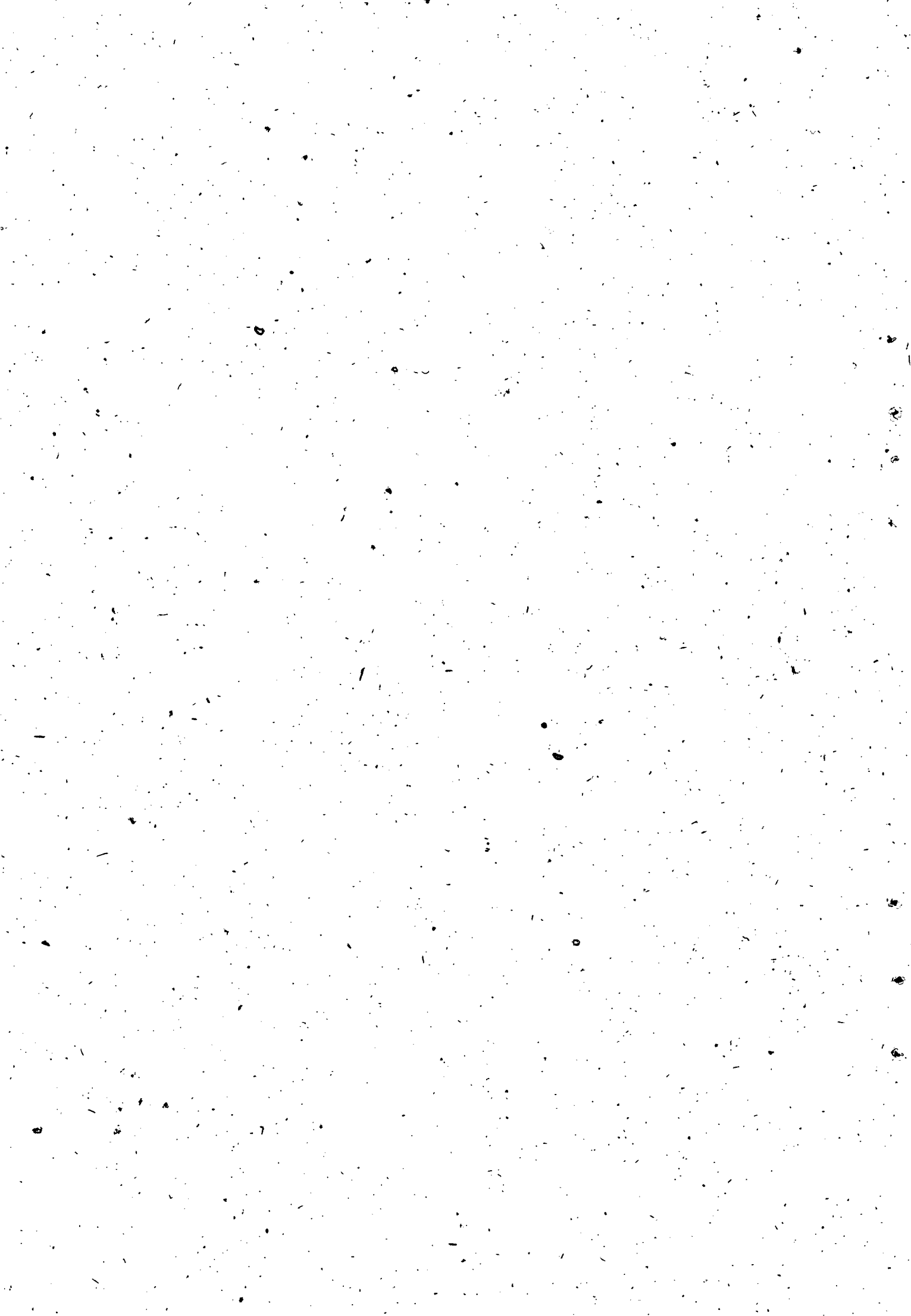


Table 16.11

Kozhikode

Name of construction	Total					
	Owner taking household labour	under- with paid labour	Partly by own labour and partly by paid labour	Wholly on contract	Partly on contract	Total
1	24	15	16	17	18	19
1. New buildings	0.54	36.41	52.18	1.09	9.78	100.00
2. Addition to floor space of building	2.94	32.35	44.12	17.65	2.94	100.00
3. Alteration and improvement of building.	8.67	25.33	60.00	8.00	4.00	100.00
4. All buildings (Total)	11.63	94.12	54.63	5.43	6.79	100.00
5. Pucca wells, Tube wells & Tanks.	5.00	30.00	60.00	5.00	-	100.00
6. Kutcha wells, Ponds, tanks, embankment check dams and other irrigation works.	-	100.00	-	-	-	100.00
7. Laying of orchards & plantations.	100.00	-	-	-	-	100.00
8. Cattle sheds, poultry sheds, other sheds and platforms.	-	100.00	-	-	-	100.00
9. Kutcha roads, building raising and levelling of land and other improvement works.	46.15	53.85	-	-	-	100.00
10. Others - specify	13.54	86.46	-	-	-	100.00
11. All non-buildings - sub-total	13.42	77.85	8.06	0.67	-	100.00
12. All constructions - Total	5.03	44.87	41.20	4.06	4.84	100.00

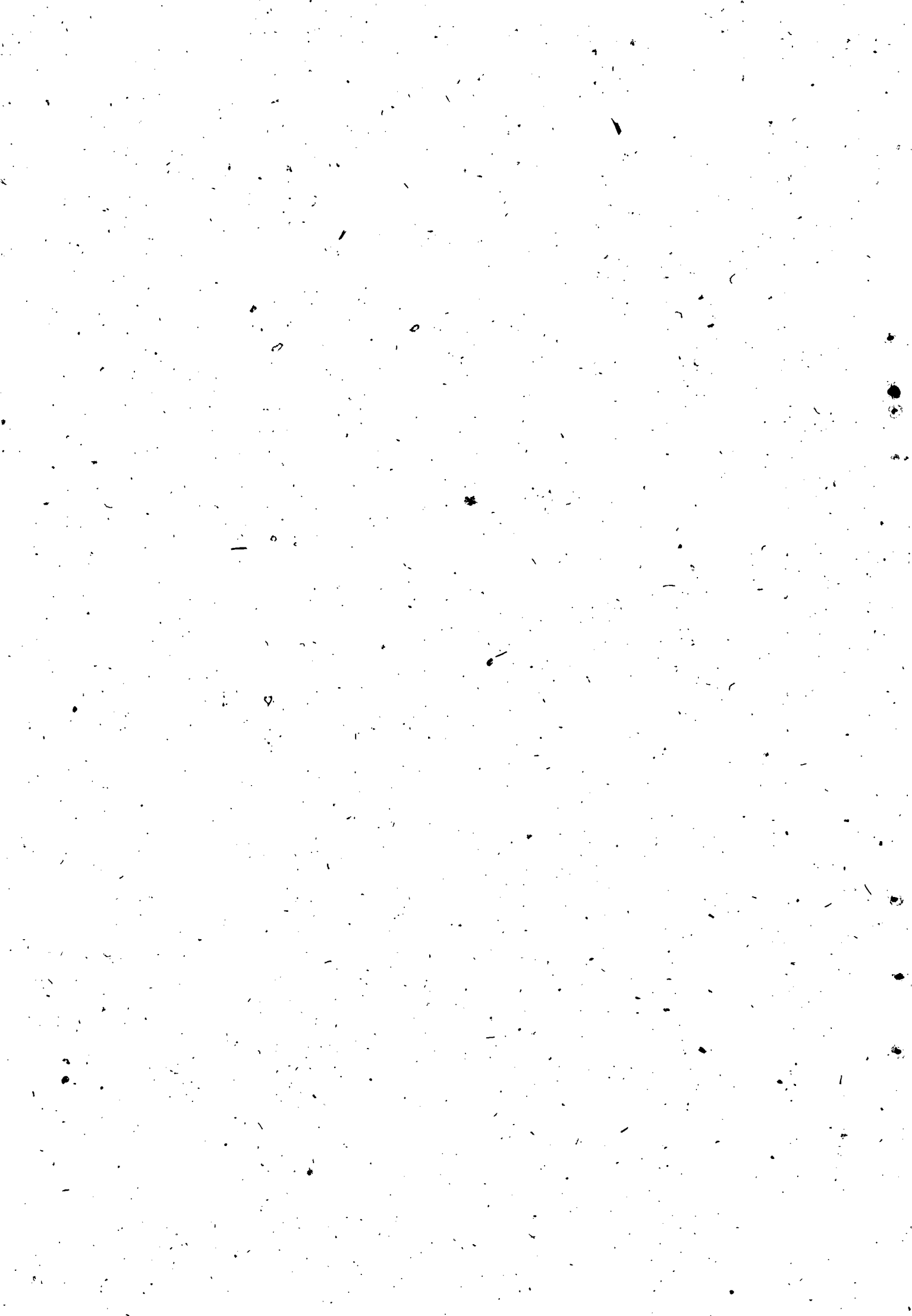


Table: 6.12

Cannanore

Nature of Construction	Urban					Total
	Owner under-taking with household labour	With paid labour	Partly by own labour and partly by paid labour	Wholly on contract	Partly on contract	
1	2	3	4	5	6	7
1. New building	-	12.50	-	-	-	-
2. Addition to floor space of building	-	50.00	-	18.75	68.75	100.00
3. Alteration/improvement of building	12.50	37.50	-	12.50	37.50	100.00
4. All buildings (Total)	3.13	37.50	50.00	-	-	100.00
5. Tucca wells, Tube wells & Tanks	-	28.12	12.50	-	-	-
6. Kutchu wells, ponds, tanks, embankment, check dams and other irrigation works	-	100.00	-	12.50	43.75	100.00
7. Laying of orchards & plantations	-	-	-	-	-	-
8. Cattle sheds, poultry sheds, other sheds and platforms	-	-	-	-	-	-
9. Kutchu roads, building raising and levelling of land and other improvement works	-	-	-	-	-	-
10. Others - specify	-	-	-	-	-	-
11. All non-buildings - Sub-total	-	100.00	-	-	-	100.00
12. All constructions - Total	2.33	46.51	9.30	9.30	32.56	100.00

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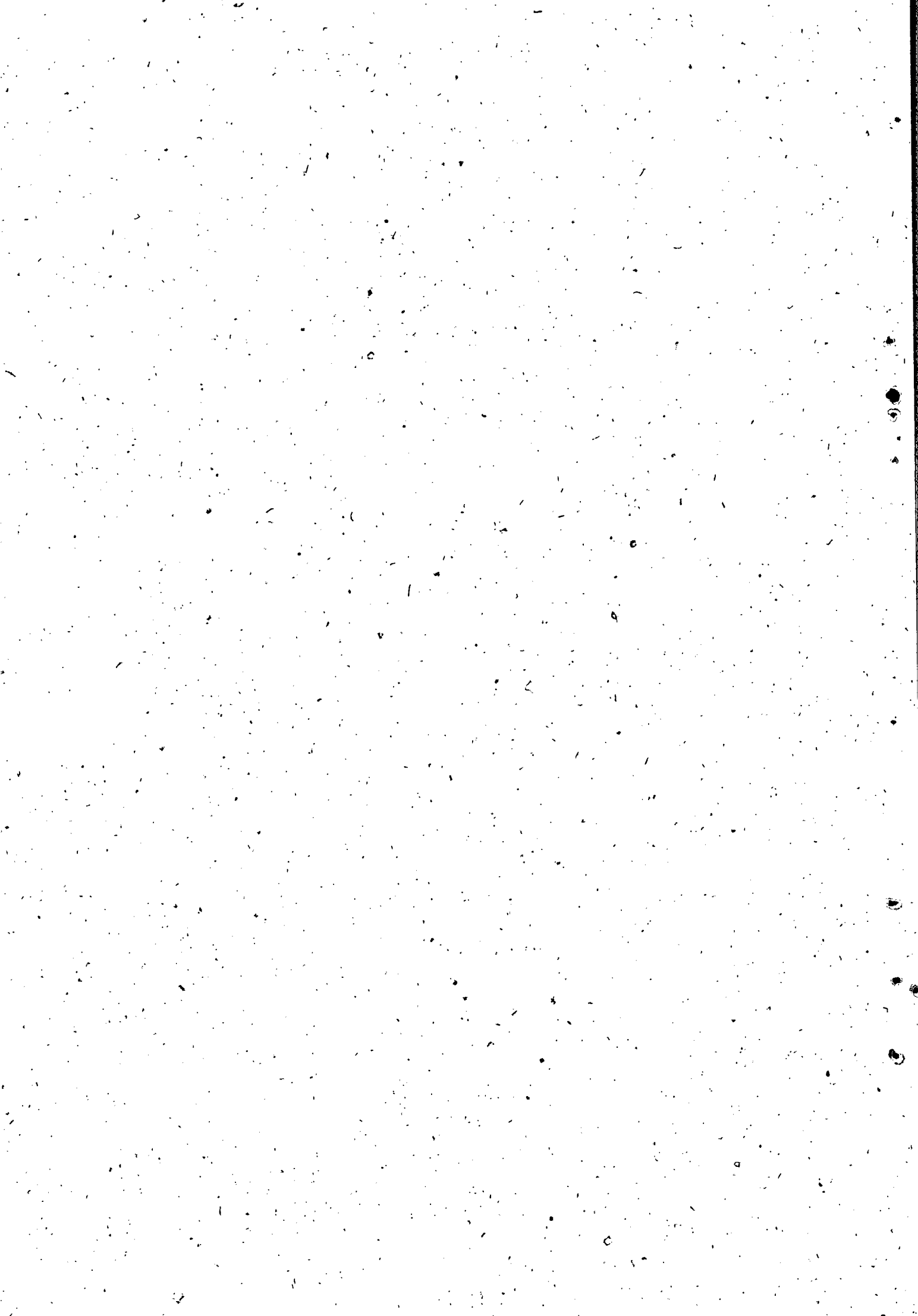


Table 6.12

Campanore

of construction	Rural					Total
	Owner under-taking with household labour	With paid labour	Partly by own labour and partly by paid labour	Wholly on contract	Partly on contract	
	8	9	10	11	12	13
1. New building	3.57	32.74	52.38	-	11.31	100.00
2. Addition to floor space of building.	-	37.25	52.95	-	9.80	100.00
3. Alteration & improvement of building	2.56	52.14	44.45	-	0.85	100.00
4. All buildings - Total	2.68	40.18	49.70	-	7.44	100.00
5. Pucca wells, Tube wells & Tanks.	-	93.75	-	5.47	0.78	100.00
6. Kutcha wells, Ponds, tanks, embankment check dams and other irrigation works.	2.94	41.18	-	54.41	1.47	100.00
7. Laying of orchards & plantations.	25.00	3.13	-	71.87	-	100.00
8. Cattle sheds, poultry sheds, other sheds and platforms.	17.24	79.31	3.45	-	-	100.00
9. Kutcha roads, building raising and levelling of land and other improvement works.	47.46	20.34	1.69	30.51	-	100.00
10. Others - specify	7.69	92.31	-	-	-	100.00
11. All non-buildings - Sub-total	13.16	60.82	0.58	24.86	0.58	100.00
12. All constructions - Total	7.96	50.59	24.93	12.54	3.98	100.00





Table 6.12

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Cannanore

Type of construction	Total					
	Owner under-taking with household labour	With paid labour	Partly by own labour and partly by paid labour	Wholly on contract	Partly on contract	Total
1	14	15	16	17	18	19
1. New building	3.26	30.98	47.83	1.63	16.30	100.00
2. Addition to floor space of building.	-	38.99	45.76	1.69	13.56	100.00
3. Alteration and improvement of building.	3.20	51.20	44.80	-	0.80	100.00
4. All buildings (Total)	2.72	39.13	46.47	1.08	10.60	100.00
5. Pucca wells, Tube wells & Tanks.	-	93.80	-	5.42	0.78	100.00
6. Kutcha wells, ponds, tanks, embankment check dams and other irrigation works.	2.94	41.18	-	54.41	1.47	100.00
7. Laying of orchards & plantations.	25.00	3.12	-	71.88	-	100.00
8. Cattle sheds, poultry sheds, other sheds and platforms.	17.24	79.31	3.45	-	-	100.00
9. Kutcha roads, building raising and levelling of land and other improvement works.	47.46	20.34	1.69	30.51	-	100.00
10. Others - specify .	5.56	94.44	-	-	-	100.00
11. All non-buildings - Sub-total	12.75	62.04	0.57	24.06	0.56	100.00
12. All constructions - Total	7.63	50.35	23.99	12.34	5.69	100.00

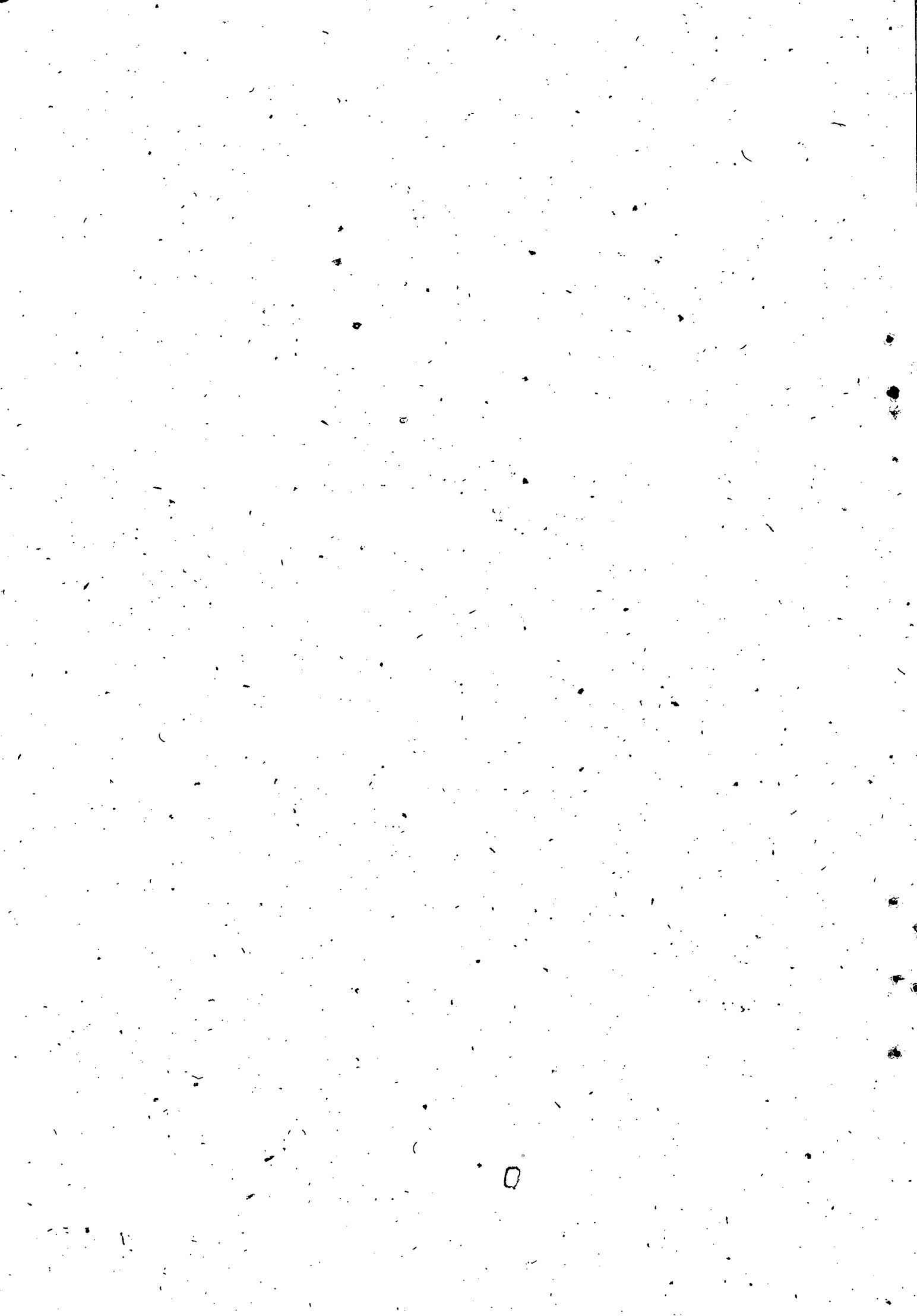


Table 7.1

## Percentage distribution of building works according to purpose

District	Rural											Total
	Residen- tial	Indus- trial	Commer- cial	Agricul- tural	Educa- tional	Health	Other Indus- trial	Resi- den- tial cum Indus- trial	Resi- den- tial cum Comm- ercial	Resi- den- tial cum agri- cultural	Others	
	2	3	4	5	6	7	8	9	10	11	12	13
Alappuzha	93.94	0.65	3.25	0.22	-	-	-	0.22	1.08	-	0.64	100.00
Coimbatore	92.56	0.75	1.30	1.30	1.30	-	-	0.37	0.37	0.19	1.86	100.00
Chennai	92.56	0.81	2.22	-	-	-	-	-	0.81	0.20	0.40	100.00
Kottayam	94.94	-	2.94	-	0.60	-	-	-	0.60	-	0.89	100.00
Idukki	90.15	-	2.46	1.48	-	0.98	-	-	3.45	-	1.48	100.00
Manakulam	89.35	2.34	1.82	2.61	0.26	0.26	0.26	0.52	0.26	-	1.82	100.00
Trichur	91.96	1.34	3.36	1.56	0.89	-	0.22	-	0.45	0.22	0.22	100.00
Palghat	89.12	0.42	7.10	0.84	1.26	-	0.42	-	0.42	-	0.42	100.00
Malappuram	96.13	-	-	-	-	-	-	-	-	-	3.87	100.00
Wynad	99.59	6.25	2.08	-	2.08	-	-	-	-	-	-	100.00
Kozhikode	96.18	-	2.43	0.70	-	-	-	-	-	-	0.69	100.00
Cananore	94.35	0.30	2.98	0.89	-	-	0.29	0.30	-	-	0.89	100.00
All	93.13	0.75	2.55	0.85	0.44	0.07	0.10	0.14	0.58	0.05	1.34	100.00

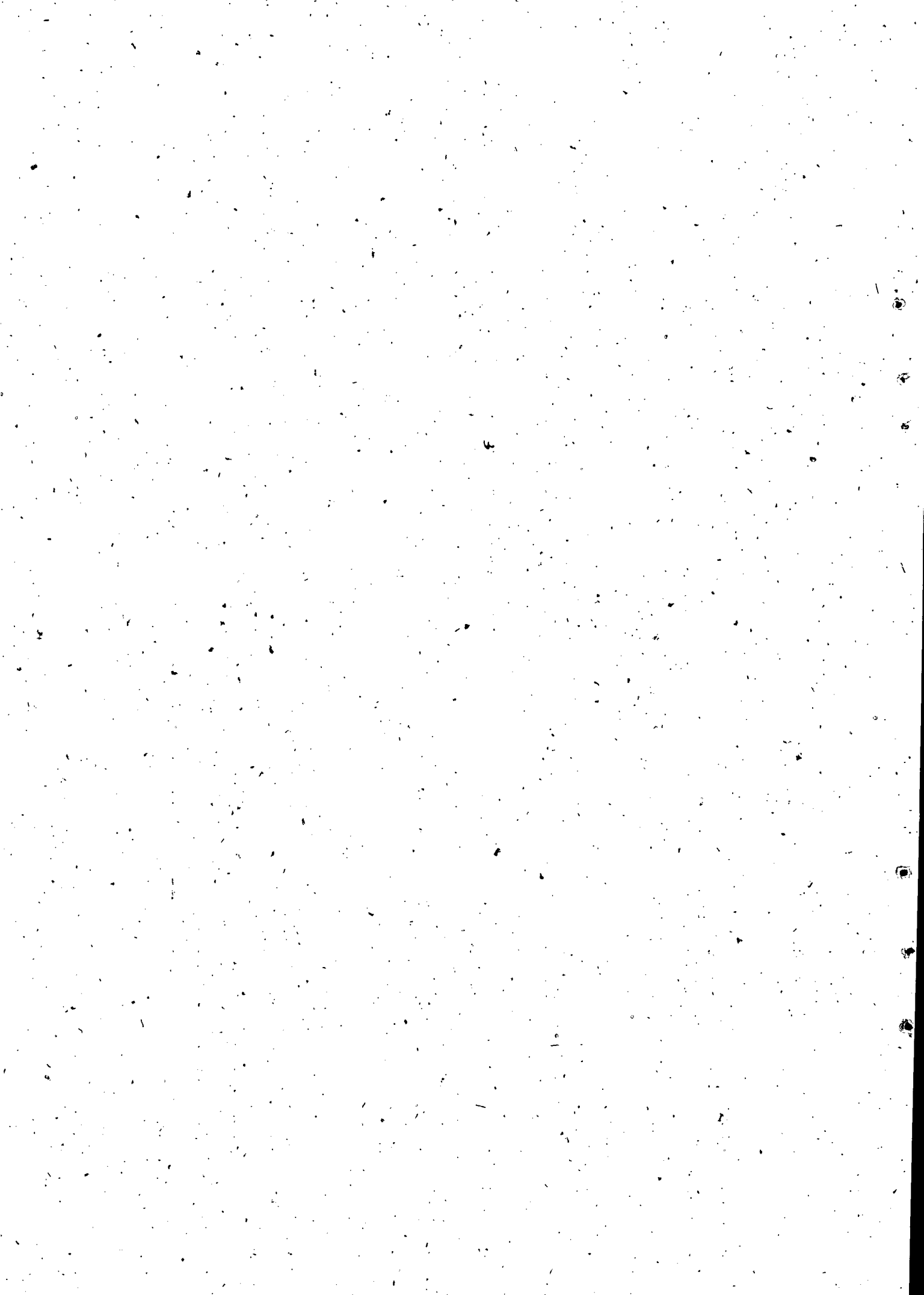


Table 7.2

## Percentage distribution of building works according to purpose

Urban

District	resi- dential	Indus- trial	Commer- cial	Agri- cul- tural	Educa- tional	Health	Other Indus- trial	resi- den- tial cum Indus- trial	resi- den- tial cum Commer- cial	resi- den- tial cum Agri- cul- tural	Others	Total
Kollam	96.82	0.79	0.79	0.80	0.80	-	-	-	-	-	-	100.00
Quilon	97.92	-	-	2.08	-	-	-	-	-	-	-	100.00
Alleppey	97.40	-	1.30	-	-	-	-	1.30	-	-	-	100.00
Kottayam	87.50	-	12.50	-	-	-	-	-	-	-	-	100.00
Idukki	87.50	-	12.50	-	-	-	-	-	-	-	-	100.00
Ernakulam	90.16	4.10	1.64	1.64	-	-	-	0.82	-	0.82	0.82	100.00
Trichur	92.19	1.56	4.69	-	-	-	-	1.56	-	-	-	100.00
Palghat	93.75	6.25	-	-	-	-	-	-	-	-	-	100.00
Malappuram	100.00	-	-	-	-	-	-	-	-	-	-	100.00
Wynad	-	-	-	-	-	-	-	-	-	-	-	100.00
Kozhikode	97.50	-	2.50	-	-	-	-	-	-	-	-	100.00
Cannanore	78.13	-	21.87	-	-	-	-	-	-	-	-	100.00
All	93.64	1.27	3.50	0.63	0.16	-	-	0.48	-	0.16	0.16	100.00



Table 7.3

Percentage distribution of building works according to purpose

District											<u>Total</u>	
	Resi- dential	Indus- trial	Commer- cial	Agri- cul- tural	Educa- tional	Health	Other Indus- trial	Resi- den- tial cum Indus- trial	Resi- den- tial cum Com- mercial	Resi- den- tial cum agri- cul- tural	Others	Total
Coimbatore	94.56	0.68	2.72	0.34	0.17	-	-	0.17	0.85	-	0.51	100.00
Dindigul	93.00	0.68	1.19	1.37	1.19	-	-	0.34	0.34	0.17	1.72	100.00
Chingleput	95.80	0.70	2.10	-	-	-	-	0.17	0.71	0.17	0.35	100.00
Tattayam	94.29	-	3.53	-	0.53	-	-	-	0.53	-	0.82	100.00
Kuduku	89.35	-	3.20	1.37	-	0.91	-	-	3.20	-	1.37	100.00
Amakulam	89.53	2.76	1.78	2.37	0.20	0.20	0.20	0.59	0.20	0.20	1.97	100.00
Trichur	91.99	1.37	3.52	1.37	0.78	-	0.19	0.19	0.39	-	0.20	100.00
Balghat	89.41	0.78	6.67	0.78	1.18	-	0.39	-	0.39	-	0.40	100.00
Malappuram	96.31	-	-	-	-	-	-	-	-	-	3.69	100.00
Madurai	89.59	6.25	2.08	-	2.08	-	-	-	-	-	-	100.00
Chikode	96.47	-	2.45	0.54	-	-	-	-	-	-	0.54	100.00
Channarayana	92.93	0.27	4.62	0.82	-	-	0.27	0.27	-	-	0.82	100.00
All	93.21	0.82	2.67	0.82	0.40	0.06	0.08	0.19	0.51	0.06	1.18	100.00





Table 8.1.

TRIVANDRUM

Percentage Distribution of building constructions by type of construction and stage.

Type of construction	URBAN			RURAL			TOTAL		
	Com- pleted	Not com- pleted	Total	Com- pleted	Not com- pleted	Total	Com- pleted	Not com- pleted	Total
Pucca	38.67	61.33	100.00	38.24	61.76	100.00	38.33	61.67	100.00
Kutcha	84.31	15.69	100.00	77.89	22.11	100.00	79.25	20.75	100.00
Total	57.14	42.86	100.00	54.55	45.45	100.00	55.10	44.90	100.00



Table 8.2.

QUILON

Percentage Distribution of building constructions by type of construction and stage.

Type of construction	URBAN			RURAL			TOTAL		
	Completed	Not completed	Total	Completed	Not completed	Total	Completed	Not-completed	Total
Pucca	38.71	61.29	100.00	36.89	63.11	100.00	37.04	62.96	100.00
Katcha	88.24	11.76	100.00	89.53	10.47	100.00	91.13	8.87	100.00
Total	56.25	43.75	100.00	55.58	44.42	100.00	55.63	44.37	100.00



Table 8.3.

ALLEPPEY

Percentage Distribution of building constructions by type of construction and stage

Type of construction	URBAN			RURAL			TOTAL		
	Completed	Not completed	Total	Completed	Not completed	Total	Completed	Not completed	Total
Pucca	55.93	44.07	100.00	38.20	61.80	100.00	40.72	59.28	100.00
Kutcha	100.00	..	100.00	96.40	3.60	100.00	96.82	3.18	100.00
Total	66.23	33.77	100.00	54.55	45.45	100.00	56.12	43.88	100.00



Table 8.4.

KOTTAYAM

Percentage Distribution of building constructions by type of construction and stage

Type of construction	URBAN			RURAL			TOTAL		
	Completed	Not completed	Total	Completed	Not-completed	Total	Completed	Not-completed	Total
Pucca	43.48	56.52	100.00	32.82	67.18	100.00	33.68	66.32	100.00
Kutcha	100.00	..	100.00	74.32	25.68	100.00	77.11	22.89	100.00
Total	59.38	40.62	100.00	41.96	58.04	100.00	43.48	56.52	100.00



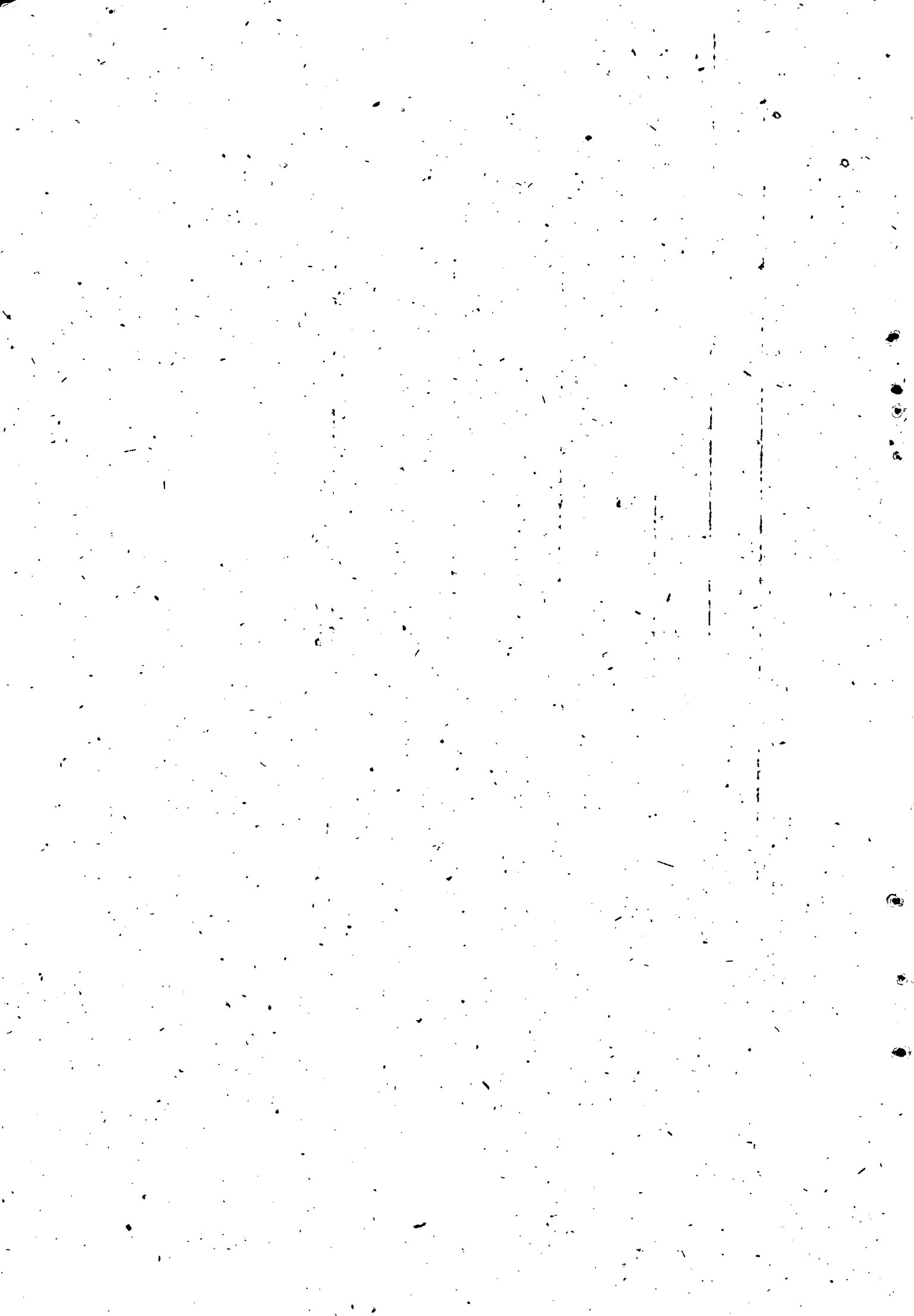


Table 8.5.

IDUKKY

Percentage Distribution of building constructions By type of construction and stage

Type of construction,	URBAN			RURAL			TOTAL		
	Com- pleted	Not com- pleted	Total	Com- pleted	Not com- pleted	Total	Com- pleted	Not com- pleted	Total
Pucca	46.67	53.33	100.00	46.40	53.60	100.00	46.43	53.57	100.00
Kutchha	100.00	..	100.00	80.77	19.23	100.00	81.01	18.99	100.00
Total	50.00	50.00	100.00	59.61	40.39	100.00	58.90	41.10	100.00

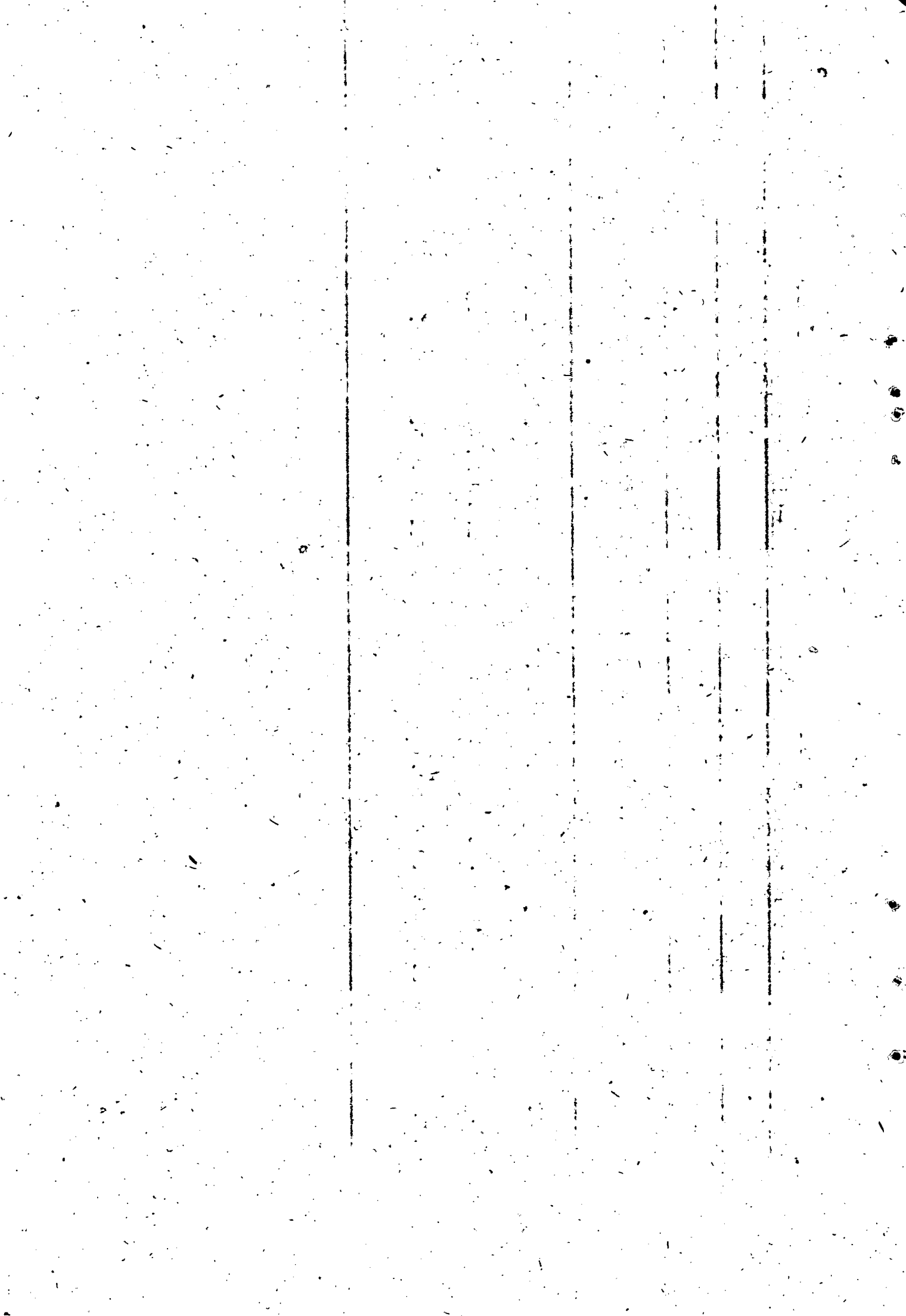


Table 8.6.

ERNAKULAM

Percentage Distribution of building constructions by type of construction and stage

Type of construction	URBAN			RURAL			TOTAL		
	Com- pleted	Not com- pleted	Total	Com- pleted	Not com- pleted	Total	Com- pleted	Not com- pleted	Total
Pucca	44.09	55.91	100.00	42.76	57.24	100.00	43.08	56.92	100.00
Kutcha	100.00	..	100.00	97.70	2.30	100.00	98.28	1.72	100.00
Total	57.38	42.62	100.00	55.21	44.79	100.00	55.73	44.27	100.00

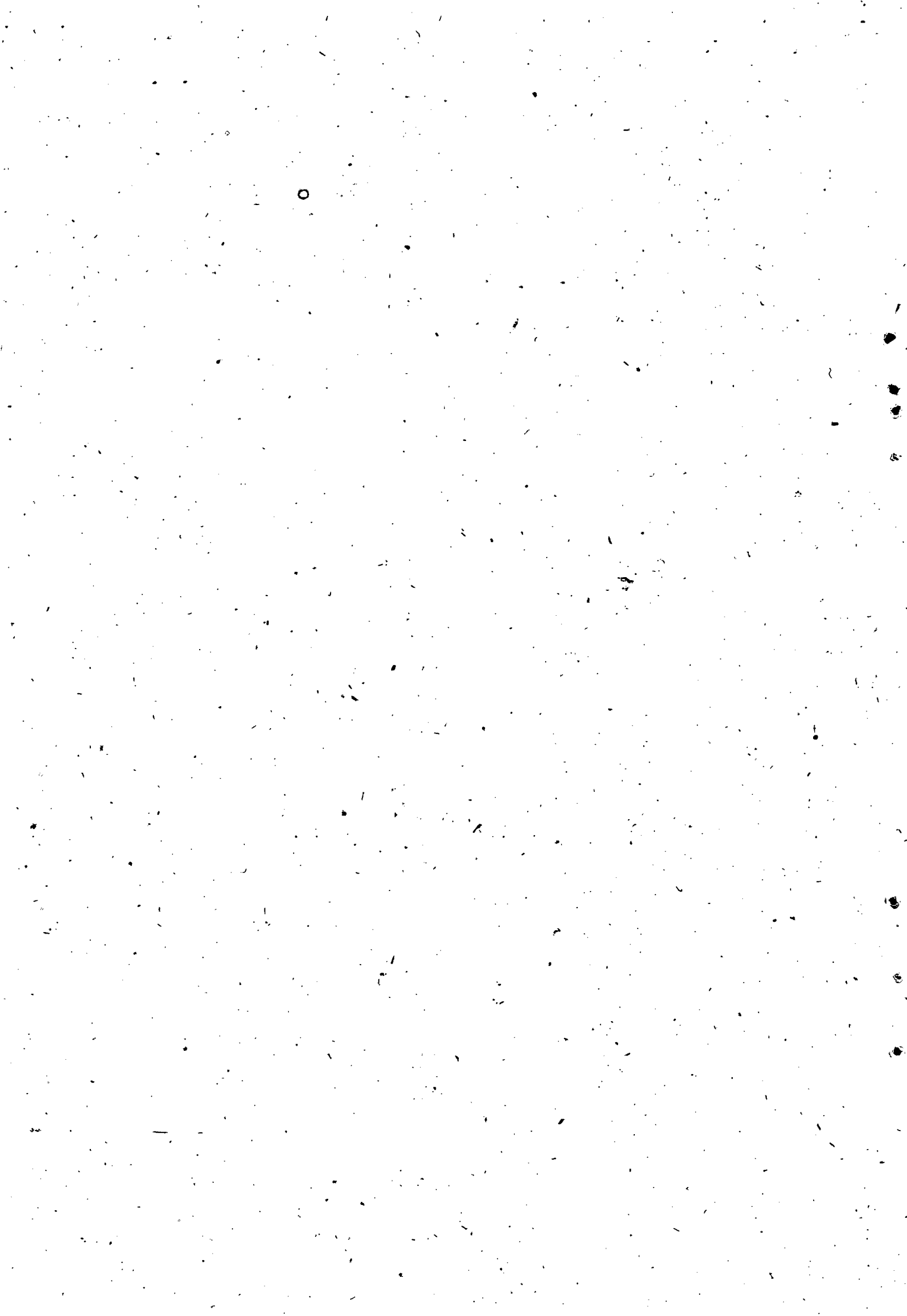


Table 8.7.

TRICHUR

Percentage Distribution of building constructions by type of construction and stage

Type of construction	URBAN			RURAL			TOTAL		
	Completed	Not-completed	Total	Completed	Not-completed	Total	Completed	Not-completed	Total
Pucca	40.00	60.00	100.00	42.43	57.57	100.00	42.12	57.88	100.00
Kutcha	100.00	..	100.00	94.59	5.41	100.00	95.20	4.80	100.00
Total	53.12	46.88	100.00	55.36	44.64	100.00	55.08	44.92	100.00



Table 8.8.

PALGHAT

Percentage Distribution of building constructions by type of construction and stage

Type of construction	URBAN			RURAL			TOTAL		
	Completed	Not completed	Total	Completed	Not completed	Total	Completed	Not completed	Total
Pucca	41.67	58.33	100.00	48.97	51.03	100.00	48.41	51.59	100.00
Kutchha	100.00	..	100.00	81.91	18.09	100.00	82.65	17.35	100.00
All	56.25	43.75	100.00	61.92	38.08	100.00	61.57	38.43	100.00



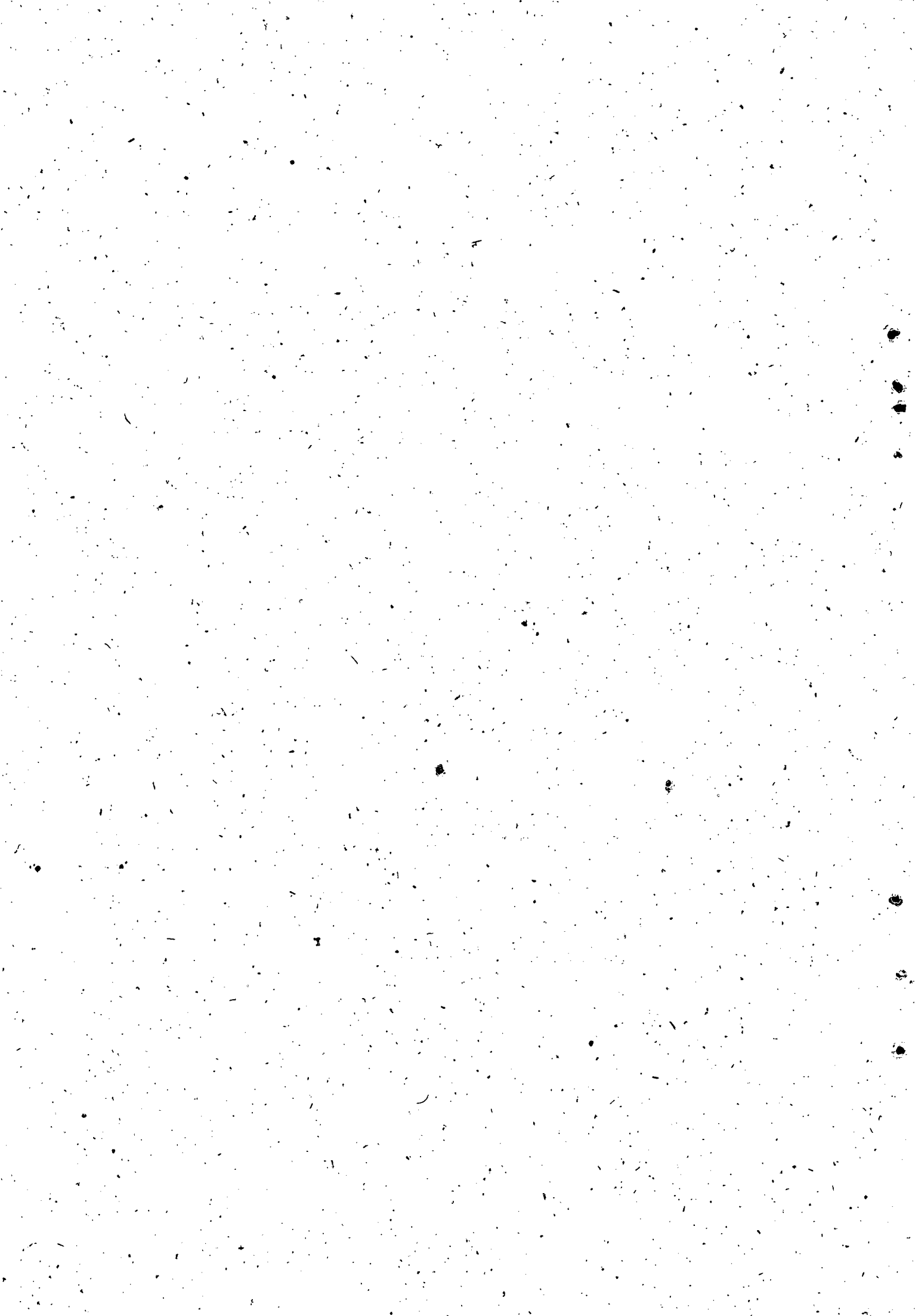


Table 8.9.

Percentage Distribution of building constructions by type of construction and stage

Type of construction	URBAN			RURAL			TOTAL		
	Com- pleted	Not com- pleted	Total	Com- pleted	Not com- pleted	Total	Com- pleted	Not com- pleted	Total
Pucca	60.00	40.00	100.00	37.08	62.92	100.00	38.00	62.00	100.00
Kutcha	100.00	..	100.00	71.88	28.12	100.00	73.53	26.47	100.00
Total	75.00	25.00	100.00	47.02	52.98	100.00	48.30	51.70	100.00

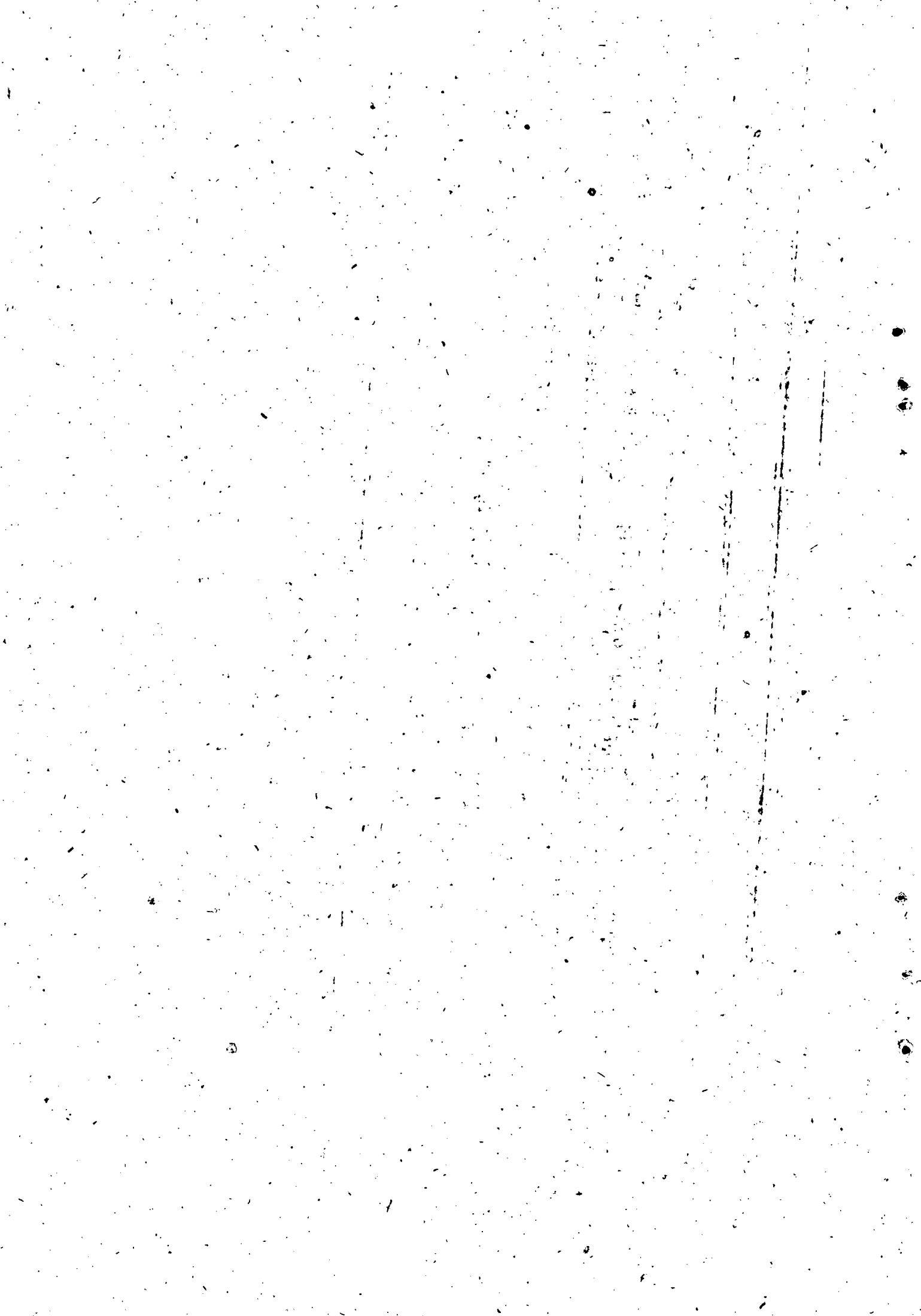


Table 8.10.

WYNAD

## Percentage Distribution of building constructions by type of construction and stage

Type of construction	URBAN			RURAL			TOTAL		
	Com- pleted	Not com- pleted	Total	Com- pleted	Not com- pleted	Total	Com- pleted	Not com- pleted	Total
Pucca	..	..	..	34.62	<del>65.38</del> 56.38	100.00	34.62	65.38	100.00
Kutcha	..	..	..	77.27	22.73	100.00	77.27	22.73	100.00
Total	..	..	..	54.17	45.83	100.00	54.17	45.83	100.00

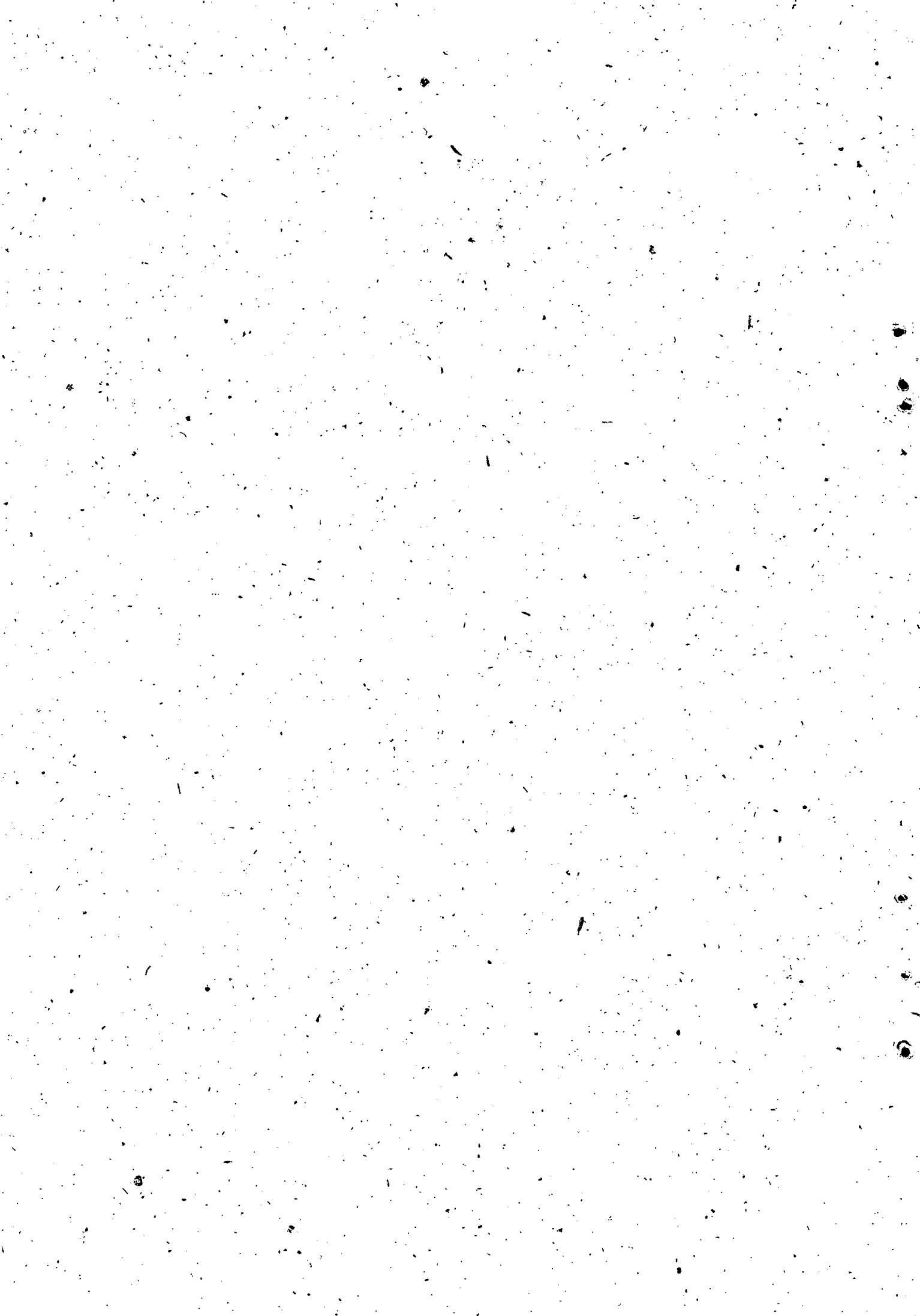


Table 8.11.

CALICUT

Percentage distribution of building constructions by type of construction and stage

Type of construction	URBAN			RURAL			TOTAL		
	Completed	Not completed	Total	Completed	Not completed	Total	Completed	Not completed	Total
Pucca	52.46	47.54	100.00	44.88	55.12	100.00	46.62	53.38	100.00
Kutcha	100.00	..	100.00	92.77	7.23	100.00	94.12	5.88	100.00
Total	63.75	36.25	100.00	58.68	41.32	100.00	59.78	40.22	100.00

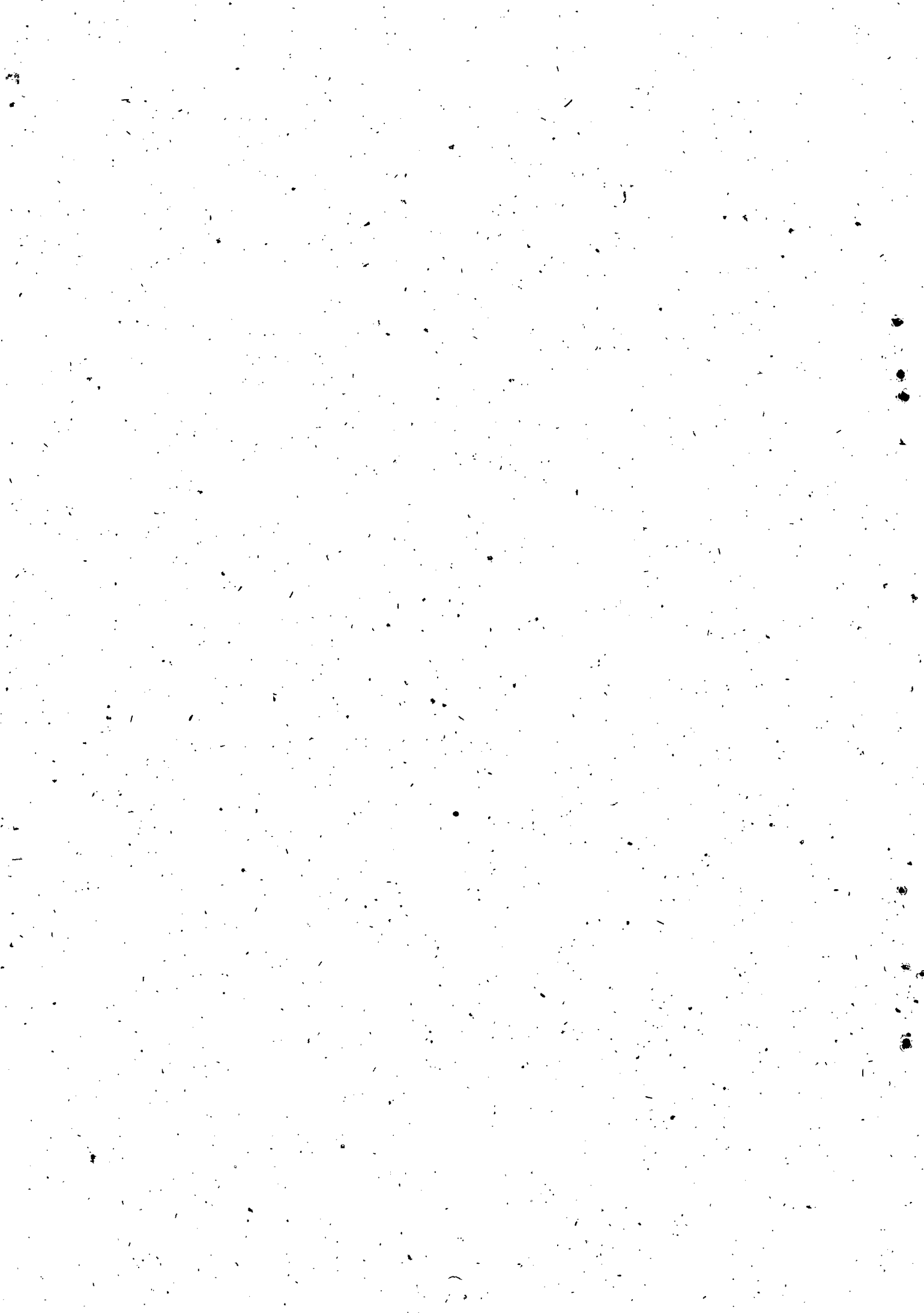


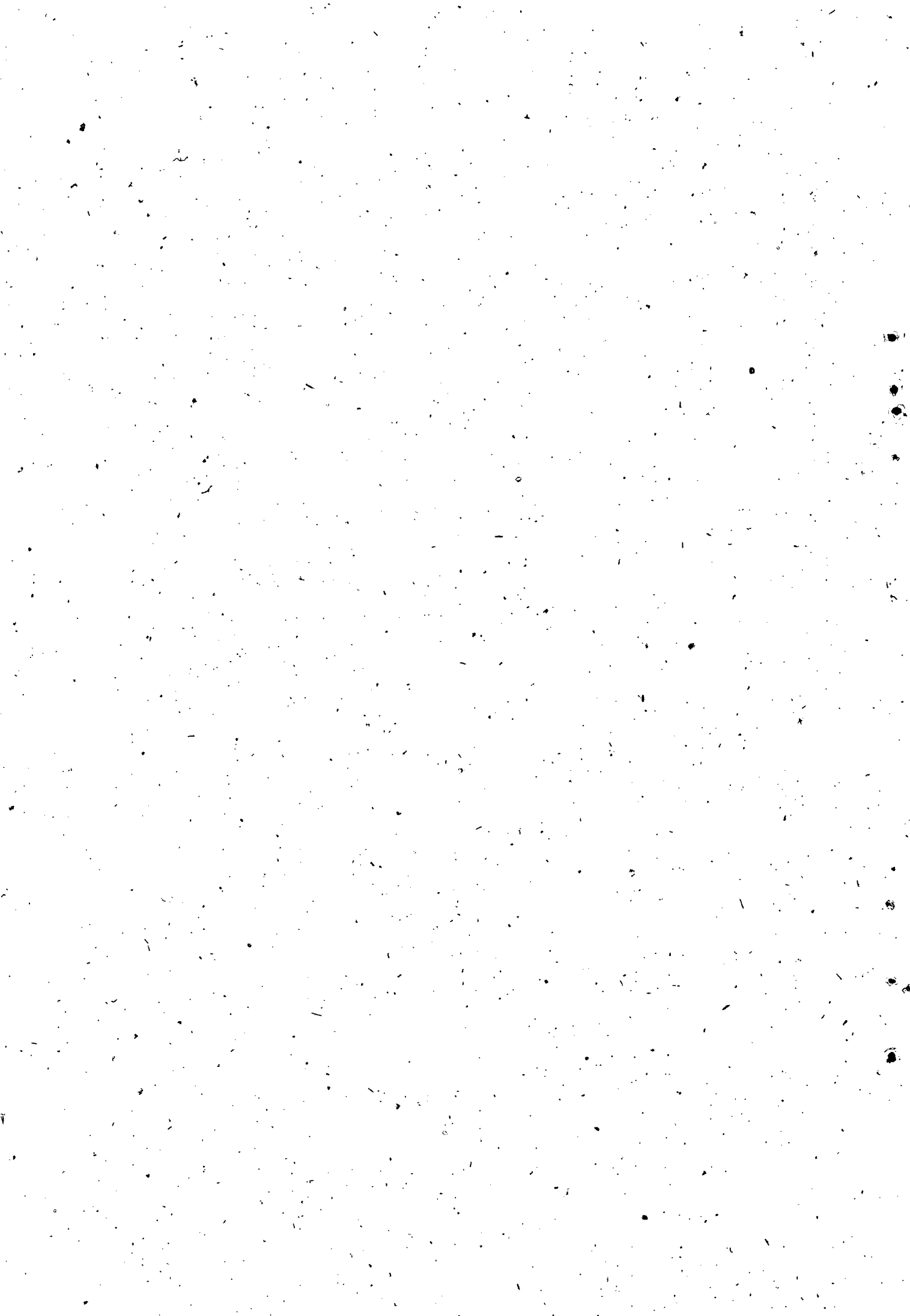
Table 8.12.

CANNANORE

Percentage distribution of building constructions by type of construction and stage

Type of construction	URBAN			RURAL			TOTAL		
	Com- pleted	Not com- pleted	Total	Com- pleted	Not com- pleted	Total	Com- pleted	Not com- pleted	Total
Wca	35.71	64.29	100.00	33.48	66.52	100.00	33.72	66.28	100.00
Wutcha	100.00	..	100.00	80.58	19.42	100.00	81.31	18.69	100.00
Total	43.75	56.25	100.00	47.92	52.08	100.00	47.55	52.45	100.00















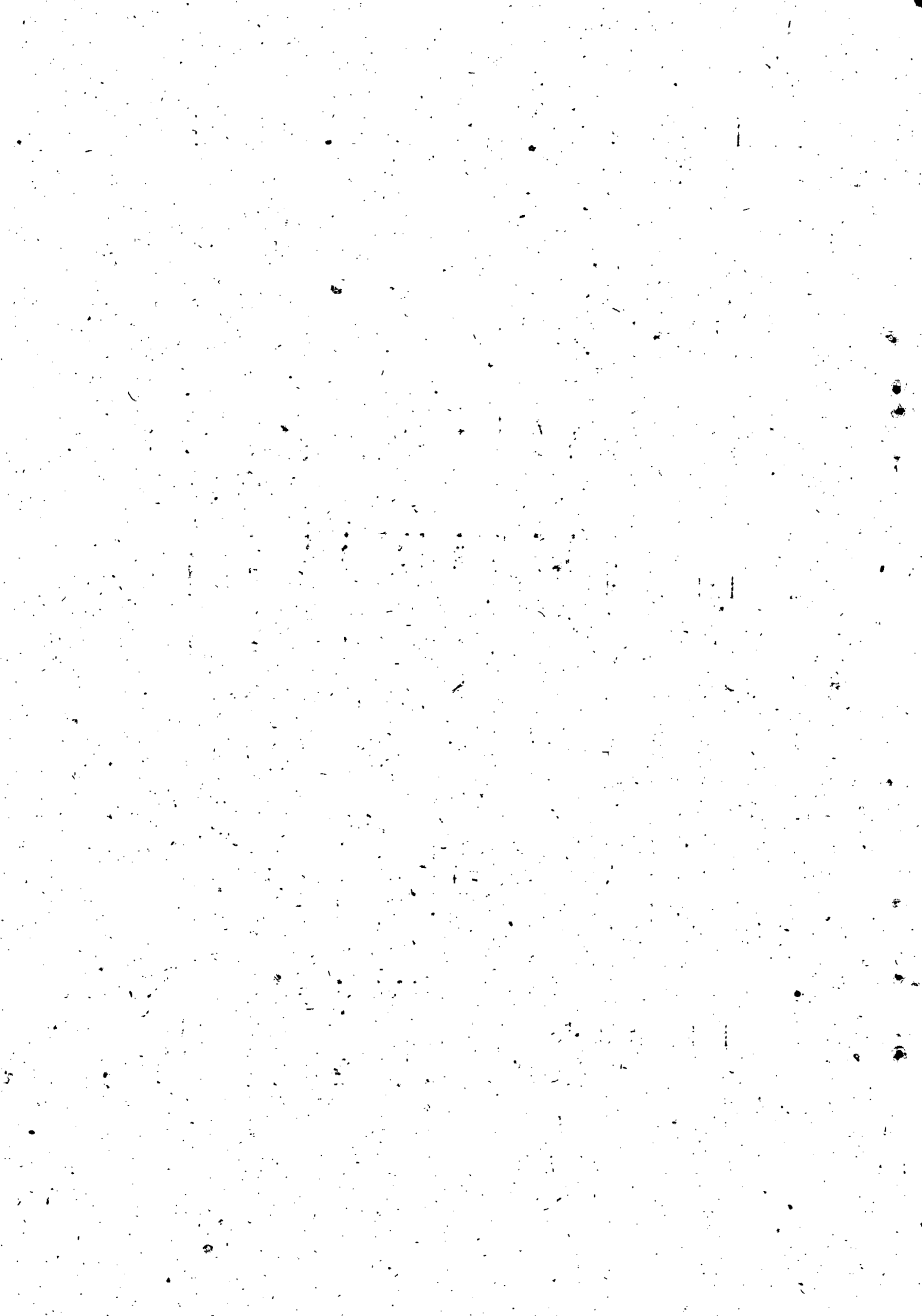




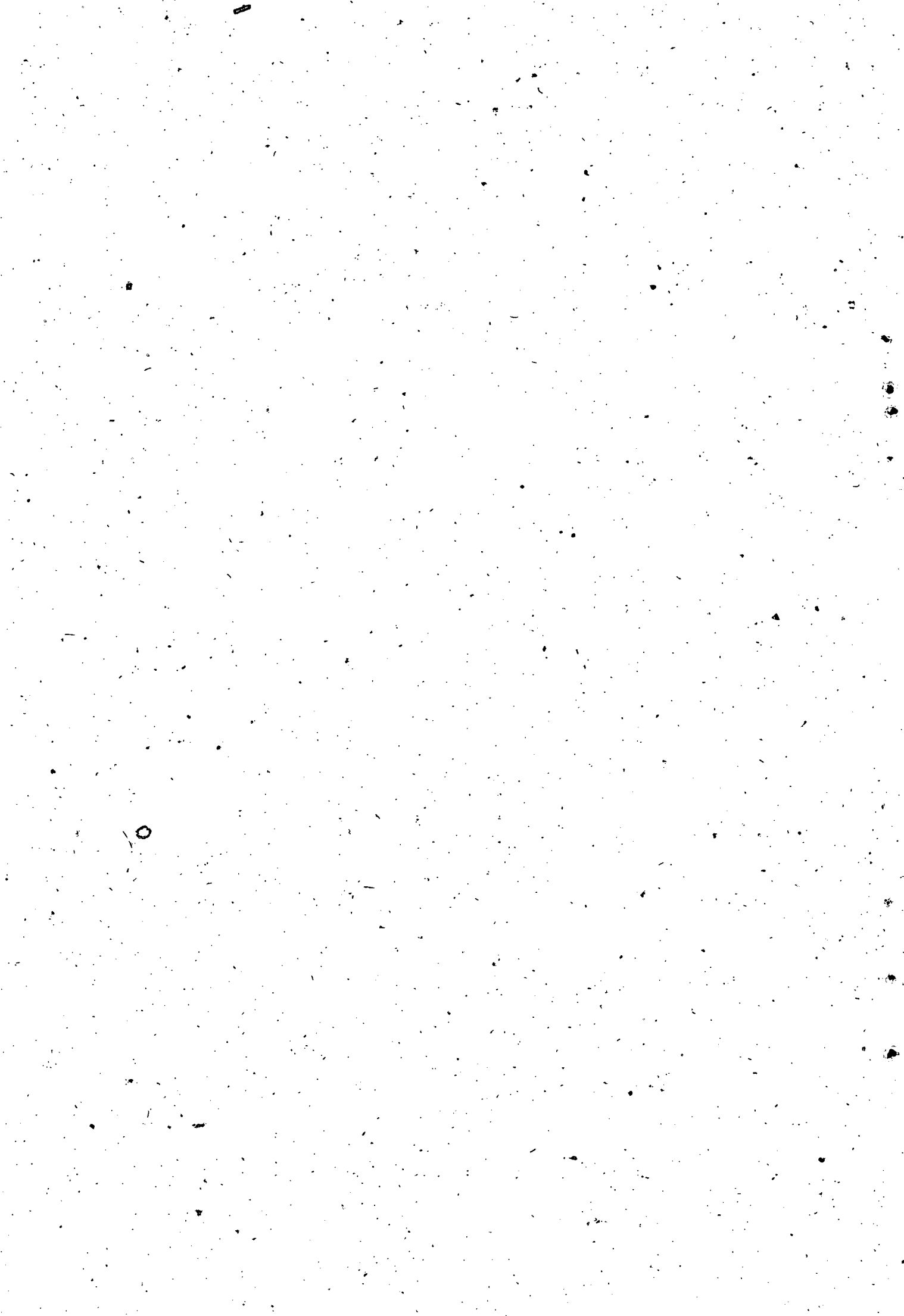




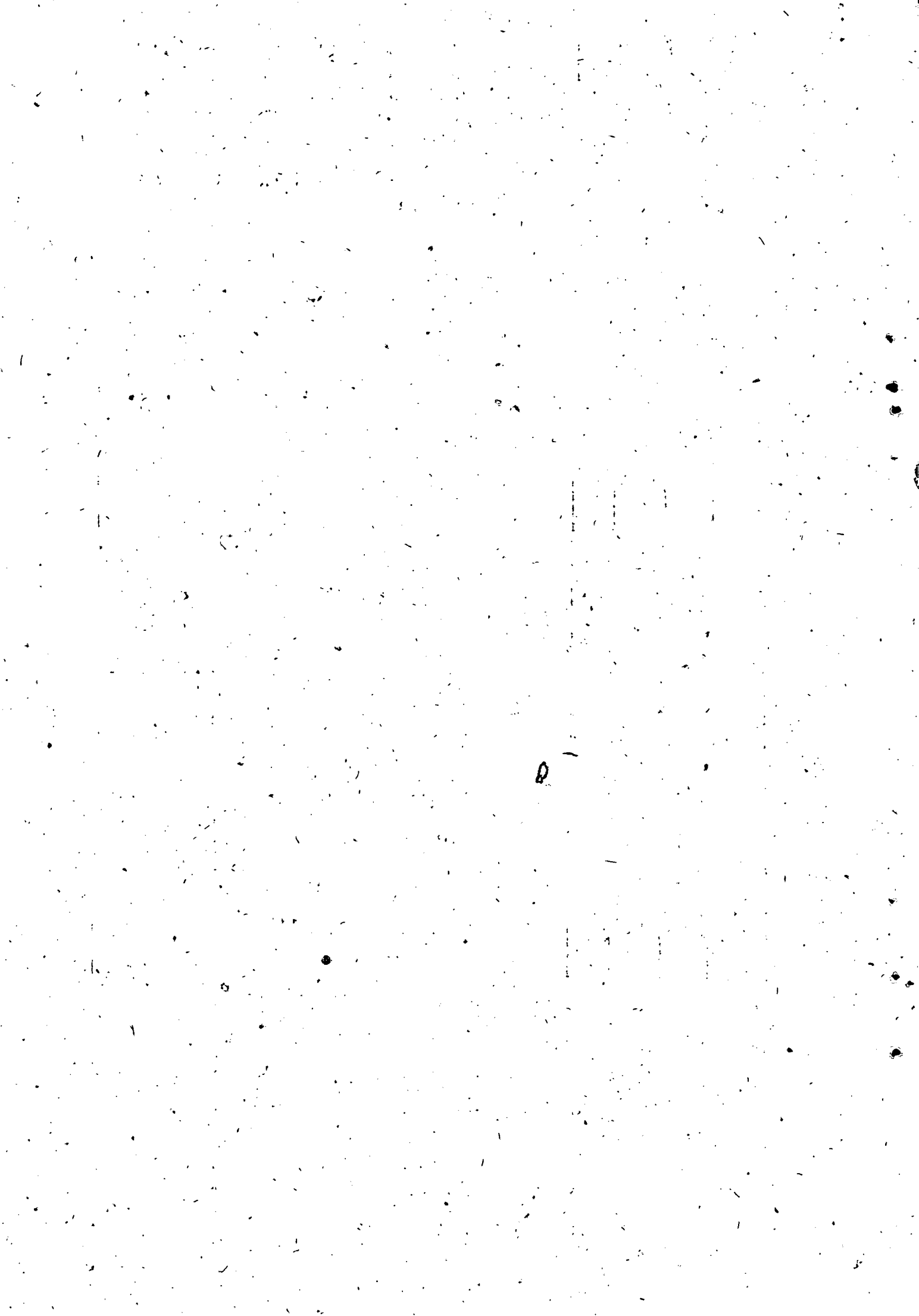
















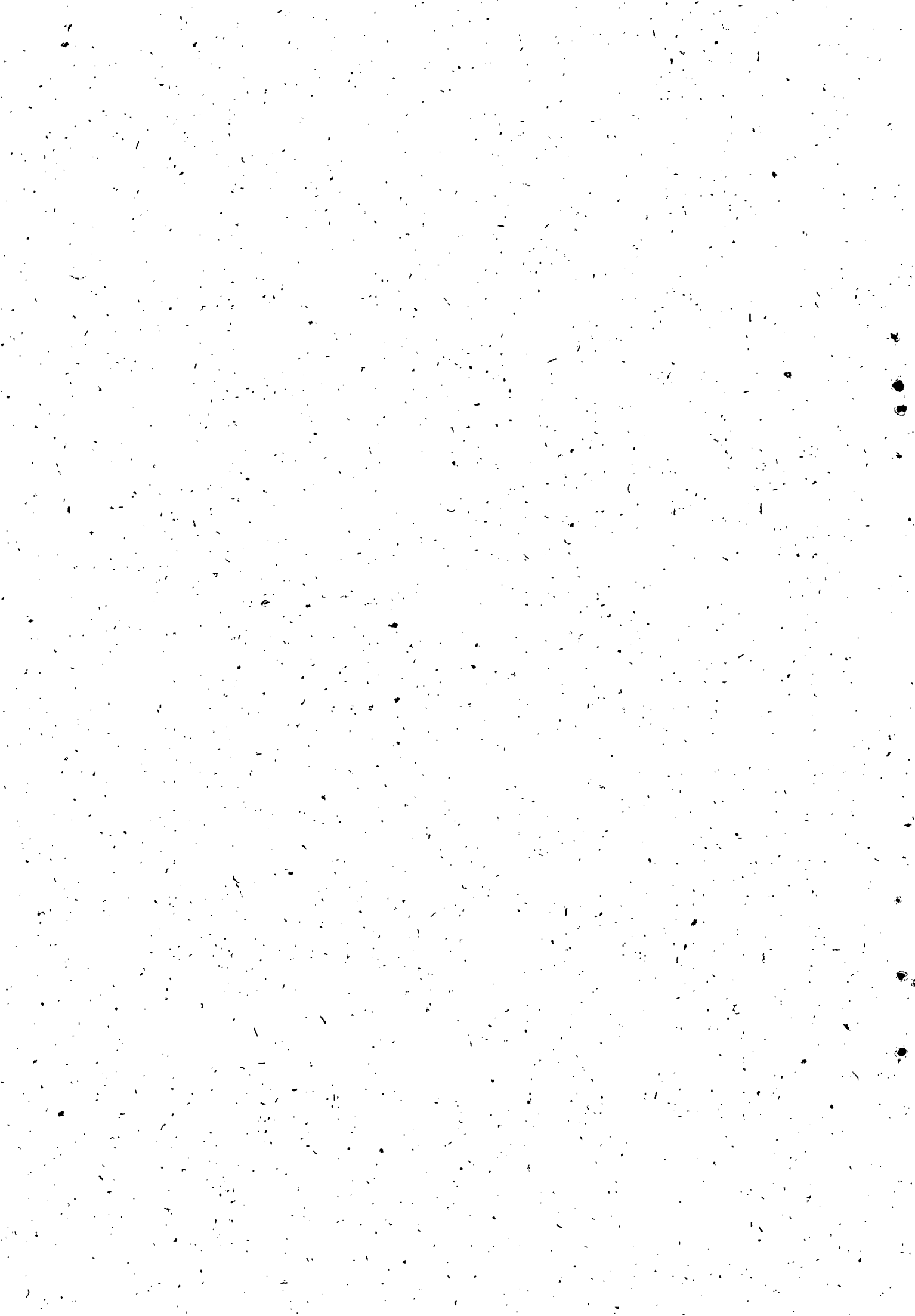






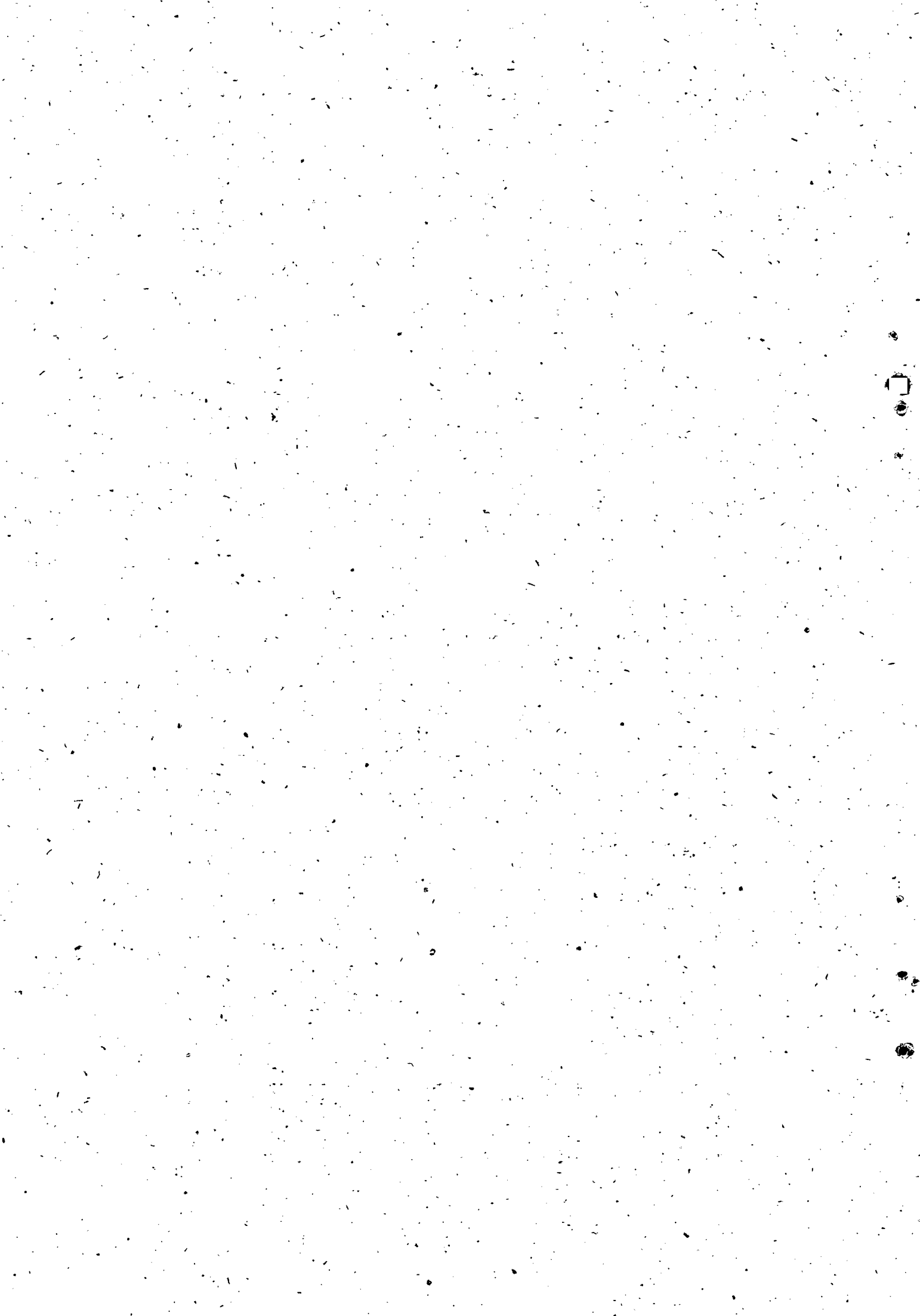
TABLE: 9.10

Percentage distribution of new building constructions by estimated cost of construction.

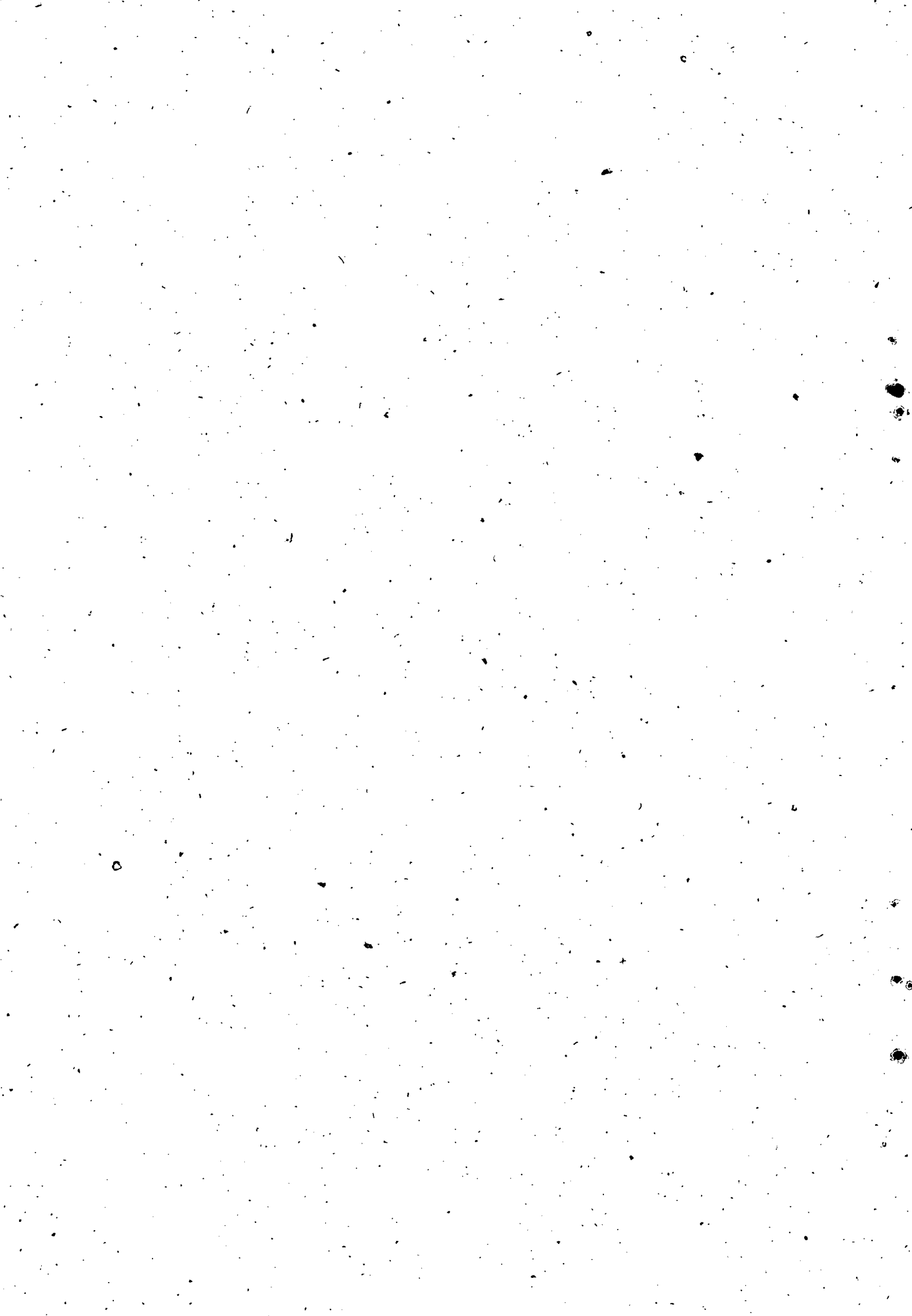
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WYNAD

Estimated cost	Rural			Urban			Total		
	Pucca	Katcha	Total	Pucca	Katcha	Total	Pucca	Katcha	Total
1	2	3	4	5	6	7	8	9	10
Below Rs. 1000	..	33.33	8.33				..	33.33	8.33
1000 - 2000	..	..	..				..	..	..
2000 - 3000	..	33.34	8.33				..	33.34	8.33
3000 - 5000	5.55	..	4.17	- N I L -			5.55	..	4.17
5000 - 10000	16.67	..	12.50				16.67	..	12.50
10000 - 25000	44.44	33.33	41.67				44.44	33.33	41.67
25000 - 50000	27.78	..	20.83				27.78	..	20.83
50000 - 1 lakh	5.55	..	4.17				5.55	..	4.17
Above 1 lakh	..	..	..				..	..	..
Total:	100.00	100.00	100.00				100.00	100.00	100.00

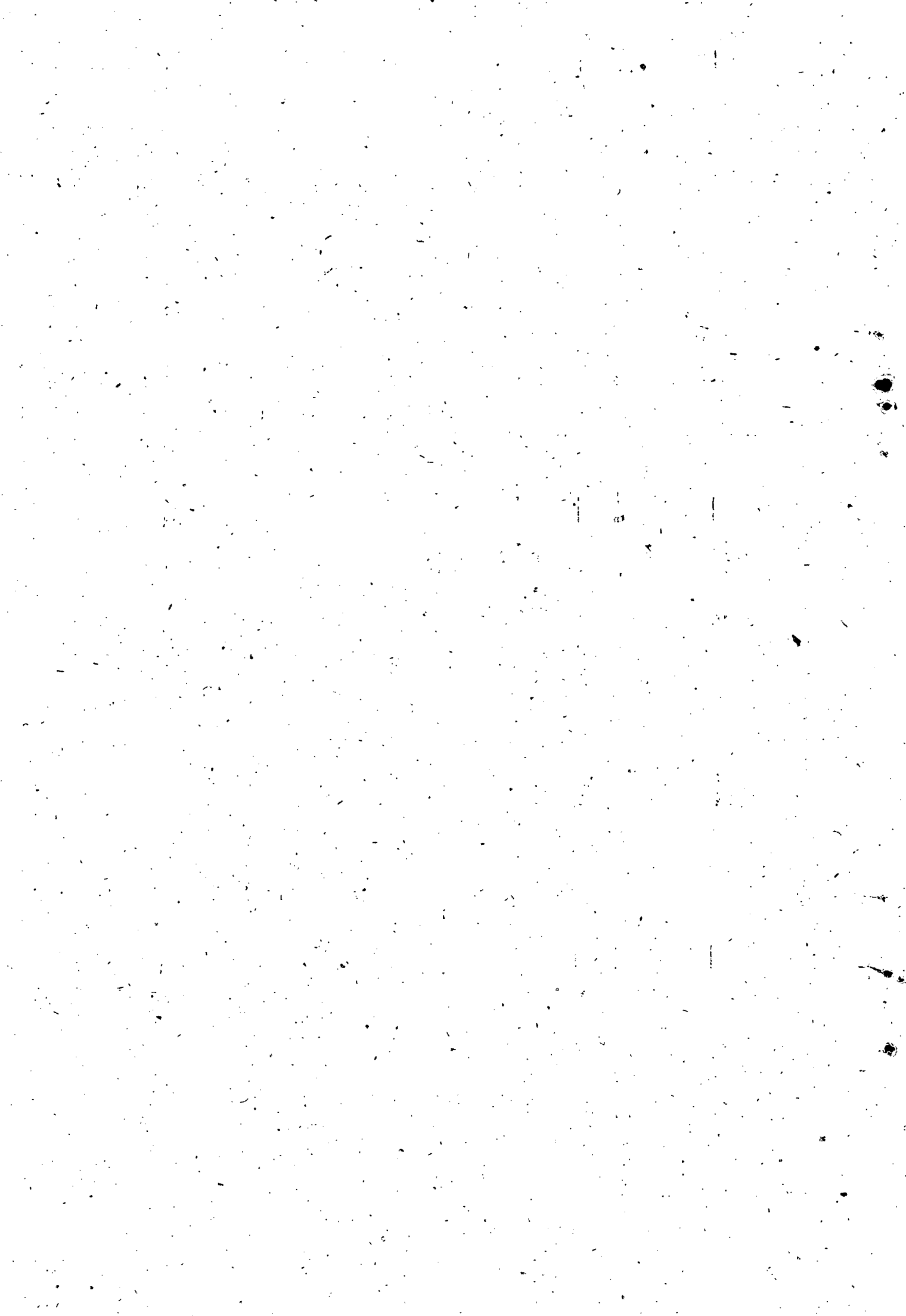








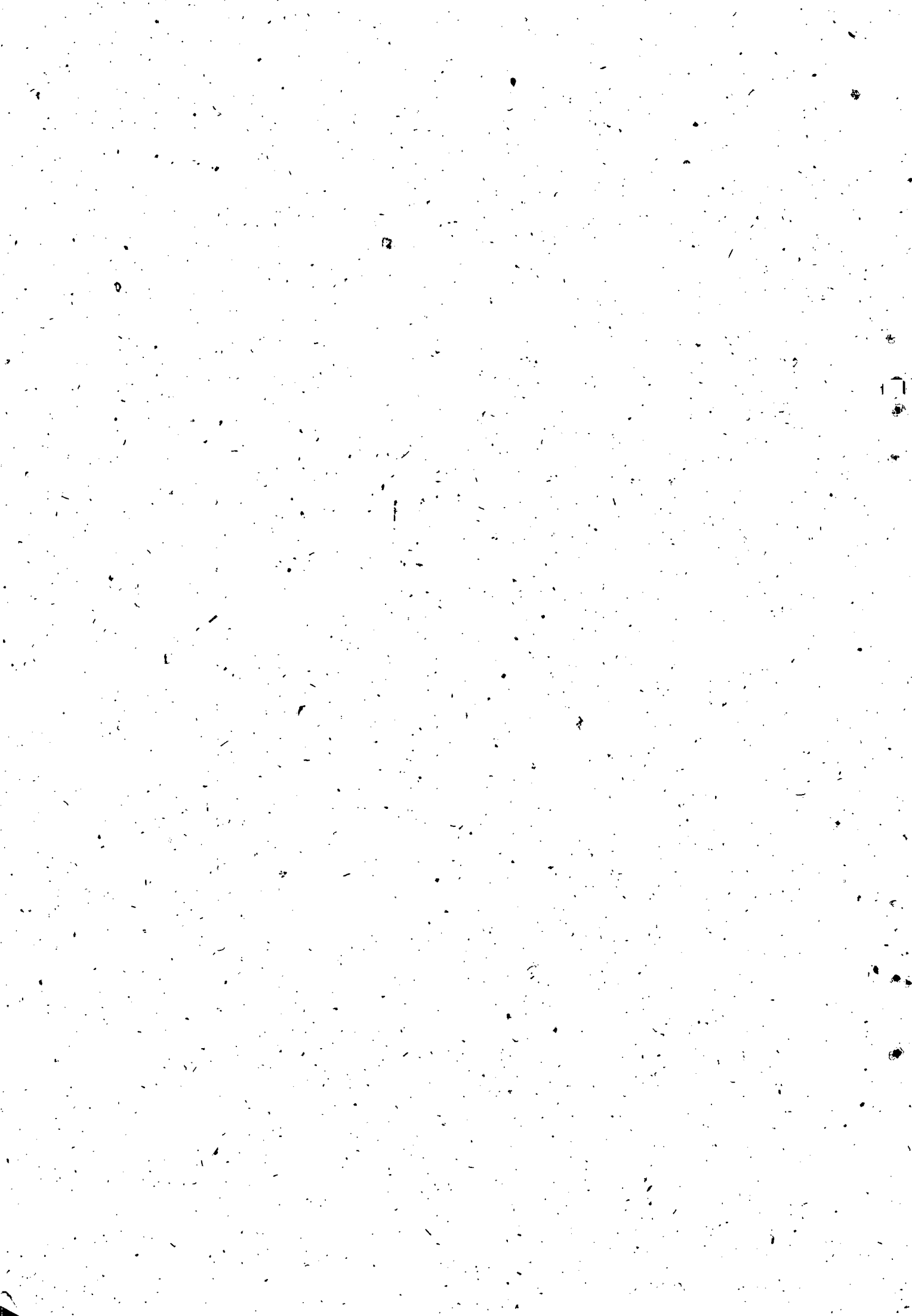




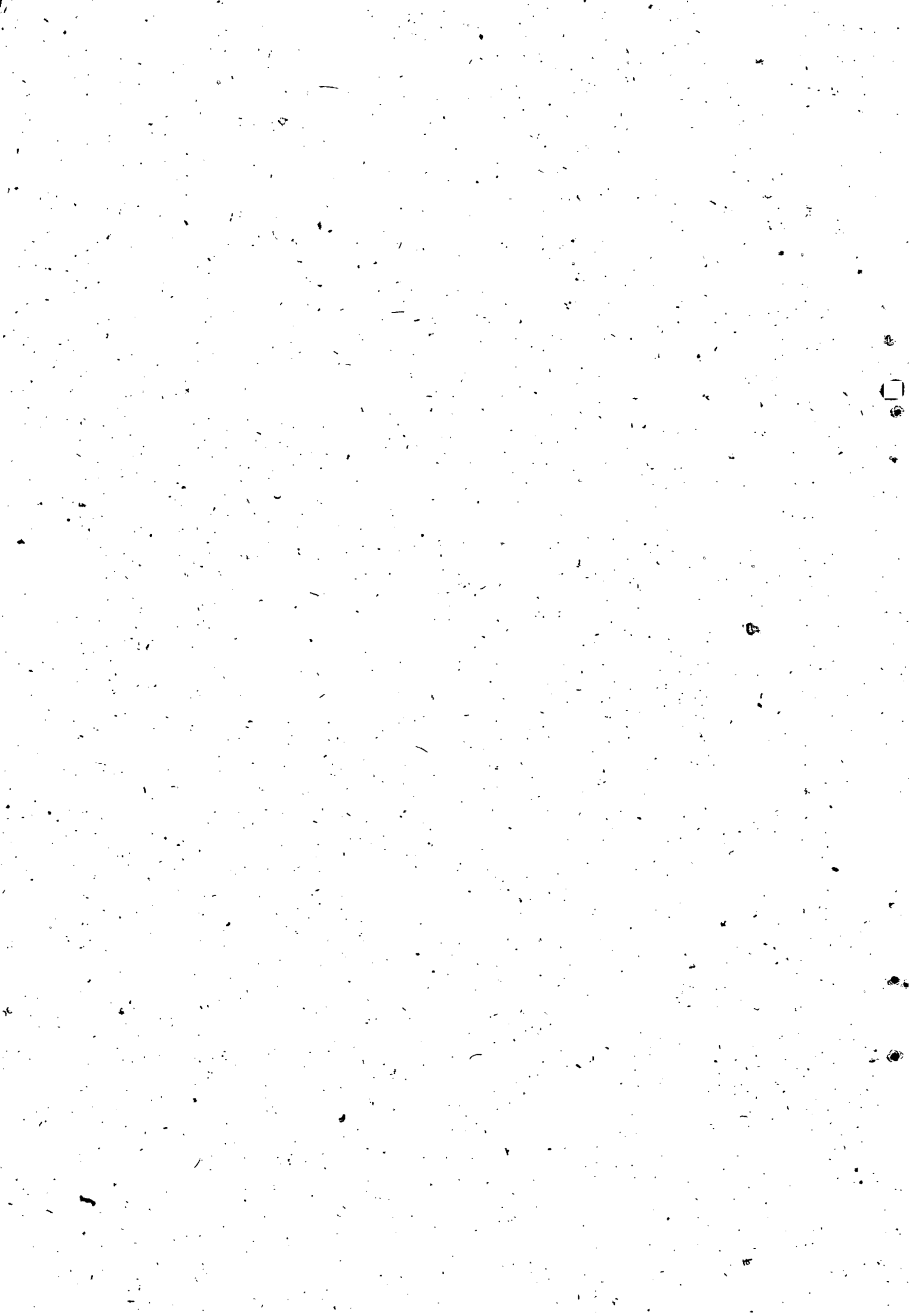






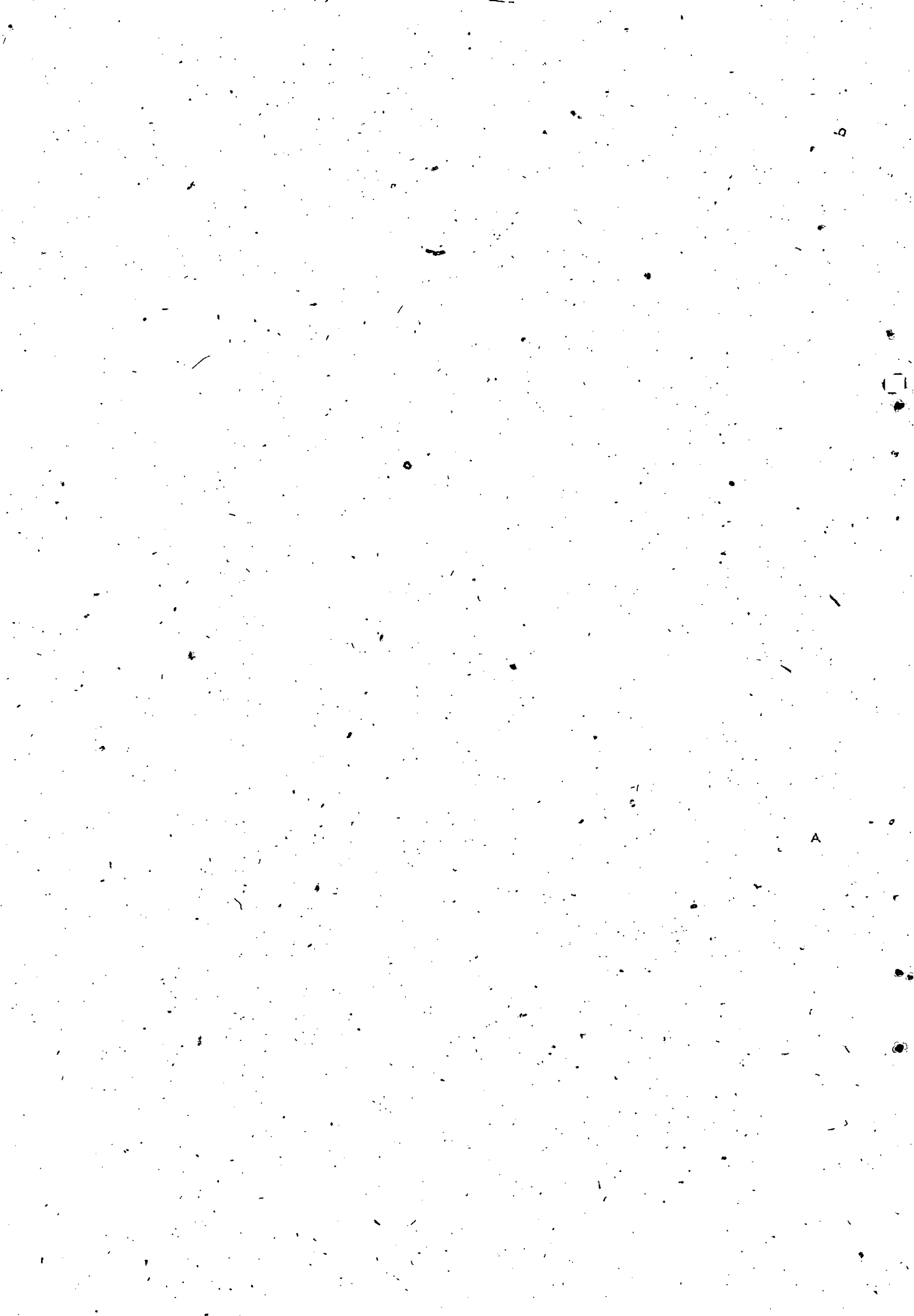




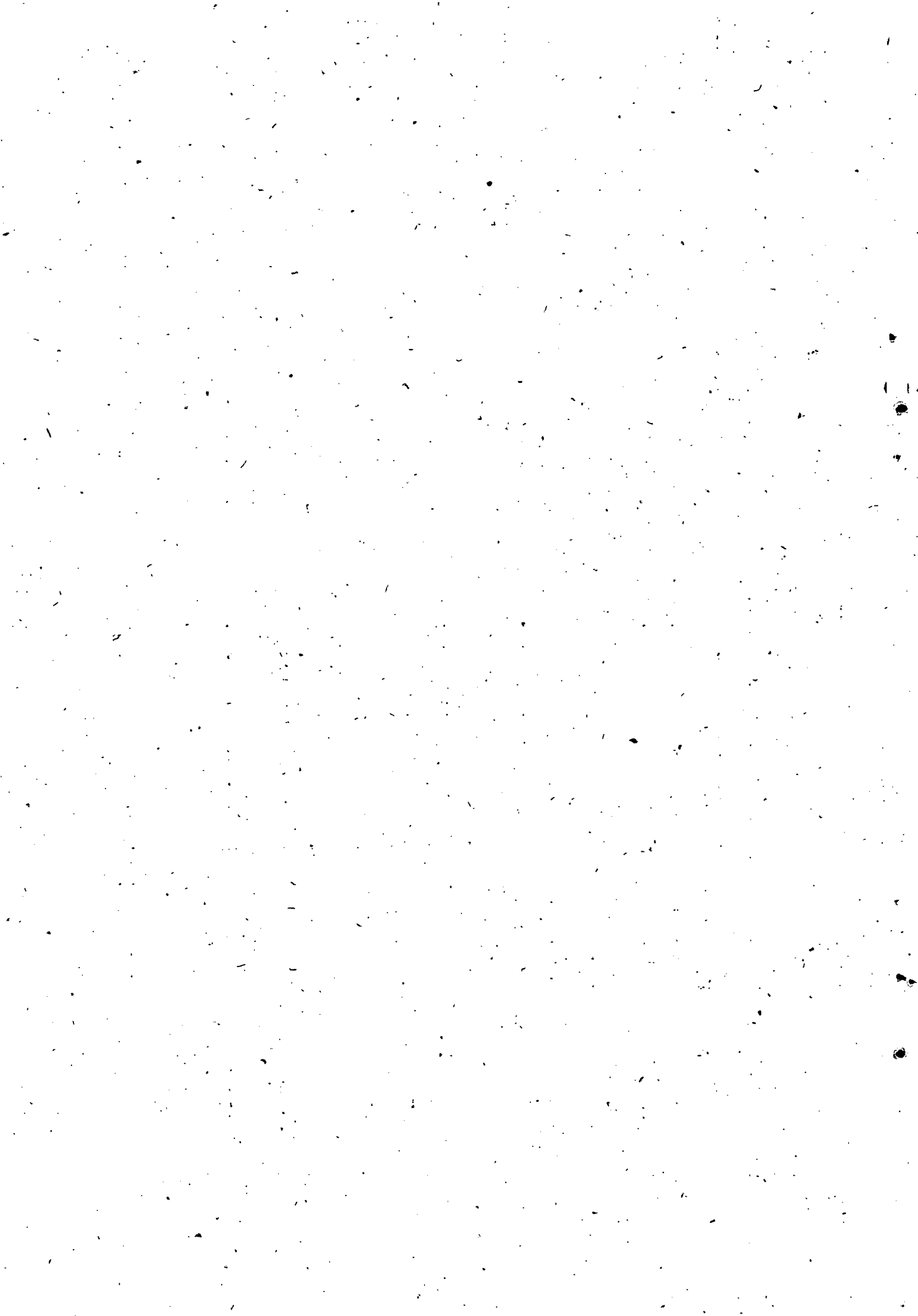




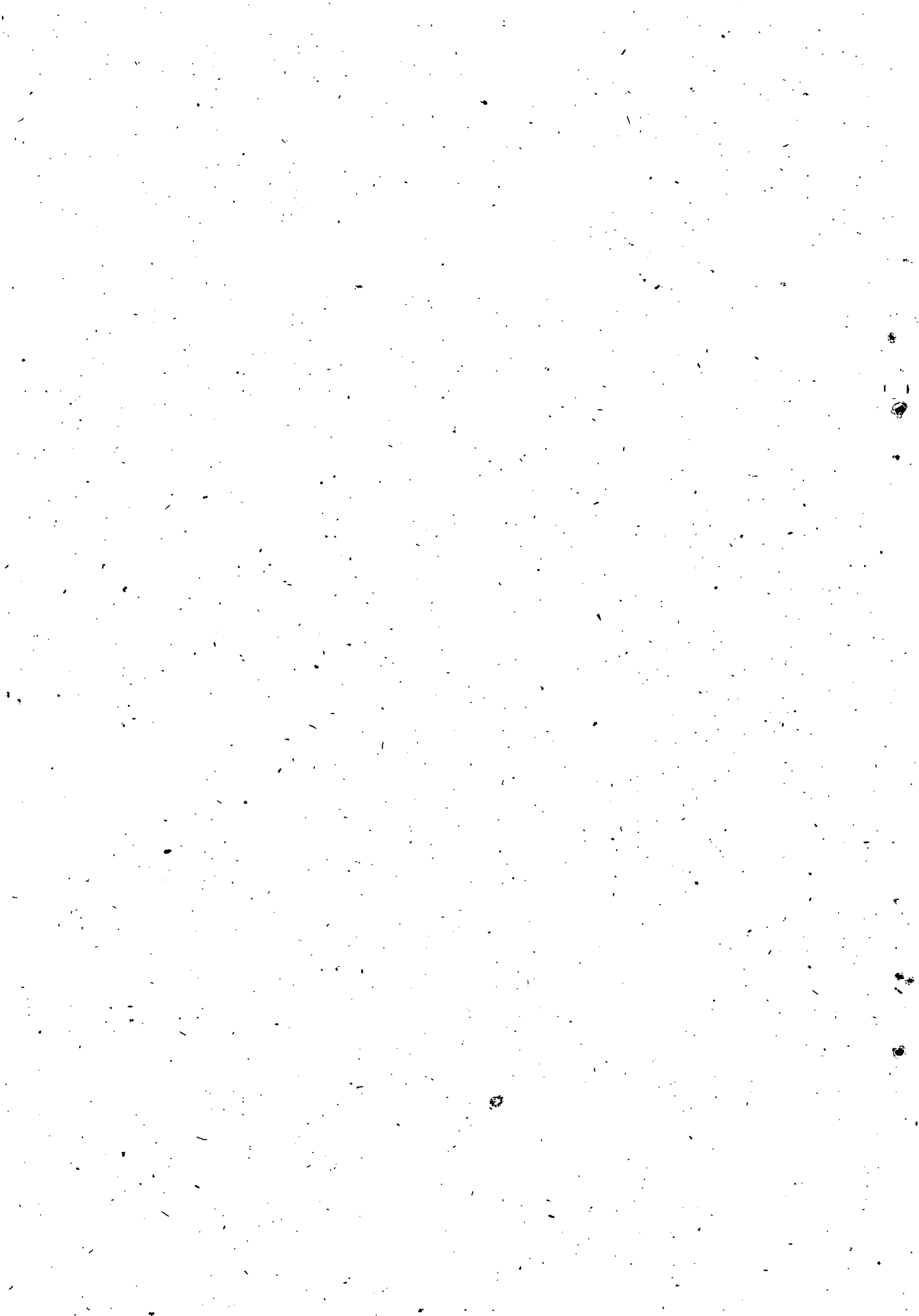










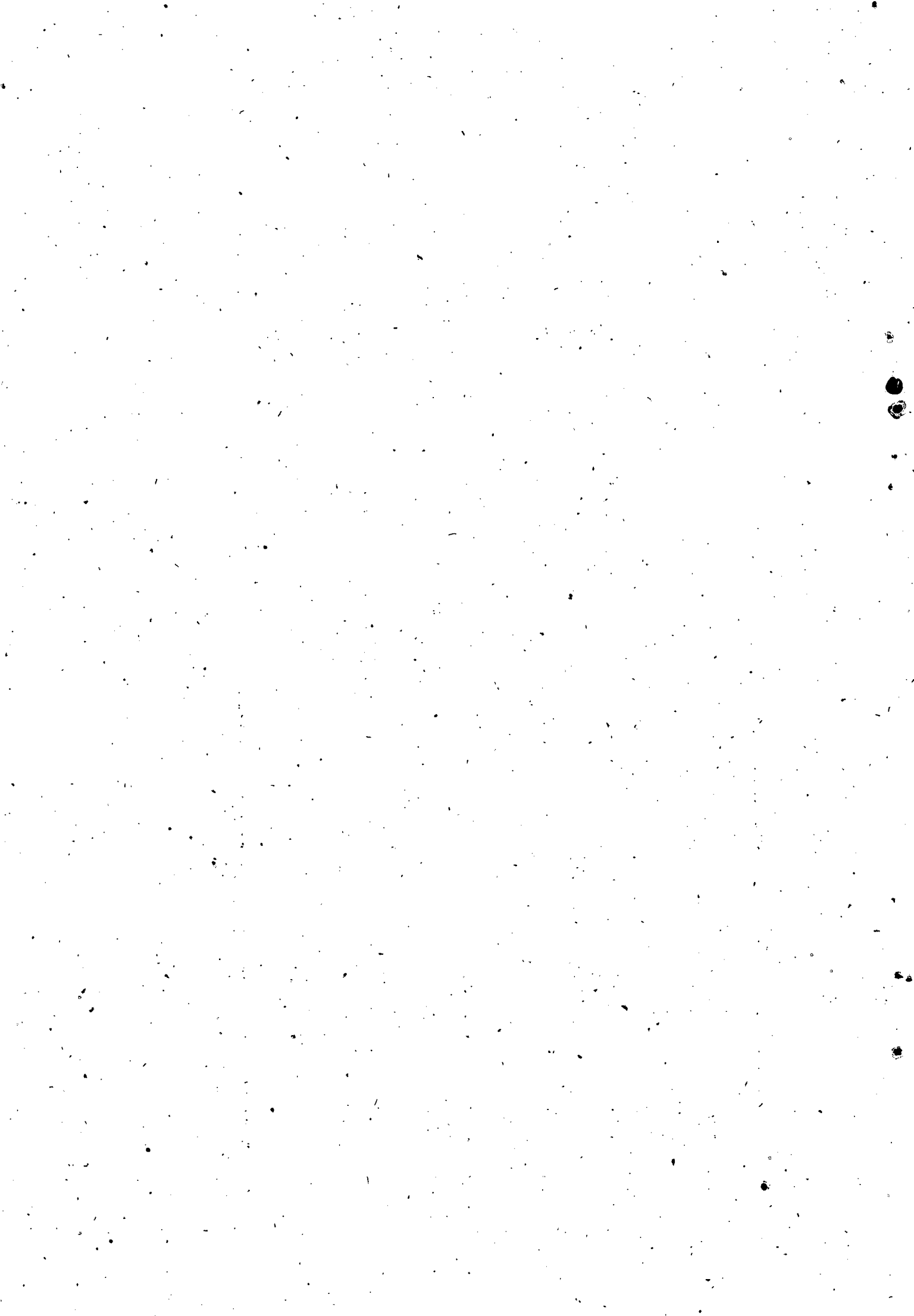








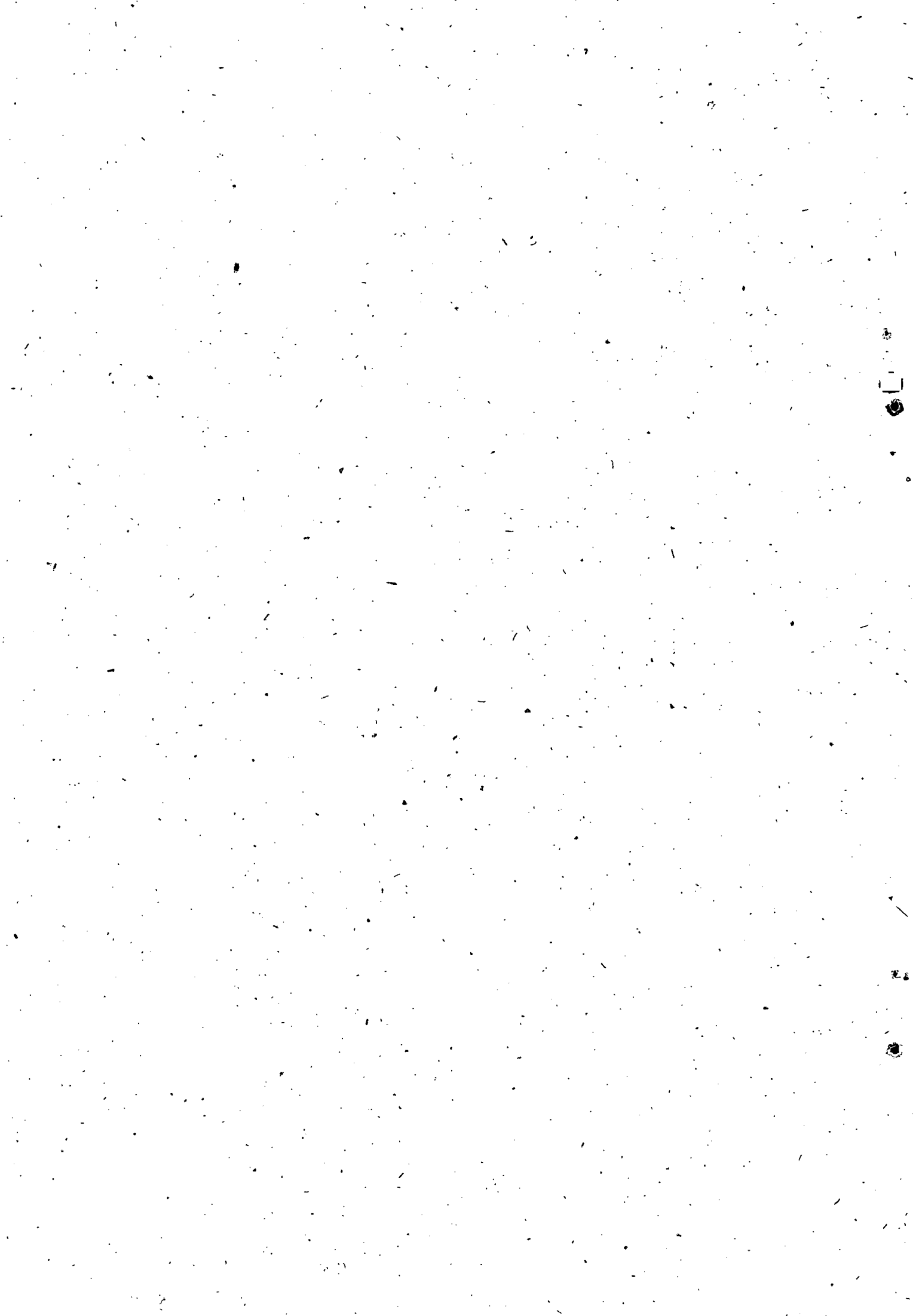




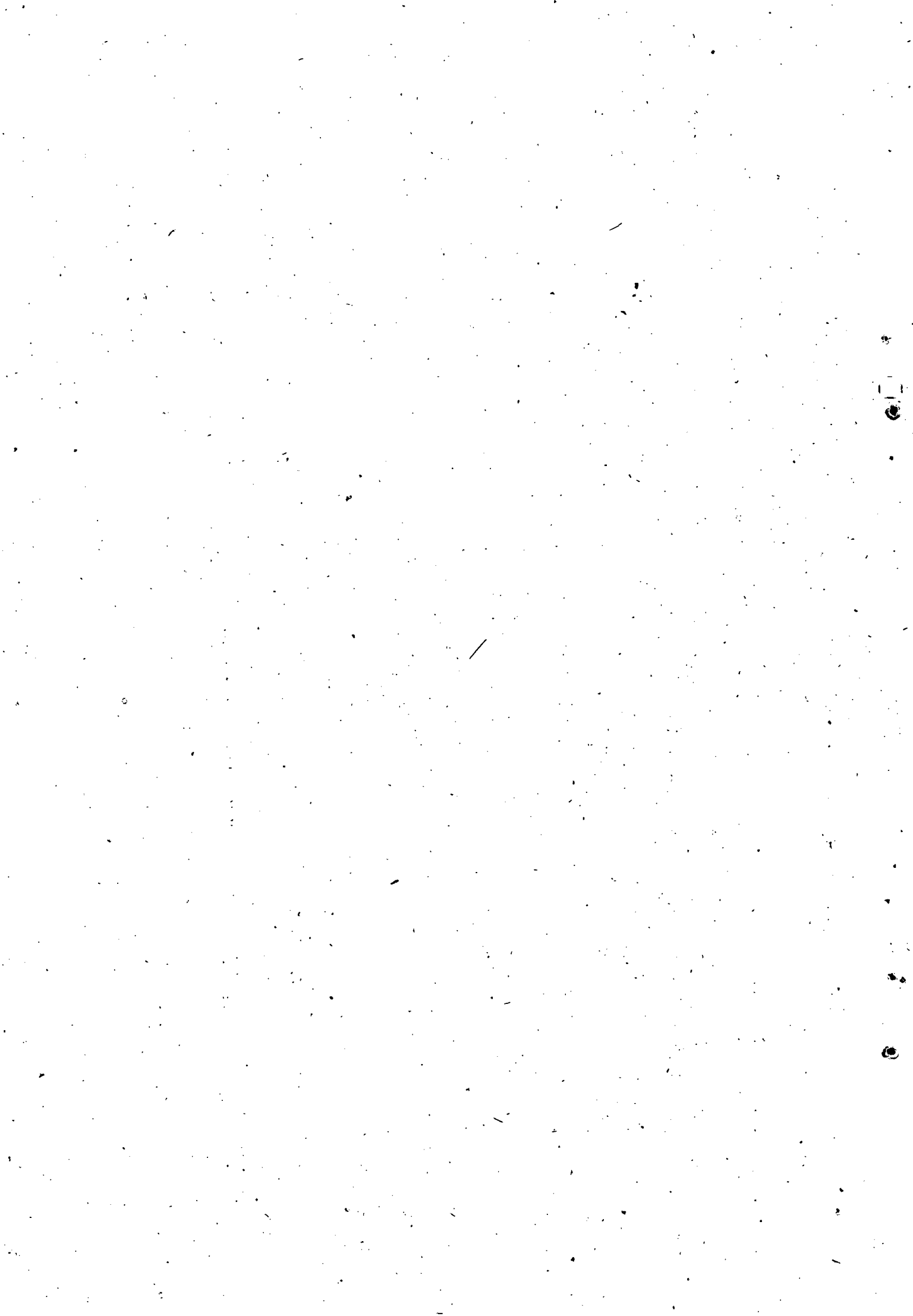
















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TABLE: 11.2

Percentage distribution of non-building construction works by estimated cost.

GUILON

Estimated cost	Urban			Rural			Total		
	Completed	Non-completed	All	Completed	Non-completed	All	Completed	Non-completed	All
1	2	3	4	5	6	7	8	9	10
Less than 500	36.36	..	36.36	55.77	..	55.77	53.91	..	53.91
500 - 1000	36.36	..	36.36	25.96	..	25.96	25.96	..	25.96
1000 - 2000	9.09	..	9.09	7.69	..	7.69	7.83	..	7.83
2000 - 3000	18.19	..	18.19	4.81	..	4.81	6.08	..	6.08
3000 - 5000	..	..	..	3.85	..	3.85	3.48	..	3.48
5000 - 10000	..	..	..	..	..	..	..	..	..
10000 - 25000	..	..	..	..	..	..	..	..	..
25000 - 50000	..	..	..	1.92	..	1.92	1.74	..	1.74
More than 50000	..	..	..	..	..	..	..	..	..
All	100.00	..	100.00	100.00	..	100.00	100.00	..	100.00

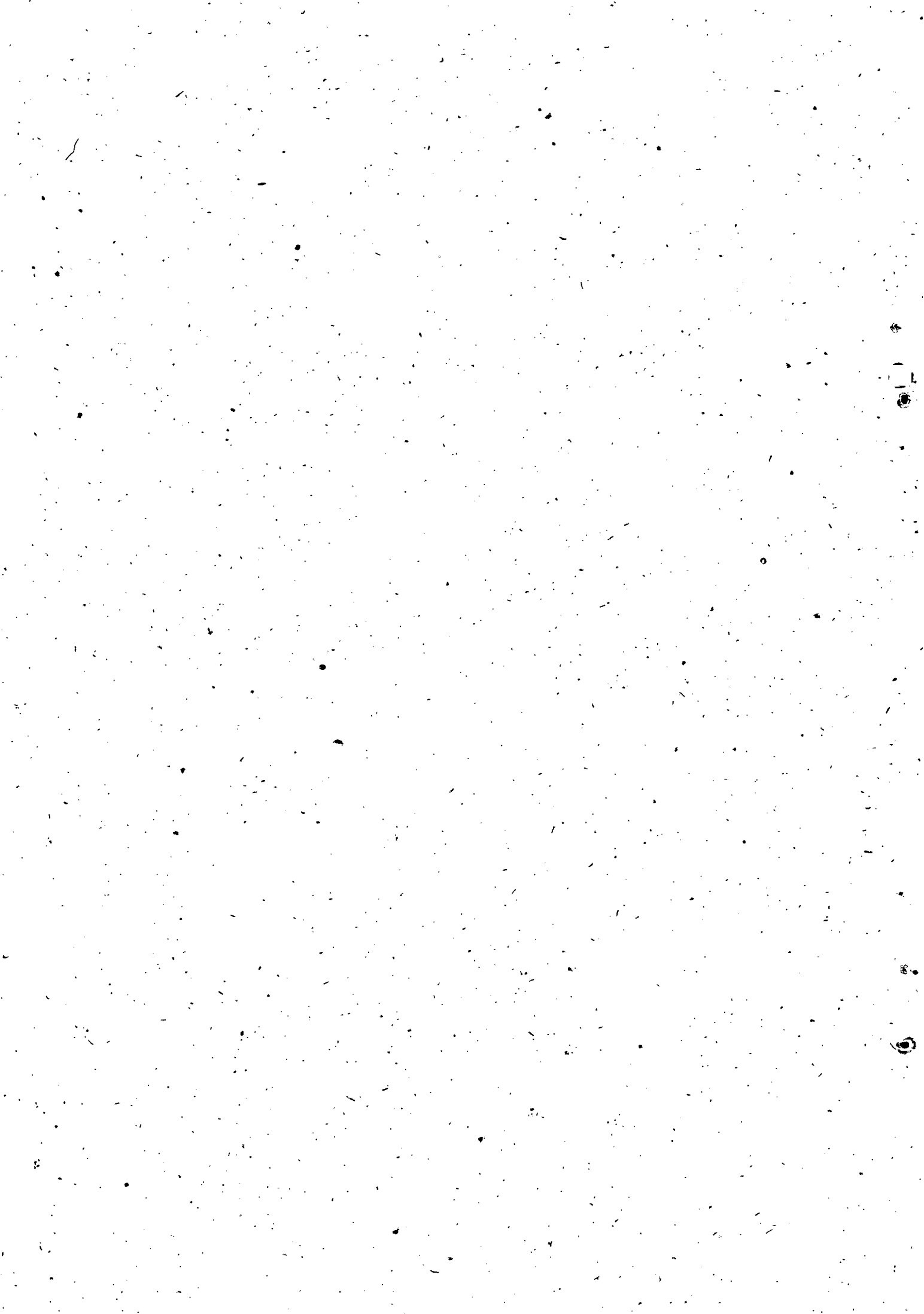


TABLE: 11.3

Percentage distribution of non-building construction works by estimated cost.

ALLEPPEY

Estimated cost	Urban			Rural			Total		
	Completed	Non-completed	All	Completed	Non-completed	All	Completed	Non-completed	All
1	2	3	4	5	6	7	8	9	10
Less than 500									
500 - 1000									
1000 - 2000									
2000 - 3000									
3000 - 5000									
5000 - 10000									
10000 - 25000									
25000 - 50000									
More than 50000									
All									

- N I L -



TABLE: 11.4  
 Percentage distribution of non-building construction works by estimated cost.

TOTTAYAM

Estimated cost.	Urban			Rural			Total		
	Completed	Non-completed	All	Completed	Non-completed	All	Completed	Non-completed	All
1	2	3	4	5	6	7	8	9	10
Less than 500	..	..	..	35.96	..	35.96	34.87	..	34.87
500 - 1000	37.50	..	37.50	26.08	..	26.08	26.44	..	26.44
1000 - 2000	50.00	..	50.00	16.60	..	16.60	17.62	..	17.62
2000 - 3000	..	..	..	13.44	..	13.44	13.03	..	13.03
3000 - 5000	..	..	..	5.14	..	5.14	4.98	..	4.98
5000 - 10000	12.50	..	12.50	1.19	..	1.19	1.53	..	1.53
10000 - 25000	..	..	..	..	..	..	..	..	..
25000 - 50000	..	..	..	1.19	..	1.19	1.15	..	1.15
More than 50000	..	..	..	0.40	..	0.40	0.38	..	0.38
All	100.00	..	100.00	100.00	..	100.00	100.00	..	100.00







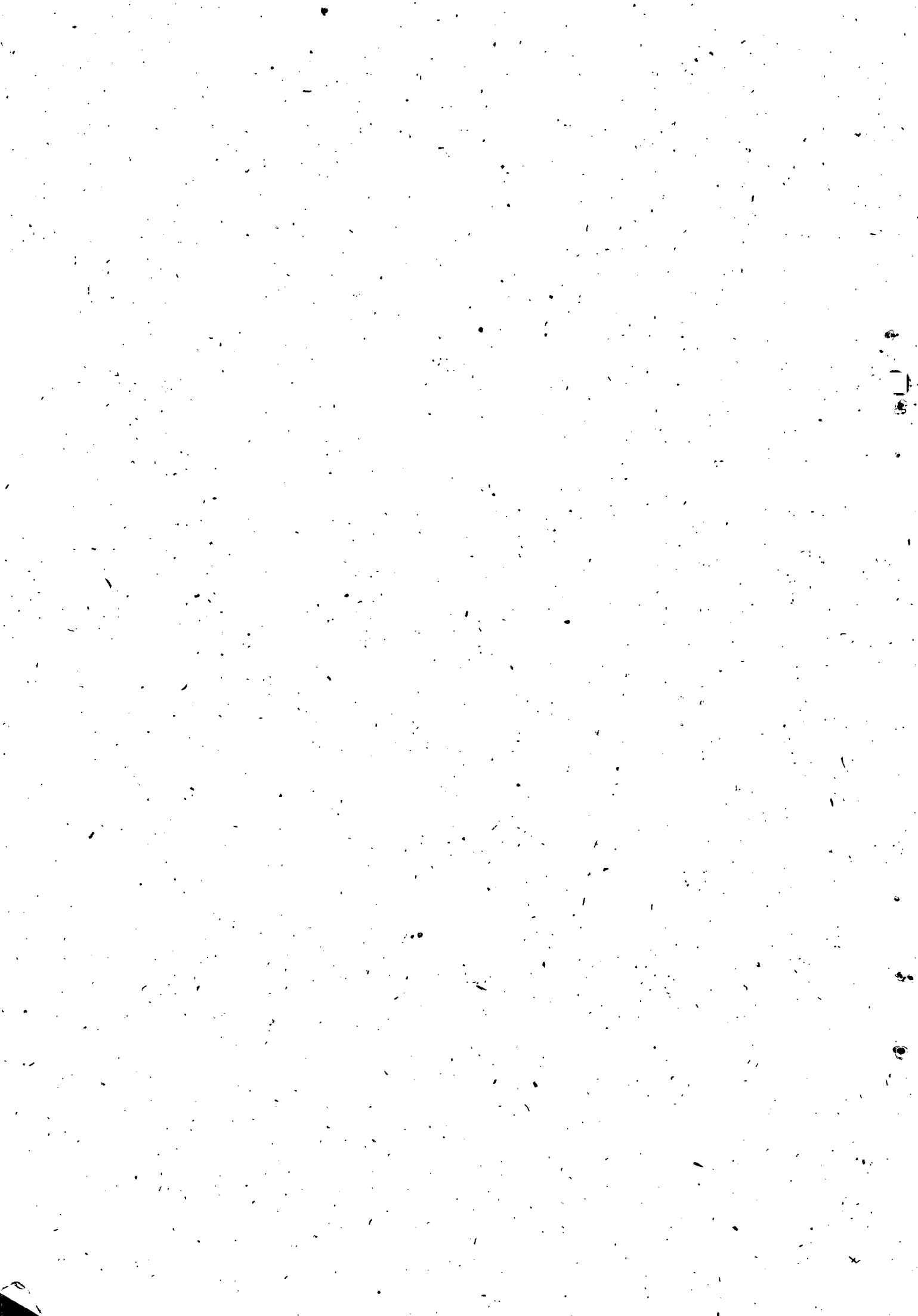


TABLE 11.5

Percentage distribution of non-building construction works by estimated cost.

ERNAKULAM

Estimated cost	Urban			Rural			Total		
	Completed	Not-Completed	All	Completed	Not-com-pleted	All	Completed	Not-com-pleted	All
1	2	3	4	5	6	7	8	9	10
1. Less than 500	35.00	..	35.00	19.23	..	19.23	22.45	..	22.45
2. 500 - 1000	30.00	..	30.00	24.36	..	24.36	25.51	..	25.51
3. 1000 - 2000	17.00	..	10.00	32.05	..	32.05	27.55	..	27.55
4. 2000 - 3000	10.00	..	10.00	16.68	..	16.68	15.31	..	15.31
5. 3000 - 5000	5.00	..	5.00	2.56	..	2.56	3.06	..	3.06
6. 5000 - 10000	5.00	..	5.00	2.56	..	2.56	3.06	..	3.06
7. 10000 - 25000	5.00	..	5.00	2.56	..	2.56	3.06	..	3.06
8. 25000 - 50000	..	..	..	..	..	..	..	..	..
9. More than 50000	..	..	..	..	..	..	..	..	..
10. All	100.00	..	100.00	100.00	..	100.00	100.00	..	100.00



TABLE: 11.7

Percentage distribution of non-building construction works by estimated cost.

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TRICHUR

Estimated cost	Urban			Rural			Total		All
	Completed	Not-completed	All	Completed	Not-completed	All	Completed	Not completed	
1	2	3	4	5	6	7	8	9	10
Less than 500	..	..	..	16.12	20.00	16.23	15.54	20.00	15.66
500 - 1000	57.14	..	57.14	34.95	20.00	34.55	35.75	20.00	25.35
1000 - 2000	28.57	..	28.57	31.18	20.00	30.89	31.09	20.00	30.80
2000 - 3000	14.29	..	14.29	9.14	..	8.90	9.33	..	9.09
3000 - 5000	..	..	..	4.84	20.00	5.24	4.63	20.00	5.05
5000 - 10000	..	..	..	3.23	20.00	3.66	3.11	20.00	2.54
10000 - 25000	..	..	..	0.54	..	0.53	0.52	..	0.51
25000 - 50000	..	..	..	..	..	..	..	..	..
More than 50000	..	..	..	..	..	..	..	..	..
All	100.00	..	100.00	..	100.00	100.00	100.00	20.00	100.00

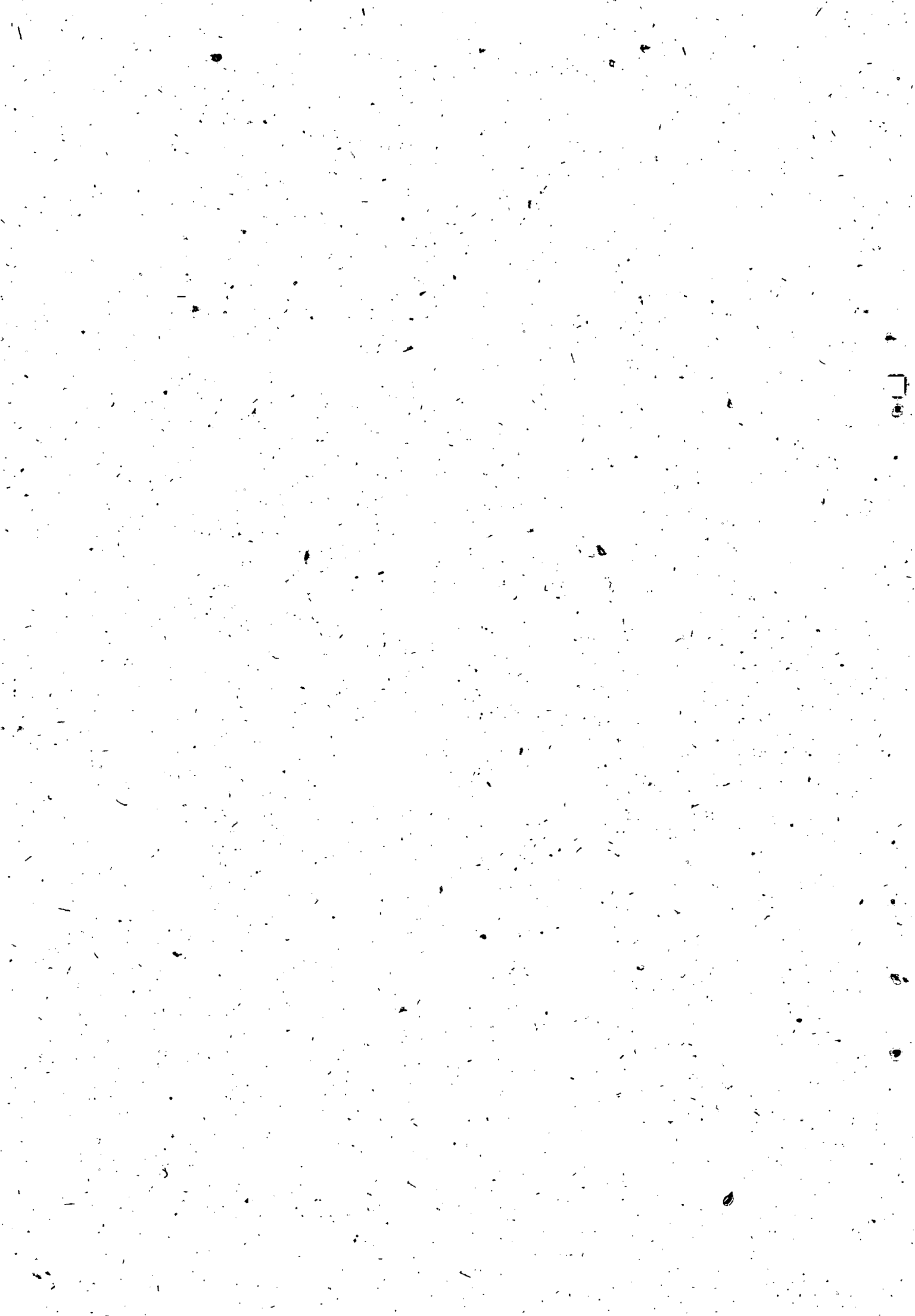








TABLE: 11.9

Percentage distribution of non-building constructed works by estimated cost.

MALAPPURAM

- N A I U -



TABLE: 11.10

Percentage distribution of non-building construction works by estimated cost.

WYDAD

Estimated cost	Urban			Rural			Total		
	Completed	Not completed	All	Completed	Not completed	All	Completed	Not completed	All
1	2	3	4	5	6	7	8	9	10
Less than 500				50.00	..	50.00	50.00	..	50.00
500 - 1000				16.67	..	16.67	16.67	..	16.67
1000 - 2000				20.83	..	20.83	20.83	..	20.83
2000 - 3000				12.50	..	12.50	12.50	..	12.50
3000 - 5000		- N I L -		..	..	..	..	..	..
5000 - 10000				..	..	..	..	..	..
10000 - 25000				..	..	..	..	..	..
25000 - 50000				..	..	..	..	..	..
More than 50000				..	..	..	..	..	..
All				100.00	..	100.00	100.00	..	100.00



TABLE: 11.11

Percentage distribution of non-building construction works by estimated cost.

## KOZHIKODE

Estimated cost	Urban			Rural			Total		All
	Completed	Not completed	All	Completed	Not completed	All	Completed	Not completed	
1	2	3	4	5	6	7	8	9	10
Less than 500	23.68	..	23.68	54.05	..	54.05	46.31	..	46.31
500 - 1000	15.79	..	15.79	23.42	..	23.42	21.48	..	21.48
1000 - 2000	39.48	..	39.48	16.23	..	16.23	22.15	..	22.15
2000 - 3000	10.53	..	10.53	3.60	..	3.60	5.37	..	5.37
3000 - 5000	7.89	..	7.89	..	..	..	2.01	..	2.01
5000 - 10000	..	..	..	2.70	..	2.70	2.01	..	2.01
10000 - 25000	2.63	..	2.63	..	..	..	0.67	..	0.67
25000 - 50000	..	..	..	..	..	..	..	..	..
More than 50000	..	..	..	..	..	..	..	..	..
All	100.00	..	100.00	100.00	..	100.00	100.00	..	100.00







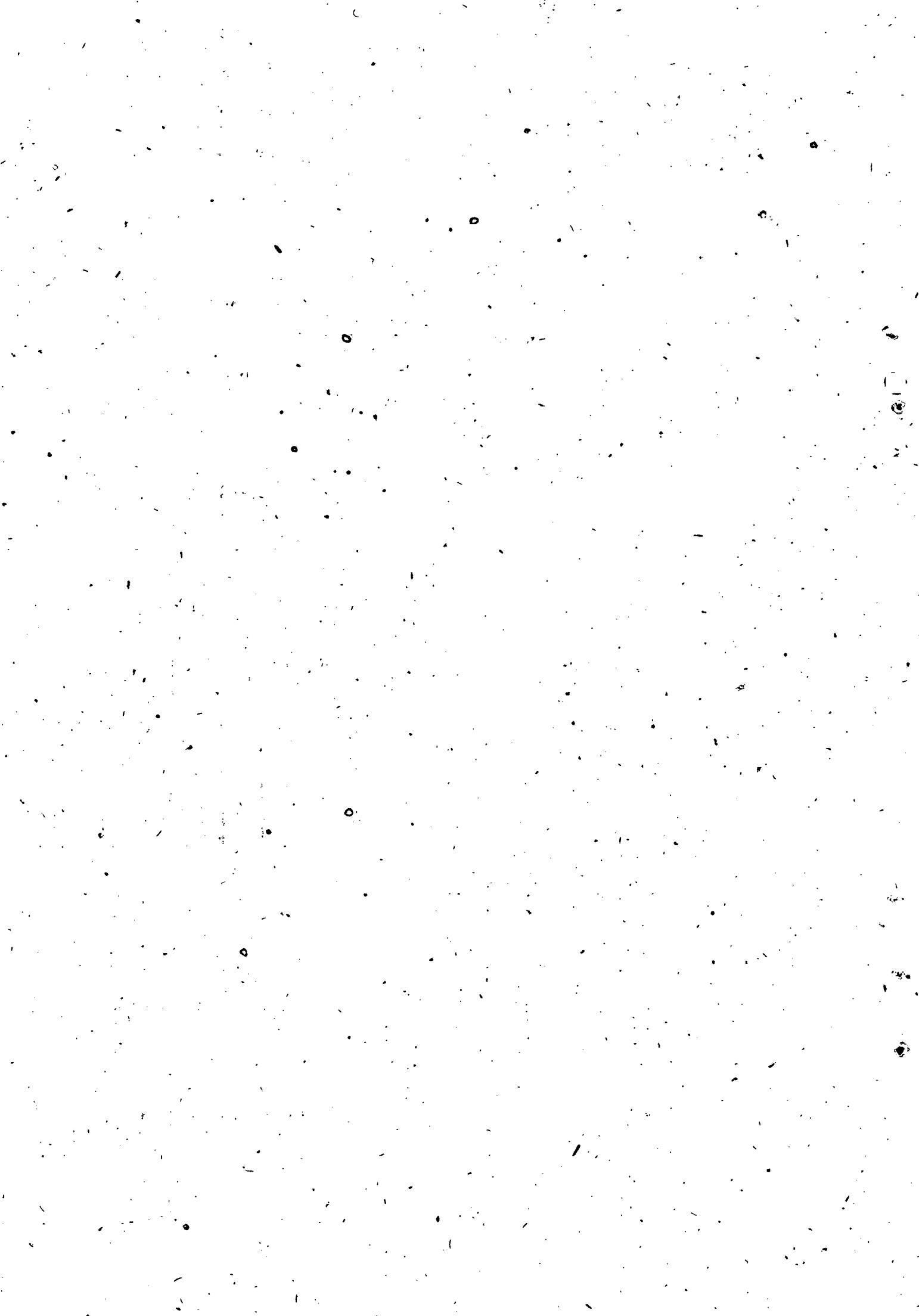


TABLE: 12.1

Percentage distribution of finance by source of finance.

TRIVANDRUM

Source of finance	Urban				Rural				Total			
	New building	Addi- tional altera- tion	All build- ing	Non- build- ing	New build- ing	Addl. altera- tion	All build- ing	Non- build- ing	New build- ing	Addl. altera- tion	All build- ing	Non- build- ing
1	2	3	4	5	6	7	8	9	10	11	12	13
Borrowing from Employee	4.59	..	4.23	..	5.89	1.94	5.36	..	5.40	1.47	4.06	..
Borrowing from other source	68.73	41.48	33.64	..	36.22	25.61	34.79	..	48.34	29.43	46.18	..
Others	26.68	58.52	29.13	..	57.89	72.45	59.85	..	46.26	69.10	48.86	..
Sources	100.00	100.00	100.00	..	100.00	100.00	100.00	..	100.00	100.00	100.00	..



Table 12.2.

## Percentage distribution of finance by source of finance

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QUILON

Source of finance	Urban				Rural				Total			
	New building	Addl. alter- ation	All building	Non building	New building	Addl. alter- ation	All building	Non building	New building	Addl. alter- ation	All building	Non building
1	2	3	4	5	6	7	8	9	10	11	12	13
Borrowing from em- ployee	1.29	..	1.14	..	1.97	0.30	1.53	..	1.88	0.29	1.49	..
Borrowing from other source	4.78	14.16	5.86	..	20.93	58.94	30.91	..	18.76	56.54	28.05	..
Others	93.93	85.84	93.00	..	77.10	40.76	67.56	..	79.36	43.17	70.46	..
All sources	100.00	100.00	100.00	..	100.00	100.00	100.00	..	100.00	100.00	100.00	100.00



Table 12.3.

Percentage distribution of finance by source of finance

ALLEPPEY

Source of finance	<u>Urban</u>				<u>Rural</u>				<u>Total</u>			
	New build- ing	Addl. alter- ation	All build- ing	Non- build- ing	New build- ing	Addl. alter- ation	All build- ing	New build- ing	New build- ing	Addl. alter- ation	All build- ing	Non. build- ing
1	2	3	4	5	6	7	8	9	10	11	12	13
Borrowing from em- ployees	0.05	..	0.04	..	1.87	0.50	1.53	..	1.47	0.43	1.23	..
Borrowing from other source	16.08	46.08	21.01	..	17.81	26.69	20.03	..	17.43	29.56	20.23	..
Others	83.87	53.02	78.95	..	80.32	72.81	78.44	..	81.10	70.01	78.54	..
All sources	100.00	100.00	100.00	..	100.00	100.00	100.00	..	100.00	100.00	100.00	100.00



TABLE 12.4.

Percentage distribution of finance by source of finance

KOTTAYAM

Source of finance	<u>Urban</u>				<u>Rural</u>				<u>Total</u>			
	New building	Addl. alteration	All building	Non building	New building	Addl. alteration	All building	Non building	New building	Addl. alteration	All building	Non building
1	2	3	4	5	6	7	8	9	10	11	12	13
Borrowing from employee	..	..	..	..	6.50	..	4.90	..	5.72	..	4.35	..
Borrowing from other source	13.21	6.67	12.04	..	30.53	7.43	24.83	..	28.44	7.37	23.40	..
Others	86.79	93.33	87.96	..	62.97	92.57	70.27	..	65.84	92.63	72.25	..
All sources	100.00	100.00	100.00		100.00	100.00	100.00		100.00	100.00	100.00	100.00





Table 12.5.

Percentage distribution of finance by source of finance

IDUKKI

Source of finance	Urban				Rural				Total			
	New building	Addl. alteration	All building	Non building	New building	Addl. alteration	All building	Non building	New building	Addl. alteration	All building	Non building
1	2	3	4	5	6	7	8	9	10	11	12	13
Borrowing from employee	..	..	..	..	..	0.15	0.03	..	..	0.14	0.03	..
Borrowing from other source	63.19	30.63	62.05	..	33.04	41.58	34.82	..	44.51	40.73	43.94	..
Others	36.81	69.35	37.95	..	66.96	58.27	65.15	..	55.49	59.13	56.03	..
All sources	100.00	100.00	100.00		100.00	100.00	100.00		100.00	100.00	100.00	100.00

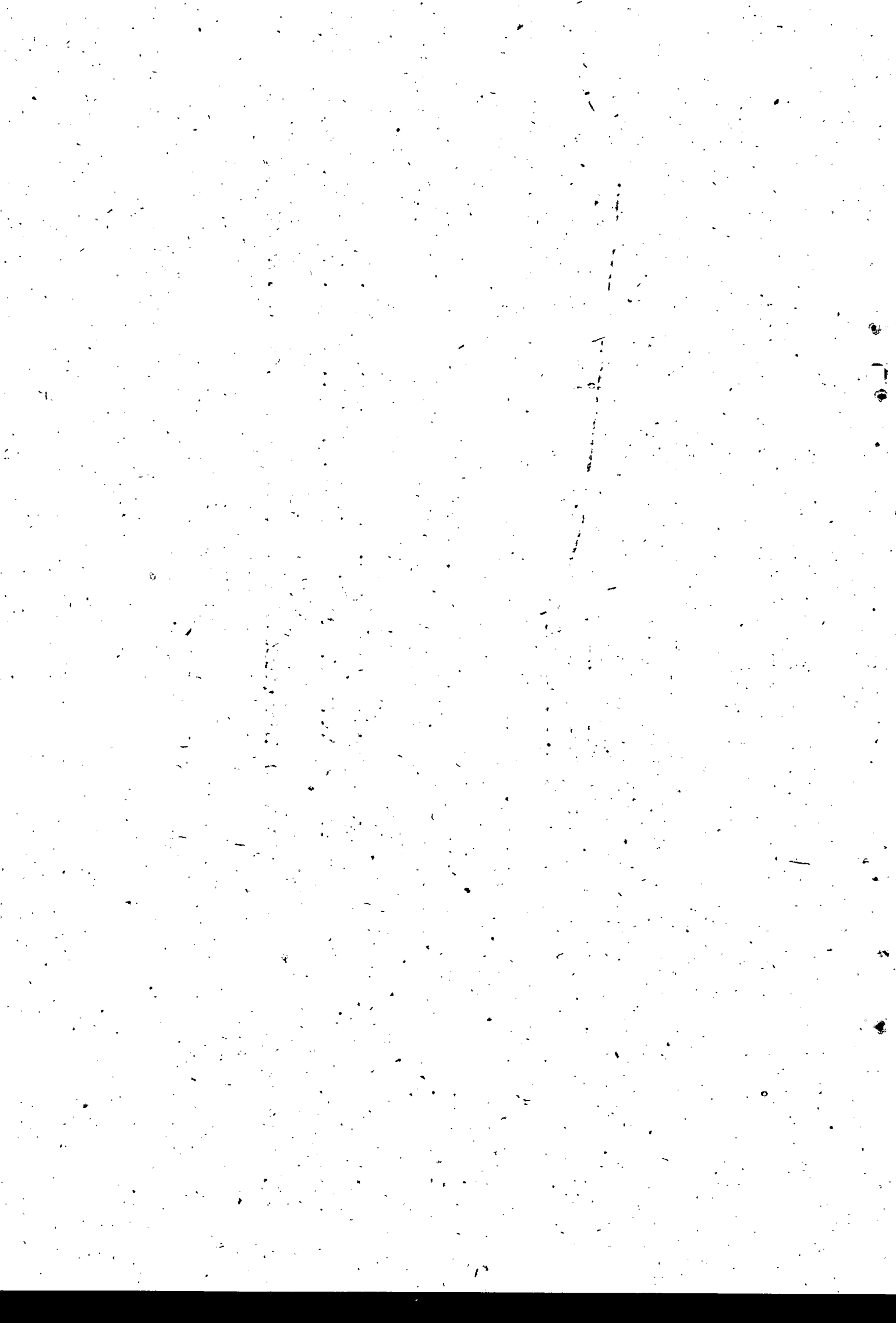


Table 12.6.

Percentage distribution of finance by source of finance

ERNAKULAM

Source of finance	<u>Urban</u>				<u>Rural</u>				<u>Total</u>			
	New build- ing	Addl. alter- ation	All build- ing	Non- build- ing	New build- ing	Addl. alter- ation	All build- ing	Non- build- ing	New build- ing	Addl. alter- ation	All build- ing	Non- build- ing
1	2	3	4	5	6	7	8	9	10	11	12	13
Borrowing from employee	5.86	..	5.29	..	6.73	0.45	5.43	..	6.33	0.33	5.38	..
Borrowing from other source	22.93	10.71	21.75	..	22.23	17.70	21.30	..	22.56	15.88	21.49	..
Others	71.21	89.29	72.96	..	71.04	81.85	73.27	..	71.11	83.79	73.13	..
All source	100.00	100.00	100.00	..	100.00	100.00	100.00	..	100.00	100.00	100.00	100.00



Table 12.7.

Percentage distribution of finance by source of finance

TRICHUR

Source of finance	Urban				Rural					Total			
	New building	Addl. alteration	All build-ings	Non-build-ings	New building	Addl. alteration	All build-ings	Non-build-ings	New building	Addl. alteration	All build-ings	Non-build-ings	
1	2	3	4	5	6	7	8	9	10	11	12	13	
Borrowing from employee	2.37	..	2.12	..	1.34	0.91	1.29	..	1.50	0.78	1.42	..	
Borrowing from other source	21.79	13.93	20.96	..	22.44	12.50	21.34	..	22.34	12.96	21.28	..	
Others	75.84	86.07	76.92	..	76.22	86.29	77.37	..	76.16	86.26	77.30	..	
All sources	100.00	100.00	100.00	..	100.00	100.00	100.00	..	100.00	100.00	100.00	..	

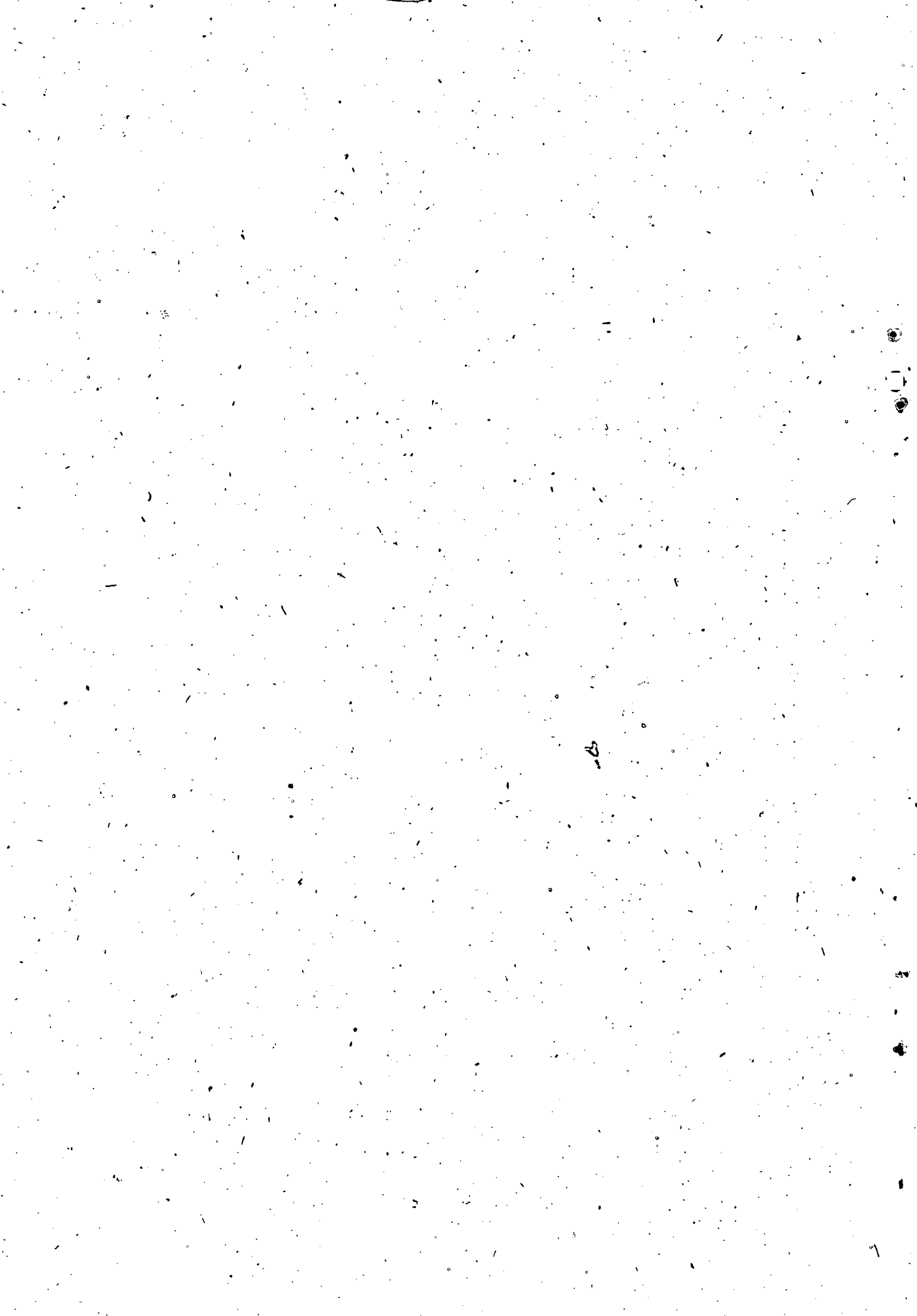


TABLE: 12.8

Percentage distribution of finance by source of finance.

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PALGHAT

Source of finance	Urban				Rural				Total			
	Construction type											
	New build- ing	Addl. Altera- tion	All Build- ing	Non- build- ing	New build- ing	Addl. alter- ation	all build- ing	Non- build- ing	New build- ing	Addl. alter- ation	all build- ing	Non- build- ing
1	2	3	4	5	6	7	8	9	10	11	12	13
Borrowing from employee	..	..	..	..	2.90	..	2.52	..	2.83	..	2.45	..
Borrowing from other sources	20.27	..	15.00	..	21.08	10.13	19.68	..	21.07	9.57	19.55	..
Others	79.73	100.00	85.00	..	76.02	89.87	77.80	..	76.10	90.43	78.00	..
All sources:	100.00	100.00	100.00	..	100.00	100.00	100.00	..	100.00	100.00	100.00	..





TABLE: 12.9

Percentage distribution of finance by source of finance.

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MALAPPUZHAM

Source of finance	Urban				Rural				Total			
	Construction type											
	New build- ing	Add. alter- ation	All build- ing	Non- build- ing	New build- ing	Add. alter- ation	All build- ing	Non- build- ing	New build- ing	Add. alter- ation	All build- ing	Non- build- ing
1	2	3	4	5	6	7	8	9	10	11	12	13
Borrowing from employee	..	..	..	..	0.20	..	0.16	..	0.20	..	0.15	..
Borrowing from other source	53.11	..	47.59	..	24.65	17.03	22.90	..	25.26	16.88	23.36	..
Others	46.89	100.00	52.41	..	75.15	82.97	76.94	..	74.54	83.12	76.40	..
All sources	100.00	100.00	100.00	..	100.00	100.00	100.00	..	100.00	100.00	100.00	..



TABLE: 12.10

Percentage distribution of finance by source of finance

WYNAD

Source of finance	Urban				Rural				Total			
	Construction type											
	New build- ing	Addi- tion	All build- ing	Non- build- ing	New build- ing	Addi- tion	All build- ing	Non- build- ing	New build- ing	Addi- tion	All build- ing	Non- build- ing
1	2	3	4	5	6	7	8	9	10	11	12	13
Borrowing from employee												
Borrowing from other sources			- N I L -		21.56	35.30	22.73	..	21.56	35.30	22.73	..
Others					78.44	64.70	77.27	..	78.44	64.70	77.27	..
ALL sources					100.00	100.00	100.00	..	100.00	100.00	100.00	..

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ST 8 3 6 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

ST 8 3 6 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

ST 8 3 6 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

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TABLE: 12.11

Percentage distribution of finance by source of finance.

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KOZHIKODE

Source of finance	Urban				Rural				Total			
	Construction type											
	New build- ing	Addl. alter- ation	All build- ing	Non- build- ing	New build- ing	Addl. alter- ation	All build- ing	Non- build- ing	New build- ing	Addl. alter- ation	All build- ing	Non- build- ing
1	2	3	4	5	6	7	8	9	10	11	12	13
Borrowing from employee	..	..	..	..	0.18	..	0.16	..	0.13	..	0.12	..
Borrowing from other source	46.71	37.00	45.64	..	26.28	24.04	26.05	..	31.84	27.75	31.41	..
Others	53.29	63.00	54.36	..	73.54	75.96	73.79	..	68.03	72.25	68.47	..
All sources	100.00	100.00	100.00	..	100.00	100.00	100.00	..	100.00	100.00	100.00	..

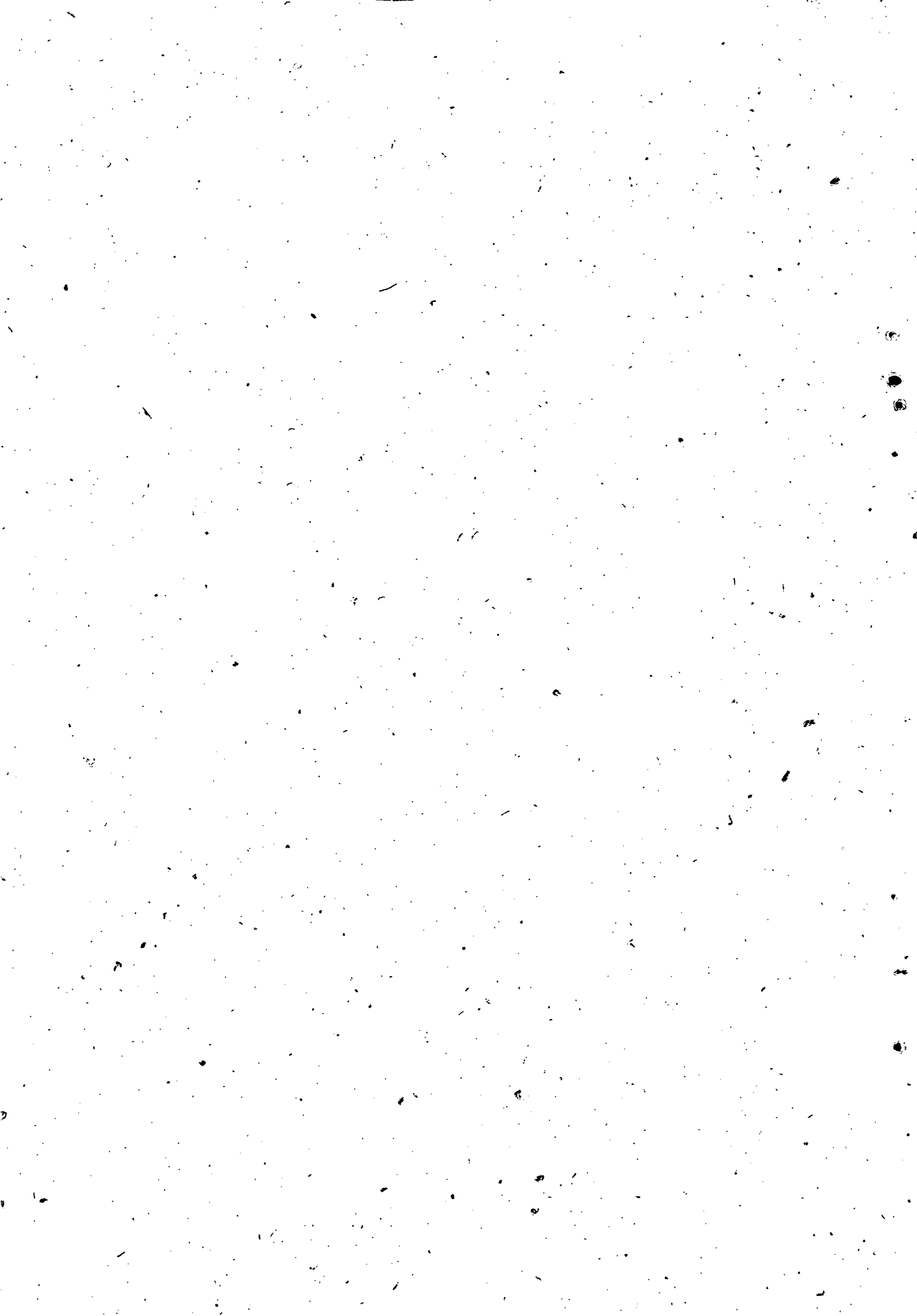


TABLE: 12.12

Percentage distribution of finance by source of finance

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CANNANORE

Source of finance	Urban				Rural				Total			
	Construction type											
	New build- ing	Addl. alter- ation	All build- ing	Non- build- ing	New build- ing	Addl. alter- ation	All build- ing	Non- build- ing	New build- ing	Addl. alter- ation	All build- ing	Non- build- ing
1	2	3	4	5	6	7	8	9	10	11	12	13
Borrowing from employee	..	..	..	..	0.90	..	0.74	..	0.56	..	0.48	..
Borrowing from other sources	3.72	..	3.55	..	18.96	10.76	17.46	..	13.20	9.52	12.70	..
Others	96.28	100.00	96.45	..	80.14	89.24	81.80	..	86.24	90.48	86.82	..
All sources	100.00	100.00	100.00	..	100.00	100.00	100.00	..	100.00	100.00	100.00	..





Table 13.1

Percentage distribution of loans by rate of interest

Rural

District	rate of interest (per cent)								Total
	Less than 4	4 - 5	5 - 6	6 - 8	8 - 10	10 - 20	More than 20	Rate not stated	
1	2	3	4	5	6	7	8	9	10
Trivandrum	-	-	27.64	29.91	-	39.07	2.27	1.11	100.00
Thiruvananthapuram	-	1.22	4.27	12.09	1.22	67.20	10.35	3.65	100.00
Kannur	2.27	16.44	2.52	5.41	7.28	56.11	5.07	4.90	100.00
Kottayam	-	0.65	-	16.44	11.01	68.32	0.26	3.32	100.00
Idukky	5.48	-	1.98	16.72	2.59	49.22	7.73	16.28	100.00
Malappuram	2.69	0.90	0.29	4.72	15.12	58.66	8.02	9.60	100.00
Trichur	0.70	0.25	0.19	-	28.53	40.71	22.73	6.89	100.00
Palghat	-	7.11	-	-	46.23	45.64	-	1.02	100.00
Kozhikode	2.69	-	-	-	3.39	88.26	-	5.66	100.00
Wynad	-	-	-	-	8.16	91.84	-	-	100.00
Malappuram	-	2.96	4.47	-	32.56	57.69	2.22	-	100.00
Kannur	1.57	0.78	-	17.81	7.45	63.25	3.22	5.92	100.00
STATE	1.07	2.85	3.69	8.59	14.72	56.21	7.89	4.98	100.00

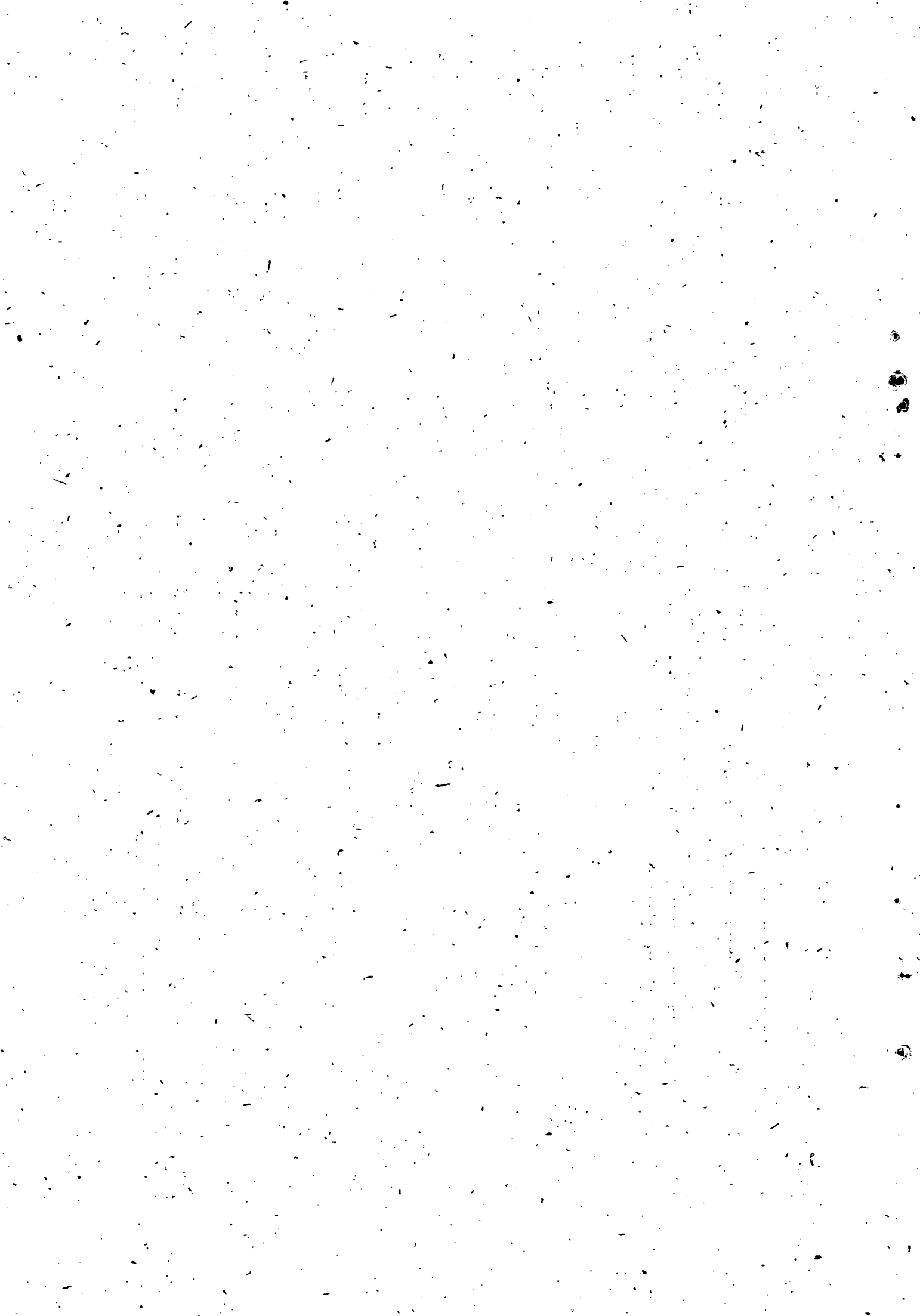


Table 13.2  
Percentage distribution of loans by rate of interest

Urban

District	rate of interest (per cent)								Total
	Less than 4	4 - 5	5 - 6	6 - 8	8 - 10	10 - 20	More than 20	rate not stated	
1	2	3	4	5	6	7	8	9	10
Aravandrum	-	-	-	55.88	13.78	22.95	5.66	2.23	100.00
Bellary	-	-	-	-	-	73.09	6.65	20.26	100.00
Bellary	-	25.16	-	-	-	73.12	1.72	-	100.00
Bettayam	-	-	-	-	-	100.00	-	-	100.00
Bhalki	-	-	-	-	1.00	99.00	-	-	100.00
Bhaskulam	-	2.04	2.04	-	38.94	45.12	0.66	11.20	100.00
Chichur	-	5.81	-	-	-	48.94	45.25	-	100.00
Dalghat	-	-	-	-	-	-	-	-	-
Dalappuram	-	-	-	-	-	100.00	-	-	100.00
Dand	-	-	-	-	-	-	-	-	-
Dandhikode	-	12.51	-	-	-	56.59	-	30.90	100.00
Dandhore	-	-	-	-	100.00	-	-	-	100.00
STATE	-	6.04	0.44	8.33	13.45	55.23	5.70	10.81	100.00

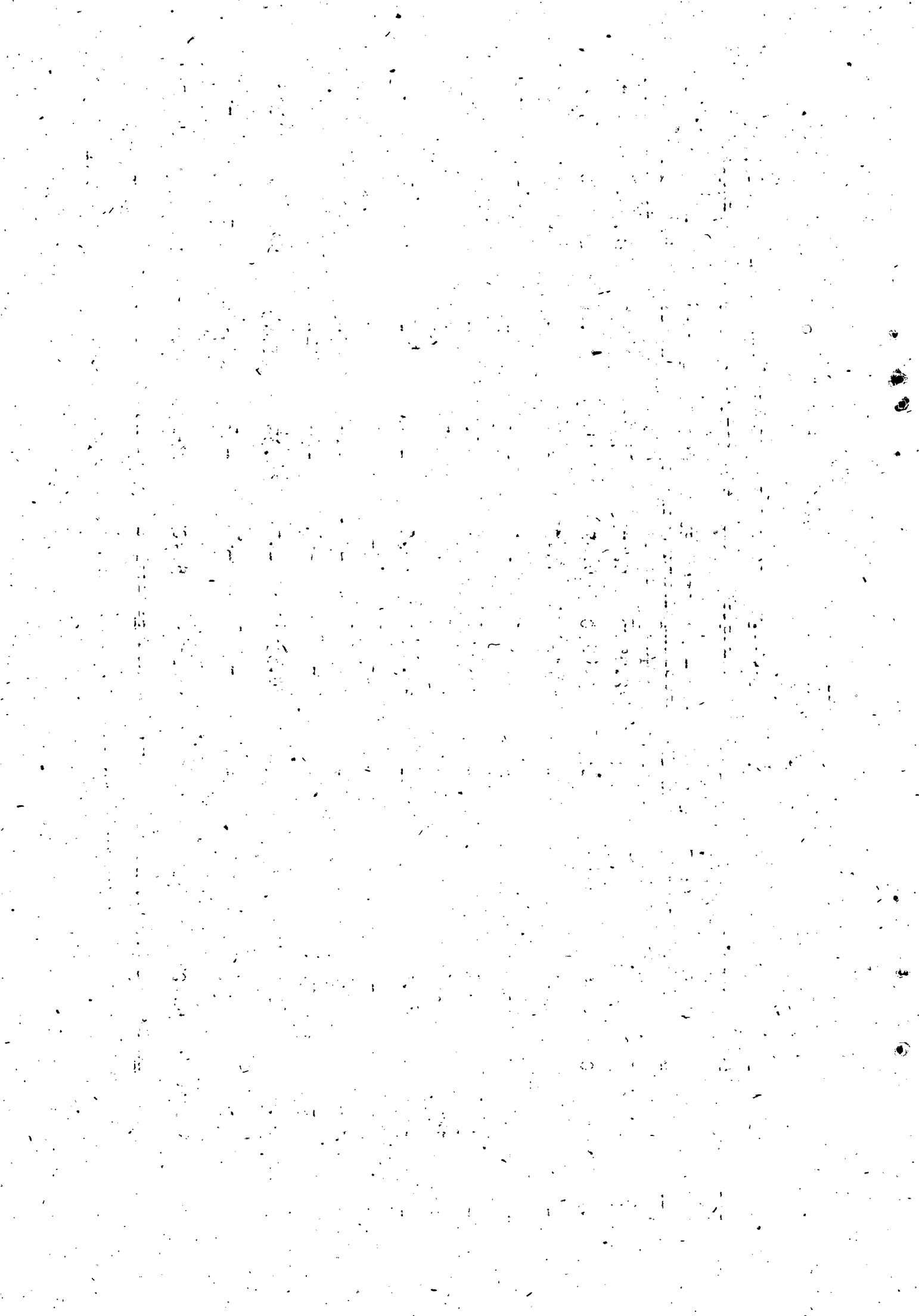


Table 13.3  
Percentage distribution of loans according to period of repayment

District	Period of repayment								Total
	Less than 6 months	6 - 12 months	12-24 months	24-36 months	36-60 months	60-120 months	120 months and more	Not stated	
	2	3	4	5	6	7	8	9	
Coimbatore	0.04	-	0.28	14.46	4.15	22.18	44.21	14.68	100.00
Dharmapuri	-	0.88	5.88	6.74	15.74	29.37	7.01	34.38	100.00
Dindigul	0.11	0.82	6.67	7.41	23.14	11.87	30.88	19.10	100.00
Erode	0.26	1.42	1.58	3.97	17.80	10.20	50.98	13.79	100.00
Kannur	0.48	4.74	26.38	7.44	3.70	1.92	25.81	29.53	100.00
Kanyakumari	0.09	1.26	10.51	11.57	10.75	19.69	30.48	15.65	100.00
Trichur	0.02	0.10	3.84	32.14	1.98	3.42	17.94	40.56	100.00
Palghat	-	1.35	20.52	1.02	10.15	8.64	50.70	7.62	100.00
Malappuram	2.69	5.38	28.91	1.62	17.77	1.35	5.70	36.58	100.00
Idukki	-	-	21.43	8.16	-	22.45	8.16	39.80	100.00
Thiruvananthapuram	-	11.33	3.35	3.63	19.54	21.50	29.09	11.56	100.00
Kasaragod	0.78	6.12	13.00	9.81	9.06	16.94	31.42	12.87	100.00
STATE	0.25	1.84	8.22	12.46	11.24	13.17	28.65	24.17	100.00



Table 13.4

Percentage distribution of loans according to period of repayment

Urban

District	Period of repayment								Total
	Less than 6 months	6-12 months	12-24 months	24-36 months	36-60 months	60-120 months	120 months and more	Not stated	
1	2	3	4	5	6	7	8	9	10
Madhavaram	-	-	-	20.11	5.22	-	67.05	7.62	100.00
Millon	-	0.33	9.97	28.57	-	19.93	-	41.20	100.00
Alleppey	-	-	-	29.30	29.30	1.66	30.41	9.33	100.00
Attayan	-	-	-	-	100.00	-	-	-	100.00
Edukki	-	-	8.00	-	1.00	5.00	80.00	6.00	100.00
Banakulam	-	-	9.32	9.37	12.32	20.37	27.74	20.88	100.00
Trichur	-	-	-	-	-	0.93	17.41	81.66	100.00
Palghat	-	-	-	-	-	-	-	-	-
Malappuram	-	-	-	-	-	-	-	100.00	100.00
Wyoed	-	-	-	-	-	-	-	-	-
Chikode	-	-	-	1.39	10.44	6.96	9.75	71.46	100.00
Thannanore	-	-	-	-	-	-	100.00	-	100.00
STATE	-	0.01	3.26	8.72	11.35	7.57	34.19	34.90	100.00



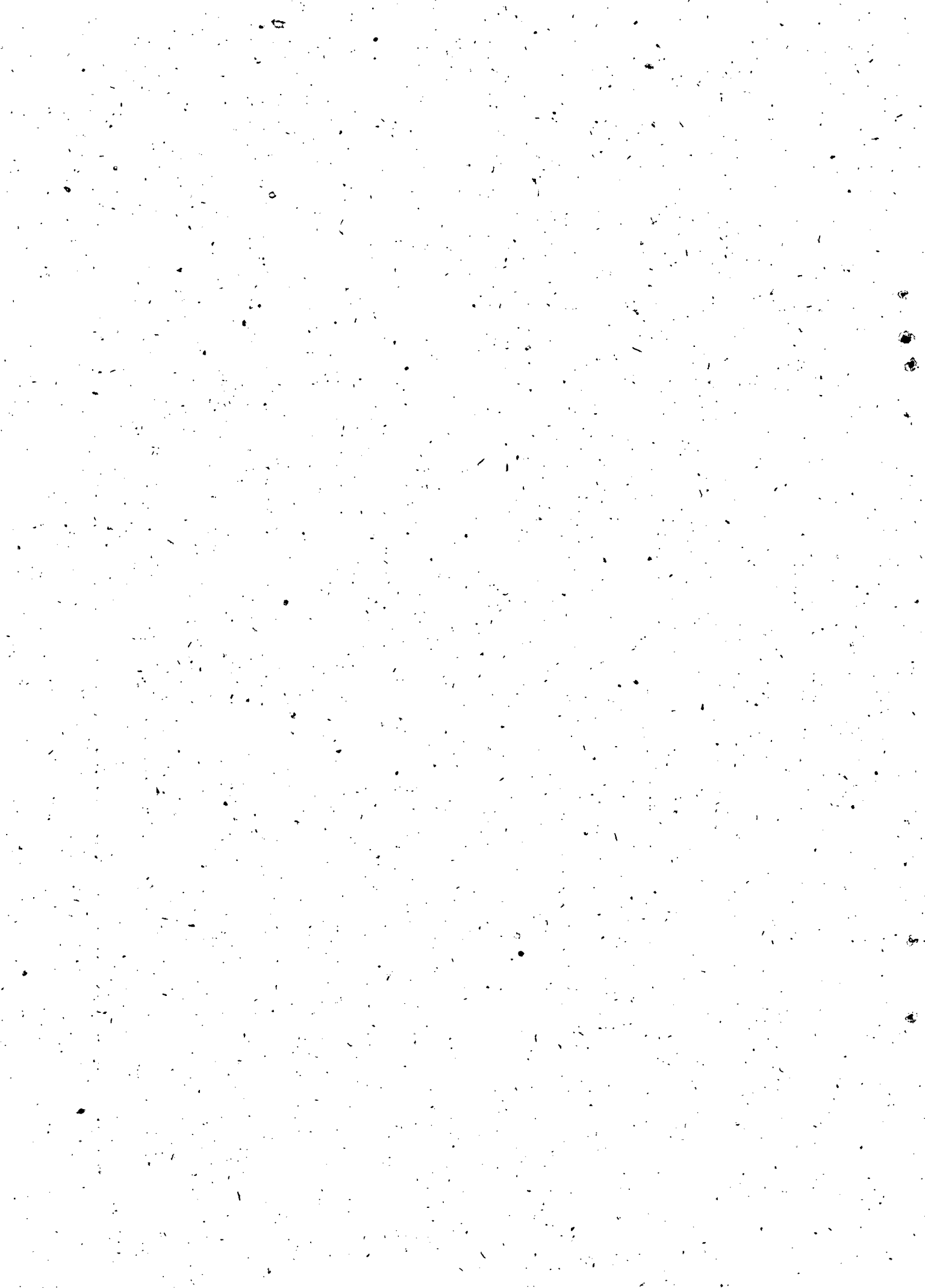


Table 13.5

Percentage distribution of loans according to rate of interest

District	rate of interest									Total
	Less than						More	rate not		
	4	4-5	5-6	6-8	8-10	10-20	than 20	stated		
1	2	3	4	5	6	7	8	9	10	
Trisandrum	-	-	20.07	37.02	3.77	34.52	3.20	1.42	100.00	
Quilon	-	1.16	4.05	11.47	1.16	66.80	10.32	5.04	100.00	
Alleppey	1.95	17.67	2.17	4.65	6.25	58.50	4.60	4.21	100.00	
Kottayam	-	0.62	-	15.58	10.44	69.97	0.25	3.14	100.00	
Idukki	3.15	-	1.14	9.61	1.91	70.39	4.44	9.36	100.00	
Ernakulam	1.71	1.32	0.93	3.00	23.78	53.74	5.34	10.18	100.00	
Trichur	0.63	0.80	0.17	-	25.72	41.52	24.95	6.21	100.00	
Palghat	-	6.69	-	-	43.46	48.89	-	0.96	100.00	
Malappuram	2.52	-	-	-	3.18	89.00	-	5.30	100.00	
Wynad	-	-	-	-	8.16	91.84	-	-	100.00	
Kozhikode	-	11.23	2.03	-	14.82	70.91	1.01	-	100.00	
Cannanore	-	-	-	8.66	4.50	75.18	4.10	7.56	100.00	
Total.	0.81	3.47	3.06	8.54	14.47	56.02	7.47	6.11	100.00	

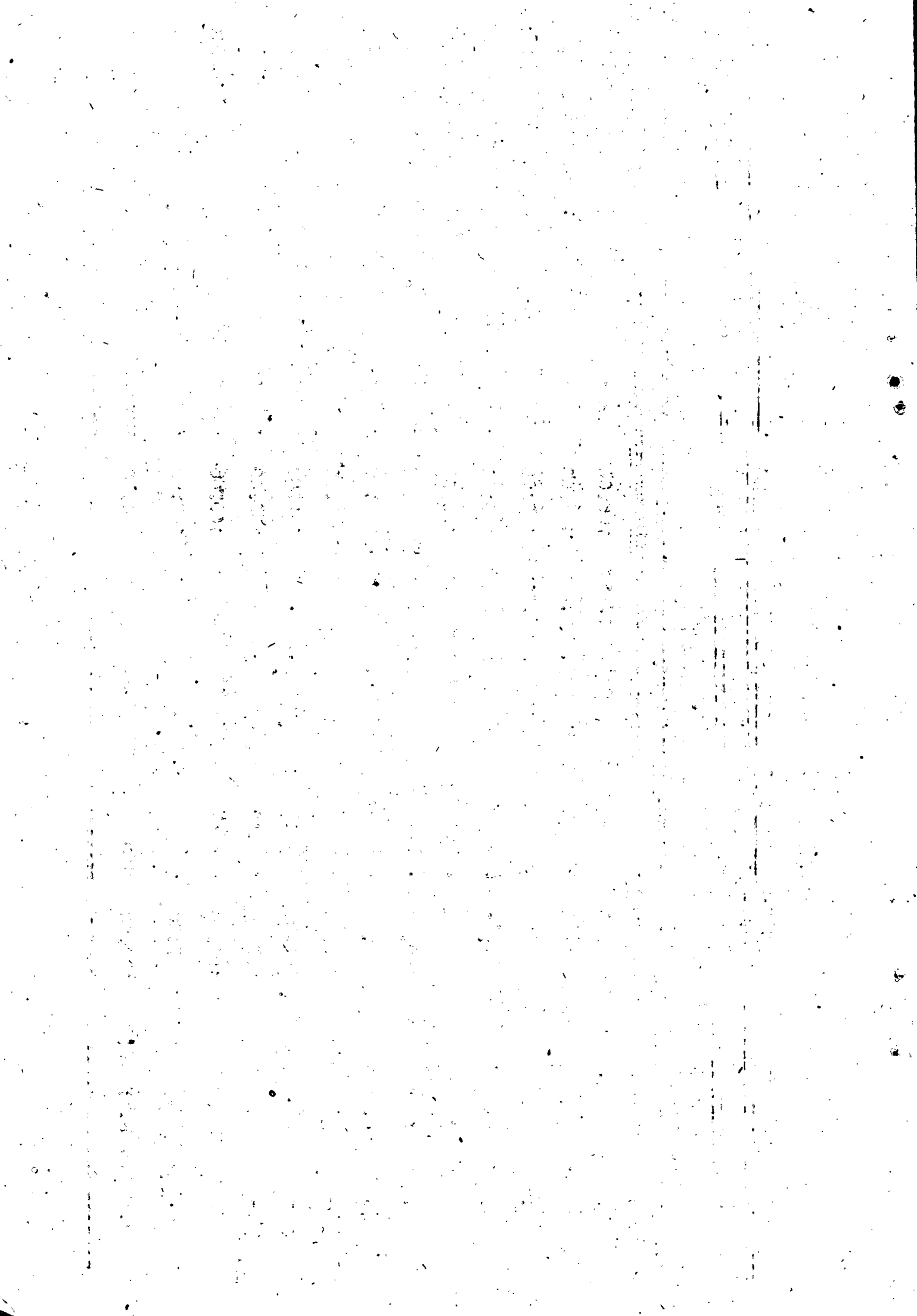
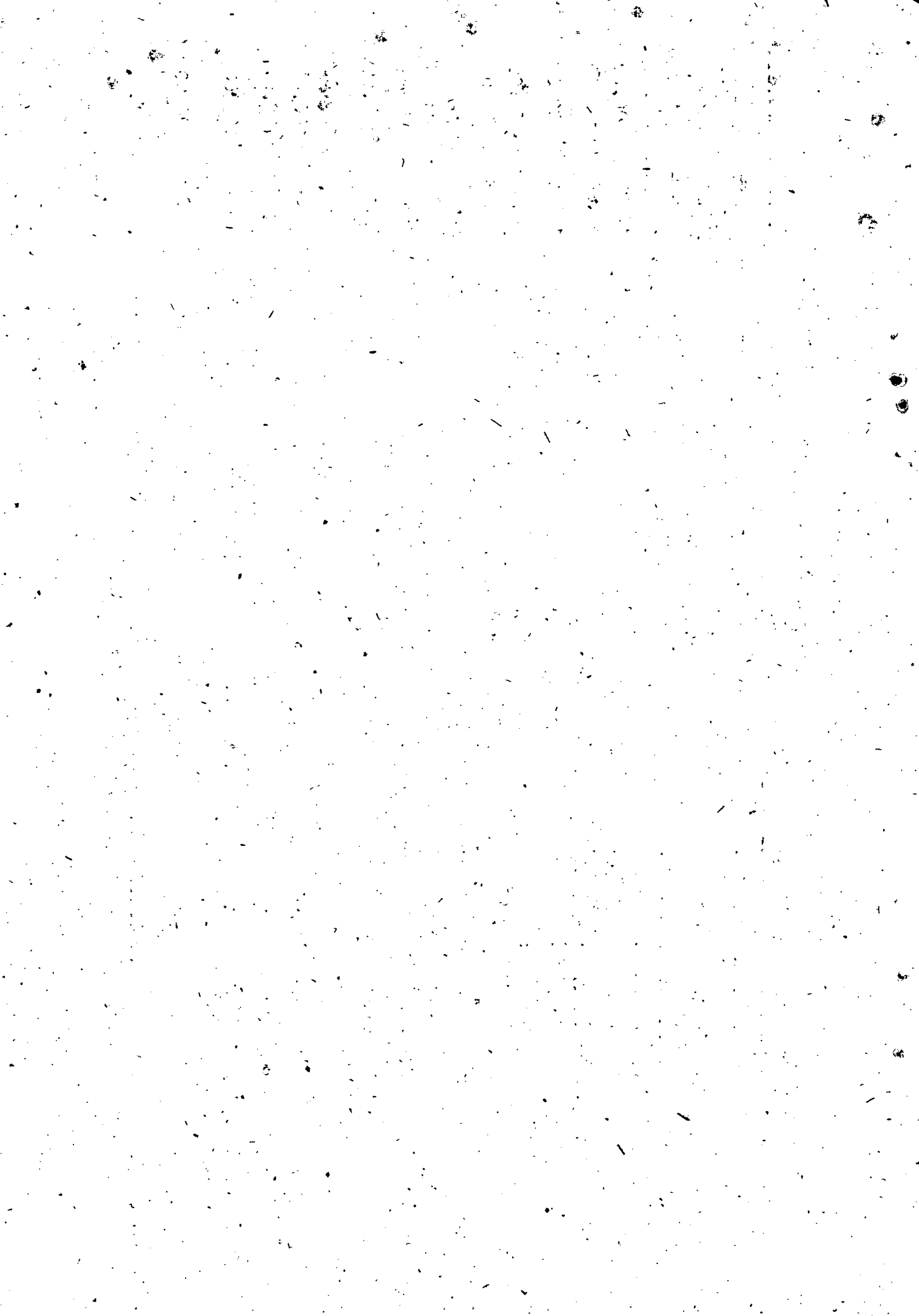


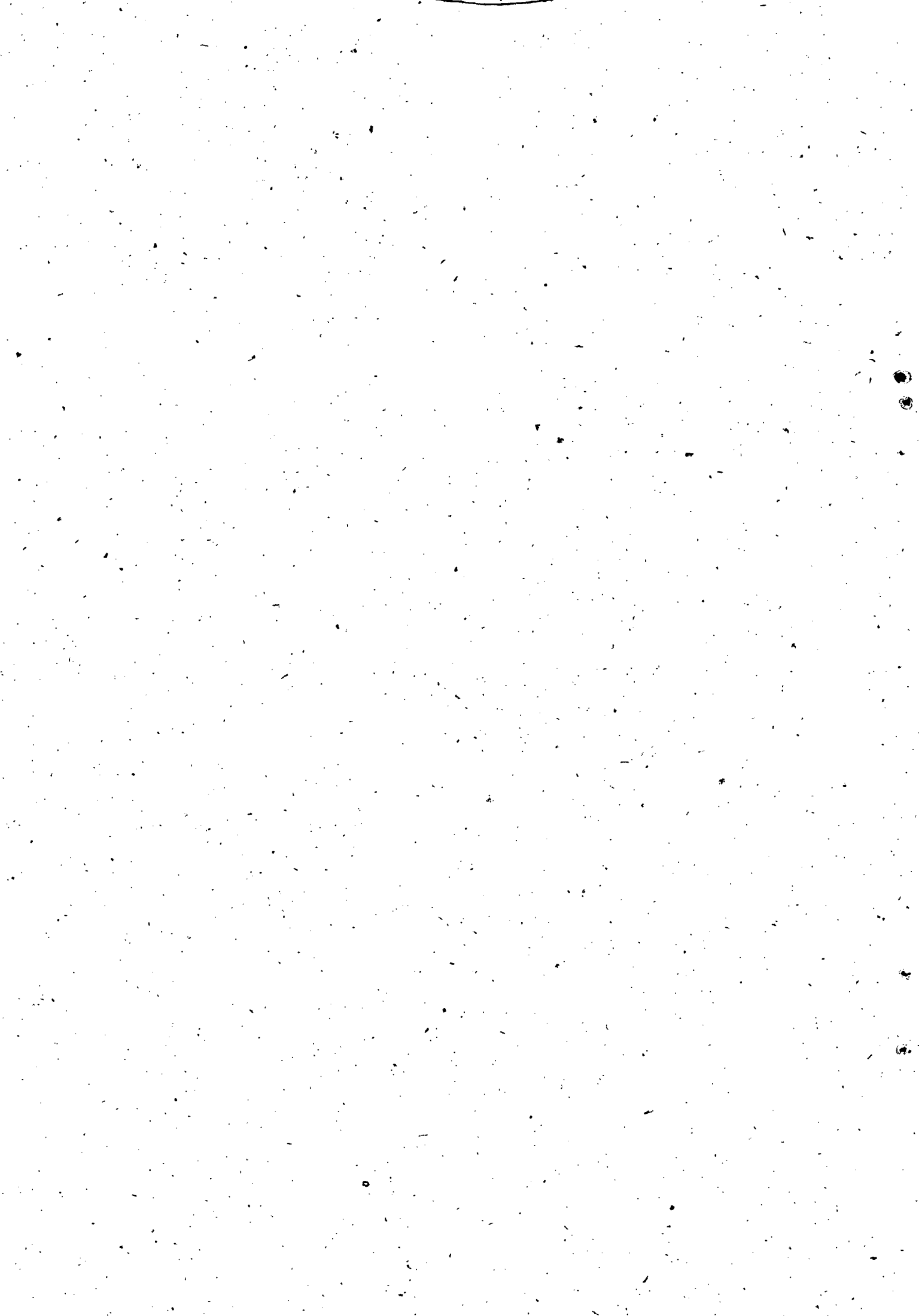
Table 13.6

Percentage distribution of loans according to period of repayment

District	Period of repayment								Total
	Less than 6 months	6-12	12-24	24-36	36-60	60-120	120 months & more	Not stated	
1	2	3	4	5	6	7	8	9	10
Alvandrum	0.03	-	0.20	16.01	4.44	16.11	50.46	12.75	100.00
Quilon	-	0.86	3.73	8.62	14.93	29.41	6.65	35.80	100.00
Alleppey	0.10	0.70	5.73	10.49	24.00	10.44	30.82	17.72	100.00
Kottayam	0.25	1.34	1.50	3.77	22.07	9.67	48.32	13.08	100.00
Kulakky	0.28	2.72	18.56	4.27	2.55	3.23	48.86	19.53	100.00
Imakulam	0.06	0.80	10.08	10.77	11.32	19.94	29.48	17.55	100.00
Trichur	0.01	0.09	3.46	28.97	1.79	3.18	17.89	44.61	100.00
Palghat	-	1.27	19.30	0.95	9.55	8.12	47.67	13.14	100.00
Malappuram	2.52	5.04	27.09	1.51	16.65	1.26	5.35	40.58	100.00
Idnad	-	-	21.43	8.16	-	22.45	8.16	39.80	100.00
Kochikode	-	5.14	1.52	2.41	14.57	13.56	18.53	44.27	100.00
Mananore	1.00	7.81	16.59	12.51	11.56	21.62	12.50	16.41	100.00
Total	0.25	1.49	7.26	11.74	11.26	12.09	29.72	26.24	100.00









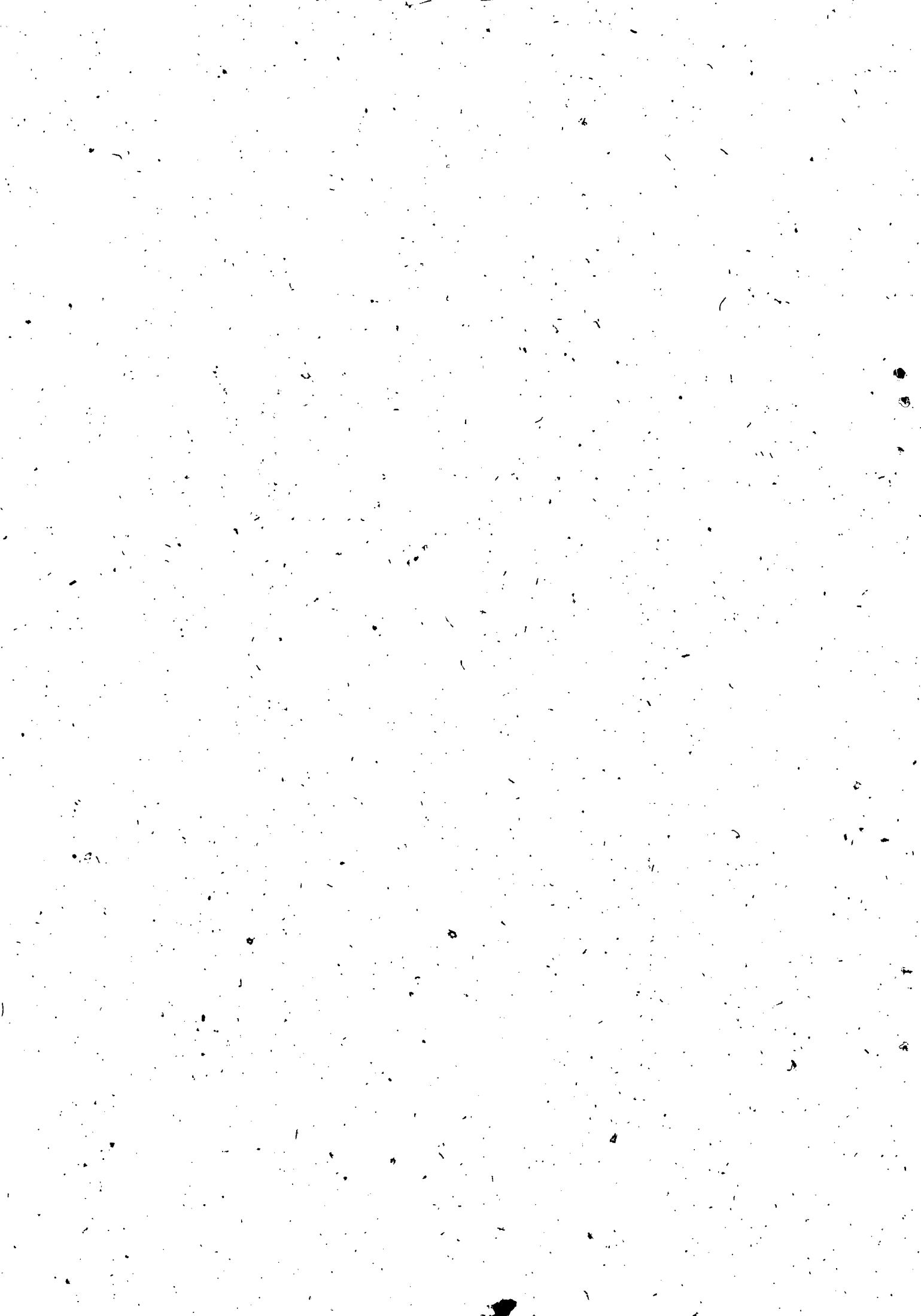




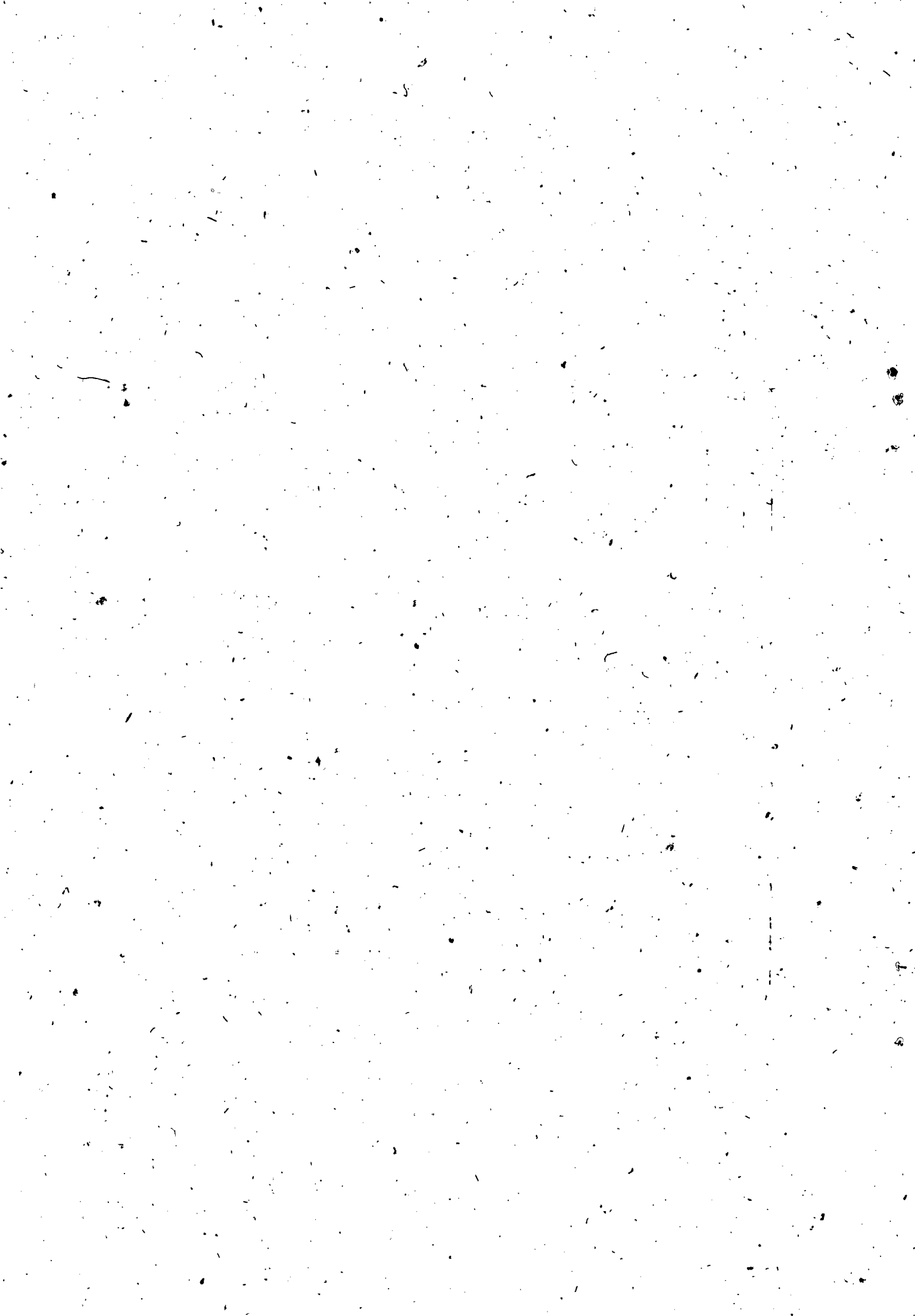






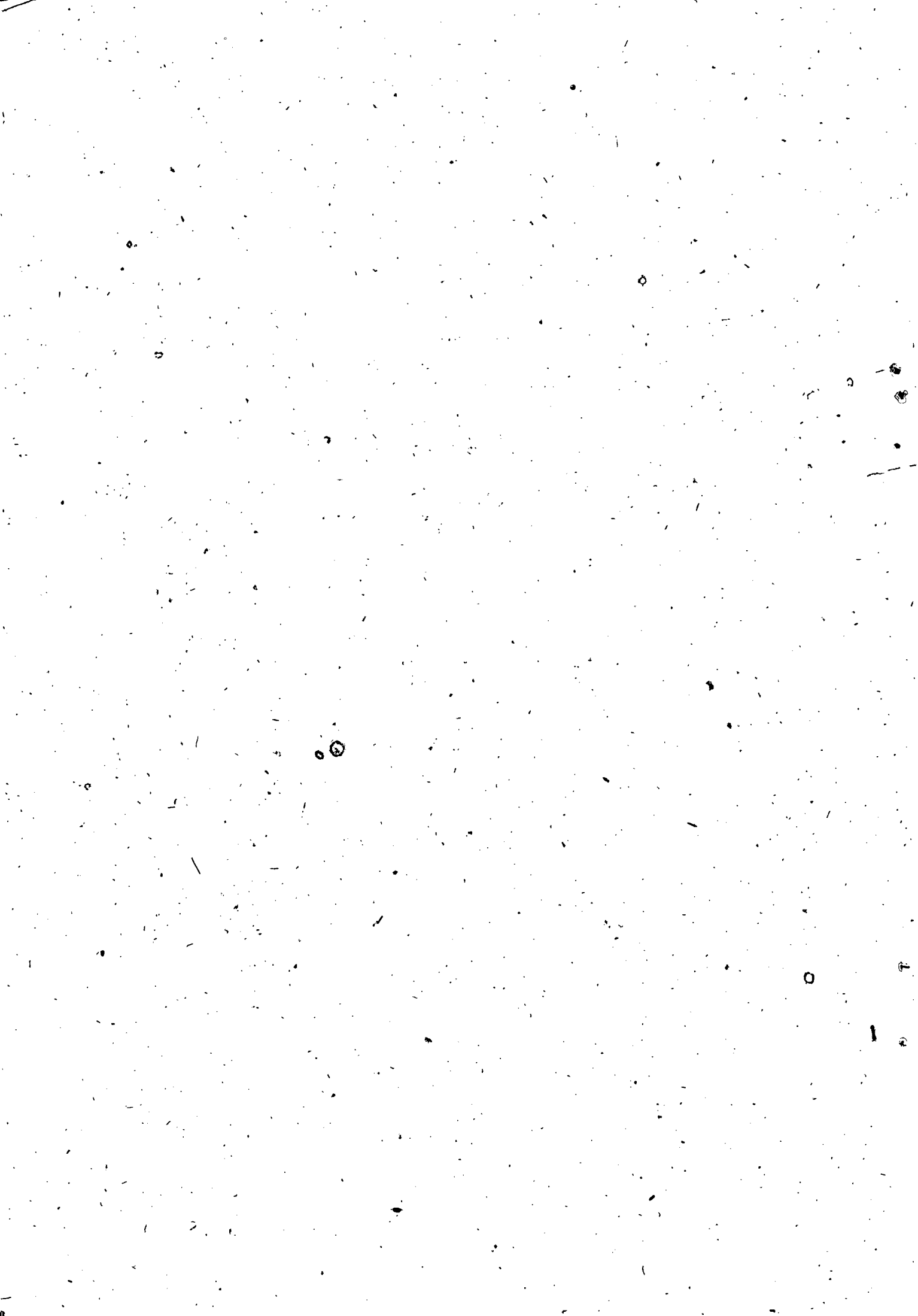




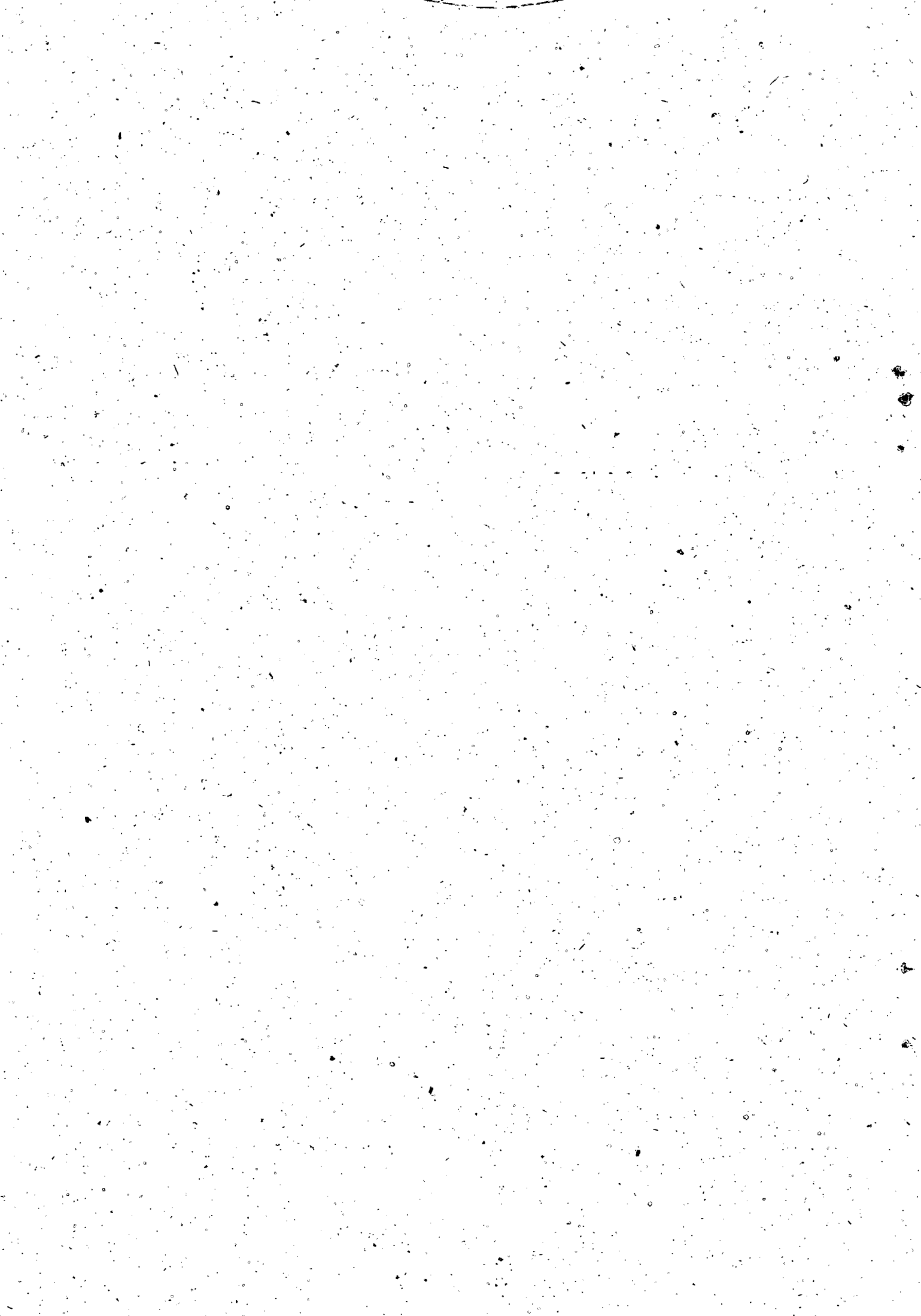








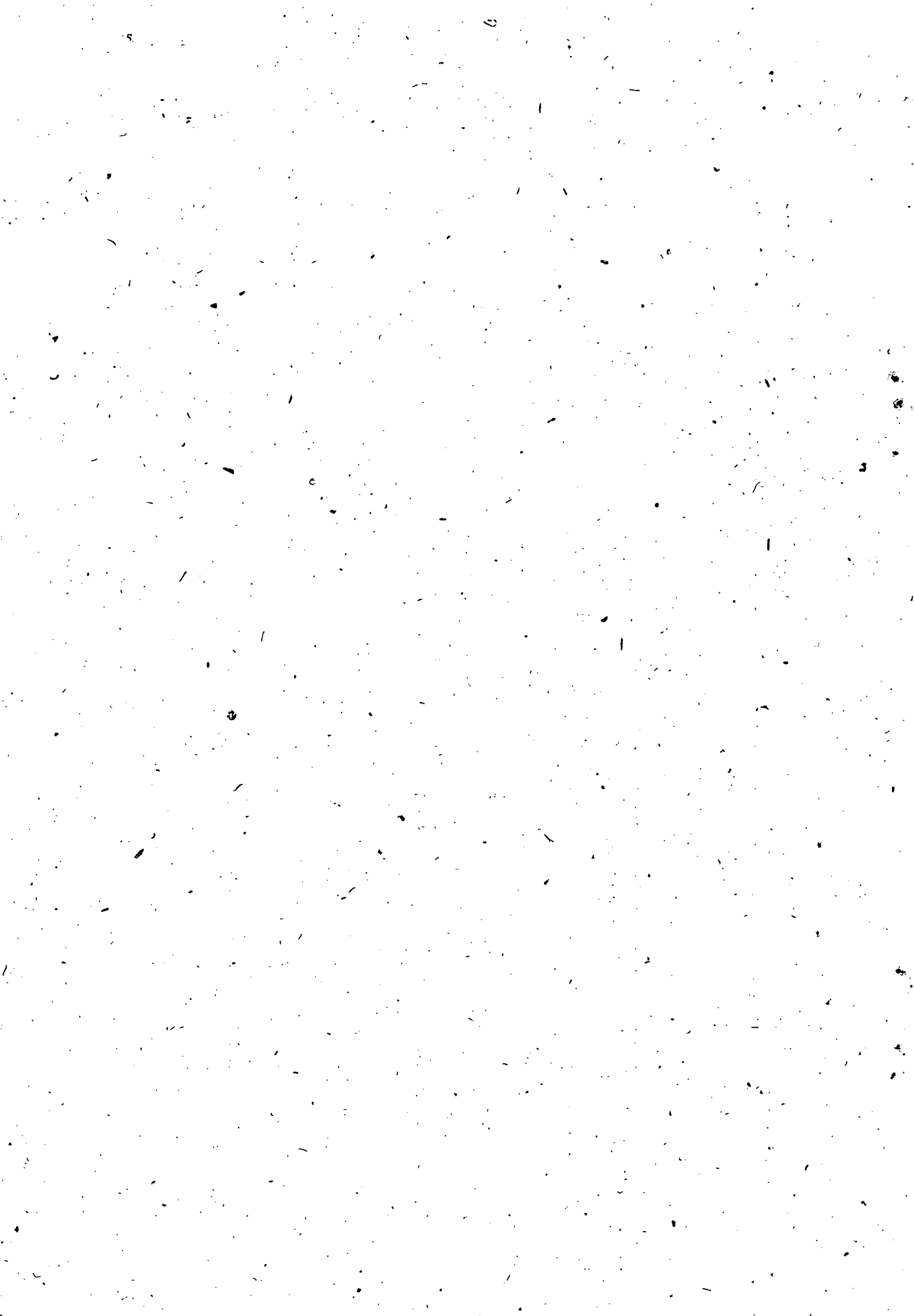










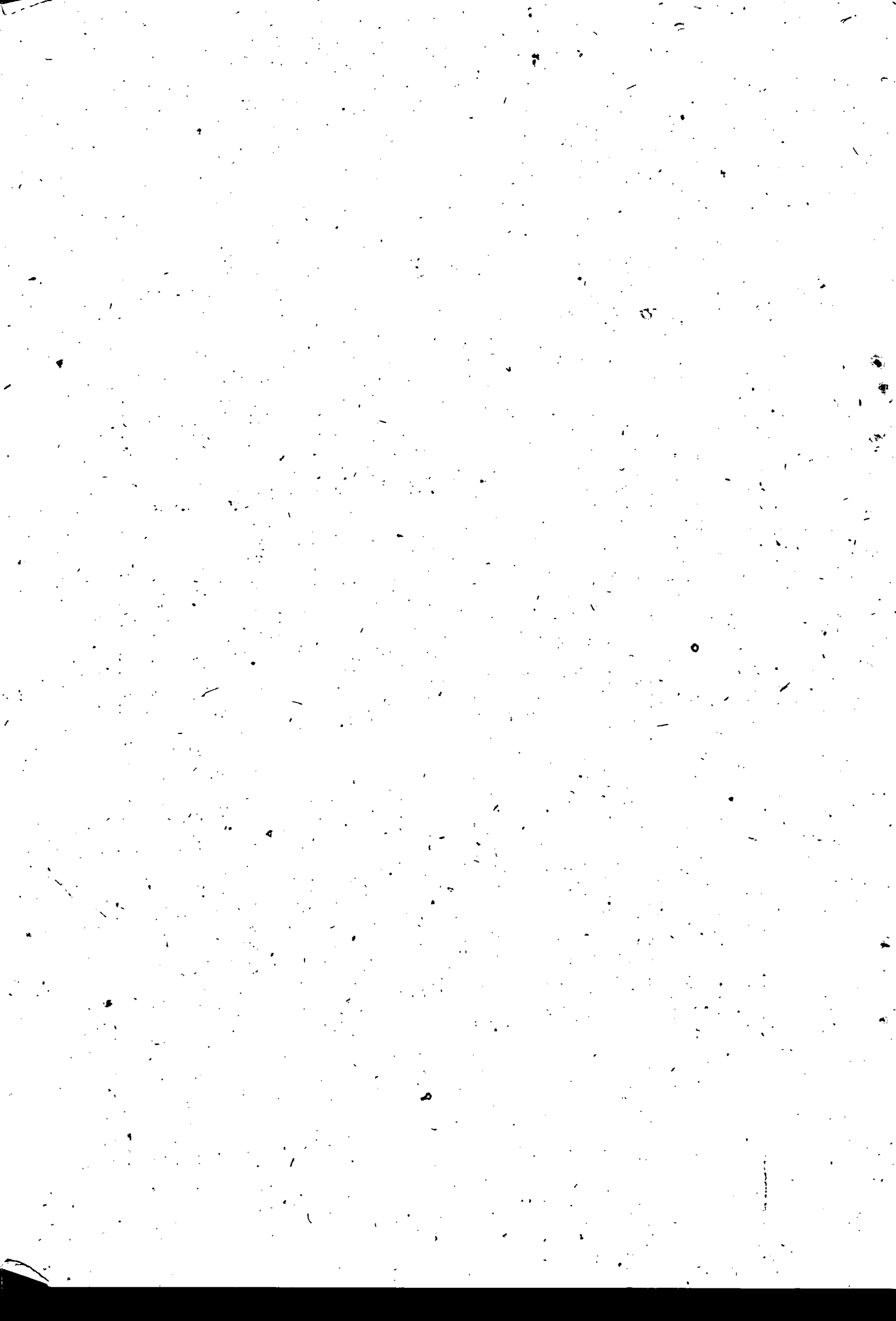
















GOVERNMENT OF INDIA  
 Directorate of Economics and Statistics  
 Survey on Construction Activities 1980-81

SCHEDULE I - LIST OF HOUSEHOLDS

District: \_\_\_\_\_

Rural/Urban \_\_\_\_\_

A. Identification Particulars.

I. Identification particulars of the sample				II. Particulars of field work	
Sl. No.	Item	Sl. No.	Item		
1	Name of Taluk	1	Name of Investigator		
2	Name of Panchayat/Town	2	Period of enquiry		
3	Name and number of selected ward	3	Date of submission of schedules		
4	(a) Total number of houses	4	Signature of Investigator		
	(b) New houses constructed during last 2 years				
5	If hamlet selection is done	5	Name of Supervisor		
	(i) Total number of hamlets				
	(ii) Serial number of selected hamlet	6	Date of scrutiny		
6	Name of informant	7	Date of Inspection		
III. Selection of hamlet				8	Date of submission of schedules
Sl. No.	Name of hamlet	No. of houses	Random No. used	Details of selected hamlet	Signature of the Supervisor
1					
2					
3					
4					
IV. Notional map with geographic boundaries on all the four sides of the selected sample.					









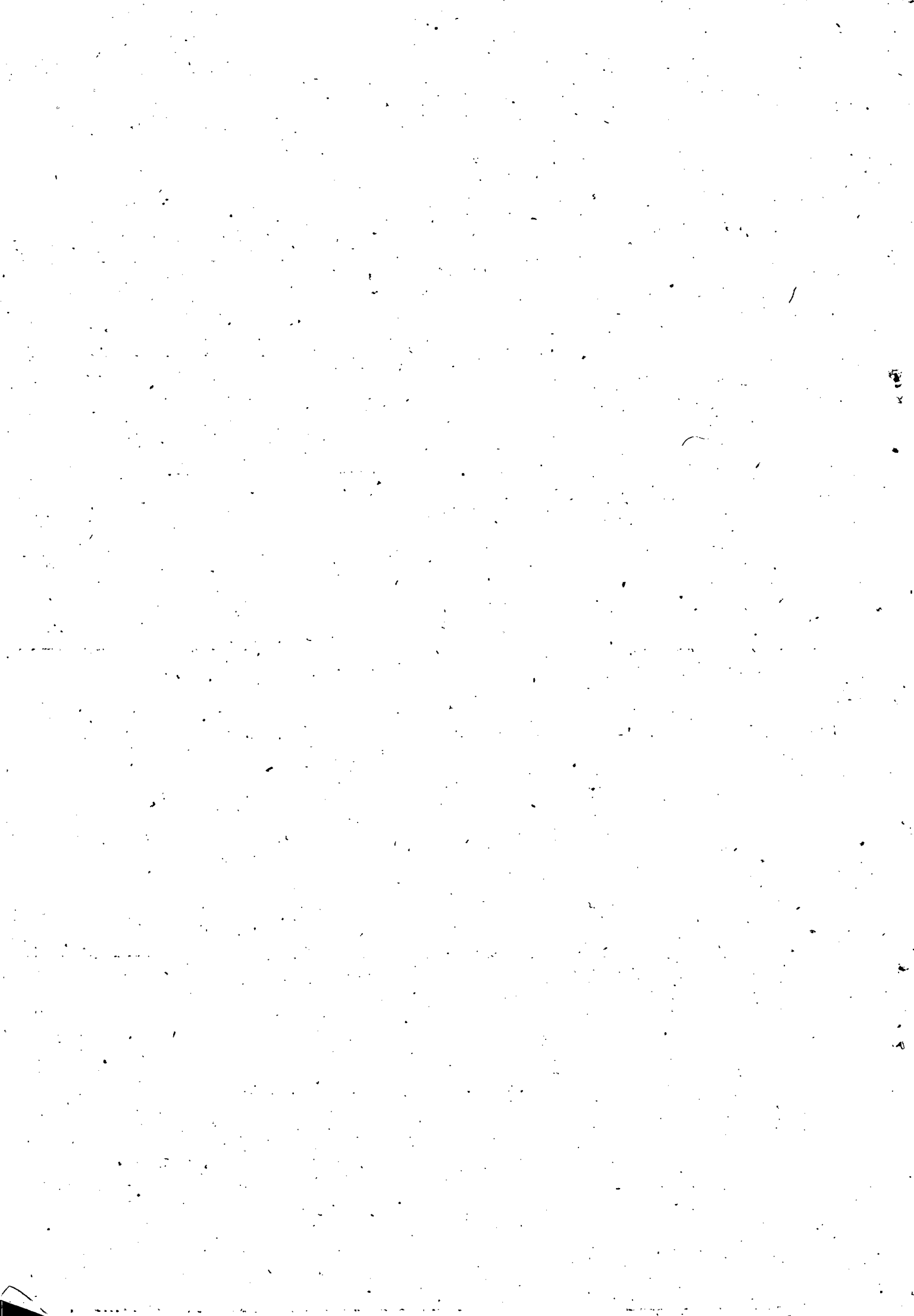
Construction type  
 (New construction during preceding  
 365 days)

Sampling  
 serial num-  
 bers for  
 schedules  
 for const.  
 type

Sample  
 households  
 selected

Remarks

Discrip- tion	Code	Owner type (c)	Total cost (Rs.)	Sampling serial num- bers for schedules for const. type				Sample households selected				Remarks
				11	12	21	22	11	12	21	22	
13	14	15	16	17	18	19	20	21	22	23	24	25



SCHEDULE I C

VI. Details of selection

Sl. No.	Construction activity code	Total No. of households in the group	Interval	Random start	Households selected				Remarks
					1	2	3	4	

Remarks of the Investigator

Remarks of the Supervisor



GOVERNMENT OF KERALA  
 DIRECTORATE OF ECONOMICS AND STATISTICS  
 SURVEY ON CONSTRUCTION ACTIVITIES - 1980-81  
 Schedule II - Particulars of Constructions

Urban/Rural

District:

I. Identification Particulars		II. Particulars of field work	
1	Taluk	1	Name of Investigator
2	Panchayat/Town	2	Period of Survey
3	Ward selected	3	Date of enumeration
4	Hamlet if any	4	Date of submission
5	Construction Activity (code)	5	Signature of Investigator
6	Household Sl.No.	6	Name of Supervisor
7	Household No.	7	Date of scrutiny
8	Order of selection	8	Date of Inspection
9	Name of Informant	9	Date of despatch
		10	Signature of Supervisor

III. Particulars of Construction work	Description	Code
1	Nature of Construction - Code (a)	
2	Construction Agency - Code (b)	
3	Construction responsibility - Code (c)	
4	Type of construction - Code (d)	
5	Purpose - Code (e)	
6	Date of commencement of work	
7	Duration/expected duration of construction works (in months)	
8	Total/estimated total cost of construction (Rs.)	
9	Proportion of the work completed to date (in %)	
10	Proportion of the work done during the reference year (in %)	
11	Whether sanction required as per Municipal rules (Yes - 1 No - 2)	
12	If yes for 11, month & year of sanction	
13	House type (on completion) - Code (f)	
14	Wall type ( " ) - Code (g)	
15	Roof type ( " ) - Code (h)	
16	No. of living rooms (on completion)	
17	Flinth area ( " )	



IV. Expenditure (quantity & value) on building work during the last year

Sl. No.	Item	Standard Unit	Quantity in standard unit	Price per unit		Value		Remarks
				Rs.	P	Rs.	P	
1	Stone blocks/rubble	M <sup>3</sup>						
2	Stone cubes ( )	M <sup>3</sup>						
3	Stone chips ( )	M <sup>3</sup>						
4	Bricks (burnt)	No. (00)						
5	Bricks (unburnt)	No. (00)						
6	Sand	M <sup>3</sup>						
7	Cement	Quintal						
8	Lime	Kg.						
9	(a) Wood & Timber	M <sup>3</sup>						
	(b) Wood sown	X						
10	Tiles for roof	No.						
11	(a) Mosaic tiles	No.						
	(b) Mosaic chips	Quintal						
12	Other floor tiles	No.						
13	Asbestos sheets - Roof	M <sup>2</sup>						
14	Asbestos Sheets - Ceiling	M <sup>2</sup>						
15	Corregated iron sheets	M <sup>2</sup>						
16	Iron & Steel	Quintal						
17	Doors & Windows (Ready made)	No.						
18	Iron, steel and other metal fittings	X						
19	Bamboo, cane, reed	X						
20	Straw, grass & leaves	X						
21	Paint & Varnish	Litre						
22	Sanitary fittings	X						
23	Electrical fittings	X						
24	Plumbing & water supply fittings	X						
25	Glass fittings	X						
26	Bolts, nuts & nails (Not included in item 18)	X						
27	Pumps, tubes & iron fittings	X						

Contd....





Sl. No.	Item	Standard Unit	Quantity in standard unit	Price per unit		Value		Remarks
				Rs.	P.	Rs.	P.	
28	Other materials (to be specified)							
	(i)							
	(ii)							
	(iii)							
	(iv)							
	(v)							
29	Used materials (2nd hand)							
30	Materials sub total(1 to 29)							

Sl. No.	Item	Man days	Wage/Worker	Total cost	
				Rs.	P.
31	Labour hired				
	(i) Skilled				
	(ii) Unskilled				
	(iii) Total				
32	Household labour				
33	Labour sub total				
34	Professional services				
	(1) Painter & Decorators				
	(2) Plumber				
	(3) Electrician				
	(4) Others (specify)				
35	Industrial services				
36	Rental & hire charges				
37	Municipal fees				
38	Other service charges				
39	Service charges sub total				
40	Supervision charges				
41	Transport charges (Not included in cost of materials)				
42	Other payments if any				
43	Labour & service charges total				
44	Imputed value of used materials				



V. Payment for hired labour

Sl. No.	Item of work (Broad group)	Mason		Carpenter		Other skilled		Unskilled		Total	
		A.	B.	A.	B.	A.	B.	A.	B.	A.	B.
1	2	3		4		5		6		7	
		Rs.		Rs.		Rs.		Rs.		Rs.	
1	Excavation, Foundation, Basement										
2	Roof level										
3	Roofing										
4	Plastering										
5	Flooring										
6	Total										

A = No. of man days      B = wages paid

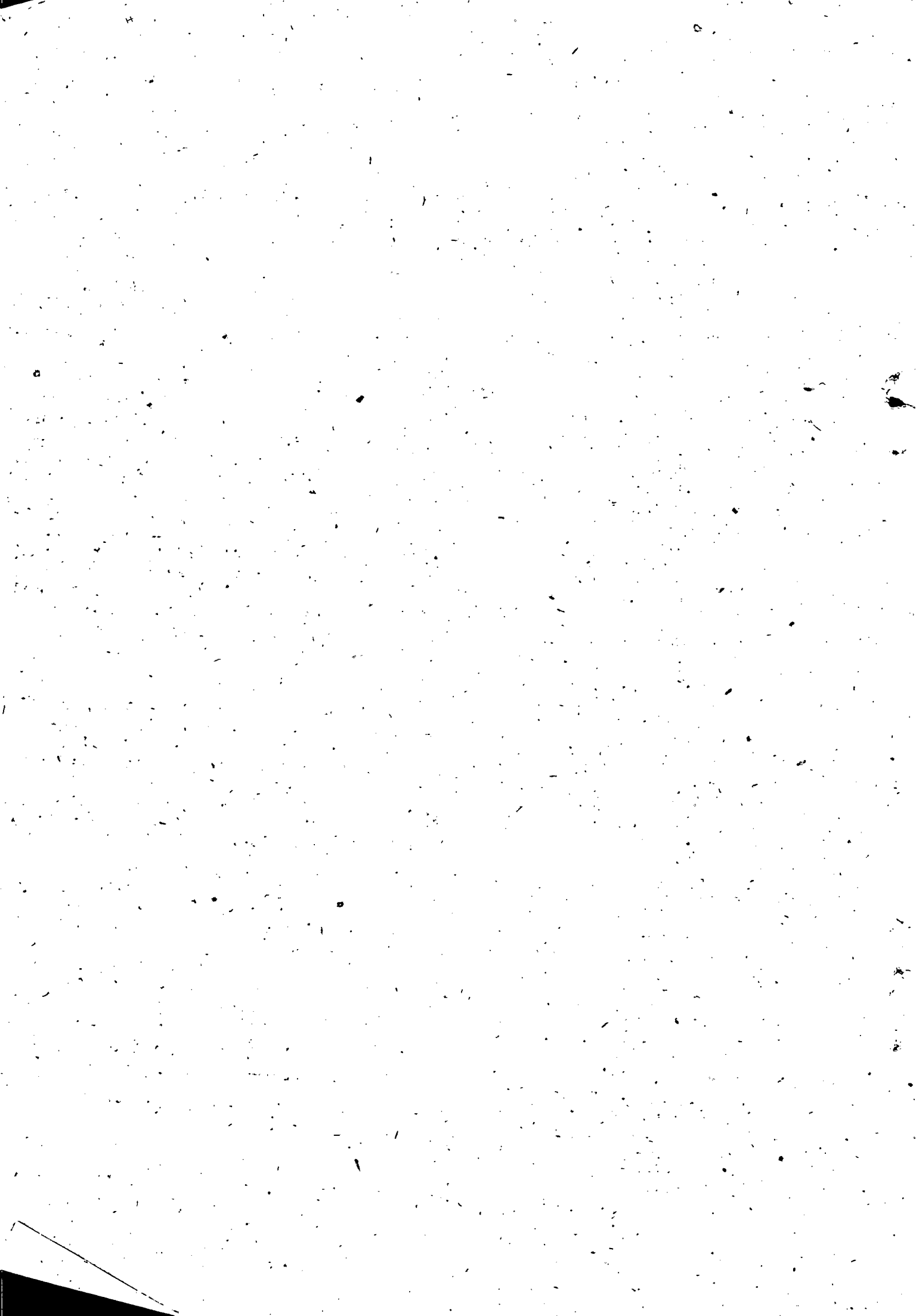
VI. Description of the work done during the last 365 days

VII. Source of Finance

Item	Amount		Rate of interest (% 0.00)	Period of full re-payment in months	Remarks
	Rs.	P.			
1	2	3	4	5	6
(i) Borrowing from employer					
(1) Government					
(2) Public undertakings					
(3) Private undertakings					
(4) Others (specify)					
(ii) Borrowing from other sources					
(5) Government					
(6) Life Insurance Corporation					
(7) Other Insurance Companies					
(8) Commercial Banks					
(9) Co-operative Banks					
(10) Provident Fund					
(11) Housing Association					
(12) Housing Agency					
(13) Money lender					
(14) Friends & relatives					
(15) Others (specify)					
(iii) Other sources					
(16) Savings					
(17) Pension, gratuity & Provident Fund					
(18) Inherited wealth					
(19) Subsidy & grants					
(20) Gifts					
(21) Others (specify)					
(iv) Amount proposed to be raised					
(22) Total					

Remarks of the Investigator

Comments of the Supervisor



## Survey on Construction Activities - 1980-81

### Instructions for field survey

#### General:

Construction is one of the major sectors of economic activity in the state providing employment to a large section of the labour force. Indirectly, it generates employment in other sectors which produce the materials required for construction activity. In spite of the economic importance of this sector, very little effort has been made so far to collect reliable information on the various aspects of the construction activities. Constructions are carried out by the Public Sector, Private Corporate sector (Public limited & private limited Companies) households and private non-household agencies (trusts, Co-operative Societies, educational religious and other institutions run by private companies, societies, clubs etc.) Information on the construction activities undertaken by the public and private corporate sectors can be gathered through official channels. In respect of the construction activities undertaken by the households and private non-household agencies, however, practically no reliable statistics are available. In the estimation of regional income, construction is one of the sectors having a very weak data base. Reliable statistics in construction activity will also be very useful in planning the production and distribution of scarce building materials like cement & steel. In view of the importance attached to housing & construction statistics, construction surveys has to be taken up periodically in the coming years. It is decided to attempt a detailed survey during 1980-81 about the construction activities undertaken by the household and private non-household agencies.

#### Method of Survey:-

The term construction is used to cover both the building and non building construction. In building construction new construction as well as addition, alternation & improvement to existing buildings will be considered. The non-building construction will cover construction of cattlesheds and godowns (other than satisfying the definition of building), wells, tubewells, roads, irrigation projects, laying of pipelines, drainage and sanitary project, water supply, bridges, culverts, laying of plantation etc.

The study will be conducted through site approach by which construction works identified at their sites in selected sample of rural/urban areas will be studied. The agencies carrying out the selected construction works will be contacted and the required information collected through interview.

Period of Survey. The Field work of the Survey will be started from 15-11-1980. Necessary training will be imported prior to that. Since the intensity of construction activity varies from season to season, the survey will be done for 12 months so as to cover all types of construction activities.

Staff personal For the collection of data on construction activity, the agencies who are in charge of the activities are to be selected. For this a house listing operation is to be carried out in the selected ward. From the above, agencies who are in charge of the selected construction has to be contacted individually and necessary information gathered through enquiry and wherever possible by referring the records.

Contd.....



### Sample design and selection for the Survey

Multi-stage sampling design is adopted for the survey. The total sample size is fixed as 300 units (260 rural units and 40 urban units). Each unit will be a Panchayat ward/Urban Ward. If the selected ward has more than 500 houses, hamlet selection will be made to form viable units. These 260 rural units distributed in the Panchayats of the 14 districts in proportion to the number of new constructions made in the last two years. Again within the district the Panchayat ward will be selected with probability proportional to size, the size being the number of new construction during the last two years. The 40 urban units will be selected on the same manner.

In each unit all the construction works will be listed. The construction done by the corporate sector and the public sector and also those involving an expenditure of less than one hundred Rupees will be excluded from the coverage of the survey. In respect of laying of plantations and orchards, those area which are less than 25 cents are also excluded.

The constructions eligible for the survey will be divided into two sub-strata building and non-building. A sample of 4 building constructions will be selected circular systematically in respect of each of the 5 subgroups. Whereas all the non-building constructions in the sample will be included. Distribution of units in the various districts is as below.

Name of districts	No. of Samples		Total	No. of Investigators	Remarks
	Rural	Urban			
1. Trivandrum	29	8	37	3	
2. Quilon	34	3	37	3	
3. Alleppey	31	5	36	3	
4. Kottayam	21	2	23	2	
5. Idukki	15	1	16	2	
6. Ernakulam	24	8	32	3	6 Samples will be allotted to the Investigators in Ernakulam.
7. Trichur	28	4	32	2	
8. Palghat	15	1	16	1	3 samples will be allotted to one Investigator in Malappuram.
9. Malappuram	21	1	22	2	
10. Kozhikode	20	5	25	2	
11. Cannanore	22	2	24	2	
Total	260	40	300	25	

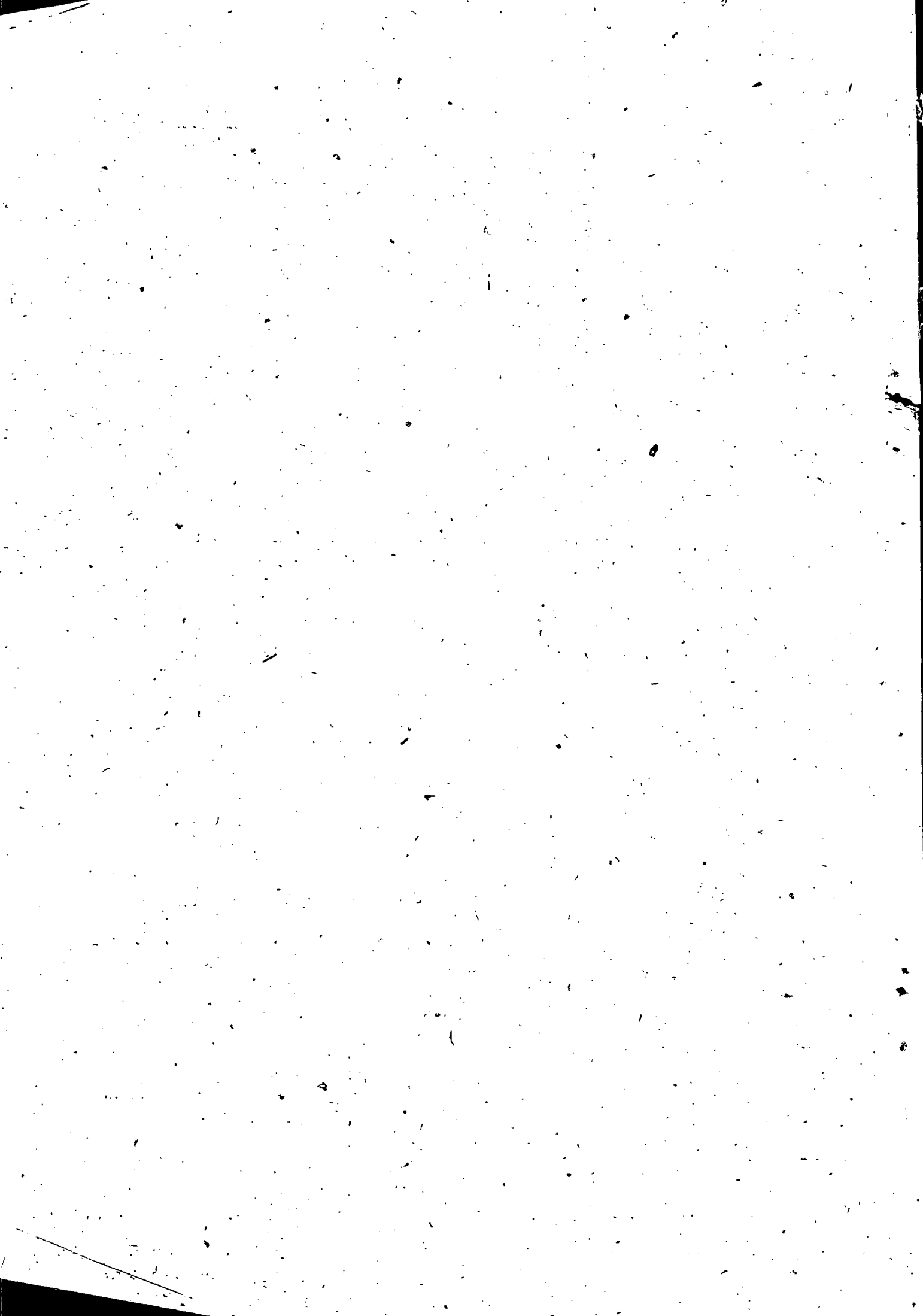
### Section 2.

#### Schedule - 1. List of households.

Instruction. Schedule-1 is meant for listing all the households in the sample unit (or selected hamlet group) for preparing the sampling frame and recording the details of selection of households for schedule-2. (detailed enumeration schedule) for the various sub-groups.

Contd.....





2. Household: A group of persons normally living together and taking food from a common kitchen will constitute a household. A household may contain one or more members. Members of a household may be related or not related.

3. Building A building is an independent free standing structure comprising of one or more rooms and/or other spaces covered by a roof and usually enclosed within external walls or dividing walls which extend from the foundation to the roof. Dividing walls refer to the walls of the adjoining buildings i.e. dividing walls of a row-houses. If more than one physically separated structure constitute one living unit, all of them together will be treated as a building.

20.17. New construction New construction is defined as the erection of an entirely new structure irrespective of whether the site on which it is built is already occupied or not.

20.18. Addition & alteration

Addition & alteration of building is defined as the extension and/or the betterment of the existing structures. Such work is intended to increase the usefulness of the structures by making provision for additional floor space and/or amenities or it extends the life of the structures.

Replacement, renewal & improvements

Any type of remodelling or renovation is to be treated as replacement, renewal & improvement.

Repairs & maintenance

Repairs & maintenance whether major or minor come in this group.

20.19. Building construction

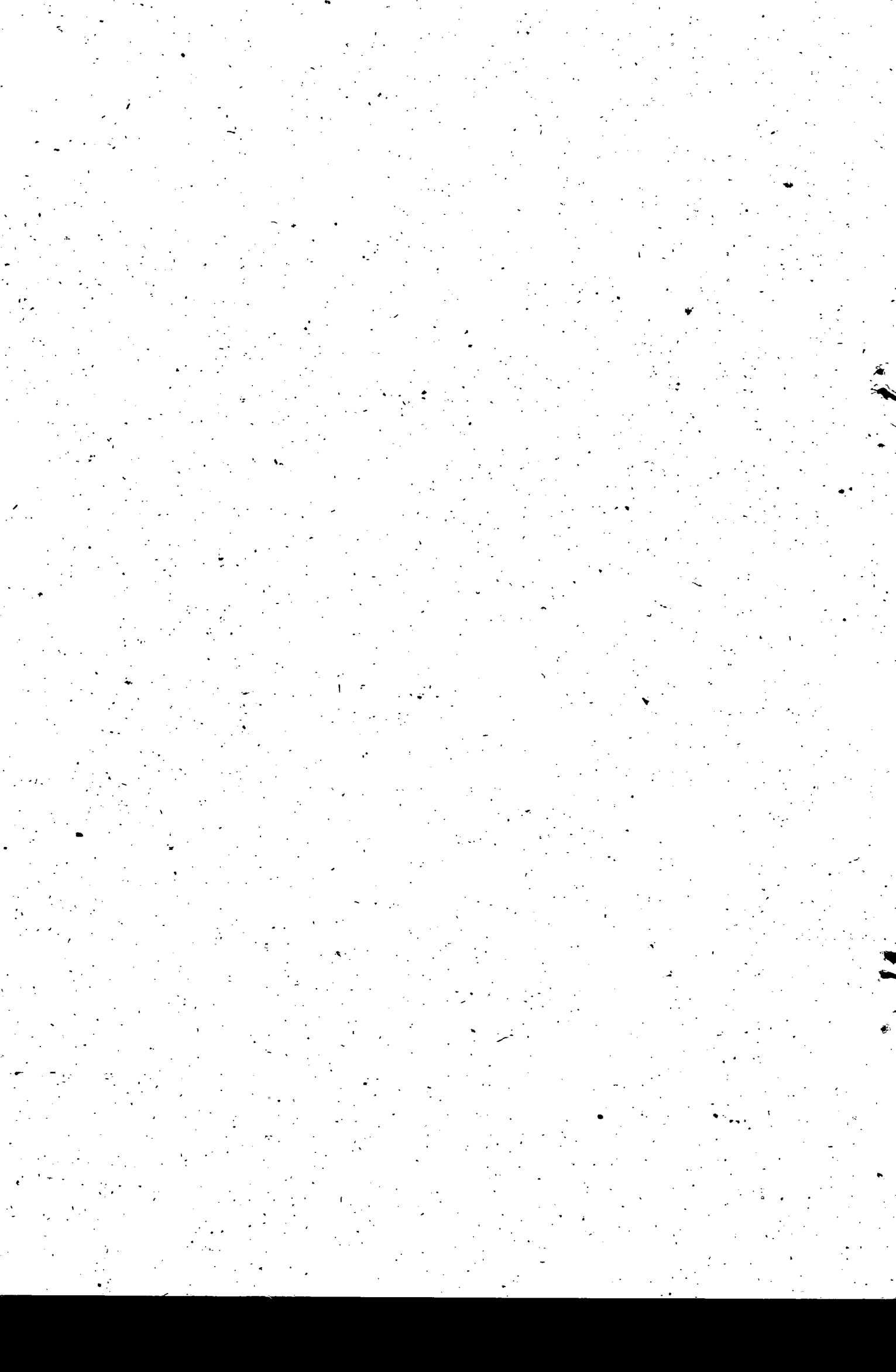
New construction of a building or addition etc. of a building will be considered as building construction. If the compound wall is constructed not for house protection then it will be non-building construction work.

20.20. Non-building construction:

This is defined as other than building construction. It covers construction of cattle sheds, wells, tube-wells, roads, irrigation projects, station platforms, godowns, laying of railway lines and railbeds, laying of cables for telephones, telegraph and electricity generation, sewers, pipe lines, drainage and sanitation project water supply, bridges, culverts etc. Cattle sheds and godowns which satisfy the definition of a building as given above will be considered as building construction.

20.21. Type of structure:

Structures can be classified into three categories namely pucca, semi-pucca and katcha on the basis of the materials used for construction. A pucca structure is one whose walls and roof at least are made of pucca materials. A katcha structure is one which has walls and roof made of non-pucca materials. A semi-pucca structure is one which cannot be classified as either a pucca or a katcha structure as per above definition. Such a structure will have either the walls or the roof, but not both made of pucca materials. If a building consists of different types of structures, the determination of its type will be based on the type of structure which covers the



In respect of non-building construction observed the details required in Block VIII also to be collected along with the listing operation. Details of hamlet group selection will be recorded in this schedule where needed.

Unit of Survey: The unit of Survey is the Panchayat/Town ward. On arriving at a sample ward the Investigator is to ascertain first the exact boundaries of the sample ward mentioned in the rural/urban list.

Number of hamlet groups

Hamlet group selection will be done in villages having large population to control the work load mainly at the stage of listing of households. A large ward having more than 500 houses will be divided into certain number of sub divisions called 'Hamlet group' only one of which will be selected at random with equal probability and the survey will be confined to the selected hamlet group only. The Investigator will first ascertain approximately the present number of houses of the sample ward to be surveyed. Thus the number of hamlet groups to be formed will be divided as follows.

<u>Approximate present houses</u> <u>of the sample village</u>	<u>Number of hamlet groups</u> <u>to be formed.</u>
Upto 500	1
500 - 1000	2
1000 - 1500	3
1500 - 2000 and above	4

Formation and Selection of hamlet groups

In large samples there exist usually a few localities or pockets where the houses of the village tend to cluster together. These are called hamlets. For a sample ward requiring hamlet group selection all such hamlets will be listed starting from the north-west corner of the village and then proceeding south wards and then in a serpentine order. Then the required number of hamlet groups will be formed by grouping geographically contiguous hamlets such that all hamlet groups so formed have about the same number of households and have clear geographic boundaries. In addition the total village area including open area should be so divided among the hamlet groups that each plot of land (whether it is residential or not) belongs to one and only one hamlet group. Then one of these hamlet groups will be selected at random for the purpose of the survey.

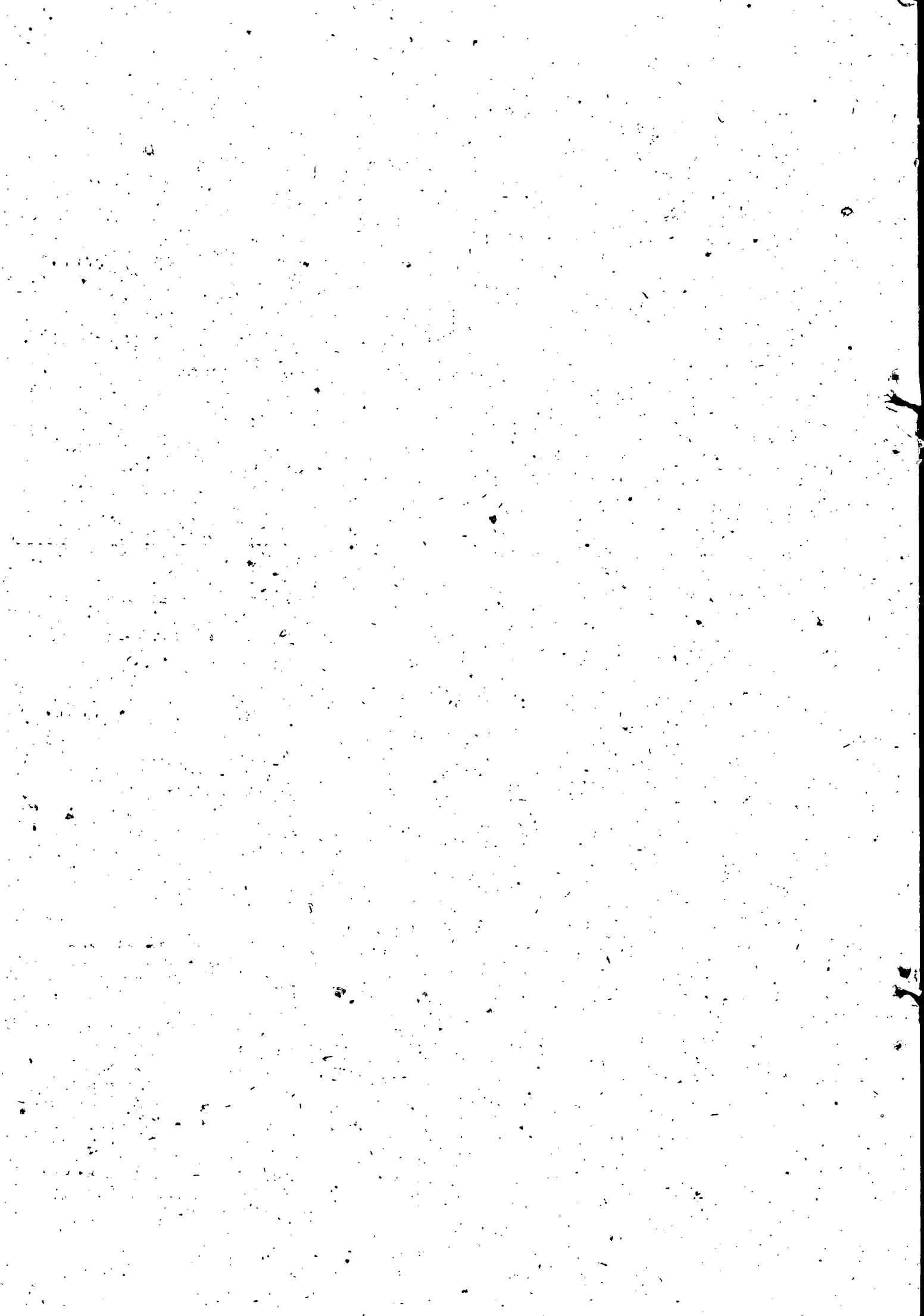
Starting point for listing:

The listing may be done in the order in which the Panchayat/Town house numbering is done.

Definition.

Some broad information about the households and constructions will have to be collected during listing. This mainly is to identify the households and constructions relevant for different schedules of enquiry. The definitions of the terms required in this connection are given below.

1. House: Every structure, tent, shelter etc. is a house irrespective of its use. It may be used for residential or non-residential purpose, or both, or may be vacant.



major floor area. Walls/roof made partially or wholly of pucca materials will be regarded as Katcha walls/roof. Materials such as brick, stone-blocks, cement, concrete, jack-board (cement plastered), tiles and timber are pucca materials. Corrugated iron or asbestos sheets used in the construction of roof will also be treated as pucca materials.

#### 20.22. Construction work:

The second-stage sampling unit for the construction survey is construction work. A construction work is defined as any building or non-building structure on which some expenditure on construction has been incurred during the 365 days preceding the date of survey. In the case of buildings, Katcha, pucca and semi-pucca constructions will be covered in this survey. Further, a construction work will refer to the whole house, irrespective of the number of households or establishments occupying it. However, if portions of the house were under different owners at the time the construction work was undertaken, the portion owned by each owner will be treated as a separate construction work. As regards non-building constructions, each item of construction (Such as well, etc.) will be treated as one construction work.

#### 20.24. Sampling of construction works:

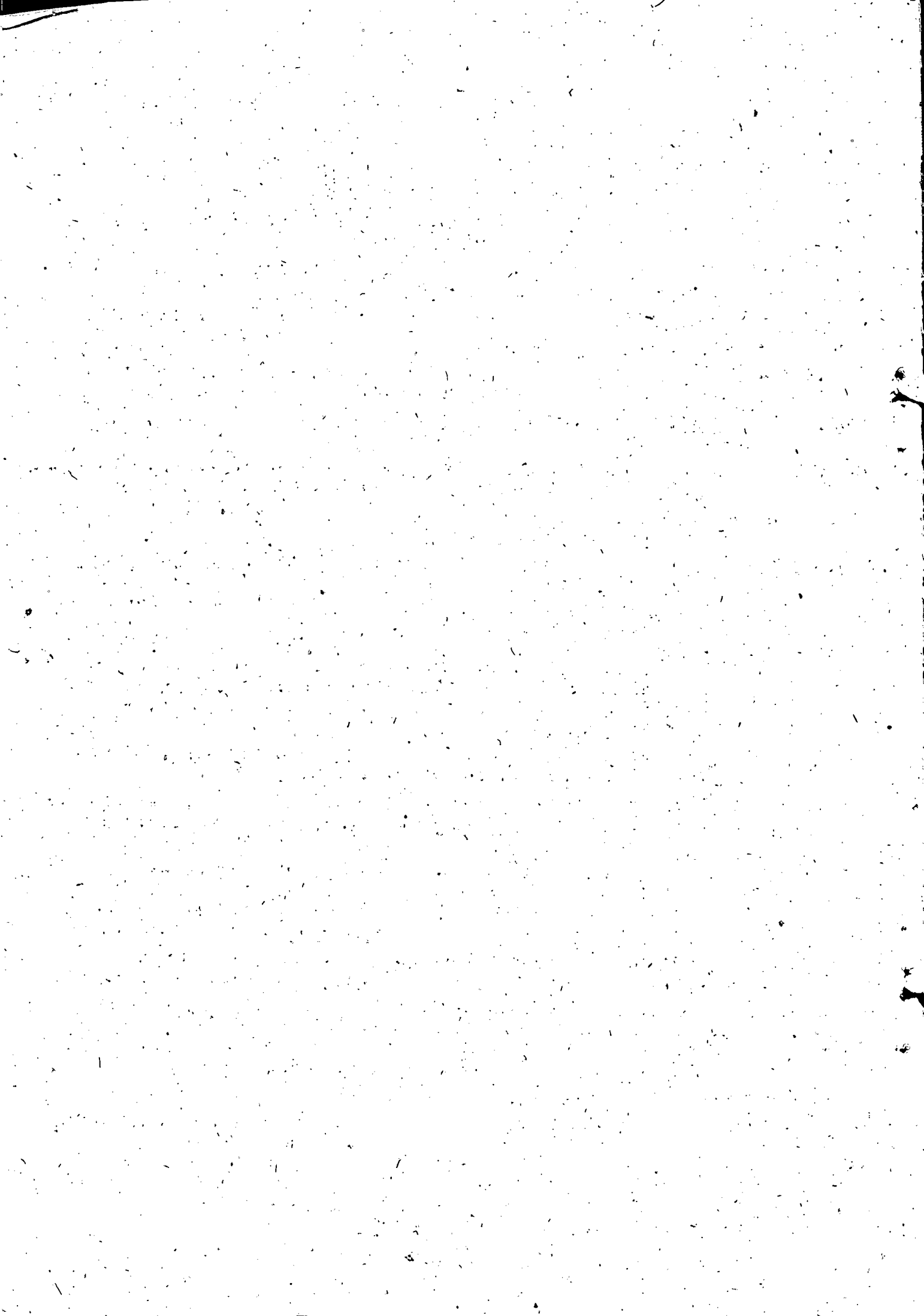
The construction work done by households, housing co-operatives and other non-household organisations (excluding the public sector and the corporate sector) and involving an expenditure of one hundred rupees or more during last 365 days, will be covered by this survey. Such construction works will be divided into two substrata: building and non-building. A sample of 4 building construction will be selected systematically for each of the 4 sub groups and all non-building constructions will be surveyed.

#### The Schedule:      The Schedule Contains

Block I	- Identification of selected ward/unit
Block II	- Particulars of field work
Block III	- Details of hamlet selection
Block IV	- Notional map of the unit
Block V	- List of households and constructions and record of selection.
Block VI	- Details of selection of households
Block VII	- Remarks of the Investigator
Block VIII	- Comments of the Supervisor
Blocks I to IV	- Columns are self explanatory

#### Block V -

- Col. 1 - All filled in lines will be given a running serial number in the columns, one line will be required for each house/household/construction. This column will be filled up after filling columns 2 to 25.
- Col. 2 - House No. All houses including vacant and unfurnished houses will be listed in this column. The latest house numbers given by the Panchayat/Municipality will be entered. In case such a house number is not available for some houses especially for new constructions of completed partly put the house number of the nearby house with the letter N affixed after the house No.
- Col. 3 - Household no. If more than one household live in the same structure with in the same house no. put separate household no. for each household.



- Col.4 - Name of head of Household: The name of the person who is managing the household affairs may be written.
- Col.5 - Number of Members: Number of usually resident members may be written in respect of occupied houses.
- Col.6 - House type: Classify the structure as per code given in (a) and put the appropriate code
- Col.7 - Wall type: -do- code given in (b)
- Col.8 - Roof type: -do- " in (c)
- Col.9\* - No. of living rooms: Write the total no. of enclosed rooms including kitchen but excluding toilets etc.
- Col.10 - Plinth area: The plinth area of the building may be noted in Sq. metres.
- Col.11 & 12 - Land possessed. Classify the land possessed as per codes given in (d) and write the extent in nearest cents.
- Col.13 & 14 - Construction type. Give the description and put the appropriate code given in (e)
- Col.15 & 16 - In respect of new constructions done during the preceding 365 days ascertain the ownership and write the appropriate code in (8). Total cost incurred during the previous 365 days will be recorded.
- Col.17-20. Separate serial nos. are to be given for each of the construction types 11,12,21,22. So a tick mark may be made in the concerned columns for each entry in col. 12 and finally serial nos. may be given to each group separately.
- Col.21-24. The households selected in each group 11,12,21,22 may be noted in these columns.
- Co., 25. Remarks. Difficulties if any, observed in enumeration of the household may be noted in this column against each house no.

Block VI. This block is intended for noting details of selection of households for each category in the construction type 11, 12, 21, 22. 4 households are to be selected from each group in systematic sampling method using a random start.

Block VII. Remarks of the Investigator - General remarks of the Investigator should be written in detail in this Block.

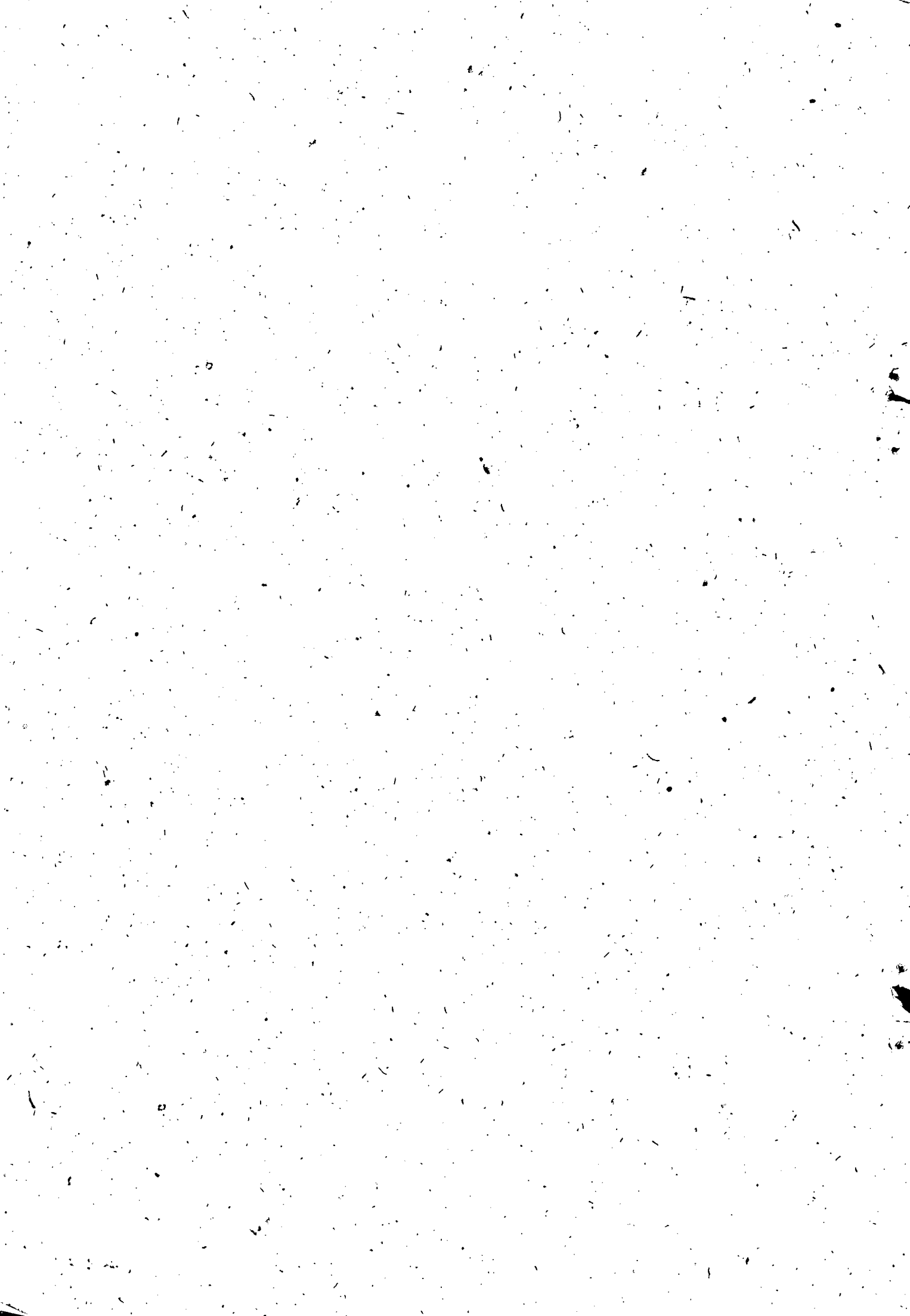
Block VIII. The comments of the supervisor about the listing work should be noted here. The households inspected and the defects noted if any, and the action taken to rectify the defects also should be noted in this Block.

Block VIII of the detailed enumeration schedule.

This block is also to be filled in at the time of the listing operations. The details required in respect of construction activities on non-building sector (in codes 31 to 39) have to be collected in this block. Wherever a case of non-building construction activity is noted in a household or a piece of land the relevant details are to be collected from the appropriate person.

The columns are self explanatory







8: Total/estimated total cost of construction.

The concept of cost here is slightly different from what is usually understood. Here the cost of purchase or procurement of only that part of the total materials, labour and services hired which have actually been utilized in the construction, will be considered. The unused items if any, will be left out of the estimation of cost to be recorded against this item. Such an estimation will likely be an approximate one. For such constructions which started earlier than the reference period and have been completed till the day preceding the date of survey, the actual cost incurred for the construction will be recorded. For the constructions, started and completed within the reference period, the total cost as against the entry in item 14 will be the same in the entry here. In other cases, when the work is not complete (and might have started before or during the reference period), the actual cost incurred from the date of commencement till the day preceding the date of survey plus the approximate expected cost to be incurred to complete the work will be recorded against this item in rupees. The total cost will also include the cost of demolition for the purpose of construction. In the case of building construction the value of land on which the construction stands will not be included in the cost to be recorded against this item. The cost of building materials, labour, services etc. will be properly evaluated.

9: Proportion of the work completed.

An approximate or rough figure on the part of the work completed from the time of commencement of the work of the date of investigation will be recorded against this item in terms of percentage, such as 10%, 25%, 60% etc. obviously the percentage is to be calculated taking the estimated cost of the total work as 100.

10. Proportion of work done during the reference year.

The proportion of total work completed during the 365 days preceding the date of survey, in terms of percentage is to be recorded against this item in the same manner as explained in para 14.3.10 above.

11. Whether sanction required as per municipal rules.

Whether sanction of some appropriate sanctioning authority is required, as per municipal rules, for the types of construction under survey, is to be ascertained and the information obtained is to be recorded in terms of codes. Code 1, will be recorded if sanction is required, as per municipal rules. If no such sanction is required, code 2 is to be entered against this item.

12. Month and Year of sanction.

If sanction has been obtained for the construction work under survey, the month and year of sanction may be noted here.

13. Record in the code given in (f)

14. Record in the code given in (g)

15. Record in the code given in (h)

16. Note the no. of living rooms (closed) including kitchens but excluding toilets etc.

17. The plinth area may be noted in sq. meters.



Expenditure on construction work during last year

This block is meant for recording (a) the cost of construction incurred during the reference period of 365 days preceding the date of survey in the form of value of (i) the materials used, (ii) wages payable to the labour used and (iii) the charges payable to the service used and (b) the quantity of items of expenditure in terms of standard units specified on the body of the schedule. It may be noted that here the expenditure will relate only to the items and amount actually used in the construction work during the reference period of 365 days. Any item of expenditure relating to the material, labour, services etc. purchased/hired or procured otherwise but not used in the construction will not be taken account of in recording entries here. That is to say, only that part of the expenditure which has been actually utilized for the construction will be entered against the relevant items.

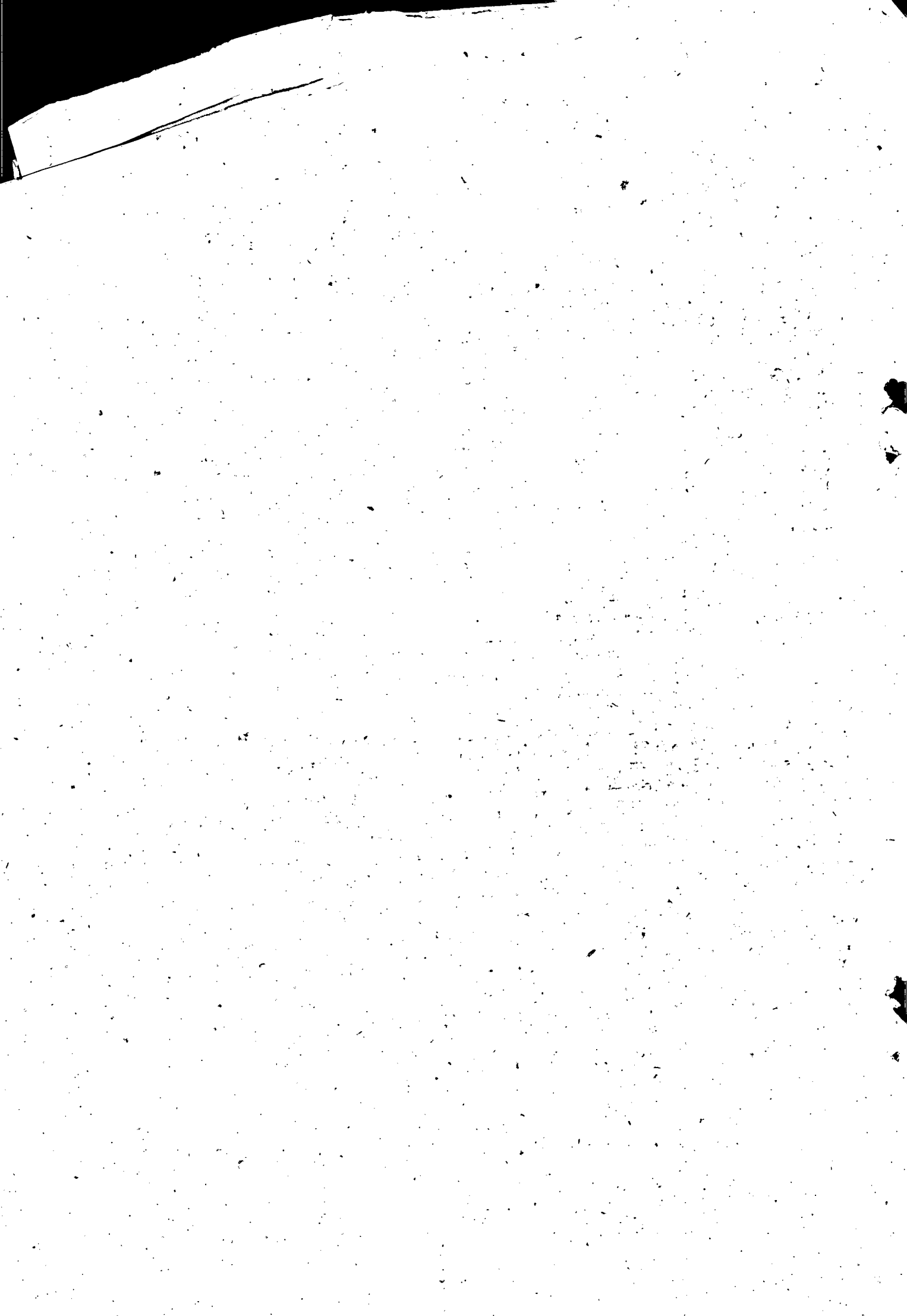
The different items of expenditure are listed in col. (1) of this block. In Col. (2) the standard unit in which the quantity of the item is normally measured is specified for those items for which quantity concept is relevant. It is also to be noted that for some items the quantity of measurement in the local unit may differ from the standard unit as mentioned in this block. In such cases the quantity of expenditure in the local unit may be converted into quantity in standard unit and entered in col. (3). In no case should the printed standard unit be cancelled or altered. Col. (3) of the block is meant to record the quantity of consumption of the items in the specified standard unit of measure. Quantity of individual items specified in col. (1) should be recorded in the nearest whole number of the standard unit. Col. (4) is meant to record the value of expenditure incurred in terms of whole number of rupees.

Materials:

The materials used will relate to the cash or credit purchase of materials, materials received as gift and those obtained from home, free collection etc. and used for the construction work under investigation. The expenditure on materials purchased will mean the actual expenditure including the amount due to creditors for the purchase of the relevant construction materials. The materials received as gift will be evaluated at the market price prevailing at the time of use of the item. Materials supplied from home will be evaluated at the ex-farm/ex-factory price prevailing at the time of its use. For materials obtained as free-collection and used in the construction only the transport charge and the related hired and household labour will be evaluated and recorded. Also it is not un-common to find old and used materials (recovered from old buildings) being utilised for construction works. The evaluation of such materials and the value of these materials, thus obtained, will be lumped together and entered against item 29. This item will also be included in the total against item 30. Care must be taken to evaluate only that part of the materials which has been used in the construction work, irrespective of whether that was obtained prior to or within the reference period. The description of some important items of materials has been listed in the schedule itself against serial nos. 1 to 28. Still some extra lines (I-V) have been provided to record such items as are not specified in the Block against serial No.27.

Labour:

Information on both hired and household labour is to be recorded under labour, against serial Nos. 31 and 32 respectively.



Expenditure incurred on hired labour unskilled & skilled (carpenter, mason, bricklayer, floor layer, tile layer, blacksmith, fitter, electrician painter, bulldozer operator, crane operator etc.) will mean the expenditure actually incurred (including the amount due to the labour) by way of cash and kind payment for only the work undertaken during the period of reference. The kind payment will be evaluated at the current retail price, Household labour will be evaluated at the wage rate prevailing at the time of construction taking into account the type of work rendered by the household members as the prevailing wage rate is likely to be different for different types of work.

#### Service charges

Expenditure incurred (including payment due) on account of industrial or personal services and municipal and other taxes and fees will be considered for recording entries against this head under serial Nos. 34 to 38. Only a few services are listed in the block. For those which are not itemised, a lumped figure for all services used, will be recorded against serial No. 38. These services include the industrial and/or personal services of the owner household utilized for the construction work. The household service will be evaluated at the current market price of such services.

Fixed assets: The expenditure incurred by the construction agency for incurring fixed assets may be noted in this block.

#### Description of the work done during last year

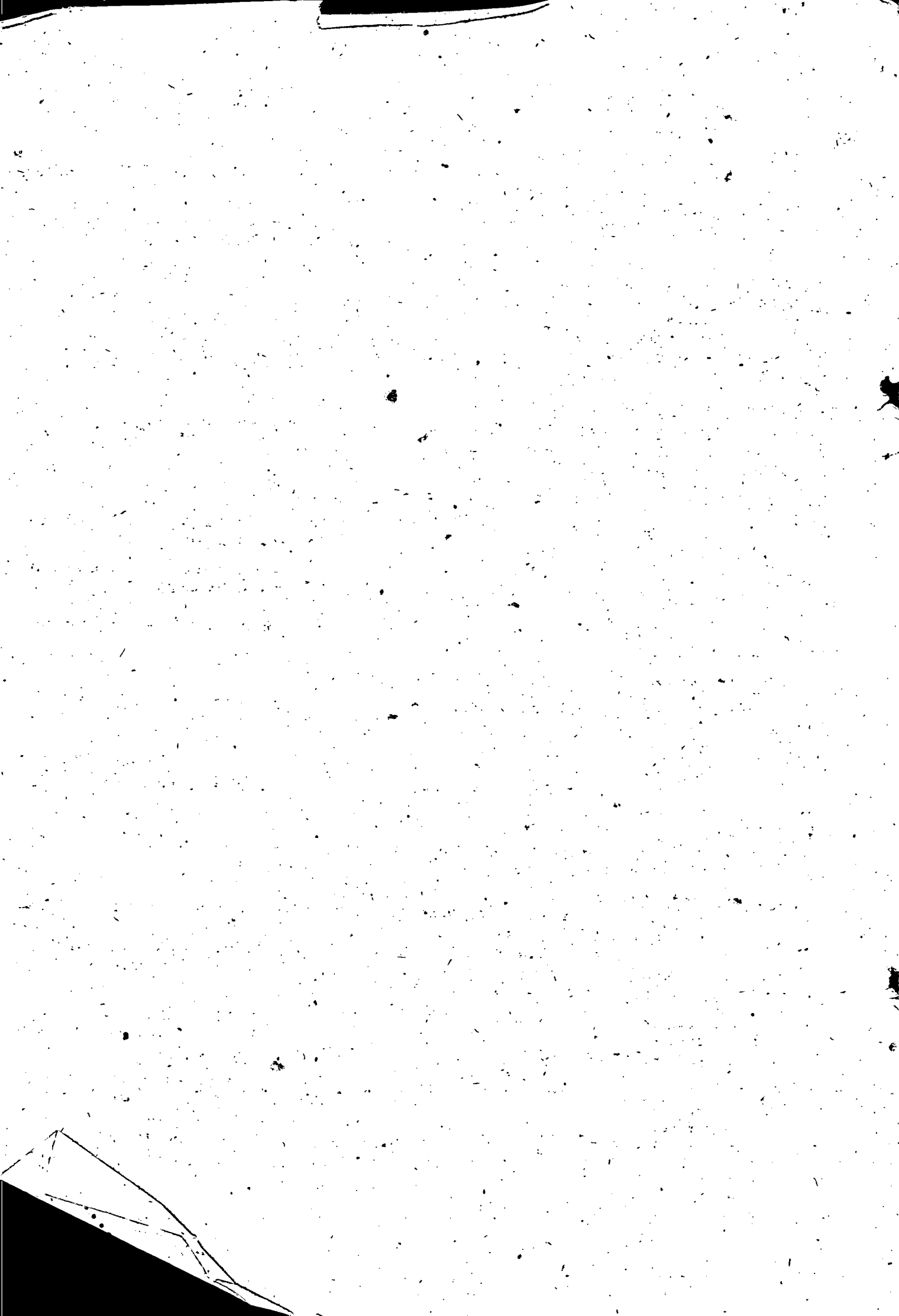
This block provides a blank space. A brief description of that part of the work on construction (building addition, alteration etc. which has been done during the reference period (365 days ending on the day previous to the date of enquiry) should be given in the space provided in this block. The description should be such as to give a fairly good idea of the dimension and quality of the construction. To illustrate, the information will be of the following type: (i) work not yet started (ii) construction of plinth in progress, over half of the work relating to construction of plinth completed, (iii) plinth completed; more than 3/4 of walls completed, (iv) building complete, plastering yet to be done, (v) no work done during the reference period, (vi) some work relating to minor repairing done (this expenditure will not be accounted for in the schedule), (vii) 75 p.c. of the work relating to alteration completed (viii) digging of the earth completed, brick work still to be done etc. etc.

In this connection, it would be borne in mind that the actual expenses for the construction work done during the reference period of 365 days is being collected in item 14 of block V of listing schedule and so the description given in this block will naturally relate to this data on expenses collected in that block.

#### Source of finance

In this block will be recorded the sources of finance of the construction work. Different sources are listed in the blocks under three heads, namely (i) borrowing from employer, (ii) borrowing from other sources and (iii) other sources which are not borrowing. Items 1 to 4 relate to the borrowing from different employers and item 5 is the sub-total of these four items. Items 6 to 16 relate to borrowing from other sources and item 17 is the sub-total of these items. For items 1 to 4 and 6 to 16 the amount borrowed in rupees, rate of interest per annum in two places of decimal and period for full re-payment in months including the interest payable will be recorded in column 2, 3 and 4 respectively. The amount borrowed

Contd.





might have been fully or partly spent for construction work. However, less the total amount of loan used or to be used in the account. The work will be entered irrespective of the purpose for which the loan was initially taken. The finance required for the purchase of land for building construction will not be considered in this block. Items 18 to 23 relate to savings and other sources which are not borrowing. For these only the amount spent will be recorded. And this will also include advance payment made for materials, labour and services but will exclude the value of credit purchase and payment due to labour not for services. Items of this block are self explanatory. However, some items are explained below for the sake of clarity.

**Item 23: Others:**

Current income by way of salary, monthly pension profession, cash in hand and any other non-borrowed income not considered elsewhere will be considered here.

**Block VIII.** See the instructions for the listing schedule

**Block IX.** The difficulties observed and the special problems if any confronted by the Investigator may be noted in this Block.

**Block X.** The comments of the supervisor at the time of inspection and scrutiny should be noted here in detail.

Some important concepts and definitions adopted for the survey on construction are given below:-

Type of structure

The structures have been classified into three categories namely, pucca, kutcha and semi-pucca on the basis of the materials used for construction.

Pucca structure:

A pucca structure is one whose walls and roof at least are made of pucca materials.

Kutcha structure

A kutcha structure is one which has walls and roof made of non-pucca materials.

Semi-pucca structure:

A semi-pucca structure is one which cannot be classified as a pucca or a kutcha structure as per above definition. Such a structure will have either the walls or the roof, but not both made of pucca materials. Walls/roof made partially of pucca materials will be regarded as kutcha walls/roof.

If a building (living unit) consists of different types of structures, the determination of its type will be based on the type of structure which covers the major floor area of the building.

Materials such as oven-burnt bricks, stone, stone-blocks, cement, concrete, jack board (cement plastered read) tiles and timber are pucca materials. Corrugated iron or asbestos sheets used in the construction of roof will also be treated as pucca materials.



Codes listing schedule

Col.6 (a) Thatched huts - 1

Old dilapidated houses (age above 50 years) 2 - semi pucca structures with plinth area less than 20 M<sup>2</sup> 3. Semi pucca structures with plinth area 20 - 50 M<sup>2</sup> 4. Semi pucca structures with plinth area above 50 M<sup>2</sup> - 5. Pucca structures below 20 M<sup>2</sup> - 6. Pucca structure 20 M<sup>2</sup> - 50 M<sup>2</sup> - 7 - pucca buildings above 50 M<sup>2</sup> - 8

Col.7(b) Wall type - Leaves or grass - 1 mud & unburnt bricks - (2) Burnt bricks & stone - 3 Concrete - 4 - Others. 5

Col.8(c) Roof type - Thatched with leaves or grass-1, tiles, asbestos-2 partly tiles or asbestos & concrete - 3 concrete - 4 - others - 5.

Col. 13 & 14 - New building - Kutcha (huts) - 11 - Pucca & Semi-Pucca - 12

Building addition & alteration - 21.

" replacement, renewal & improvements - 22

" repairs & maintenance - 22

Non-building works -

Pucca roads, bridges & culverts - 31, playgrounds, Stadia, Swimming pools and other recreation facilities - 32, pucca wells, tube wells and tanks - 33, Kutcha wells, ponds, tanks, embankments, check dams, channels and other irrigation works - 34, Kutcha roads bunding raising & levelling of land and other land improvement works - 35; laying orchards & plantations - 36; installation of industrial plants - 37; Cattle sheds, poultry sheds, other sheds and platforms - 38 others - 39.

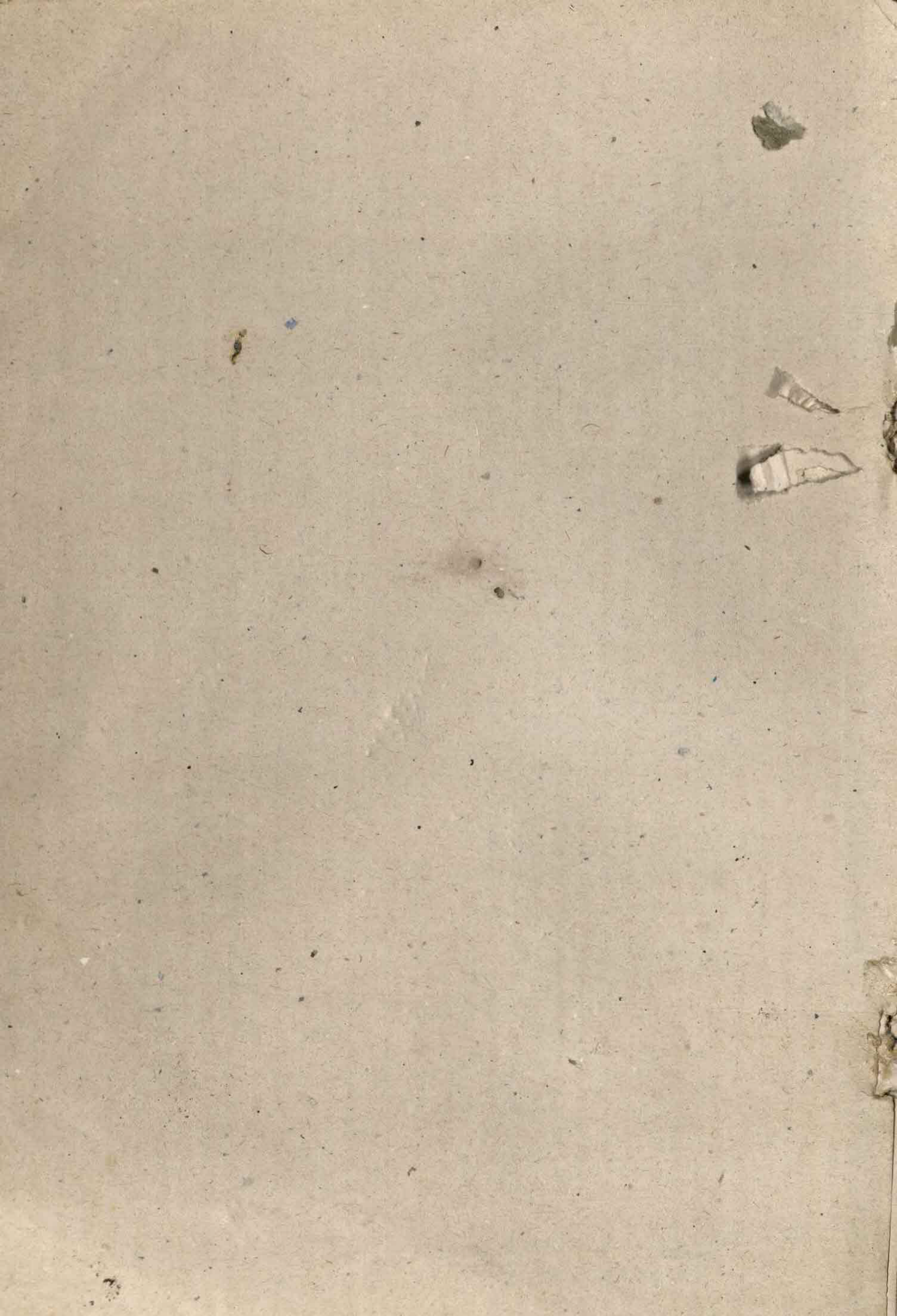
Col. 11 & 12 (d) - Land possessed - owned - 1, leased in - 2 Kudikidappu - 3 - Others (specify) - 4

Col. 15 (f) - Household - 1, Private non-household organisation (other than housing co-operatives and corporate sector) - 2 housing co-operatives - 3 - Private corporate sector - 4. Public Sector - 5



Codes - Detailed enumeration schedule

- (a) Nature of construction code (1) New building - Kutcha (huts) - 11 Pucca, Semi-pucca - 12.
- (ii) Building - Addition alteration - 21  
" - replacement, renewal & improvements - 22  
" - repairs & maintenance - 22
- (b) Construction Agency Code - Household-1, housing co-operative-2 educational institution-3, religious institutions - 4, Trust, Club, political party, Society etc. - 5. Others - 6
- (c) Construction responsibility code - Owner undertaking construction with household labour - 1 paid labour - 2, wholly on contract-3. Partly on contract - 4.
- (d) Type of construction code - Kutcha (hut) -1; Semi pucca - 2 Pucca - 3.
- (e) Purpose Code - residential - 01, industrial - 02, Commercial - 03, agricultural - 04, educational - 05 health - 06, other institutional - 07, residential-cum-industrial - 08; residential-cum-commercial - 09 residential-cum-agricultural - 10, Others - 99.
- (f) House type - Thatched huts-1, old dilapidated houses (age (above 50 years) - 2 - Semi pucca structure with plinth area less than 20 M<sup>2</sup> - 3; Semi pucca structure with plinth area 20-50 M<sup>2</sup> - 4; Semi pucca structure with plinth area above 50 M<sup>2</sup> - 5 Pucca structure below 20 M<sup>2</sup> - 6; Pucca structure - 20 - 50 M<sup>2</sup> - 7. pucca buildings above 50 M<sup>2</sup> - 8
- (g) Wall type - leaves or grass-1, mud & unburnt bricks - 2 - Burnt bricks & stone - 3 - Concrete - 4 - Others - 5
- (h) Roof type - Thatched with leaves or groos - 1; tiles or Asbestos - 2 - partly tiles or asbestos & concrete - 3 - Concrete - 4. Others - 5



6. 11. 6

