Slum Improvement and Upgradation Project for Trivandrum, Cochin and Calicut

Vol. III

Report on Household Survey

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Slum Improvement and Upgradation Project for Trivandrum, Cochin and Calicut

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CHAPTER I

INTRODUCTION

- 1.1 Analysis of slum formation in the three cities of Trivandrum, Cochin and Calicut reveals that though the proportion of population living in slums is still modest, the growth in it appears to be quite pronounced. Thus, the cities of Trivandrum and Cochin have only 6.81% and 5.81% of population living in slums respectively. Calicut, however, seems to be an exception to the overall low level of slum population in Kerala in general and in the two above mentioned cities in particular. About onefifth (19.61%) of its total population is living in slums. situation of slum formation appears to be alarming especially in Cochin where the slum population has grown at a run-away rate growth of 135% between 1985 and 1990. The growth rates for cities of Trivandrum and Calicut during the same period 15.67% and 11.14% respectively. Thus, whereas the process slum formation in Cochin is alarmingly rapid, the cities Trivandrum and Calicut have been experiencing a high rate growth in slum population.
- 1.2 Slum formation, the status of services available, structural conditions of shelter and other physical aspects of slum situation have already been analysed in the preliminary 1 report. As an understanding of the socio-economic conditions of slum dwellers is basic to devising of a strategy for improvement of living conditions of slum dwellers, a household sruvey was

NIUA, <u>Slum Improvement and Upgradation Project for Trivandrum, Cochin and Calicut: Preliminary Report</u>, 1990.

conducted in the three cities in August, 1990 based on a sample of 1000 households allocated to the three cities.

The Sample

- The size of sample was fixed at 1000 under the Terms of 1.3 Reference of the project. The sampling of slums to be selected for the survey as also the selection of respondent households within the sample slums were done in four stages. At the stage. the sample of 1000 was itself allocated to the three cities on the basis of ratios of slum households in the three cities individually to the total slum households in the cities taken together. Thus as Trivandrum has about 26% of the total households in the three cities, a sample of 260 households was allocated to the city of Trivandrum. Likewise, 380 households were allocated to Cochin and 360 to Calicut.
- 1.4 At the second stage, the slum households were allocated in the three different cities on the basis of the proportion of different types of slums to the total number of slum in each With a view to evolve a typology of slums, the settlements were first grouped into three distinct types on the basis of structural conditions. The three types were (1) Slums predominantly pucca structures, (2)Slums having predominantly semi-pucca structures, and (3) Slums having predominantly kutcha structures. Slums with more than pucca, semi-pucca and kutcha structures were treated as predominantly pucca, semi-pucca and kutcha structures.

^{2.} Kerala Urban Development Project, <u>Terms of Reference for Slum Upgrading Studies</u>, Para 3.8.

after grouping all the slums into these three broad categories, the slums in each category were further subgrouped into six categories on the basis of the number of services available out of six basic and core urban services like potable water, street lighting, drainage (pucca drain), surfaced roads and streets and sanitation including conservancy and arrangement for the disposal of town refuse. Existence of all the five services constituted the first group. Slums having only four services constituted the second group, and thus the number of groups in each type went on increasing till there did not exist in the slum any services at all. Slums not having any of the five services constituted the sixth group. Thus each type had six groups of slums.

- The number of households allocated to the three cities was thus re-allocated to the three broad types of slums in each city on the basis of the proportion of the three types of slums in the three cities. Since predominantly pucca slums constituted 33% of the total slums in Calicut, 33% of 380 sample households were allocated to this type. Predominantly semi-pucca and katcha slums were allocated 31% and 36% respectively of 380.
- 1.6 At the third stage, the sample households allocated to the three different types of slums based on structural conditions were again reallocated to the six groups of slums based on availability of services. Thus, 36% of 380 households (137 households) in Calicut were reallocated amongst the different groups within this type according to the ratios of the six groups of slums. At the fourth and final stage, sample slums were selected randomly.

- 1.7 In all, 36 slums were selected in the three cities.

 Of these, six were in Trivandrum, 16 in Cochin and 14 in Calicut.

 The names of sample slums are mentioned in Appendix A.
- In addition to the Household Survey, a survey of all 1.8 the sample slum settlments was also conducted to collect the physical area, number of households, population, social groups, services provided in the sample slums, the status of land ownership and tenure system as also the slum dwellers' perception and views on the services provided, the extent of operation and maintenance, affordability and so on. These information were collected by administering a seperate set of structured questionnaire. The factual data on the area, households, services provided were collected from the Municipal Corporation in the three cities. Perception of slum dwellers on services, operation and maintenance, community participation in improvement and maintenance etc. were collected by discussing these things with the slum dwellers. Survey of sample slum settlements provided useful insights into the nature of problems of the slum dwellers living in the sample slums.

CHAPTER II

HOUSEHOLD PROFILE

Religion

As mentioned earlier, in all, 1000 households were surveyed in the three cities of Calicut, Cochin and Trivandrum. Distribution of 1000 households according to religion presented in table 2.1. It is seen in this table that the slums of the three cities taken together have the predominance of A little less than one half (47%) of the total sample households belong to Islam. Hindus with 38.70% come next to the slum dwellers having faith in Islam. Christians with 14.10% happen to be in minority. However, taking the three cities individually only Calicut and Cochin seem to have the dominance of Islam as a religion. More than three-fourth (76.58%) of the slum dwellers in Calicut and a little less than half of them (46.11%) in Cochin belong to Islam. Trivandrum, however, is dominated by the Hindus as more than two third (69.23%) of the slum dwellers are Hindus. Whereas the cities of Calicut and Cochin have Hindus as the second largest group of communities, in Trivandrum, it is the Christianity as one-fourth of the sample slums belong to this religion. In Cochin though one-third of the total slum dwellers belong to Hinduism, it has substantial Christan population as well (20%).

Caste

2.2 As the slum improvement programme is disposed towards the improvement of slums having scheduled caste (SC) and

scheduled tribes (ST), an attempt was made to understand the caste composition of slum dwellers in terms of SC and ST only. In the three cities taken together, only a minuscule proportion (17%) of the total slum dwellers belong to SC (table 2.2). The STs are few in number as only 2.2% of the slum dwellers reported belonging to this caste. An overwhelming number (80.7%) of slum dwellers in the three cities belong to castes other than SC and ST. Amongst the three cities, however, Trivandrum has the concentration of SC to the extent of 52.7%. In other cities, the number of SC and ST is only nominal.

Household Size

- 2.3 The mean household size of the slum dwellers in the three cities is 5.8 (table 2.3). However, family size in the three cities individually is smaller than this. Thus, Calicut has an average family size of 5.7 members. This in Cochin is 6.1 and Trivandrum with a mean family size of 5.6 has the smallest slum households. Only Cochin has the largest average size of slum households amongst the three cities. Of all the three cities, Trivandrum appears to have a very large number of slum households (60%) having less than five members. Thus about 40% of the households in Trivandrum have more than five members. This in the case of Cochin is 49.2%. The households having more than 10 family members in Cochin is the highest (6.9%) amongst the three cities (table 2.3). This in the case of Calicut and Trivandrum is 4.5% and 3.8% respectively.
- 2.4 What is the household size of slum dwellers belonging to the different religions? The data on household size of slum

dwellers having faith in different types of religion is presented in table 2.4. A look at this table reveals that of all the three religions Christians as a religious group have the least number of households having more than five family members. In Calicut, there does not exist any household having more than 4 members. In Cochin, such households account for 40.28% of the total households and in Trivandrum 42.63. The family size among the Hindus and Muslims is found to be larger as the number of families having more than five members in Calicut, Cochin and Trivandrum amongst them is higher than that of Christians. 23.52% of Hindu families in Calicut, 41.81% in Cochin and 44.63% in Trivandrum have more than five family members. This in the case of Muslims is found to be the highest amongst the three religions. 55.32% of Muslim households in Calicut, 58.43% in Cochin and 61.53% in Trivandrum are found to have families having more than five members. Thus the household size amongst the Muslims is large. Hindus come next to them and the Christians have the smallest household size.

Sex

2.5 There appears to be a great deal of variation in the sex ratio in the slums of the three cities. The number of females per 1000 males in the state of Kerala, in the urban areas of the state, in the three districts of Calicut, Cochin and Trivandrum and in the slums of the three districts is given in table 2.5. It shows that the number of females per 1000 males in the slums of Cochin (1066) is not only higher than that of the slums of Calicut (986) and Trivandrum (984) but is also higher

than that of the Kerala state (1032) as well. Thus the slums of Calicut and Trivandrum have lesser number of females than males.

2.6 This is obvious also from table 2.6. In Cochin, females constitute 51.6 per cent of the total slum population which is marginally higher than the proportion of females in the sample slums of Calicut and Trivandrum.

Age

- 2.7 The distribution of slum dwellers in different suggests that an overwhelming proportion of population belongs to economically active age-group (15 to In all the three cities, about two-third of total population belong to this age-group (table 2.7). The proportion of population in the age-group of more than 59 years is very It is around 6% in all the three cities. The number of people up to 14 years of age is a little more than one-fourth of the total slum population in the three cities. Whereas in Cochin, about 29% of slum dwellers belong to the age-group of 0-14 years, in Calicut and Trivandrum, the number of children this age-group constitutes 27.5% and 27.9% of the total slum population respectively.
- Distribution of slum dwellers according to age-group and sex in the three cities together is presented in table 2.8. Because of the prevalence of larger number of females in the three cities, the females in the age-group 15-59 constitute 73.6% of the total female population as compared to 70.36% for the males.

Tenure Status

- 2.9 The analysis of data on tenure types in the three cities reveals that a large proportion of the sample households are owners. As much as 76.10% of the households in the three cities taken together are owners (table 2.9). 20.70% are living in slums as tenants and the remaining 3.20% of the households did not offer any response to the question on the type of tenure system. Of all the three cities, Calicut has the highest number of owner households (91.84%). Trivandrum with 75.77% of owner slum households comes next to Calicut. The owner slum households in the city of Cochin is to the extent of 59.72%. As regards tenants, Cochin with 40.28% of slum households as tenants has the highest number of tenant households living in slums.
- 2.10 With a view to comprehend the tenurial system and to clarify the tenure types, an attempt was made during the Household Survey to ask the respondent households about the nature of tenancy and ownership. The data thus collected reveal the prevalence of multiple tenancy system though on a small scale. Of the total tenant households, hardly one-fourth (25.12%) are living under multiple tenancy system in the three cities taken together (table 2.10). 46 households (22.22%) happen to be the secondary tenants. In other words, they are living there in the shelters which have been let out again by the principal tenants. The extent of secondary tenancy is more conspicuous in Cochin where 10% of the tenant households are living as second tenant. In Calicut, the extent of second tenancy is almost negligible. In Trivandrum it is only 3.5%.

- 2.11 Table 2.10 also throws light on the extent of sale and purchase of properties in the slums of the three cities. Of the total owners, about three fourth (73.46%) are owners on the basis of first ownership. Another about 15% households in the three cities have purchased from the first purchaser. Amongst all the three cities, the sale and purchase of shelter in slums appear to be quite pronounced in Trivandrum and Cochin.
- 2.12 Table 2.9 has earlier revealed that 761 of the total sample households are owners. How many of them are owners due to outright purchase and how many of them are owners due to award of tenurial right (patta) by the government? The data on this are tabulated in table 2.11. It is seen in this table that a large number of households have acquired ownership right due to award of tenurial right. Such households form about 45% of the total owner households in the three cities taken together. The largest number of pattas are found to have been awarded in Calicut (62.89%). In Trivandrum, 55.77% of the owner households reported to have been awarded the pattas. Only in Cochin only 17.50% of the owner households reported to have been awarded pattas by the government.

Migration

2.13 Low level of urbanisation in the state of Kerala is reflected in low level of migration as well. In the slums of the three cities taken together, the number of migrants is small (table 2.12). The migrants constitute only 12.7% of the total sample households in slums of Calicut, Cochin and Trivandrum.

Trivandrum being the state capital, has the highest proportion of migrants in its slums. This is to the extent of 22.3%. In Calicut, the migrant slum households constitute only 10.3% of the total households. Cochin has the least number of migrants (8.4%) despite its being a major port and also a trading centre.

- 2.14 Where from have these households migrated? The distribution of migrants according to places of migration presented in table 2.13. It is seen from this table that only in Calicut, the people have migrated from states other than Kerala. A little more than one-fourth (25.6%) of the migrant families have migrated from other states. This is mainly due to a pronounced trade and commerce in spices in the city and also its being near to the state of Karnataka and to some extent even to part of Pondicherry and Tamil Nadu. Trivandrum and Cochin do not have any migrants from other states. Trivandrum has a maximum number of migrants (48.3%) from other districts of Kerala. In Cochin as well, 46.7% of the households have migrated from districts other than Cochin. Only Calicut has a maximum number of migrants (50%) from within the district of Calicut itself.
- Analysis of migrants according to the duration of stay (table 2.14) suggests that a very high proportion of migrants in all the three cities migrated long ago. In Cochin, 83.3% of the migrants have been staying in the city for more than 15 years. Migration in relatively recent years (less than five years), is small (table 2.14).

Reasons for Migration:

2.16 The analysis of migrants according to the reason for migration in the three cities reveals that a very large number of them have migrated to the three cities in search of economic opportunities. The proportion of such migrants in the three cities taken together comes to 42.5% (table 2.15). If landlessness is included as a reason for migration in search of better economic opportunities, as much as 60.6% of the migrants have been compelled to migrate because of economic reasons. Migration due to marriage constitutes the second very important reason for the demographic shift. Almost the same trend is visible in the three cities individually as well. reasons (in search of employment and landlessness) account for the migration of a very substantial proportion of migrant households in the three cities individually. Other reasons for migration, besides marriage, include breaking up of joint family, better business prospects etc.

Intra-City Migration :

An attempt was made to understand the mobility of slum dwellers from one place to another within the same city in search of dwelling place. Table 2.16 reveals that an overwhelming proportion of slum households in the three cities taken together happens to live in the same slum cluster. This comes to about 55% of the total sample households. Amongst the three cities, in Cochin and Trivandrum, a large number of slum households are found to have migrated to the present slum cluster from within the city. The proportion of such households in Cochin is 54.4%

and in Trivandrum 45.4%. Only in Calicut, only about one-third of the slum households are found to have migrated from other localities of the city itself.

- 2.18 Why have they shifted to the present locations? The reasons for this are tabulated in table 2.17. It is seen in this table that 53.6% of the households in the three cities have shifted to the present slum clusters due to lack of land of their own to put up a shelter. Another 11.4% have settled down due to proximity to the work centre. About 8% of the households said that they moved to the present location due to break-up of joint family. If this is included in landlessness as the reason for moving to the present slum clusters, about 62% of the households have moved due to lack of land.
- In the three cities individually also the reasons for moving to the present locations conform to the reasons for doing so in the three cities taken together. In Cochin, more than two-third of the households who moved from other locations are found to have been compelled by the lack of land. In Calicut and Trivandrum, it explains the movement of only about one-third of households. Willingness to live near the work place seems to have motivated about 21% of the households in shifting to the present slum clusters in Calicut.

Education

2.20 A very high level of literacy in the state of Kerala as compared to other states of Indian Union is reflected in the slums of the three cities as well. The percentage of literates

in the three cities taken together comes to 80.3 which is a very high level of literacy amongst the slum dwellers (table 2.18). Amongst the three cities, the slums of Cochin have the highest level of literacy which is to the extent of 80.7%. In Calicut, the level of literacy is almost equivalent to the average for the three cities. The slums in Trivandrum have a literacy to the extent of 79.8% which is lower than the average for the three cities.

2.21 What is the level of educational attainment of the slum dwellers? A look at table 2.18 reveals that more than one-third of the slum population in the three cities taken together (34.9%) have attained education up to primary school level. more than one-fifth (22.4%) are found to have received education upto 8th standard and 13.9% are matriculates. Only 14% of the slum dwellers in the three cities taken together are found as only literates who can just read and write. Amongst the three cities, Cochin has the largest proportion of slum population (41.4%) having education upto primary school level as compared to Calicut (38.9%) and Trivandrum (18.7%). However, it is in Trivandrum where a little less than one-third of the slum population (31%) have education upto matriculation. Cochin with 22.9% is next to it. It is interesting to note that there are graduates as well in the slums. The sample slums in the cities of Cochin and Trivandrum have 9 graduates each and in Calicut, the number of graduates is found to be 3. The sample slums in Calicut have even the post-graduates amongst the slum dwellers!

2.22 Though the level of literacy amongst the slum dwellers is very high, the number of children actually going to schools constitutes a small proportion of the total number of children in the school going age group (5 to 14 years). This is obvious from table 2.19. On an average, only about 42% of the children in the age-group 5-14 years are found going to school in the three cities taken together. Barring Trivandrum, where more than 72% of the children are going to school in this age-group, in Calicut and Cochin only about one-third of the children are found going to school.

Table 2.1

Distribution of Households according to Religion in the Three Cities

| | | Reli | gions | | | | | | | | |
|--------------|--------------|--------------|--------------|---|---------------|--|--|--|--|--|--|
| City | Christianity | | | | | | | | | | |
| Calicut | | | | | | | | | | | |
| No. % | 4 1.05 | 85 22.37 | 291 76.58 | - | 380 100.00 | | | | | | |
| Cochin | | | | | | | | | | | |
| No. % | 72 20.00 | 122 33.89 | 166 46.11 | - | 360 100.00 | | | | | | |
| Trivandrum | | | | | | | | | | | |
| No. % | 65 25.00 | 180 69.23 | 13 5.00 | $\begin{smallmatrix}2\\0.77\end{smallmatrix}$ | 260 100.00 | | | | | | |
| Total No. | 141 14.10 | 387 38.70 | | | 1000 | | | | | | |

Table 2.2

Distribution of Households According to Caste

| | | | Caste | | |
|------|--------|--------------------|--------------------|---|-------------------------------|
| Cit | | Scheduled caste | Scheduled tribe | Other | Total |
| ~ 1 | | | | | |
| Cal | icut | | | | |
| No. | % | 25 6.6 | 9 2.4 | 346 91.0 | 380 100.0 |
| Cocl | nin | | | | |
| No. | % | 9 2.5 | 4 1.1 | 347 96.4 | 360 100.0 |
| Triv | andrum | | | | |
| No. | % | 137 s 52.7 | 9 3.5 | 114 43.8 | 2 6 0 100. 0 |
| Tota | ıl | | | and has see one one one she are one one disc me has m | |
| No. | % | 171 17.1 | 22 2.2 | 807 80.7 | 1000 |

Table 2.3

Distribution of Households according to Size

| City | ity Size group of households (Number of members) | | | | | | | | | | | | |
|------------|--|-------------|---------------|---------------|---------------|---------------|---------------|-------------|-------------|-------------|-------------|----------------|----------------------------|
| | 1 | 2 | 3 | 4 | 5 | б | 7 | 8 | 9 | 10 | 11+ | | iverage ise of anily |
| Calicut | 2 (0.5) | 23 (6.1) | 45 (11.8) | 55 (14.5) | 74 (19.5) | 57 (15.0) | 44 (11.6) | 30 (7.9) | 22 (5.8) | 11 (2.9) | 17 (4.5) | 380 (100.0) | 5.7 |
| Cochin | 1 (0.3) | 13 (3.6) | 30 (8.3) | 54 (15.0) | 85 (23.6) | 63 (17.6) | 35 (9.7) | 25 (6.9) | 19 (5.3) | 10 (2.8) | 25 (7.0) | 360 (100.0) | 6.1 |
| Trivandrum | 0(0.0) | 6 (2.3) | 32 (12.3) | 51 (19.6) | 67 (25.8) | 40 (15.4) | 24 (9.2) | 10 (3.8) | 8 (3.1) | 12 (4.6) | 10 (3.9) | 260 (100.0) | 5.6 |
| Total | 3 (0.3) | 42 (4.2) | 107 (10.7) | 160 (16.0) | 226 (22.6) | 160 (16.0) | 103 (10.3) | 65 (6.5) | 49 (4.9) | 33 (3.3) | 52 (5.2) | 1000 | 5.8 |

Note: Figures in parentheses indicate percentage to the total.

Table 2.4

Household Size by Religion in the Three Cities

| City/Religion | | Size group of households | | | | | | | | | | |
|---------------|-------------|--------------------------|---------------|---------------|---------------|---------------|-------------------|--------------|----------------------|--------------|-----------------------|--------------------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11+ | Total |
| Calicut | | | | | | | | | | | | |
| Christianity | | | | | | - | - | - | | - | - | 4 |
| Hinduism | - | 5 | 16 | | 27 | 11 | | | | | | |
| Islam | 2 | 18 | 26 | 37 | 47 | (12.94) 46 | 41 | 28 | 20 | 9 | 17 | 291 |
| Others | - | - | - | - | - | (15.81) | - | - | - | - | - | 0 |
| Total | 2 (0.53) | 23 (6.05) | 45 (11.84) | 55 (14.47) | 74 (19.47) | 57 (15.00) | 44 (11.58) | 30 (7.89) | 22 (5.79) | 11 (2.89) | 17 (4.47) | 380 (100.00 |
| <u>Cochin</u> | | | | | | | | | | | | |
| Christianity | | | | | | 14 | | | | | | |
| Hinduism | - | 4 | 13 | 23 | 31 | (19.44) 16 | 12 | 7 | 6 | 3 | 7 | 122 |
| Islam | #3 | 5 | 10 | 17 | 37 | (13.11) | 15 | 14 | 13 | 6 | 16 | 166 |
| Others | | | | | | (19.88) | | | | | | |
| | 1 (0.28) | 13 (3.61) | 30 (8.33) | 54 (15.00) | 85 (23.61) | 63 (17.5) | 35 (9.72) | 25 (6.94) | 19 (5.28) | 10 (2.78) | 25 (6. 94) | 360 (10 0. 00) |
| frivandrum | | | | | | | | | | | | |
| Christianity | | | | | | | | | | | | |
| linduism | - | 4 | 20 | 39 | 51 | (21.54) | 17 | 6 | 4 | 7 | 8 | 180 |
| Islan | - | (2.22) | - | 3 | 2 | | 4 | 1 | - | 1 | - | 13 |
| thers | - | - | - | 1 (50.00) | - | (15.38) | - | - | 1 (50. 0 (| - | - | 2 (100.00 |
| otal | - | 6 (2.31) | 32 (12.31) | 51 | 67 | 40 (15.38) | 24 | 10 | 8 | 12 | 10 | 260 |

Source : NIUA, Household Survey, 1990.

Note : Figures in parentheses indicate the percentage to the total.

Table 2.5 No. of Females Per 1000 Males in Kerala, the three Districts of Calicut, Cochin and Trivandrum

| State/District | | Number | |
|------------------------------|---------|-----------------|-----------------------|
| | Male | Female | Female per 1000 males |
| | | 12925913 | |
| Kerala urban | 2360350 | 2410925 | 1021 |
| Calicut district | | | |
| Total | 1111409 | 1133856 | 10 2 0 |
| Calicut urban | 303874 | 306358 | 1008 |
| Calicut city (slum areas) | 1093 | 1078 | 986 |
| Cochin District | | | |
| Total | 1269174 | 1266120 | 998 |
| Cochin urban | 503147 | 4997 4 5 | 993 |
| Cochin city (slum areas) | 1065 | 1136 | 1066 |
| Trivandrum District | | | |
| Total | 1279150 | 1316962 | 1030 |
| Trivandrum urban | 324985 | 330776 | 1018 |
| Trivandrum city (slum areas) | 732 | 720 | 984 |

Source: (i) Census of India.

⁽ii) NIUA, Household Survey, 1990.

Table 2.6

Distribution of Slum Dwellers according to Sex in the three Cities

| City | Male | Female | Total |
|------------|--------|--------|---------|
| 6.11 | | | |
| Calicut | 1093 | 1079 | 2172 |
| | (50.3) | (49.7) | (100.0) |
| Cochin | 1066 | 1135 | 2201 |
| | (48.4) | (51.6) | (100.0) |
| Trivandrum | 732 | 722 | 1454 |
| | (50.3) | (49.7) | (100.0) |
| Total | 2891 | 2936 | 5827 |
| | (49.6) | (50.4) | (100.0) |

Note: Figures in parenthesis indicate percentage to the total. Source: NIUA, Household Survey, 1990.

Table 2.7

Distribution of Slum Population by Age in the three Cities

| Age | | | | | | | | | | |
|------------|---------------|---------------|---------------|----------------|--------------------|------------------------|--------------|---------------|--------------|--------------------------|
| City | 0-4 | 5-9 | 10-14 | 15-24 | 25-34 | 35-44 | 45-54 | 5 5-59 | 60+ | Total |
| Calicut | 95 (4.4) | 232 (10.7) | 269 (12.4) | 572 (26.3) | 378 (17.4) | 272 (12.5) | 169 (7.8) | 53 (2.4) | 132 (6.1) | 2172 (10 0. 0) |
| Cochin | 190 (8.6) | 207 (9.4) | 234 (10.6) | 582 (26.4) | 378 (17.2) | 251 (11.4) | 167 (7.6) | 71 (3.2) | 121 (5.5) | 2201 (100.0) |
| Trivandrum | 146 (10.0) | 116 (8.0) | 144 (9.9) | 371 (25.5) | 25 2 (17.3) | 170 (11. 7) | 121 (8.3) | 50 (3.4) | 84 (5.8) | 1454 (100.0) |
| Total | 431 (7,4) | 555 (9.5) | 647 (11.1) | 1525 (26.2) | 1008 (17.3) | 693 (11.9) | 457 (7.8) | 174 (3.0) | 337 (5.8) | 5827 (100.0) |

Note: Figures in parentheses indicate percentage to the total.

Table 2.8

Distribution of Slum Dwellers according to Age and Sex

| | | | Sex | | | |
|------------|------|------|--------|---------------|--------------|------|
| Age groups | Male | % | Female | % | Total | % |
| | | | | | | |
| 0-4 | 224 | 52.0 | 207 | 48.0 | 431 | 7.4 |
| 5-9 | 285 | 51.4 | 270 | 48.6 | 555 | 9.5 |
| 10-14 | 348 | 53.8 | 299 | 46.2 | 647 | 11.1 |
| 15-24 | 708 | 46.4 | 817 | 53.6 | 1525 | 26.2 |
| 25-34 | 517 | 51.3 | 491 | 48.7 | 1008 | 17.3 |
| 35-44 | 348 | 50.2 | 345 | 49.8 | 693 | 11.9 |
| 45-54 | 205 | 44.9 | 252 | 55.1 | 457 | 7.8 |
| 55-59 | 90 | 51.7 | 84 | 48.3 | 174 | 3.0 |
| 60+ | 166 | 49.3 | 171 | 5 0. 7 | 3 3 7 | 5.8 |
| Total | | | 2936 | | 5827 | |

Table 2.9

Distribution of Households according to Tenure Status

| | Tenure status | | | | | | | | | | |
|------------|---------------|-------|-----|-------|-----|--------|-------|-------|--|--|--|
| City | Tenant | | Own | ier | | sponse | Total | | | | |
| | No. | % | No. | % | No. | % | No. | % | | | |
| Calicut | 27 | 7.11 | 349 | 91.84 | 4 | 1.05 | 380 | 100.0 | | | |
| Cochin | 145 | 40.28 | 215 | 59.72 | - | - | 360 | 100.0 | | | |
| Trivandrum | 35 | 13.46 | 197 | 75.77 | 28 | 10.77 | 260 | 100.0 | | | |
| Total | 207 | 20.70 | 761 | 76.10 | 32 | 3.20 | 1000 | 100.0 | | | |

Table 2.10

Distribution of Tenants according to Status of Tenancy

| City | | Tenancy | | | | | Ownership | | | | |
|------------|---------------|--------------|-----------|---------------|---------------|--------------|--------------|-----------------------|----------------|----------------|--|
| | Ist | IInd | Any other | Total | Ist | IInd | Any other | Total | res- ponse | Total | |
| Calicut | 25 (6.6) | 1 (0.3) | 1 (0.3) | 27 (7.1) | 316 (83.2) | 31 (8.2) | 2 (0.5) | 3 49 (91.8) | 4 (1.1) | 380 (100.0) | |
| Cochin | 104 (28.9) | 36 (10.0) | 5 (1.4) | 145 (40.3) | 94 (26.1) | 39 (10.8) | 82 (22.8) | 215 (59.7) | - | 360 (100.0) | |
| Trivandrum | 26 (10.0) | 9 (3.5) | - | 35 (13.5) | 149 (57.3) | 44 (16.9) | (1.5) | 19 7 (75.8) | 28 (10.8) | 260 (100.) | |
| Total | 155 | 46 | 6 | 207 | 559 | 114 | 88 | 761 | 32 | 1000 | |

Note: Figures in parentheses indicate percentage to the total.

Table 2.11

Distribution of Households according to Award of Pattas and Purchase

| City | Families awarded pattas | | Purchased | | Others | | Total | |
|------------|-------------------------------|------------|-----------|-------|--------|-------|-------------|-------|
| | No. | ~~~~~ % | No. | % | No. | % | No. | % |
| Calicut | 239 | 62.89 | 110 | 28.95 | 31 | 8.16 | 380 | 100.0 |
| Cochin | 63 | 17.50 | 152 | 42.22 | 145 | 40.28 | 3 60 | 100.0 |
| Trivandrum | 145 | 55.77 | 52 | 20.00 | 63 | 24.23 | 260 | 100.0 |
| Total | 447 | 44.70 | 314 | 31.40 | 239 | 23.90 | 1000 | 100.0 |

Table 2.12

Distribution of Households according to Domicile Status

| | | | Domicile | status | | tern ente sint tipp ann suip gian aus suip | |
|------------|-----|-------|----------|---------|--------------|--|--|
| City | Mig | rants | Non-m | igrants | Total | | |
| | No. | % | No. | % | No. | % | |
| Calicut | 39 | 10.3 | 341 | 89.7 | 380 | 100.00 | |
| Cochin | 30 | 8.4 | 330 | 91.6 | 3 6 0 | 100.00 | |
| Trivandrum | 58 | 22.3 | 202 | 77.7 | 260 | 100.00 | |
| Total | 127 | 12.7 | 873 | 87.3 | 1000 | 100.00 | |

Table 2.13

Distribution of Migrants according to Place of Migration

| Place of Migration | Cal | | | in | Trivan | |
|---------------------------------------|-----|-------|-----------|-------|-----------|-------|
| | No. | % | No. | % | No. | % |
| From within the state | 6 | 15.4 | 14 | 46.7 | 28 | 48.3 |
| From within the same district | 23 | 59.0 | 15 | 50.0 | 22 | 37.9 |
| From other states | 10 | 25.6 | 1 | 3.3 | 8 | 13.8 |
| Total number of migrants Non migrants | 341 | 100.0 | 30 330 | 100.0 | 58 202 | 100.0 |
| Total | 380 | 1-1 | 360 | - | 260 | - |

Table 2.14

Distribution of Migrants according to Duration of Stay in the City

| Duration of stay in the city | | | | City | | | |
|------------------------------|-----|-------|-----|-------|------------|-------|--|
| (years) | | | | | Trivandrum | | |
| | | % | | % | | % | |
| < 5 | 4 | 10.3 | 1 | 3.3 | 4 | 6.9 | |
| 6-10 | 3 | 7.7 | 2 | 6.7 | - | _ | |
| 11-15 | 4 | 10.3 | 2 | 6.7 | 9 | 15.5 | |
| 16+ | 28 | 71.8 | 25 | 83.3 | 45 | 77.6 | |
| Total | 39 | 400 0 | 30 | 100.0 | | 100.0 | |
| Non-migrants | 341 | - | 330 | -, | 202 | - | |
| Total | 380 | - | 360 | - | 260 | - | |

Table 2.15

Distribution of Migrants according to Reasons for Migration

| Reasons for | | | (| City | | | | |
|--|-----|-------|-----|-------|-----|--------|-----|-------|
| Migration | | licut | Co | chin | | andrum | То | tal |
| | No. | % | No. | % | No. | | No. | % |
| Employment | 14 | 35.8 | 11 | 36.7 | 29 | 50.0 | 54 | 42.5 |
| Landlessness | 3 | 7.7 | 11 | 36.7 | 9 | 15.5 | 23 | 18.1 |
| Family debt | - | - | 3 | 10.0 | - | - | 3 | 2.4 |
| Official transfer | :-· | - | - | - | 1 | 1.7 | 1 | 0.8 |
| Social discrimination | 3 | 7.7 | - | - | - | - | 3 | 2.4 |
| Break up of joint family | 4 | 10.3 | 2 | 6.7 | 1 | 1.7 | 7 | 5.5 |
| Religious, communa political or legal disputes | 1, | 5.1 | _ | - | - | _ | 2 | 1.6 |
| Education | - | - | - | - | - | - | _ | |
| Marriage | 11 | 28.2 | 3 | 10.0 | 13 | 22.4 | 27 | 21.3' |
| To accompany family | _ | - | 1- | - | 3 | 5.2 | 3 | 2.4 |
| Better business prespects | 2 | 5.2 | - | - | 2 | 3.4 | 4 | 3.1 |
| Natural disaster | - | - | - | | - | - | - | - |
| Others | - | - | - | - | - | | | - |
| Total | 39 | 100.0 | 30 | 100.0 | 58 | 100.0 | 127 | 100.0 |
| Non-migrants | 341 | _ | 330 | _ | 202 | | | |
| Total | 380 | - | 360 | - | 260 | _ | | |

Table 2.16

Distribution of Households according to Duration of Stay in the Slum Cluster

| Duration of stay (years) | | | | City | | | |
|--------------------------|-----|-------|-----|-------|------|--------|------------|
| (years) | Са | | Co | chin | Triv | andrum | Total |
| | No. | % | No. | % | No. | % | |
| < 5 | 57 | | | 27.0 | | 17.8 | |
| 6-10 | 33 | 24.1 | 33 | 16.8 | 11 | 9.3 | 77 |
| 11-15 | 21 | 15.3 | 40 | 20.4 | 16 | 13.6 | 7 7 |
| 16+ | 26 | 19.0 | 70 | 35.7 | 70 | 59.3 | 166 |
| Total | 137 | 100.0 | 196 | 100.0 | 118 | 100.0 | 451 |
| Total who did not move | 243 | - | 164 | _ | 142 | _ | 549 |
| Grand total | 380 | - | 360 | - | 260 | - | 1000 |

Table 2.17

Distribution of Households according to Reasons for Moving to the Cities

| Reasons for migration | | | | City | | | | |
|---|-----------|-------|-----|-------|------|--------|-------------------|------|
| migration | Сε | licut | Co | chin | Triv | andrum | Te | otal |
| | No. | % | No. | % | No | % | No | . % |
| Employment | 24 | | 15 | 7.7 | | 7.9 | 48 | 11. |
| Landlessness | 37 | 33.0 | 149 | 76.4 | 40 | 35.1 | 226 | 53. |
| Family debt | 5 | 4.5 | 6 | 3.1 | 1 | 0.9 | 12 | 2. |
| Official transfer | 9 | 8.9 | - | - | - | - | 9 | 2. |
| Social discrimnation | 1 | 0.9 | 1 | 0.5 | 2 | 1.8 | 4 | 0. |
| Break of joint family | 14 | 12.5 | 12 | 6.2 | 8 | 7.0 | 34 | 8. |
| Religious,communa political or legal disputes | al - | - | 1 | 0.5 | 4 | 3.5 | 5 | 1. |
| Education | - | | 1 | 0.5 | - | - | 1 | 0. |
| Marriage | 1 | 0.9 | 3 | 1.5 | 11 | 9.6 | 15 | 3. |
| To accompany family | 3 | 2.7 | 0 | - | 5 | 4.4 | 8 | 1. |
| Better business prespects | 2 | 1.8 | 5 | 2.6 | 3 | 2.6 | 10 | 2. |
| Natural disaster | 2 | 1.8 | 3 | 1.5 | 3 | 2.6 | 8 | 1. |
| Others | 13 | 11.6 | _ | - | 28 | 24.6 | 41 | 9. |
| Cotal | | 100.0 | 196 | 100.0 | 114 | 100.0 | 421 | 100. |
| on-migrants o response | 245 24 | - | 164 | - | 144 | - | 55 3 26 | - |
| otal | 380 | _ | 360 | | 260 | _ | 1000 | |

Table 2.18

Distribution of Slum Dwellers according to Education

| ***** | | | | | | Edi | ıcationa | l Attai | nment | | | | | |
|------------|---------------|---------------|---------------|----------------|---------------|-------------|----------|-------------|-------|-----|-----------------|------------------------------|---------------------|---------------|
| City | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | NR | NA | Total | No. of literates (1-7) | Total population | % literacy |
| Calicut | 329 (15.9) | 435 (21.0) | 804 (38.9) | 343 (16.6) | 144 (7.0) | 6 (0.3) | 3 (0.1) | 5 (0.2) | - | 103 | 2069 (100.0) | 1740 | 2169 | 80.2 |
| Cochin | 261 (12.8) | 217 (10.6) | 845 (41.4) | 468 (22.9) | 226 (11.1) | 9 (0.4) | - | 14 (0.7) | 1 | 160 | 2040 (100.0) | 1777 | 2201 | 80.7 |
| Trivandrum | 157 (11.9) | 107 (8.1) | 248 (18.8) | 408 (31.0) | 385 (29.2) | 9 (0.7) | 1 (0.1) | 3 (0.2) | 3 | 133 | 1318 (100.0) | 1160 | 1454 | 79.8 |
| Total | 747 (13.8) | | | 1219 (22.4) | 755 (13.9) | 24 (0.4) | 4 (0.1) | 22 (0.5) | 4 | 396 | 5427 (100.0) | 4677 | 5824 | 80.3 |

^{0 -} Illiterate

^{1 -} Literate

^{2 -} Primary

^{3 - 6-8} standards

^{4 -} Matriculation/Higher secondary

^{5 -} Graduate

^{6 -} Post-graduate

^{7 -} Others

NR - No response

NA - Not applicable (infants not belonging to school going age).

Note: Figures in brackets indicate percentage to the total.

Source: NIUA, Household Survey, 1990.

Table 2.19

Number of Children in the Age-Group 5-14 actually going to School

| City | School going age (5-14 yrs) | No. of childr going to | - was a sure of the same of th |
|------------|--------------------------------|---------------------------|--|
| | | No. | % |
| Calicut | 501 | 171 | 34.13 |
| Cochin | 441 | 142 | 32.20 |
| Trivandrum | 260 | 188 | 72.31 |
| Total | 1202 | 501 | 41.68 |

CHAPTER III

SHELTER PROFILE

Area Occupied

- 3.1 In the three cities taken together, on an average, more than 50% of the households are occupying less than 25 sq mts of land. About 15% of the sample households occupy more than 152 sq mts of land area (table 3.1). Another 12.3% of the households occupy an area of 25 to 40 sq mts. The remaining about 21% of the households are occupying land areas varying from 41 sq mts to 151 sq mts. A very large number of slum households in Trivandrum seems to be occupying very large area of land. As many as half the sample households in Trivandrum are occupying more than 152 sq mts of land. As many as 89% of the total households are living in an area of more than 56 sq mts of land.
- The situation seems to be acute in Calicut. Table 3.1 reveals that 95.3% of the slum households are living in less than 25 sq mts of land area. In Cochin also a little more than two fifth (41.1%) of the households are occupying less than 25 sq mts of land. One-fourth of households (25.3%) are occupying 25 to 40 sq mts of land. Another 7.5% are living in a land area of 41 to 56 sq mts. The remaining 26% of the households are occupying more than 56 sq mts of land. 5% of the total sample households in Cochin are found to be living in more than 152 sq mts of land.

Structural Condition

- 3.3 An attempt was made to know the type of structures of the dwelling units occupied by the slum households. Information was therefore collected in terms of pucca, semi-pucca and katcha structures. A structure, for the purpose of this study, has been treated as pucca if the walls and roofs are pucca. If either of the two is pucca, the structure is treated as semi-pucca and the dwelling units having walls and roof as katcha are treated as katcha structures. The structural condition of dwelling units is presented in table 3.2. A look at this table reveals that a very large proportion (57%) of the total dwelling units are either pucca or semi-pucca. The remaining 43% of the dwelling units are Katcha. However, amongst the three cities, Trivandrum only 3% of dwelling units are pucca. structures constitute 58.8% of the total dwelling units. of the dwelling units are katcha. In both Calicut and Cochin, about 17% of the dwelling units are pucca. Whereas in Calicut semi-pucca structures constitutes 39.5% of the total dwelling units, in Cochin, 36.7% of the structures are found to be semipucca. Katcha structures in Calicut and Cochin constitute 43.2% and 46.4% of the total dwelling units respectively.
- 3.4 Do the area occupied and the type of structure have any relationship between them? Are the dwelling units located on large areas structurally better off than those on smaller areas of land? A look at table 3.3 indicates some relationship between the two. Though out of 148 dwelling units which have more than 152 sq mts of land, only 9.5% belong to pucca category.

Howeveer, pucca and semi-pucca structures taken together constitute as much as 73% of the total dwelling units in this category. In the lower category, that is dwelling units occuping less than 25 sq mts, about 50% of the structures are katcha, 35.3% semi-pucca and only 15.4% pucca. There is observed some relationship between the area occupied and semi-pucca structures in the three cities. Thus in the three cities taken together, the proportion of the semi-pucca structures is found increasing along with the increase in the area occupied. Thus, larger the land area occupied by the dwelling units, better is the type of structure.

Type of Structure by Use:

3.5 Is there any relationship between the use of structures and structural quality? Table 3.4 shows that the proportion of katcha structures in the houses or hutments used for non-residential purposes is relatively smaller. Such structures, by and large, are of semi-pucca type. 47.6% of the residential cum commercial and 83.3% of residential cum industrial units are of semi-pucca type.

Type of Structure by Ownership:

3.6 It is hypothesised that the pattern of ownership determines the type of structure. A household will perhaps bring about improvement in the structural conditions of the dwelling units if the land belongs to him. The structural conditions of dwelling units according to the type of ownership is presented in table 3.5. It does not show any relationship between the ownership of land and the type of structures. Out of 761

dwelling units reported as owned by the sample households, about 56% belong to the pucca and semi-pucca categories. As regards the 207 tenanted dwelling units which must also be owned by someone, about 62% of them are either pucca or semi-pucca.

3.7 It could also be hypothesised that longer the period of duration of the household in the particular place, better would be the structural condition of the dwelling units. However, a look at table 3.5 does not establish any realationship between the two. In all the categories of periods of duration, around 50% of the total dwelling units are found to be of semi-pucca type except the duration category of 15-19 years and less than one year. Thus irrespective of the period of duration, the structural condition of a very large number of dwelling units are found to be pucca and semi-pucca.

Use of Dwelling Units

3.8 The dwelling units in the slums of the three cities are substantially used for residential purposes. A little more than 94% of the dwelling units are actually used for residential purpose (table 3.7). A little more than 4% are used for residential and commercial purposes and 1.2% of the dwelling units are used for residential and industrial purposes. Non-residential use seems to be in vogue only in the slums of Trivandrum where 12.7% of dwelling units are used for both residential and commercial purposes and a little more than 4% for residential and industrial uses. In Calicut and Cochin, more than 98% of the dwelling units are put to residential use.

Shelter Improvement

- 3.9 An attempt was made to understand the extent of improvement in housing conditions. The respondents were therefore asked to indicate if they have brought about improvement in their housing conditions since they started living in the present dwelling unit. The findings are tabulated in table 3.8. It is seen in this table that around one-third of the sample households have improved their dwelling units in the three cities.
- 3.10 Maximum number of improvements is seen in the slums of Trivandrum where about 63% of the total sample households have improved their shelter. In Cochin, a little over one-third (34.2%) of the households have improved their houses. Only in Calicut, the improvement process is found slow as only about 14% of the slum households reported to have brought about improvement in thier shelter.
- 3.11 The analysis in table 3.8 is based on improvement brought about by the households since they started living in the present dwelling units. With a view to know the scale of improvement brought about recently, the improved dwelling units are tabulated in table 3.9 according to the year of improvement. It is seen from this table that about 57% of the total improved dwelling units in the three cities were improved in the last four years. Another 14.2% were improved in the last 5 to 9 years. In the three cities individually as well, quite a large number of sample households are found to have brought about improvement in their dwelling units in recent years. In Calicut, about 47% of

the improvements were carried on in the last five years. The percentage of such houses in Cochin is 51.2 and in Trivandrum even higher, that is 65%. It thus indicates that the slum dwellers are constantly trying to bring about improvement in their structures. This explains the prevalence of a very large proportion of dwelling units in the three cities belonging to semi-pucca and pucca types.

3.12 This is further corroborated by table 3.10. It is seen in this table that the improvements have been brought about to a very large extent in the katcha and semi-pucca structures. As much as 67.2% of the katcha and 56.5% of semi-pucca structures have been improved upon in the three cities in the last four years. As compared to this, improvements have been brought about in the last four years only in 35.8% of the pucca structures.

Nature of Improvement

3.13 The nature of improvement brought about in the dwelling unity is tabulated in table 3.11. A look at this table reveals a varied type of improvements carried out in the dwelling units. But three types of improvements are found quite conspicuous. Improvement of either the roof or wall or floor forms the first type of modification which is found to have been brought about in the largest proportion (38.5%) of improved houses in the three Another 26.6% of the improved dwelling units have been cities. reconstructed from katcha to semi-pucca or from semi-pucca to In another about 27% of the improved pucca. properties, improvement has been confined to repairs involving rethatching, white wash and other minor maintenances.

- 3.14 Amongst the three cities, it is in Cochin where the largest proportion of improved houses (41.6%) have undergone complete reconstruction from katcha to semi-pucca and from semipucca to pucca. Another 30.4% of the improved houses involve only repairs and maintenance by way of rethatching and white Yet another 20% of the improved houses have undergone improvement and modification of either the floor, wall or the In Calicut, the largest proportion of improved houses (42.9%) have involved only repairs and maintenance. of only the wall or roof or floor has been carried out in about one-third of the improved dwelling units. This has been carried out in about 55% of the improved dwelling units in Trivandrum. Thus barring the slums of Cochin, reconstruction from katcha to pucca and semi-pucca and from semi-pucca to pucca is found relatively less in number.
- 3.15 Who are the people who have brought about improvement and modification in their dwelling units? Do they have better income levels? The type of improvement according to the area occupied is tabulated in table 3.12. Area occupied has been taken here as a proxy for income. It is seen from this table that there does not exist any relationship between the two. Reconstruction is prevalent in all the size categories of dwelling units presently occupied by the slum dwellers. So is the case with other types of improvements.
- 3.16 The type of improvement undertaken by the households belonging to different income group is presented in table 3.13. This table also does not show any relationship between income and

the nature of improvement. The largest number of reconstruction from katcha to other types is found to have occurred in the income groups of Rs 201 to Rs 1000. Improvement of any one of the wall, roof and floor is found to have been done by a large number of households having an income of Rs 201 to Rs 1400. It thus suggests that income and the area occupied is not at all instrumental in impelling the households to go for improvement. It is the sheer necessity to live in a wholesome shelter that motivates the slum dwellers to bring about improvement in their dwelling units.

Funding of Improvement

The respondents were asked to indicate the sources from which they raised funds for bringing about improvements in thier houses. The responses given by them is tabulated ine table 3.14. A look at the table indicates that more than three-fourth of the households who improved thier shelter have financed Out of the remaining one-fourth households, about themselves. 12% of them financed the improvement with government assistance and another about 12% raised funds from other sources which include assistance from friends and relatives. Self-help in shelter improvement is thus found to be a dominant feature in the three cities together. This is found to be dominant in every aspect of shelter improvement whether it is reconstruction, improvement of either the wall, roof or floor or addition of room and repairs and maintenance.

Table 3.1
Area Occupied by Dwelling Units

| Area in sq mts. | Сг | licut | Coc | hin | Triv | andrum | To | otal |
|-----------------|-----|--------|-----|--------|------|--------|------|-------|
| | No. | % | No. | % | No. | % | No. | % |
| < 25 | 362 | 95.3 | 148 | 41.1 | 9 | 3.5 | 519 | 51.9 |
| 26 - 40 | 15 | 3.9 | 91 | 25.3 | 17 | 6.5 | 123 | 12.3 |
| 41 - 56 | - | - | 27 | 7.5 | 2 | 0.8 | 29 | 2.9 |
| 57 - 72 | 1 | 0.3 | 25 | 6.9 | 13 | 5.0 | 39 | 3.9 |
| 73 - 88 | 1 | 0.3 | 24 | 6.7 | 32 | 12.3 | 57 | 5.7 |
| 89 - 104 | - | - | 9 | 2.5 | 12 | 4.6 | 21 | 2.1 |
| 105 - 120 | - | - | 1 | 0.3 | 3 | 1.2 | 4 | 0.4 |
| 121 - 136 | - | - | 14 | 3.9 | 30 | 11.5 | 44 | 4.4 |
| 137 - 151 | 1 | 0.3 | 3 | 0.8 | 12 | 4.6 | 16 | 1.6 |
| 152 + | - | _ | 18 | 5.0 | 130 | 50.0 | 148 | 14.8 |
| Total | 380 | 100.00 | 360 | 100.00 | 260 | 100.00 | 1000 | 100.0 |

Table 3.2

Type of Structure of Dwelling Units

| Type of dwelling | | Calicut | | Cochin T | | | 1m | Total |
|------------------|-------|---------|-----|----------|-----|-------|------|-------|
| units | NO. % | | No. | No. % | | No. % | | % |
| | | | | | | | | |
| Pucca | 66 | 17.4 | 61 | 16.9 | 8 | 3.1 | 135 | 13.5 |
| Semi Pucca | 150 | 39.5 | 132 | 36.7 | 153 | 58.8 | 435 | 43.5 |
| Katcha | 164 | 43.2 | 167 | 46.4 | 99 | 38.1 | 430 | 43.0 |
| | | | | | | | | |
| Total | 380 | 100.0 | 360 | 100.0 | 260 | 100.0 | 1000 | 100.0 |

Table 3.3

Distribution of Dwelling Units according to Area Occupied and Type of Structure

| Area occupied sq mts. | d | | | | | | | |
|-----------------------|-----|------|-----|------|-----|------|------|--------|
| | | . % | | % | | | | |
| < 25 | 80 | 15.4 | | | | | | |
| 26-40 | 19 | 15.4 | 60 | 48.8 | 44 | 35.8 | 123 | 100.00 |
| 41-56 | 1 | 3.4 | 14 | 48.3 | 14 | 48.3 | 29 | 100.00 |
| 57-72 | 4 | 10.3 | 20 | 51.3 | 15 | 38.5 | 39 | 100.00 |
| 73-88 | 8 | 14.0 | 25 | 43.9 | 24 | 42.1 | 57 | 100.00 |
| 89-104 | 2 | 9.5 | 10 | 47.6 | 9 | 42.9 | 21 | 100.00 |
| 105-120 | 1 | 25.0 | - | - | 3 | 75.0 | 4 | 100.00 |
| 121-136 | 5 | 11.4 | 18 | 40.9 | 21 | 47.7 | 44 | 100.00 |
| 137-151 | 1 | 6.3 | 11 | 68.8 | 4 | 25.0 | 16 | 100.00 |
| 152+ | 14 | 9.5 | 94 | 63.5 | 40 | 27.0 | 148 | 100.00 |
| Total | 135 | 13.5 | 435 | 43.5 | 430 | 43.0 | 1000 | 100.00 |

Table 3.4

Type of Structure by Use

| Use | Pu | ıcca | Semi | pucca | Kut | cha | То | tal |
|--|---------|------|------|-------|-----|------|-------------------|--------|
| | No. | | | | No. | | | % |
| Residential | 130 | | | | | | | 100.00 |
| Residential cum Commercial Residential | 5 | 11.9 | 20 | 47.6 | 17 | 40.5 | | 100.00 |
| cum Industrial | - | - | 10 | 83.3 | 2 | 16.7 | 12 | 100.00 |
| Others | - | - | 2 | 66.7 | 1 | 33.3 | (1.2) 3 (0.3) | 100.00 |
| Total | 135 | 13.5 | 435 | 43.5 | 430 | 43.0 | 1000 | 100.00 |

 $\begin{tabular}{ll} Table & 3.5 \end{tabular}$ Type of Structure according to Ownership

| Type of | | | Str | ucture H | ousehol | .ds | | | |
|--------------|-----|-------|-----|----------|---------|------|---------------|--------|--|
| ownership | I | Pucca | | i Pucca | | cha | Total | | |
| | No. | % | No. | | No. | % | | | |
| Tenant (1-3) | 40 | | | | | | 207 (20.7) | | |
| Owner (4-6) | 94 | 12.4 | 331 | 43.5 | 336 | 44.2 | 761 (76.7) | 100.00 | |
| No Response | 1 | 3.1 | 16 | 50.0 | 15 | 46.9 | 32 (3.2) | 100.00 | |
| Total | 135 | 13.5 | 435 | 43.5 | 430 | 43.0 | 1000 | 100.00 | |

Table 3.6
Distribution of Households according to Duration of Stay and Type of Structure

| | | | Typ | e of Str | ucutur | е | | |
|------------------|-----|------|-----|----------|--------|-------|------|--------|
| Duration of stay | | | Se | | Kı | utcha | J | Total |
| (years) | No | . % | No | . % | No. | % | No | % |
| < 1 | | | | 100.00 | | | | 100.00 |
| 2-4 | 1 | 16.7 | 3 | 50.0 | 2 | 33.3 | 6 | 100.00 |
| 5-9 | 1 | 25.0 | 2 | 50.0 | 1 | 25.0 | 4 | 100.00 |
| 10-14 | 2 | 15.4 | 7 | 53.8 | 4 | 30.8 | 13 | 100.00 |
| 15-19 | 1 | 10.0 | 2 | 20.0 | 7 | 70.0 | 10 | 100.00 |
| 20+ | 13 | | | 50.5 | | 35.2 | | |
| Total | 18 | 14.4 | 61 | 48.8 | 46 | 36.8 | 125 | 100.00 |
| No response | - | | _ | | 2 | | 2 | |
| Not applicable | 117 | | 374 | | 382 | | 873 | |
| Grand total | 135 | | 435 | | 430 | | 1000 | |

 $\begin{tabular}{ll} Table & 3.7 \\ \hline \begin{tabular}{ll} Distribution of Dwelling Units according to Use \\ \hline \end{tabular}$

| Use | C | alicut | Со | chin | Tri | vandrum | То | tal |
|----------------------------------|-------------|--------|----|--------|-----|---------|----|-----|
| | No. | % | | % | | | | |
| Residential | | | | | | | | |
| Residential cum Commercial | 5 | 1.3 | 4 | 1.1 | 33 | 12.7 | 42 | 4.2 |
| Residential cum Industrial | 1 | 0.3 | ,_ | | 11 | 4.2 | 12 | 1.2 |
| Others | 1 | 0.3 | 2 | 0.6 | - | - | 3 | 0.3 |
| Total % | 380 38.0 | 100.00 | | 100.00 | | 100.00 | | |

Table 3.8

No. of Dwelling Units Improved

| Type | C | alicut | Co | chin | Tri | vandrum | То | tal |
|--|-----|--------|--------------|--------|--------------|---------|----------------|--------|
| AND 100 100 100 100 100 100 100 100 100 10 | No. | % | No. | % | No. | % | No. | % |
| Improved | 52 | 13.7 | 123 | 34.2 | 163 | 62.7 | 338 | 33.8 |
| Not improved | 328 | 86.3 | 237 | 65.8 | 97 | 37.3 | 662 | 66.2 |
| Total 38 | 380 | 100.00 | 360 36.00 | 100.00 | 260 26.00 | 100.00 | 1000 100.00 | 100.00 |

Table 3.9

No. of Dwelling Units Improved with Year of Improvement

| Year of | | | | | | | | tal |
|----------------|------------|--------|--|--------|-------------|------|---------------|--------|
| improvement | No. | % | No. | % | No. | % | No. | % |
| < 1 | | | | 10.7 | | | | |
| 2-4 | 24 | 43.6 | 53 | 40.5 | 102 | 61.4 | 179 | 50.9 |
| 5-9 | 15 | 27.3 | 17 | 13.0 | 18 | 10.8 | 50 | 14.2 |
| 10-14 | 4 | 7.3 | 17 | 13.0 | 20 | 12.0 | 41 | 11.6 |
| 15-19 | 3 | 5.5 | 9 | 6.9 | 9 | 5.4 | 21 | 6.0 |
| 20+ | 7 | 12.7 | 21 | 16.0 | 11 | 6.6 | 39 | 11.1 |
| Total | 55 15.6 | 100.00 | $\begin{array}{c} 131 \\ 37.2 \end{array}$ | 100.00 | 166 47.2 | 47.2 | 352 100.00 | 100.00 |
| Not applicable | 325 | | 229 | | 94 | | 648 | |

Table 3.10

No. of Improved Dwelling Units according to Type of Structure

| No. of dwell | ing | | Тур | e of str | ucutur | e | | |
|-----------------------------------|-----|------------|-----|----------|--------|------|--------|--------|
| No. of dwell units improv (years) | | | | | | | | |
| | | ~~~~~ % | No. | % | No. | % | No. | % |
| < 1 | 4 | 7.5 | | 5.1 | | 7.4 | 22 | 6.3 |
| 2-4 | 15 | 28.3 | 91 | 51.4 | 73 | 59.8 | 179 | 50.9 |
| 5-9 | 10 | 18.9 | 25 | 14.1 | 15 | 12.3 | 50 | 14.2 |
| 10-14 | 8 | 15.1 | 23 | 13.0 | 10 | 8.2 | 41 | 11.6 |
| 15-19 | 6 | 11.3 | 9 | 5.1 | 6 | 4.9 | 21 | 6.0 |
| 20+ | 10 | 18.9 | 20 | 11.1 | 9 | 7.4 | 39 | 11.1 |
| | | | | | | | | |
| | 53 | 100.00 | 177 | 100.00 | 122 | 34.7 | 100.00 | 100.00 |
| Not applicable | 0.0 | | 250 | | 308 | | 648 | |

Table 3.11
Nature of Improvement

| Nature of | | licut | | | | andrum | Tot | al |
|--|-----------|--------|-----|--------|-----|--------|---------------|--------|
| improvement | No. | % | No. | % | No. | % | No. | % |
| Reconstruction from kutcha to semi pucca & semi pucca to pucca | 9 | | 52 | | 28 | 17.4 | 89 | 26.6 |
| Addition of room | 2 | 4.1 | 10 | 8.0 | 6 | 3.7 | 18 | 5.4 |
| Improvement of any one (modification roof, wall, floor) | 16 | 32.7 | 25 | 20.0 | 88 | 54.7 | 129 | 38.5 |
| Addition of latrine/bathroom/kitchen | - | - | - | - | 2 | 1.2 | 2 | 0.2 |
| Repairs/ maintenance, rethatching and white wash | 21 | 42.9 | 38 | 30.4 | 31 | 19.3 | 90 | 26.9 |
| Fixtures/ fittings | 1 | 2.0 | _ | - | 6 | 3.7 | 7 | 2.1 |
| Any other | - | - | - | - | | | - | |
| | 49 4.6 | 100.00 | | 100.00 | | 100.00 | 335 100.00 | 100.00 |
| Not applicable | 331 | | 235 | | 99 | | 665 | |

Table 3.12

Nature of Improvement according to the Area Occupied by Dwelling Units

| Area | | Natur | e of Imp | prove | ement | | No res- | | | Grand total |
|----------|--------|--------|----------|-------|---------|--------|------------|-----------|-------|----------------|
| occupied | 1 | 2 | 3 | 4 | 5 | | pon- | 1 i | | |
| sq mts. | 1 | 2 | 0 | | Ü | | se | (| cable | |
| | | | | | | | | | | |
| < 25 | 27 | 9 | 27 | - | 25 | 1 | | 89 | 428 | 519 |
| . 20 | (30.3) | (10.0) | (30.3) | - | (28.1) | (1.2) | - | (100.0) | - | - |
| 26-40 | 15 | 2 | | - | 12 | 1 | - | 47 | 76 | 123 |
| 20 10 | | (4.3) | (36.2) | - | (25.5) | (2.1) | - | (100.0) | - | _ |
| 41-56 | 2 | | 1 | | 3 | - | - | 6 | 23 | 29 |
| 11 00 | (33.3) | - | (16.7) | _ | (50.0) | - | _ | (100.0) | _ | _ |
| 57-72 | 8 | | 13 | | 1 | - | | 23 | 16 | 39 |
| 0, | (34.8) | (4.3) | (56.3) | - | (4.3) | - | - | (100.0) | - | _ |
| 73-88 | 7 | | 19 | 1 | 5 | - | - | 32 | 25 | 57 |
| | (21.9) | - (| 59.4) (| 3.1) | (15.6) | - | - | (100.0) | - | - |
| 89-104 | 2 | _ | 3 | | 4 | - | - | 9 | 12 | 21 |
| 00 101 | (22.2) | _ | (33.3) | _ | (44.4) | - | - | (100.0) | _ | - |
| 105-120 | _ | - | 1 | | 2 | 1 | - | 4 | - | 4 |
| 100 1=0 | _ | - | (25.0) | - | (50.0) | (25.0) | | (100.0) | - | _ |
| 121-136 | 5 | 2 | 9 | | - C | 2 | | 28 | 15 | 44 |
| 121 100 | | | (32.1) | - | (35.7) | (7.1) |) – | (100.0) | _ | - |
| 137-151 | 3 | _ | 4 | | 3 | 1 | | 11 | 5 | 16 |
| 10, 101 | (27.3) | - | (36.4) | _ | (27.3) | (9.1) | | (100.0) | | |
| 152+ | 20 | 4 | 35 | 1 | 25 | 1 | | 86 | 62 | 148 |
| 102. | (23.3) | (4.7) | (40.7) | (1.2 |)(29.1) | (1.2) |) – | (100.0) | | - |
| Total | 89 | 18 | 129 | 2 | 90 | 7 | 3 | 335 | 662 | 1000 |
| IUCAI | | | (38.5) (| | | | | | | |

^{1 -} Reconstruction from kutcha to semi-pucca & semi-pucca to pucca.

^{2 -} Addition of room.

^{3 -} Improvement/modification of either the wall, roof or floor.

^{4 -} Addition of latrine/bathroom/kitchen.

^{5 -} Repairs and maintenance, rethatching & white washing.

^{6 -} Fixtures fittings.

Table 3.13 Nature of Improvement of Shelter according to Income Group

| Household Income | | | | | | | ovement | | |
|------------------|--------------|-------------|--------------|---------|--------------|-------------|---------------|------|-------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | Total | N.A. | Grand total |
| < 100 % | 2 | - | 4 | - | 10 | - | | 22 | |
| 101-200 | 4 (40.0) | - | 3 (30.0) | | 3 (30.0) | - | 10 (100.0) | 28 | 38 |
| 201-400 % | 11 (20.8) | 2 (3.8) | 21 (39.6) | 1 (1.9) | 16 (30.2) | 2 (3.8) | 53 (100.0) | 206 | 259 |
| 401-600 % | 22 (29.7) | 3 (4.1) | 28 (37.8) | - | 21 (28.4) | | 74 (100.0) | 161 | 235 |
| 601-800 K | 17 (27.0) | 4 (6.3) | 26 (41.3) | - | 15 (23.8) | 1 (1.6) | 63 (100.0) | 85 | 148 |
| 001-1000 4 | 12 (30.0) | 2 (5.0) | 14 (35.0) | 1 (2.5) | 10 (25.0) | 1 (2.5) | 40 (100.0) | 60 | 100 |
| 001-1200 | 5 (35.7) | - | 6 (42.9) | - | 3 (21.4) | 7. | 14 (100.0) | 19 | 33 |
| 201-1400 | 3 (17.6) | 2 (11.8) | 10 (58.8) | - | 2 (11.8) | - | 17 (100.0) | 25 | 42 |
| 401-1600 | 4 (26.7) | 1 (6.7) | 3 (20.0) | - | 7 (46.7) | - | 15 (100.0) | 11 | 26 |
| 601-1800 | 3 (27.3) | - | 5 (45.5) | - | 2 (18.2) | 1 (9.1) | 11 (100.0) | 4 | 15 |
| 801-2000 | 1 (12.5) | - | 3 (37.5) | - | 3 (37.5) | 1 (12.5) | 8 (100.0) | 5 | 13 |
| 001+ | 8 (25.8) | 5 (16.1) | 12 (38.7) | - | 5 (16.1) | 1 (3.2) | 31 (100.0) | 22 | 53 |
| | 92 | 19 | 135 | 2 | 97 | 7 | 352 | 648 | 1000 |

^{1 -} Reconstruction from kutcha to semi-pucca & semi-pucca to pucca.

^{2 -} Addition of room.

^{3 -} Improvement/modification of either the wall, roof or floor.

^{4 -} Addition of latrine/bathroom/kitchen.

^{5 -} Repairs and maintenance, rethatching & white washing. 6 - Fixtures & fittings.

N.A. - Not Applicable

Table 3.14

Nature of Improvement according to Sources of Funding

| Source of funding | | | | | | lature of | lmpro | venent | | | | | | |
|--------------------------|-----|-------|-----|-------|-----|-----------|-------|--------|-----|-------|-----|-------|-------|-------|
| | | 1 | | 2 | | 3 | | 4 | | 5 | | 6 | Total | |
| | No. | X | No. | X | No. | % | No. | " " | No. | % | No. | ž | No. | % |
| Gove. Credit or grant | 14 | 15.22 | 1 | 5.26 | 18 | 13.33 | | - | 7 | 7.22 | - | | 40 | 11.36 |
| Own effort | 68 | 73.91 | 16 | 84.21 | 110 | 81.48 | 2 | 100.0 | 69 | 71.13 | б | 85.71 | 271 | 76.99 |
| Others' assistance | 10 | 10.87 | 2 | 10.53 | 7 | 5.19 | 4 | •: | 21 | 21.65 | 1 | 14.29 | 41 | 11.65 |
| Total | 92 | 100.0 | 19 | 100.0 | 135 | 100.0 | 2 | 100.0 | 97 | 100.0 | 7 | 100.0 | 352 | 100.0 |

^{1 -} Reconstruction from kutcha to semi-pucca & semi-pucca to pucca.

^{2 -} Addition of room.

^{3 -} Improvement/modification of either the wall, roof or floor.

^{4 -} Addition of latrine/bathroom/kitchen.

^{5 -} Repairs and maintenance, rethatching & white washing.

^{6 -} Pixtures fittings.

CHAPTER IV

ECONOMIC PROFILE

4.1 sample survey of households in the slums of Trivandrum, Cochin and Calicut reveals a better employment situation in the slums as compared to the overall employment situation in the urban settlements of Kerala as a whole and also in the three cities individually. The sample slums in the three cities have a population of 5827. Out of this, 1699 are workers and 4127 are non-workers (table 4.1). For the remaining one member in a Calicut slum, the household respondent did not offer any answer. Thus the participation rate amongst the slum population in the three cities taken together comes to 29.16. This is higher than the participation rate of the total urban population of the State of Kerala (24.86). The participation rates in the cities of Trivandrum, Cochin and Calicut, according to 1981 Census, are 25.49, 26.07 and 22.71 respectively (table In Trivandrum, there are 506 workers in the sample slums out of a population of 1454 which gives a participation rate of This is not only higher than the participation rates in the urban areas of Kerala as a whole and in the three cities individually, but is also the highest amongst the sample slums of In Cochin, there are 599 workers out of the three cities. population of 2201. In Calicut, there are 594 workers out sample population of 2172. The participation rates in the slums of three cities are thus not only higher than the average for all the urban areas of the state but is even higher than the

participation rates obtaining in the cities of Cochin (26.07) and Calicut (22.71).

- Non-working population according to types is presented in table 4.3. It should be obvious from this table that non-workers consist of students, domestic workers and houswives, disabled pensioners, too young to work, those seeking job, doing nothing, old and apprentices.
- Data on workers and the types of economic activities 4.3 they are engaged in, have been tabulated in this study following the Census of India's National Classification of occupation with some modification in view of the prepondenace of a particular type of occupations in the slums. The data collected from the household survey revealed that Administrative, Executive under the National Classification Workers Managerial Occupation (NCO) are not to be found in the slums. Therefore, tabulation category has been dispensed with in occupation. Secondly, the "Service Workers" category of the NCO has been subdivided into (a) skilled workers and (b) unskilled Thirdly, the "Farmers, Fisherman, Hunters" category of the NCO has been modified to have only the fishermen due to the prevalence of fishermen in the sample slums of the three cities.

Type of Workers

4.4 Classification of workers according to type of occupation (table 4.4) reveals that in all the sample slums in the three cities, more than three-fifth (61.6%) of the working population

are unskilled workers. It includes loaders and unloaders, domestic servants, maids and related house keeping service workers, watchmen, chowkidars, gate keepers and other unskilled labourers. The cities of Trivandrum, Cochin and Calicut being the coastal cities, the second largest group after the unskilled workers are the fishermen who constitute about 14% of the labour force in the sample slums of the three cities. Other types of occupational groups are sale workers (5%), production and related workers (3.8%), workers not classified elsewhere (7.8%), skilled workers (3.2%), clerical workers (2.2%) and professional and technical workers (2.3%).

4.5 Amongst the three cities, the unskilled workers are predominant in Calicut (71.5%) and Cochin (69.4%) as Calicut happens to be a centre of trade and commerce and Cochin has a port where a large number of workers are engaged as loaders and unloaders. The number of unskilled workers in Trivandrum is relatively less (40.7%) as it is the capital city and has a preponderance of government jobs. This is reflected in the highest number of clerical workers in Trivandrum (5.3%) amongst the three cities. Fishermen are the largest in number in Calicut (21.5%) and Trivandrum (13.2%). In Cochin, only 7.5% of the workers are engaged in fishing. Next to unskilled workers, Trivandrum has the largest proportion of workers (15.2%) working as diverse type of labour which is not classified elsewhere. is interesting to note that even though Calicut is the centre trade, it is in Trivandrum where 10% of workers are working workers doing specialised jobs. In Calicut, it sale

negligible (0.7%). It is again in Trivandrum where amongst the three cities, the largest number of workers are engaged in productive activities (7.3%).

- 4.6 Male, Female and Child Workers: Analysis of workers by sex and age indicates that there is the dominance of male workers in all the sample slums in the three cities (table 4.5). In the three cities taken together, more than 82% of the workers are male (1400). Female workers (291) constitute only 17 per cent of the total working force. It is gratifying to note that the child labour is almost negligible as in the three cities together, there are only eight children working for a livelihood out of which five are in Calicut, two in Cochin and one in Trivandrum. Amongst the three cities, Calicut has the smallest number of female workers (48) which constitutes only 8% of the total working force of the sample slums in this city. Only Trivandrum has more than one-fourth female workers (137) of the total working force (506) in the sample slums of this city. In Cochin, only about 18% of the total working slum population is female.
- 4.7 The female workers are, by and large, working as unskilled workers, and in fisheries in the three cities. In Calicut and Cochin, about 74% to 85% of the female workers are working as unskilled labour. In Trivandrum, however, only a little more than one-third of the female workers are engaged as unskilled workers. Some of the working women are also working as sale workers and skilled workers in the sample slums of this city. The working children (only eight in the three cities) are also working as unskilled labour and fishermen.

Earners by Religion

4.8 The analysis of sample households in the three cities in Chapter II has revealed that the three cities taken together have the maximum proportion of Muslims (47%). The analysis of earners by religion, however, reveals that even though Muslims constitute the largest proportion of total earners (43.8%), it is the Hindus who are dominating in the white collar jobs like Professional and Technical, Clerical and Business and Sale jobs (table 4.6). They are dominating even in skilled jobs. The Muslims are dominating as fishermen and in unskilled jobs. Christians and Muslims together constitute about 94% of the total workers engaged as fishermen. Next to fisheries, the Christians are also conspicous in number in business and sale and production and related jobs.

Monthly Income

The data on household income are presented 4.9 table 4.7. The household income has been computed by aggregating the incomes of all the earners in the household. The accruing incomes were disclosed by the respondents themselves. During the course of interviews with the respondents, it was observed that there was a tendency on the part of the respondents to hegitate in disclosing the income earned by them and the income reported by them, seemed to be rather on the lower side than the prevailing wage rates in the three cities. On persistent the respondents (the casual wage probing, earners in particular) attributed it to the lesser number of days in a month on which they are able to get actually employed. It is

worthroting that the income reported by the respondent households is direct cash income and does not include any indirect income.

A look at table 4.7 reveals a skewed distribution of income in the sample slums of the three cities taken together. About 56% of the slum households in the three cities have an income of less than Rs 600/- per month. Another about 29% of the households have monthly income of Rs 601/- to 1200/- and about 9.8% of the households have an income of Rs 1201 to 2000 per month. The number of households having an income of more than Rs 2000 constitutes 5.40% of the total number of households

Amongst the three cities, the slums in Calicut seem to 4.11 have even more skewed distribution of income. As many as about 79% of the slum households have a monthly income of less than Rs Another 17% have an income of Rs 601 to Rs 1200 per month and only 4% have a household income of Rs 1201 to Rs 2000. is hardly any family having an income of more than Rs 2000 per month in Calicut slums. In Cochin as well, there exists a skewed distribution of income amongst the slum households but not as skewed as in Calicut. 48.17 of the households have a monthly income of less than Rs 600. Another 36.26% have monthly family income of Rs 601 to Rs 1200 and 11.32% have monthly income of Rs 1201 to Rs 2000. 15 families in Cochin slums constituting 4.25% of the total sample households have monthly income of more than Only the slums in Trivandrum present a different pattern of income distribution amongst the slum households. Roughly about one-third of sample households (32.8%) have income of less than Rs 600 per month. Another 35.6% of the households

have an income of Rs 601 to Rs 1200 per month and about 16% have an income of Rs 1201 to Rs 2000 per month. In Trivandrum, 15.2% of the slum households have a monthly income of more than Rs 2000.

4.12 The analysis of average household income thus reveals a great deal of variation in the slums of three cities. In Trivandrum, the slum households have the highest average income of Rs 1107 per month. The average household income in Cochin is Rs 764 and it is the lowest in Calicut which is about Rs 484.

Poverty Level

The official national poverty line for the urban areas is a per capita monthly income of Rs 122 at 1984-85 prices. Assuming an average family size of five, the official poverty line for the households has been fixed at an annual household income of Rs 7300 (a monthly income of about Rs 610).* Accordingly, as many as about four-fifths of the total slum households in Calicut are found living below the poverty This in the case of Cochin and Trivandrum, is 48.17% and 32.8% respectively. As against this, the proportion of population below the poverty line in the country as a whole and in Kerala is 27.7% and 30.1% respectively. Apparently, the level of poverty in the slums of Calicut, Cochin and Trivandrum seems much serious despite a relatively better participation rate.

^{*} NIUA, Approach to Urban Poverty: A position Note, Research study November 27,1988.

Number of Earners and Household Income

- 4.14 The number of earners in the households is presented in table 4.8 for all the three cities. Out of 982 households, (who answered the question on earners), more than half (56.9%) are single earner households. A little more than one-fourth (27.9%) of the households have two earners and 9.6% have three earners. Only 34 slum households in the three cities have four earners. The number of households having more than four earners is still less, that is, 21 only. Single earner families apparently have low incomes. A look at table 4.8 reveals that the single earner households are concentrated upto an income of Rs 1000. The proportion declines thereafter. On the other hand, the multi-earner families belong to higher income groups.
- 4.15 The number of earners in the sample slums of the three cities individually is presented in table 4.9. The same trend is discernible from this table as well. Calicut has the largest number of single earner families amongst the three cities. Average monthly income per earner which has been worked out separately, indicates that there does not exist as wide a variation in the three cities as is found in the case of average household income. The average income per earner in Calicut is about Rs 309 which is the lowest amongst the three cities. In Cochin, it is only marginally higher at Rs 450 and in Trivandrum it is Rs 547.

Household Income and Family Size

4.16 Household income and family size have been tabulated in table 4.10 for the sample slums of the three cities taken together as also for the three cities separately. It reveals that the proportion of households having large families increases with household income. Thus for the three cities taken together, the percentage of families having more than 7 members is increasing along with increase in the household income. This increases from 9.5% in the income group of Rs 201 to Rs 400 to 46% in the income range of Rs 1801 to 2000 and then marginally declines to 41.5% for the income range of more than Rs 2000. The proportion of families having upto only two members is found to be declining from 22.5% in the monthly income range of Rs 101-200 to around 3% in the higher income brackets. The trend, by and large, holds good in the three cities individually as well.

Dependency Ratio

4.17 How many family members, on an average, each earner has to support economically? The dependency ratio (ratio of workers to non-workers) for the sample slums of all the three cities together comes to 2.43 which suggests that each worker has to support about 2.43 members. Only in Trivandrum, the dependency ratio is found to be less (1.87) than this average for the three cities. This is one of the important reasons for a higher average household income in the sample slums of Trivandrum. This for Calicut and Cochin is 2.65 and 2.67 respectively, as is obvious from table 4.11.

Family Income and Caste

An attempt was made in the survey to know the earnings of the depressed castes like the Scheduled Caste (SC) and Scheduled Tribes (ST). The data have been presented in table 4.12 for these castes seperately alongwith the monthly household earnings of other castes. It is interesting to note that the proportion of earners belonging to SC and ST precisely follows the proportion of these two castes in the total number of households (table 2.2). However, except the slums of Trivandrum, the levels of earnings of the SC and ST in Calicut and Cochin are to be lower. In Calicut, the SC families earn upto Rs 800 per month only. The household income in Cochin for the SC families is up to Rs 1400 per month. Only in Trivandrum, 71% of households have a monthly income of more than Rs 2000. The ST in Calicut have a monthly earnings of upto Rs 1000 and upto Rs 1200 in Cochin. In Trivandrum again the ST are found to be distributed in all the income ranges except the income range of Rs 1400-2000.

Monthly Expenditure by Income Groups

4.19 Distribution of households according to monthly income and monthly expenditure is tabulated in table 4.13. It suggests that quite a sizeable number of households are incurring expenditure which is in excess of their incomes. Such households are found in all the income groups except the income bracket of Rs 1801-2000. In the income group of less than Rs 100 as many as 10 out of 11 households reported incurring higher expenditure than their income. In the next income range (Rs 101-200) 50% of

the households are spending more than their income. In the income range of Rs 201-400. 59 households (out of 263) reported spending more. In the income range of Rs 401-600 more than one-fourth of families are found doing so. In all, as many as 221 households in the various income ranges reported spending more than their income. This comes to 22.50% of the total households who reported their monthly income.

- 4.20 The reasons for the imbalance between the income expenditure are two-fold. First, the inadequate income would be a compelling factor to either go for borrowing debts or adhere to dissavings for meeting the expenditure requirements. When asked presistently to explain this phenomenon, they said that the "meagre earnings" compel them to meet the expenditure requirements from any source whether it is by way of borrowings or by using the past savings. Another factor may be a tendency on the part of respondent households to under-report their incomes. In view of these, which factor is instrumental in this phenomenon can not be said with certainty. As is analysed susbsequently in this Chapter, in all, 932 families reported taking recourse to borrows which is much higher than 221 households who are found overspending.
- 4.21 What is the proportion of households whose spendings are in line with their incomes? A look at the table reveals that there is still a very large section of such households. The proportion of such households is found to be systematically increasing along with the increase in income range. Thus, in the

income group of Rs 101 to Rs 200, just about 50% of the households are spending up to Rs 200. In the next income range, the proportion of such households is about 81%. In the income range of Rs 401-600, about 74% of the households are found spending up to Rs 600. The proportion goes on increasing to about 95% in the income group of Rs 1201-1400. Such families are to the extent of about 88% in the income range of Rs 1401 to 1600 and about 93% in the next income range.

4.22 The analysis of households who are spending up to only 50% of their incomes suggests that in the income range of Rs 101-200, only 5% of the households are spending up to 50% of their In the next income group, there are about 31% of such households. The proportion increases to about 29% in the income range of Rs 401 to 600. It then falls to about 30% in the income range of Rs 601-800 and then rises again to about 42%. income ranges of Rs 1001 to Rs 1200 and Rs 1201 to Rs 1400 there are about 30% to 40% of the households who spend upto 45.24 of their incomes. In the higher income range of Rs 1401 - 1600, there are about 50% such households. This drops to about 46% in the income range of Rs 1601 to 1800. In the income range of Rs 1801 to 2000, there are about 69% of households who are spending up to 50% of their income. Thus roungly about one-third of the total households in the various income groups are spending up to 50% of their incomes. They are thus able to save about half of their monthly income.

4.23 Distribution of households according to monthly income and expenditure in the sample slums of Calicut, Cochin and

Trivandrum is presented in tables 4.14 to 4.16. table 4.14 shows that in Calicut, 19 slum households are found spending more than their income on the monthly basis. This phenomenon is observed up to a monthly income level of Rs 600. Of them, 9 households reported an income of up to Rs 200 per month and two households upto Rs 200-400 per month. The remaining 8 households belong to the monthly income group of Rs 401 to Rs 600. Barring these 19 households, the remaining sample households are found incurring a monthly expenditure which is very well within their economic means. Of them, 157 households are spending up to 50% of their monthly income. Thus about 41% of the total households who reported their income (379) are spending up to half of their monthly income.

In Cochin (table 4.15), as many as 97 households 4.24 reported spending more than their monthly income. households belong to all the monthly income groups except Rs 1601 and above. Only about 94 households are found spending up to 50% of their income. This comes to a little over one-fourth (27%) of the total reponding sample households in Cochin. In Trivandrum, slum (table 4.16), as many as 94 households reported spending more than their income. They are also found dispersed in all the income groups except the high income brackets of more than Rs 1801 per month. Thus about 38% of the sample households reported spending more than their monthly income. A small number of households (about 48) are spending upto 50% of their monthly income.

Expenditure on Specific Items

- The expenditure incurred by the slum household on various items in the three cities taken together and separately is presented in tables 4.17 to 4.18 (a, b and c). table 4.17 shows that more than three-fifth of the sample households in the slums of the three cities are spending only upto Rs 300 per month In fact as many as about 41% of the households are on food. spending only up to Rs 200 per month on food. Only a little over one-fifth of the households are spending more than Rs 500 per month on food. A yet very substantial segment of slum households (95.6%) is spending upto Rs 100 on shelter. Clothing accounts for less than Rs 100 per month for about 83% of the slum like water, electricity, transport, Service households. education and health also accounts for less than Rs 100 per month for about 59% of the slum households. Another about 20% of the households are spending between Rs 101 to Rs 200 per month on services which is on a higher side.
- 4.26 Amongst the three cities, in Calicut slums, about 93.5% of the households reported spending up to Rs 300 (table 4.18) on food items. In Cochin, relatively less number of slum households are spending more than Rs 300 per month. Only about 48% of the slum households are found spinding up to Rs 300 per month on food in Cochin slums. About one-fourth of the sample households are spending more than Rs 500 per month on food items. In Trivandrum, still higher proportion (47.2%) of the households are spending more than Rs 500 per month on food. This is again due to a relatively higher level of income in Cochin and Trivandrum.

However, shelter accounts for only upto less than Rs 100 per month for a very large number of slum households in the three cities. The percentage of such families in Calicut is 97 and in the slums of Cochin and Trivandrum, it is 96 and 92.8 respectively. Expenditure on services presents a great deal of variation in the three cities. Thus in Calicut, about 89% of the households are spending only up to Rs 100 per month. In Cochin, the number of such households constitutes only about 51% and in Trivandrum it is only about 34%. In Trivandrum a very large number of households (35.4%) are spending between Rs 101 and Rs 300 per month on services.

The analysis of expenditure pattern on various items of 4.27 expenditure thus suggests that the expenditure is related to Higher the income levels, larger is levels. proportion of households who are spending higher amounts on them. Table 4.19 shows that the expenditure on food accounts for a lion's share of total expenditure incurred by each income group. It varies from 61% for the households with a monthly income of Rs 100 to 58% for those having a monthly income of more than Rs In between, only in the monthly income groups of Rs 601-2000. Rs 1001-1400, and Rs 1601-1800, the proportion 800, expenditure is less than 58%. Thus on, an average, about 59% of the total expenditure incurred by all the households goes to food Shelter accounts for only about 6% of the total items. expenditure of all the income groups. Only the households in the income group of Rs 601-800 and Rs 1001-1200 per month are found spending about 15% of their total expenditure on shelter. The

households belonging to the income group of Rs 1201-1400 are spending 9.5% of their total expenditure on shelter. The other income groups are spending very little (varying from 1% to a little over 3%) of their total expenditure on it. Clothing accounts for a little more proportion of total expenditure. It varies between 4.6% for the households having more than Rs 2000 of income per month to 12.5% for the households with income group of Rs 1401-1600. On an average, it accounts for 9% of the total expenditure of all the households.

4.28 It has been brought out by several surveys that the proportion of total expenditure on food declines alongwith an increase in income.* Is it so in the lums of the three cities as well? A look at tables 4.20 to 4.22 also suggest almost the similar trend though Trivandrum presents a different situation. Even in the slums of Calicut where the income levels are the lowest amongst the three cities, the proportion of total expenditure on food declines from 67.8% in the monthly income group of Rs 101-200 to 53% in the income group of Rs. 801-1000 but again increases to 63% in the next income group. It thus again declines (table 4.20). In the slums of Cochin also the proportion of total expenditure on food declines from 82% in the case of households with less than Rs 100 of monthly income Rs 1801-2000.

^{* &}lt;u>Sarvekshana</u>, Journal of NSSO, 38th Round; see also NIUA, <u>Approach to Urban Poverty: A Position Note</u>, 1988.

- 4.29 Services, which is another important item of expenditure, interstingly accounts for more than one-fifth (21.8%) of the total expenditure of all the income groups. The households in the income group of less than Rs 100 per month reported spending as much as 38% of their total expenditure on services. This seems to be very high indeed. Other income groups which are spending more than the average (21.8%) are Rs 101-400, Rs 801-1000, Rs 1201-1400, Rs 1601-1800 and more than Rs 2000. Thus the households in the three cities are spending about 28% of their total expenditure on shelter and services.
- 4.30 The proportion of expenditure on various items in the sample slums of the three cities individually is presented in tables 4.20 to 4.22.
- 4.31 Table 4.20 shows that the average expenditure of income groups on food items in Calicut is about 58% total monthly expenditure. The average expenditure on shelter comes to about 4% which is less than the average (6.2%) for the three cities taken together. Only the households in the income range of Rs 1201-1400 and Rs 1401-1600, are incurring expenditure on shelter which is higher than the average for the three cities. The proportion of expenditure on services is also lower (16.2%) than the average (21.8%) for the three cities. The proportion of total expenditure on services by the various income groups varies from 9.1% in the income group of Rs 1401-1600 to 17.2% in the income group of Rs 201-400. Expenditure on clothings is, however, higher than the average expenditure by the slum households in the three cities.

- 4.32 In Cochin slums (table 4.21), the proportion of expenditure on food is around 64% of the total expenditure for all the income groups which is a bit higher than the average for the three cities. The expenditure on shelter is also higher (7.3%) than what it is in Calicut. It is also higher also than the average expenditure on shelter for the three cities. The expenditure on services is just about the same (21.6%) as is the average for the three cities. This in Trivandrum, where the income level is the highest amongst the three cities, is also the highest (24.8%). The households in the income group of less than Rs 100 per mongh is, however, reported spending as high as 52% of their total expenditure on services! For other income groups, it varies from about 15% to 37% (table 4.22).
- 4.33 The analysis of expenditure pattern in the sample slums of the three cities thus shows that in Calicut, the households, on an average, are spending about 20% of their total expenditure on shelter and services. This in Cochin is about 30% and about 31% in Trivandrum.

Expenditure on Services

4.34 The proportion of total expenditure on different services is presented in table 4.23 for the sample slums of the three cities together and in tables 4.24 to 4.26 for the three cities seperately. table 4.23 shows that amongst all the components of services, the average expenditure on health constitutes the highest proportion of total expenditure on services of all the slum households. This is to the extent of

about 54% of the total expenditure on services. Education accounts for about one-fourth (24.7%) of the total expenditure on services. The average expenditure on transport constitutes about 12% of the total expenditure on services. The expenditure on electricity accounts for only 5.6% of the expenditure on services which seems to be on .pa a higher side, and water gets the lowest proportion, that is 0.5% of the total money spent on services.

4.35 Tables 4.24 to 4.26 depict that about 50% to 60% of the total expenditure on services is being spent by the slum households on health in Calicut, Cochin and Trivandrum. The highest proportion of expenditure on heatlh is discernible in Calicut (60.2%) and the lowest (49.7%) in Trivandrum. Thus, interestingly, the proportion of expenditure on health is found inversely related to the level of income. Education is next to health and also accounts for 17.2% of the total expenditure on services in Calicut, 23.5% in Cochin and 28.2% in Trivandrum. Expenditure on transport constitutes abouyt 11% of expenditure on services in Calicut, 10.5% in Cochin and about 13% in Trivandrum. Expenditure on water accounts for the lowest proportion of total expenditure on services in the three cities individually.

Monthly Savings

4.36 With a view to know the propensity to save of the households, the respondent households were asked to indicate their average monthly savings. Almost all the respondent households in the first instance, used to reply their inability to save due to "meagre income" and "high cost" of living. However, on persistent probing, they offered answers to this

question. The responses are tabulated in table 4.27. It reveals a very low propensity to save on the part of slum households. In Calicut, not a single slum household even in the higher income groups is found to be saving on the monthly basis. A very high proportion of households with low incomes (about 89% below a monthly income of Rs 800) explains the inability of the slum households to save. But as referred to earlier, even the higher income groups did not indicate that they are able to save on monthly basis. In Cochin, only 36 households (out of 353 responding households) are found to be in a position to save. This constitutes only about 10% of the total sample households in this city. As many as 32 out of them are able to save only upto Rs 1 to 50 per month. Thus an overwhelming proportion of total number of households who are actually saving, is in a position to save little. Another two households are able to have between Rs 51 to Rs 100 and the remaining one household is saving from Rs 101 to 150 per month.

4.37 In Trivandrum, the propensity to save does not seem to be any better. Here as well as many as 90% of the total responding slum households are not in a position to save. Out of 25 households who are able to save, ten households are able to save Rs 1-50 per month. Another three households are able to save Rs 51-100. A lone household belongs to the monthly saving category of Rs 101-150 and four households are in a position to save from Rs 151 to Rs 200 per month. The remaining seven households are able to save more than Rs 200 per month.

Accumulated Savings

Low propensity to save among slum households is also reflected in their total accumulated savings. table indicates that the slum households in Calicut, who are not in position to save, do not have any accumulated savings. Cochin, (table 4.29), out of 353 who households who revealed their monthly income, again 7 households did not offer response on the extent of accumulated savings. Thus out of household, only 17 households said that they had some accumulated savings. Only four of these 17 households have accumulated savings of more than Rs 501. Another two have an accumulated savings of only Rs 401 to Rs 500. The remaining 11 households have less than Rs 400 accumulated savings. In Trivandrum, only 22 (out of 250 households who disclosed their incomes) are found to have accumulated savings (table 4.30). Out of them 8 accumulated savings to the extent of more than Rs 501. household indicated to have a saving of Rs 401 to Rs 500 and the remaining 13 households have accumulated savings of less than Rs 300 only.

Household Debt

4.39 The respondent households were asked to indicate if they adhere to borrowing. The response given by the sample households indicates that a very large number of households take recourse to borrowing. A look at table 4.31 reveals that as many as 932 households take recourse to borrowing. Thus about 95% of the respondent households who answered this question are found to borrow money. Of them 328 households said that they adhere to

borrowing "regularly" and another 604 households said that they borrow money only "occassionally". Only 50 households said that they never resort to borrowings who belong to all the income groups (from less than Rs 100 to Rs 2000 and above). The households who are borrowing regularly, are also distributed in all income groups, though a large number of them are concentrated in the income groups of Rs 201 to 600. The largest number of borrowers, however, are found in the income group of Rs 201-400. After that the number of regular borrowers is found to taper off along with the increase in monthly income until the income group of Rs 2001 and more. The households borrowing occassionally are also found spread in all the income groups.

- Amongst the three cities, the largest number of 4.40 borrowers are found in Calicut (table 4.32). As many as 373 households (out of 379) said that they adhere to borrowing. number of such households is Cochin and Trivandrum is 327 (out of 360) and 232 (out of 260) respectively. The total number of regular borrowers in each city seems to be less than that of the the households borrowers. In Calicut slums, occassional borrowing only occassionally have an income of up to Rs 2000 In other cities, both the occassional borrowers and regular borrowers are spread in all the income groups.
- Reasons for Borrowing: What is it that the households have to borrow for? The frequency distribution of households according to reasons for borrowing is given for the three cities together in table 4.33 and also for the three cities separately in tables 4.34 to 4.36. It is seen from table 4.33 that in all

the sample slums of the three cities taken together, about 89% of the households, who are compelled to borrow, do so to meet the household expenditure needs. Other reasons do not seem to be very important and critical in taking recourse to borrowing. Amongst these, illness accounts for the borrowing of about six per cent of the slum households in the three cities. It has been mentioned earlier that about 221 households have been found spending more than their incomes. table 4.33, however, suggests that a larger number of households borrowing to meet their day to day expenditure needs. In Calicut and Cochin slums as well (table 4.34 and 4.35) around 90 to 94% of the slum households who adhere to borrowing do so to meet the household expenditure needs. Only in Trivandrum, only about 77% of the borrowers take recourse to borrowing to meet the household expenditure need (table 4.36). Illness and running of business together explain the borrowings of about 17% of the borrowing households. Thus in all the three cities, a very large number of households are found to be indulging in borrowings and again a very large proportion of them do so in order to meet the day-to-day expenditure needs.

4.42 <u>Sources of Borrowing</u>: The sources of borrowing as revealed by the borrowing households are presented in table 4.37. It shows that more than three-fourth of the borrowers borrow from money lenders and friends. In the three cities individually, these two sources are found domenant. In Cochin, as much as about three-fourths of the borrowers borrow from money lenders and about 27% from friends.

Security against borrowing: The analysis of sources of borrowing has shown that a very large proportion of households borrow from informal sources like money lenders and friends which does not involve any security to be pledged for raising the loan. table 4.38 therefore shows that about four-fifth of borrowers borrow without any security. 13% of the borrowers raise loans by pledging the ornaments. It should be obvious from this table that pledging of ornaments happens to be the major type of security for borrowing.

Distance Travelled and the Mode of Transport

- 4.44 Of the 1690 workers, 1590 workers answered to be question on distance and the mode of transport used in travelling to their work places. Of them, 36 workers are working in their dwelling units itself. Of the remaining 1554 workers, only 6 workers in the sample slums of the three cities are commuting a distance of less than one km. A very large number of 1497 workers have to travel a distance of 1 to 10 kms for attending to their work (table 4.38). 29 workers are commuting a distance of 11 to 20 kms and 15 workers travel a distance of 21 to 50 kms. Another 6 workers are travelling a distance of 51 to 76 kms. There is only one worker who is travelling a distance of more than 77 kms.
- 4.45 Amongst the three cities, in the sample slums of Calicut also as many as 584 workers consituting about 99% are of the total workers are commuting a distance of 1 to 10 kms (table 4.39). In Cochin slums also as many as 535 workers (96%) are

travelling a distance of 1 to 10 kms (table 4.40). In Trivandrum slums, however, 378 workers (93%) out of 406 are travelling this distance. Thus in the slums of the three cities a susbstanital number of workers are travelling up to 10 kms.

Mode of Transport

- The analysis of the mode of transport used by the workers in the three cities indicates that about 71% of them travel to work places on foot. Another about 8% of workers use bicycles as a mode of conveyance and about 18% of the workers travel by bus (table 4.38). The remaining workers are using other diverse types of transport. The proportion of workers travelling by foot in Calicut, Cochin and Trivandrum as well is very large. It is to the extent of about 82%, 72% and 54% respectively (tables 4.39 to 4.41). Next comes the users of bus. The largest number of bus users are found in the sample slums of Trivandrum (28%). The proportion of bus users in the slums of Cochin and Calicut is 19% and 9.5% respectively. The users of bi-cycle are the largest in number (13.5%) in Trivandrum slums as compared to Calicut (8%) and Cochin (4.3%).
- Thus a very large number of workers in the sample slums of the three cities are commuting a distance of about 10 kms and a very large proportion of them are travelling to their work places on foot.

Table 4.1 Distribution of Slum Population into Workers and Non-Workers

| Workers | (| Calicut | Co | chin | Triv | andrum | Tot | al |
|----------------|-------|-----------|-------|----------|------|--------|------|-------|
| 1102220 | No. | . % | No. | % | No. | % | No. | % |
| Workers | 594 | 27.4 | 599 | 27.2 | 506 | 34.8 | 1699 | 29.2 |
| Non workers | 1577 | 72.6 | 1602 | 72.8 | 948 | 65.2 | 4127 | 70.8 |
| No response | 1 | - | - | - | - | - | - | - |
| Total | 2172 | 100.0 | 2201 | 100.0 | 1454 | 100.0 | 5827 | 100.0 |
| Source: | NIUA, | Household | Surve | y, 1990. | 3 | | | |

Table 4.2

Participation Rate in Urban Kerala, the Cities of Trivandrum, Cochin, Calicut and the Sample Slums of the three Cities, 1981

| Particulars | Kerala | C | ities of | |
|-------------------------------|---------|------------|----------|---------|
| | | Trivandrum | Cochin | Calicut |
| 1. Urban population | 4771275 | 499531 | 513249 | 394447 |
| 2. No. of workers | 1186120 | 127346 | 133826 | 89580 |
| 3. Participation rate | 24.86 | 25.49 | 26.07 | 22.71 |
| 4. Population of sample slums | - | 1454 | 2201 | 2172 |
| 5. No. of workers | - | 506 | 599 | 594 |
| 6. Participation rate | - | 34.80 | 27.21 | 27.35 |

Source: Computed from the Census of India, 1981.

| Non-workers | 1 | Male | F | emale | Tot | |
|---------------------|-------|-------|------|-------|------|--------|
| | No. | % | No. | % | No. | % |
| 1. Students | | 52.1 | | | | |
| 2. Domestic workers | 23 | 2.2 | 1036 | 97.8 | 1059 | 100.00 |
| 3. Disabled | 20 | 66.7 | 10 | 33.3 | 30 | 100.00 |
| 4. Pensioners | 12 | 63.2 | 7 | 36.8 | 19 | 100.00 |
| 5. Too young | 209 | 52.1 | 192 | 47.9 | 401 | 100.00 |
| 6. Seeking job | 402 | 54.6 | 334 | 45.4 | 736 | 100.00 |
| 7. Doing nothing | g 153 | 28.5 | 363 | 71.5 | 536 | 100.00 |
| 8. Old | 49 | 29.9 | 115 | 70.1 | 164 | 100.00 |
| 9. Apprentice | 7 | 77.8 | 2 | 22.2 | 9 | 100.00 |
| Total | 1485 | 36.00 | 2640 | 64.0 | 4125 | 100.00 |
| No response | | | | - | 1 | - |
| Not applicable | - | _ | | - | 1 | - |
| Grand total | 1485 | 36.0 | 2640 | 64.0 | 4127 | 100.00 |

Table 4.4 Workers according to Type of Occupation

| | Calicut | Cochin | Trivandrum | Total |
|---|----------------|---------------|----------------|-----------------|
| 1. Profesional & technical workers | 20 | 9 | 10 (2.0) | 39 |
| 2. Clerical & related workers | 1(0.2) | 10 (1.7) | 27 (5.3) | 38 (2.2) |
| 3. Sale workers | 4 (0.7) | 31 (5.2) | 50 (10.0) | 85 (5.0) |
| 4. Fishermen | 128 (21.5) | 45 (7.5) | 67 (13.2) | 240 (14.1) |
| 5. Skilled workers | 6 (1.0) | 16 (2.7) | 32 (6.3) | 54 (3.2) |
| 6. Unskilled workers | 425 (71.5) | 416 (69.4) | 206 (40.7) | 1047 (61.6) |
| 7. Production and related workers | 2(0.3) | 25 (4.2) | 37 (7.3) | 64 (3.8) |
| 8. Other types not elsewhere classified | (1.3) | 47 (7.8) | 77 (15.2) | 132 (7.8) |
| Total | 594 (100.0) | (100.0) | 506 (100.0) | 1699 (100.0) |

Note: Figures in brackect indicate the percentage. Source: NIUA, Household Survey, 1990.

Table 4.5

Distribution of Workers according to Sex and Age

| Occupation | | Cal | ient | | | Cocl | hin | | | Triv | andrum | | | Tot | al | |
|---|-------------|---------------|------------|--------------|--------------|--------------|------------|--------------|-------------|----------------|------------|--------------|---------------|-------------|--------------|---------------|
| | Male | Penale | Child | Total | Male | Female | Child | Total | Male | Penale | Child | Total | Male | Penale | Child | Total |
| 1. Professional & technical workers | 10 | 9 | | | 9 | 7 | | Q | 6 | Á | - | 10 | 26 | 13 | - | 39 |
| 2. Clerical & related workers % | | - | - | 10.2 | 6 | 4 3.8 | - | 10 1.7 | 22 6.0 | 5 3.6 | - | 27 5.3 | 29 2.1 | 9 | - | 38 2.2 |
| 3. Sale workers | 4.0.7 | - | - | 0.7 | 31 6.3 | - | - | 31 5.2 | 23 6.3 | 27 19.7 | - | 50 10.0 | 58 4.1 | 27 9.3 | - | 85 5.0 |
| 4. Fishermen | | 5 10.4 | | 128 21.5 | 39 7.9 | 5.7 | | 45 7.5 | | | 1 100.0 | | | 27 9.3 | 2 25.0 | 240 14.1 |
| 5. Skilled workers | | - | - | 6 1.0 | 10 2.0 | 5 4.7 | 1 50.0 | 16 2.7 | 16 4.3 | 16 11.7 | - | 32 6.3 | 32 2.3 | 21 7.2 | 1 12.5 | 54 3.2 |
| 6. Unskilled workers | | 41 85.4 | | 425 71.5 | 337 68.6 | 78 73.6 | 1 50.0 | 416 69.4 | 156 42.4 | 50 36.5 | - | 206 40.7 | 873 62.4 | 169 50.1 | 5 62.5 | 1047 61.6 |
| 7. Production and related workers % | 20.4 | - | - | 2 | 23 4.7 | 2 1.9 | - | 25 4.2 | 27 7.3 | 10 7.3 | - | 37 7.3 | 52 3.7 | 12 4.1 | - | 64 3.8 |
| 8. Other types not elsewhere classified | 8 1.5 | - | , - , - | 8 1.3 | 43 8.8 | 4 3.8 | - | 47 7.8 | 68 18.5 | 9 6.6 | - | 77 15.2 | 119 8.5 | 13 4.5 | - | 132 7.8 |
| Total | 541 100. | 48 0 100.0 | 5 100.0 | 594 100.0 | 491 100.0 | 106 100.0 | 2 100.0 | 599 100.0 | 368 100. | 137 0 100.0 | 1 100.0 | 506 100.0 | 1400 100.0 | 291 100. | 8 0 100.0 | 1699 100.0 |

below 14 years of age including male and female children.

Table 4.6

Distribution of Earners according to Religion in the Three Cities

| | pe of | | | | R | | on | | | | |
|----|---|--------|--------|--------|-------|-----|------|-----|------|----------|-----|
| oc | cupation | C n | hrist: | ia- Hi | nduis | | slam | Ot | hers | Tota | al |
| | | | 0. % | No. | % | No | | No. | % | No. % | |
| 1. | Professiona & technical workers | | | | | | | | | | 0.0 |
| | Clerical & related workers | 6 | 15.8 | 28 | 73.7 | 3 | 7.9 | 1 | 2.6 | 38 100 | .0 |
| 3. | Sale worker | s 20 | 23.5 | 37 | 43.5 | 27 | 31.8 | 1 | 1.2 | 85 100 | .0 |
| 4. | Fishermen | 85 | 35.4 | 14 | 5.8 | 141 | 58.8 | - | - | 240 100 | .0 |
| 5. | Skilled workers | 6 | 11.1 | 37 | 68.5 | 10 | 18.5 | 1 | 1.9 | 54 100 | .0 |
| 6. | Unskilled workers | 103 | 9.8 | 420 | 40.1 | 524 | 50.1 | - | - : | 1047 100 | .0 |
| 7. | Production & related workers | 15 | 23.4 | 40 | 62.5 | 8 | 12.5 | 1 | 1.6 | 64 100 | .0 |
| 8. | Other types not else- where classified | 25 | 18.9 | 82 | 62.1 | 25 | 19.0 | _ | _ | 132 100 | .0 |
| | Total | | | | | | | | | 699 100 | .0 |

Table 4.7

Distribution of Households according to Monthly Income in the Sample Slums of the Three Cities

| Income group | | Calicut | | | Cochin | | | frivandr | | | Total | |
|-----------------|-----------|---------|-----------------------|-----------|--------|-----------------------|-----------|----------|-------|-----------|-------|--------------------------|
| (Rs) | Household | % | Cumulative percentage | Household | % | Cumulative percentage | Household | * | | Household | x | Cumulative percentage |
| < 100 | - | - | - | 5 | 1.42 | | 6 | | 2.40 | | 1.12 | - |
| 101-200 | 20 | 5.28 | 5.28 | 14 | 3.97 | 5.39 | 6 | 2.4 | 4.80 | 40 | 4.07 | 5.19 |
| 201-400 | 166 | 43.80 | 49.08 | 66 | 18.70 | 24.09 | 31 | 12.4 | 17.20 | 263 | 26.78 | 31.97 |
| 401-600 | 113 | 29.82 | 78.90 | 85 | 24.08 | 48.17 | 39 | 15.6 | 32.80 | 237 | 24.13 | 56.10 |
| 601-800 | 38 | 10.03 | 88.93 | 66 | 18.70 | 66.87 | 41 | 16.4 | 49.20 | 145 | 14.77 | 70.87 |
| 301-1000 | 22 | 5.80 | 94.73 | 47 | 13.31 | 80.18 | 35 | 14.0 | 63.20 | 104 | 10.59 | 81.46 |
| 1001-1200 | 5 | 1.32 | 96.05 | 15 | 4.25 | 84.43 | 13 | 5.2 | 68.40 | 33 | 3.36 | 84.82 |
| 201-1400 | 8 | 2.10 | 98.15 | 20 | 5.66 | 90.09 | 14 | 5.6 | 74.00 | 42 | 4.28 | 89.10 |
| 401-1600 | 4 | 1.06 | 99.21 | 12 | 3.40 | 93.49 | 10 | 4.0 | 78.00 | 26 | 2.65 | 91.75 |
| 601-1800 | 1 | 0.26 | 99.47 | 6 | 1.70 | 95.19 | 8 | 3.2 | 81.20 | 15 | 1.53 | 93.28 |
| 801-2000 | 2 | 0.53 | 100.0 | 2 | 0.56 | 95.75 | 9 | 3.6 | 84.80 | 13 | 1.32 | 94.60 |
| 8001+ | - | - | - | 15 | 4.25 | 100.0 | 38 | 15.2 | 100.0 | 53 | 5.40 | 100.0 |
| otal | 379 | 100.0 | 100.0 | 353 | 100.0 | 100.0 | 250 | 100.0 | 100.0 | 982 | 100.0 | 100.0 |
| o response | 1 | - | - | 7 | - | - | 10 | - | - | 18 | - | - |
| rand total | 380 | 100.0 | 100.0 | 360 | 100.0 | 100.0 | 260 | 100.0 | 100.0 | 1000 | 100.0 | 100.0 |

Source: NIUA, Household survey, 1990

Table 4.8

Households Monthly Income and Number of Earners in the Sample Slums of Calicut, Cochin and Trivandrum

| Income group | | | Total n | umber o | of earn | ers | |
|---------------------|---|-------|---------|---------|---------|------|-------|
| | 0 | 1 | 2 | 3 | 4 | 4+ | Total |
| | _ | | _ | | | | 11 |
| | - | 100.0 | - | - | - | - | 100.0 |
| 101-200 | _ | 37 | 3 | - | - | - | 40 |
| | - | 92.5 | 7.5 | - | - | *** | 100.0 |
| 201-400 | - | 236 | 2 | 2 | - | - | 263 |
| | - | 89.7 | 9.5 | 0.8 | - | _ | 100.0 |
| 401-600 | - | 139 | 35 | 10 | 3 | - | 237 |
| | - | 58.6 | 35.9 | 4.2 | | - | 100.0 |
| 601-800 | - | 63 | 57 | 20 | 4 | 1 | 145 |
| | _ | 43.4 | 39.3 | 13.8 | 2.8 | 0.7 | 100.0 |
| 801-1000 | - | 44 | 44 | 11 | 5 | - | 104 |
| | - | 42.3 | 42.3 | 10.6 | 4.8 | - | 100.0 |
| 1001-1200 | - | 7 | 14 | 8 | 2 | 2 | 33 |
| | - | 21.2 | 42.4 | 24.2 | 6.1 | 6.1 | 100.0 |
| 1201-1400 | - | 11 | 15 | 10 | 1 | | 42 |
| | - | 26.2 | 35.7 | 23.8 | 2.4 | 11.9 | 100.0 |
| 1401-1600 | _ | 6 | 8 | 3 | 4 | 5 | 26 |
| | - | | | | | | 100.0 |
| 1601-1800 | _ | 2 | 5 | 7 | 1 | _ | 15 |
| | _ | 13.3 | 33.3 | 46.7 | 6.7 | _ | 100.0 |
| 1801-2000 | _ | 2 | 5 | 3 | 3 | _ | 13 |
| | - | | | | | | 100.0 |
| 2001+ | - | 1 | 13 | 20 | 11 | 8 | 53 |
| programmed above 50 | - | 1.9 | 24.5 | 37.7 | 20.8 | 15.1 | 100.0 |
| Total | | 559 | 274 | 94 | 34 | 21 | 982* |
| | | | | | | | 100.0 |

^{*} Does not include 18 households who did not offer any response.

Table 4.9

Household Monthly Income and Bumber of Barners in the three Cities Separately

| Income group | Calicut | | | | | | | | Cochi | D. | | | | | Tr | ivand | run | | | | |
|--------------|---------|------|-------|------|------|------|-------|---|-------|------|------|-------|------|-------|----|-------|------|------|-------|------|-------|
| | | | No. | of e | rner | s | | | | No. | of e | arner | 3 | | | | No. | of e | arner | 3 | |
| | 0 | 1 | 2 | 3 | 4 | | Total | 0 | 1 | | 3 | 4 | | Total | | 1 | 2 | 3 | 4 | 4+ | Total |
| < 100 | | _ | | | - | - | - | - | 5 | - | - | _ | - | 5 | - | 6 | - | - | - | - | 6 |
| | - | - | - | - | - | - | - | - | 100.0 | - | - | - | | 100.0 | - | 100.0 | | - | - | - | 100.0 |
| 101-200 | - | 19 | 1 | - | - | - | 20 | - | 13 | 1 | - | - | - | 14 | - | 5 | 1 | - | - | - | 6 |
| | - | 95.0 | 5.0 | - | - | - | 100.0 | - | 92.9 | 7.1 | - | - | - | 100.0 | - | 83.3 | 16.7 | - | - | - | 100.0 |
| 201-400 | - | 152 | 13 | 1 | - 1 | - | 166 | - | 60 | 6 | - | - | - | 66 | - | 24 | 6 | 1 | - | - | 31 |
| | _ | 91.6 | 7.8 | 0.6 | - | - | 100.0 | - | 90.9 | 9.1 | - | - | - | 100.0 | - | 77.4 | | 3.2 | - | - | 100.0 |
| 401-600 | - | 50 | 57 | 4 | 2 | - | 113 | - | 63 | 18 | 3 | 1 | - | 85 | - | 26 | 10 | 3 | - | - | 39 |
| 101 000 | _ | 44.2 | 50.4 | 3.5 | 1.8 | - | 100.0 | - | 74.1 | 21.2 | 3.5 | 1.2 | - | 100.0 | - | 66.7 | 25.6 | 7.7 | - | - | 100.0 |
| 601-800 | - | 7 | 15 | 14 | 2 | - | 38 | - | 31 | 29 | 3 | 2 | 1 | 66 | - | 25 | 13 | 3 | - | - | 41 |
| 001 000 | _ | 18.4 | 39.5 | 36.8 | 5.3 | - | 100.0 | - | 47.0 | 43.9 | 4.5 | 3.0 | 1.5 | 100.0 | - | 61.0 | 31.7 | 7.3 | - | - | 100.0 |
| 801-1000 | - | 1 | | 4 | 3 | | 22 | - | 24 | 18 | 4 | 1 | - | 47 | - | 19 | 13 | 3 | 1 | - | 35 |
| 001 1000 | _ | | 63.6 | 18.2 | 13.6 | - | 100.0 | - | 51.1 | 38.3 | 8.5 | 2.1 | - | 100.0 | - | 54.3 | 34.3 | 8.6 | 2.9 | - | 100.0 |
| 1001-1200 | _ | _ | - | 2 | 2 | 1 | 5 | - | 1 | 8 | 5 | - | 1 | 15 | - | 6 | 6 | 1 | - | - | 13 |
| 1001 1200 | - | - | - | 40.0 | 40.0 | 20.0 | 100.0 | - | 6.7 | 53.3 | 33.3 | - | 6.7 | 100.0 | - | 46.2 | 46.2 | 7.7 | - | - | 100.0 |
| 1201-1400 | - | 1 | 3 | 1 | 1 | 2 | 8 | - | 5 | 7 | 6 | - | 2 | 20 | - | 5 | 5 | 3 | - | 1 | 14 |
| 1801 1100 | - | 12.5 | 37.5 | 12.5 | 12.5 | 25.0 | 100.0 | - | 25.0 | 35.0 | 30.0 | - | 10.0 | 100.0 | - | 35.7 | 35.7 | 21.4 | - | 7.1 | 100.0 |
| 1401-1600 | - | - | 1 | - | 1 | 2 | 4 | - | 1 | 4 | 2 | 3 | 2 | 12 | - | 5 | 3 | 1 | - | 1 | 10 |
| 1101 1000 | _ | _ | 25.0 | _ | | | 100.0 | - | 8.3 | 33.3 | 16.7 | 25.0 | 16.7 | 100.0 | - | 50.0 | 30.0 | 10.0 | - | 10.0 | 100.0 |
| 1601-1800 | _ | _ | 1 | _ | _ | | 1 | - | - | 2 | 3 | 1 | - | 6 | - | 2 | 2 | 4 | - | - | 8 |
| 1001 1000 | - | _ | 100.0 | _ | _ | | 100.0 | - | - | 33.3 | 50.0 | 16.7 | - | 100.0 | | 25.0 | 25.0 | 50.0 | - | - | 100.0 |
| 1801-2000 | - | _ | - | _ | 2 | - | 2 | - | - | 1 | 1 | - | - | 2 | - | 2 | 4 | 2 | 1 | - | 9 |
| 1001 2000 | _ | _ | - | _ | _ | - | 100.0 | - | - | 50.0 | 50.0 | _ | - | 100.0 | - | 22.2 | 44.4 | 22.2 | 11.1 | - | 100.0 |
| 2001+ | | _ | _ | _ | - | | - | - | - | 3 | 5 | 3 | 4 | 15 | - | 1 | 10 | 15 | 8 | 4 | 38 |
| | - | - | - | | | | | - | | | | | | 100.0 | - | | | 39.5 | 21.1 | 10.5 | 100.0 |
| Total | _ | 230 | 105 | 26 | 13 | 5 | 379 | - | 203 | 97 | 32 | 11 | 10 | 353 | - | 126 | 72 | 26 | 10 | 6 | 250 |
| | - 1 | 60.7 | 27.7 | 6.9 | 3.4 | 1.3 | 100.0 | - | 57.5 | 27.5 | 9.1 | 3.1 | 2.8 | 100.0 | - | 50.0 | 28.8 | 14.4 | 4.0 | 2.4 | 100.0 |
| No response | 1 | - | - | - | - | - | 1 | 7 | = | - | - | - | - | 7 | 10 | - | - | - | - | - | 10 |
| | 1 | 230 | 105 | 26 | 13 | 5 | 380 | 7 | 203 | 97 | 32 | 11 | 10 | 360 | 10 | 126 | 72 | 26 | 10 | 6 | 260 |

Table 4.10

Distribution of Households according to Household Monthly Income and Household Size

| Income group | | Potal | size | of fam | ily | | (| | t | | | | Cochin | | | | T | rivand | run | |
|-------------------------|-----|-------|------|---------|---------------|------|------|-------|------|-------|------|------|--------|------|---------|------|------|--------|-------|---------|
| | 1-2 | 3-4 | 5-7 | 7+ | Total | | | | 7+ | Total | | | | | Total | 1-2 | 3-4 | 5-7 | 7+ | Total |
| < 100 | 1 | 4 | 6 | | 11 | - | - | - | - | - | 1 | 1 | 3 | - | 5 | | 3 | 3 | - | 6 |
| | | 36. | | | 100.0 | - | - | - | - | - | 20.0 | | | - | 100.0 | - | 50.0 | | 0 - | 100. |
| 101-200 | 9 | 15 | 16 | | 40 | 6 | 9 | 5 | - | 20 | 2 | 4 | 8 | - | 14 | 1 | 2 | 3 | - | 6 |
| | | 37. | | | 100.0 | | 45.0 | | | 100.0 | | | 57.2 | | 100.0 | 16.7 | | | 3 - | 100. |
| 201-400 | 18 | 90 | 130 | | 263 | 13 | 57 | 76 | 20 | 166 | 4 | 21 | 38 | 3 | 66 | 1 | 12 | 16 | 2 | 31 |
| | 6.8 | | | .4 9.5 | ((=)=,0,0,0,0 | | 34.4 | | 12.0 | | 6.1 | | | | 5 100.0 | 3.2 | | | 7 6. | 4 100.1 |
| 401-600 | 7 | 66 | 119 | | 237 | 4 | 29 | 57 | 23 | 113 | 2 | 24 | 42 | 17 | 85 | 1 | 13 | 20 | 5 | 39 |
| | 3.0 | 27.5 | | .3 18.8 | | 3.5 | | | 20.4 | | 2.4 | 28.2 | | | 0 100.0 | 2.6 | 33.3 | 51. | 3 12. | 9 100.0 |
| 601-800 | 3 | 40 | 73 | | 145 | - | 5 | 19 | 14 | 38 | 3 | 17 | 36 | 10 | 66 | - | 18 | 18 | 5 | 41 |
| 227 7229 | 2.1 | | | .3 20.0 | | - | 13.1 | | 36.9 | | 4.5 | 25.8 | | | 2 100.0 | - | 43.9 | | 9 12. | 2 100.0 |
| 801-1000 | 3 | 19 | 52 | | 104 | 1 | - | 8 | 13 | 22 | 1 | 8 | 22 | 16 | 47 | 1 | 11 | 22 | 1 | 35 |
| | 2.9 | 40.4 | | .9 29.1 | | 4.5 | - | | 59.2 | | 2.1 | 17.0 | | 34.1 | 100.0 | 2.9 | 31.4 | 62. | 8 2. | 9 100.0 |
| 1001-1200 | 1 | 5 | 16 | 11 | 33 | - | - | 2 | 3 | 5 | - | 2 | 6 | 7 | 15 | 1 | 3 | 8 | 1 | 13 |
| All and a second second | 3.0 | | | 5 33.3 | | - | - | 40.0 | 60.0 | | - | 13.4 | 40.0 | 46.6 | 100.0 | 7.7 | 23.1 | 61. | 7. | 7 100.0 |
| 1201-1400 | 1 | 6 | 21 | 14 | 42 | 1 | - | 3 | 4 | 8 | - | 3 | 9 | 8 | 20 | - | 3 | 9 | 2 | 14 |
| | 2.4 | | | 0 33.3 | | 12.5 | - | 37.5 | 50.0 | | - | 15.0 | 45.0 | 40.0 | 100.0 | - | 21.4 | 64. | 14.3 | 3 100.0 |
| 1401-1600 | 1 | 1 | 13 | 11 | 26 | - | - | 2 | 2 | 4 | - | 1 | 5 | 6 | 12 | 1 | - | 5 | 4 | 10 |
| | 3.8 | 3.8 | 50. | 0 42.4 | 100.0 | - | - | 50.0 | 50.0 | 100.0 | - | 8.3 | 41.6 | 50.1 | 100.0 | 10.0 | - | 50.0 | 40.0 | 100.0 |
| 1601-1800 | - | 8 | 2 | 5 | 15 | - | - | 1 | - | 1 | - | 1 | 3 | 2 | 6 | - | 4 | 1 | 3 | 8 |
| | - | 53.3 | 13. | 4 33.3 | 100.0 | - | - | 100.0 | - | 100.0 | - | 16.7 | 50.1 | 33.3 | 100.0 | - | 50.0 | 12.5 | 37.5 | 100.0 |
| 1801-2000 | - | 1 | 6 | 6 | 13 | - | - | 1 | 1 | 2 | - | - | 1 | 1 | 2 | - | 1 | 4 | 4 | 9 |
| | - | 7.7 | | 2 46.2 | 100.0 | - | - | 50.0 | 50.0 | 100.0 | - | - | 50.0 | 50.0 | 100.0 | - | 11.1 | 44.4 | 44.4 | 100.0 |
| 2001+ | - | 7 | 24 | 22 | 53 | - | - | - | - | - | - | - | 6 | 9 | 15 | - | 7 | 18 | 13 | 38 |
| | - | 13.2 | 45. | 3 41.5 | 100.0 | - | - | | - | - | - | - | 40.0 | 60.0 | 100.0 | - | 18.4 | 47.4 | 34.2 | 100.0 |
| Total | 44 | 259 | 481 | 198 | 982 | | | | 80 | 379 | 13 | | 179 | 79 | 353 | 6 | 77 | 128 | 39 | 250 |
| | 4.5 | 26.4 | 49. | 0 20.1 | 100.0 | 6.6 | 26.4 | 45.8 | 21.2 | 100.0 | 3.7 | 23.2 | 50.7 | 22.4 | 100.0 | 2.4 | 30.8 | 51.2 | 15.6 | 100.0 |
| No response | 1 | 8 | 8 | 1 | 18 | - | - | 1 | - | 1 | 1 | 2 | 4 | - | 7 | - | 6 | 3 | 1 | 10 |
| Grand total | 45 | 267 | 489 | 199 | 1000 | 25 | 100 | 175 | 80 | 380 | 14 | 84 | 183 | 79 | 360 | 6 | 83 | 131 | 40 | 260 |

Table 4.11

Dependency Ratio in the Sample Slums of three Cities

| City | Workers | Non-workers | Dependency ratio |
|------------|---------|-------------|---------------------|
| Calicut | 594 | 1577 | 2.65 |
| Cochin | 599 | 1602 | 2.67 |
| Trivandrum | 506 | 948 | 1.87 |
| Total | 1699 | 4127 | 2.43 |

Table 4.12

Distribution of Households According to Household Monthly Income and Caste

| Income group | | Tota | l | | | Cal | icut | | | Coc | hin | | | Triv | andrum | |
|--------------|------|------|-------|-------|------|-----|-------|-------|-----|-----|-------|-------|------|------|--------|-------|
| | SC | ST | Other | Total | SC | ST | Other | Total | SC | ST | Other | Total | SC | ST | Other | Total |
| < 100 | 5 | - | 6 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 | 5 | 0 | 1 | 6 |
| . 100 | 45.5 | - | 54.5 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 100.0 | 83.3 | 0.0 | 16.7 | 100.0 |
| 101-200 | 5 | 1 | 34 | 40 | 2 | 0 | 18 | 20 | 0 | 0 | 14 | 14 | 3 | 1 | 2 | 6 |
| 101 200 | 12.5 | 2.5 | 85.0 | 100.0 | 10.0 | 0.0 | 90.0 | 100.0 | 0.0 | 0.0 | 100.0 | 100.0 | 50.0 | 16.7 | 33.3 | 100.0 |
| 201-400 | 24 | 6 | 233 | 263 | 11 | 4 | 151 | 166 | 2 | 1 | 63 | 66 | 11 | 1 | 19 | 31 |
| 201 100 | 9.1 | 2.3 | 88.6 | 100.0 | 6.6 | 2.4 | 91.0 | 100.0 | 3.0 | 1.5 | 95.5 | 100.0 | 35.5 | 3.2 | 61.3 | 100.0 |
| 401-600 | 25 | 4 | 208 | 237 | 7 | 3 | 103 | 113 | 1 | 1 | 83 | 85 | 17 | 0 | 22 | 39 |
| 101 000 | 10.5 | 1.7 | | 100.0 | 6.2 | 2.7 | 91.2 | 100.0 | 1.2 | 1.2 | 97.6 | 100.0 | 43.6 | 0.0 | 56.4 | 100.0 |
| 601-800 | 28 | 5 | 112 | 145 | 4 | 1 | 33 | 38 | 3 | 1 | 62 | 66 | 21 | 3 | 17 | 41 |
| 001-000 | 19.3 | 3.4 | | 100.0 | 10.5 | 2.6 | | 100.0 | 4.5 | 1.5 | 93.9 | 100.0 | 51.2 | 7.3 | 41.5 | 100.0 |
| 801-1000 | 23 | 2 | 79 | 104 | 0 | 1 | 21 | 22 | 2 | 0 | 45 | 47 | 21 | 3 | 13 | 35 |
| 001-1000 | 22.1 | 1.9 | 76.0 | 100.0 | 0.0 | 4.5 | | 100.0 | 4.3 | 0.0 | 95.7 | 100.0 | 60.0 | 2.9 | 37.1 | 100.0 |
| 1001-1200 | 7 | 2 | 24 | 33 | 0 | 0 | 5 | 5 | 0 | 1 | 14 | 15 | 7 | 1 | 5 | 13 |
| 1001-1200 | 21.2 | 6.1 | | 100.0 | 0.0 | 0.0 | | 100.0 | 0.0 | 6.7 | 93.3 | 100.0 | 53.8 | 7.7 | 38.5 | 100.0 |
| 1901 1400 | 8 | 1 | 33 | 42 | 0 | 0 | 8 | 8 | 1 | 0 | 19 | 20 | 7 | 1 | 6 | 14 |
| 1201-1400 | 19.0 | 2.4 | | 100.0 | 0.0 | 0.0 | | 100.0 | 5.0 | 0.0 | 95.0 | 100.0 | 50.0 | 7.1 | 42.9 | 100.0 |
| 1401 1000 | 6 | 0 | 20 | 26 | 0.0 | 0.0 | 4 | 4 | 0 | 0 | 12 | 12 | 6 | 0 | 4 | 10 |
| 1401-1600 | | 0.0 | | 100.0 | 0.0 | 0.0 | | 100.0 | 0.0 | 0.0 | 100.0 | 100.0 | 60.0 | 0.0 | 40.0 | 100.0 |
| 1001 1000 | 23.1 | 0.0 | 11 | 15 | 0.0 | 0.0 | 1 | 1 | 0 | 0 | 6 | 6 | 4 | 0 | 4 | 8 |
| 1601-1800 | 4 | | | 100.0 | 0.0 | 0.0 | | 100.0 | 0.0 | 0.0 | 100.0 | 100.0 | 50.0 | 0.0 | 50.0 | 100.0 |
| 1001 0000 | 26.7 | 0.0 | 7 | 13 | 0.0 | 0.0 | 2 | 2 | 0.0 | 0.0 | 2 | 2 | 6 | 0 | 3 | 9 |
| 1801-2000 | 6 | 0 | | 100.0 | 0.0 | 0.0 | | 100.0 | 0.0 | 0.0 | 100.0 | 100.0 | 66.7 | 0.0 | 33.3 | 100.0 |
| 0001 | 46.2 | 0.0 | | 53 | 0.0 | 0.0 | 0 | 0 | 0.0 | 0.0 | 15 | 15 | 27 | 1 | 10 | 38 |
| 2001+ | 27 | 1 | 25 | | | 0.0 | | 0.0 | 0.0 | 0.0 | | 100.0 | 71.1 | 2.6 | | 100.0 |
| | 50.9 | 1.9 | 47.2 | 100.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 100.0 | 100.0 | | | | |
| Total | 168 | 22 | 792 | 982 | 24 | 9 | 346 | 379 | 9 | 4 | 340 | 353 | 135 | 9 | 106 | 250 |
| 10041 | 17.1 | 2.2 | | 100.0 | 6.3 | 2.4 | 91.3 | 100.0 | 2.5 | 1.1 | 96.3 | 10.0 | 54.0 | 3.6 | 42.4 | 100.0 |
| No response | 3 | - | 15 | 18 | 1 | - | - | 1 | 0 | 0 | 7 | 7 | 2 | 0 | 8 | 10 |
| Grand total | 171 | 22 | 807 | 1000 | 25 | 9 | 346 | 380 | 9 | 4 | 347 | 360 | 137 | 9 | 114 | 260 |

Table 4.13

Distribution of Households According to the Monthly Income and Monthly Expenditure in the Sample Sources of Three Cities

| Income group | Monthly Expenditure | | | | | | | | | | | | |
|--------------|---------------------|---------|------|------|------|------|------|-----------|-----------|-----------|-----------|-------|-------|
| | | 101-200 | | | | | | 1201-1400 | 1401-1600 | 1601-1800 | 1801-2000 | 2000+ | Total |
| 100 | 1 | 2 | 2 | 2 | 2 | 1 | 1 | | _ | - | - | - | 11 |
| | 9.1 | 18.2 | 18.2 | 18.2 | 18.2 | 9.1 | 9.1 | - | - | - | - | - | 100.0 |
| 01-200 | 2 | 18 | 16 | 2 | 1 | - | - | - | 1 | - | - | - | 40 |
| | 5.0 | 45.0 | 40.0 | 5.0 | 2.5 | - | - | - | 2.5 | - | - | - | 100. |
| 01-400 | 7 | 74 | 133 | 31 | 9 | 10 | 3 | 2 | 1 | 1 | 1 | 1 | 263 |
| | 2.7 | 28.1 | 50.6 | 8.0 | 3.4 | 3.8 | 1.1 | 0.8 | 0.4 | 0.4 | 0.4 | 0.4 | 100. |
| 401-600 | - | 20 | 96 | 59 | 32 | 16 | 6 | 1 | 1 | 2 | 1 | 3 | 237 |
| | - | 8.4 | 40.5 | 24.9 | 13.5 | 6.8 | 2.5 | 0.4 | 0.4 | 0.8 | 0.4 | 1.3 | 100. |
| 601-800 | - | 2 | 42 | 38 | 30 | 11 | 9 | 3 | 3 | 1 | 1 | 5 | 145 |
| | - | 1.4 | 29.0 | 26.2 | 20.7 | 7.6 | 6.2 | 2.1 | 2.1 | 0.7 | 0.7 | 3.4 | 100. |
| 01-1000 | - | 1 | 20 | 21 | 23 | 18 | 7 | 8 | - | 2 | - | 4 | 104 |
| | | 1.0 | 19.2 | 20.2 | 22.1 | 17.3 | 6.7 | 7.7 | - | 1.9 | - | 3.8 | 100. |
| 001-1200 | - | - | 4 | 6 | 6 | 3 | 5 | 3 | 1 | 2 | 1 | 3 | 33 |
| | - | - | 12.1 | 18.2 | 18.2 | 9.1 | 15.2 | 9.1 | 3.0 | 6.1 | 3.0 | 6.1 | 100. |
| 1201-1400 | - | 1 | 7 | 6 | 9 | 11 | 3 | 3 | - | 1 | - | 1 | 42 |
| | - | 2.4 | 16.7 | 14.3 | 21.4 | 26.2 | 7.1 | 7.1 | | 2.4 | - | 2.4 | 100. |
| 401-1600 | - | - | - | 9 | 4 | 3 | 1 | 2 | 4 | 1 | - | 2 | 26 |
| | - | - | - | 34.6 | 15.4 | 11.5 | 3.8 | 7.7 | 15.4 | 3.8 | - | 7.7 | 100. |
| 601-1800 | - | - | 2 | 2 | 2 | 2 | 1 | 1 | 4 | - | - | 1 | 15 |
| | - " | - | 13.3 | 13.3 | 13.3 | 13.3 | 6.7 | 6.7 | 24.7 | - | - | 6.7 | 100. |
| 801-2000 | - | - | 1 | 2 | 3 | 3 | - | 1 | 2 | 1 | - | - | 13 |
| | - | - | 7.7 | 15.4 | 23.1 | 23.1 | - | 7.7 | 15.4 | 7.7 | - | - | 100. |
| 001+ | - | - | 4 | 3 | 10 | 6 | 5 | 9 | 3 | 4 | 1 | 8 | 53 |
| | - | | 7.5 | 5.7 | 18.9 | 11.3 | 9.4 | 17.0 | 5.7 | 7.5 | 1.9 | 15.1 | 100. |
| otal | 10 | 118 | 327 | 171 | 131 | 84 | 41 | 33 | 20 | 15 | 5 | 27 | 982 |
| | 1.0 | 12.0 | 33.3 | 17.4 | 13.3 | 8.6 | 4.2 | 3.4 | 2.0 | 1.5 | 0.5 | 2.7 | 100. |
| o response | | 1 | 3 | 4 | 3 | 5 | - | 1 | 1 | - | - | - | 18 |
| rand total | 10 | 119 | 330 | 175 | 134 | 89 | 41 | 34 | 21 | 15 | 5 | 27 | 1000 |

Table 4.14

Distribution of Slum Households according to Monthly Income and Monthly Expenditure in Calicut

| Income group | Monthly Expenditure | | | | | | | | | | | | |
|--------------|---------------------|---------|-------|-------|------|------|-----|-----------|-----------|-----------|-----------|-------|-------|
| | 0-100 | 101-200 | | | | | | 1201-1400 | 1401-1600 | 1601-1800 | 1801-2000 | 2000+ | Total |
| 100 | _ | | - | - | - | - | - | - | - | - | - | - | - |
| | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 101-200 | - | 11 | 9 | - | - | - | - | - | - | - | - | - | 20 |
| | - | 55.0 | 45.0 | - | - | - | - | - | - | - | - | - | 100.0 |
| 201-400 | 6 | 60 | 98 | 2 | - | - | - | - | - | - | - | - | 166 |
| | 3.6 | 36.1 | 59.0 | 1.2 | - | - | - | - | - | - | - | - | 100.0 |
| 401-600 | - | 15 | 63 | 27 | 6 | 1 | 1 | - | | - | - | - | 113 |
| | - | 13.3 | 55.8 | 23.9 | 5.3 | 0.9 | 0.3 | - | - | - | - | - | 100.0 |
| 601-800 | - | 1 | 21 | 12 | 4 | - | - | - | - | - | - | - | 38 |
| | - | 2.6 | 55.3 | 31.6 | 10.5 | - | - | - | - | - | - | - | 100.0 |
| 801-1000 | | - | 5 | 7 | 7 | 3 | - | - | - | | - | - | 22 |
| | - | - | 22.7 | 31.8 | 31.8 | 13.6 | - | - | - | - | - | - | 100.0 |
| 1001-1200 | - | - | 2 | 2 | 1 | - | - | - | - | - | - | - | 5 |
| | - | - | 40.0 | 40.0 | 20.0 | - | - | - | - | - | - | - | 100.0 |
| 1201-1400 | - | 1 | 3 | 1 | 1 | 1 | - | 1 | - | - | - | - | 8 |
| | ** | 12.5 | 37.5 | 12.5 | 12.5 | 12.5 | - | 12.5 | - | - | - | - | 100.0 |
| 1401-1600 | - | - | - | 2 | 1 | 1 | - | - | - | 100 | - | - | 4 |
| | - | - | - | 50.0 | 25.0 | 25.0 | - | - | - | - | - | - | 100.0 |
| 1601-1800 | - | - | 1 | - | - | - | ~ | - | - | - | - | - | 1 |
| | - | - | 100.0 | - | - | - | - | - | - | - | - | - | 100.0 |
| 1801-2000 | - | - | - | 2 | - | - | - | - | - | - | - | = | 2 |
| | - | - | - | 100.0 | - | - | - | - | - | - | - | ~ | 100.0 |
| 2001+ | - | - | - | | - | - | - | - | - | - | - | - | - |
| | - | - | - | | - | - | - | - | - | - | - | - | - |
| Total | 6 | 88 | 202 | 55 | 20 | 6 | 1 | 1 | - | - | - | - | 379 |
| | 1.6 | 23.2 | 53.3 | 14.5 | 5.3 | 1.6 | 0.3 | 0.3 | - | - | - | - | 100.0 |
| lo response | - | 1 | - | - | - | - | - | - | - | - | - | - | 1 |
| irand total | 6 | 89 | 202 | 55 | 20 | 6 | 1 | 1 | - | - | _ | | 380 |

Table 4.15

Distribution of Slum Households according to Monthly Income and Monthly Expenditure in Cochin

| Income group | Monthly Expenditure | | | | | | | | | | | | |
|--------------|---------------------|---------|------|------|------|------|-----|-----------|-----------|-----------|-----------|-------|-------|
| | 0-100 | 101-200 | | | | | | 1201-1400 | 1401-1600 | 1601-1800 | 1801-2000 | 2000+ | Total |
| 100 | 1 | - | 2 | - | 2 | - | - | - | - | - | - | - | 5 |
| | 20.0 | - | 40.0 | - | 40.0 | - | - | - | - | | - | - | 100. |
| 101-200 | 1 | 6 | 5 | 2 | - | - | - | - | - | - | - | - | 14 |
| | 7.1 | 42.9 | 35.7 | 14.3 | - | - | | - | - | - | - | - | 100. |
| 01-400 | 1 | 13 | 30 | 11 | 4 | 4 | 1 | - | 1 | - | - | 1 | 66 |
| | 1.5 | 19.7 | 45.5 | 16.7 | 6.1 | 6.1 | 1.5 | - | 1.5 | - | - | 1.5 | 100. |
| 01-600 | - | 5 | 28 | 24 | 21 | 5 | 1 | 1 | - | - | - | - | 85 |
| | - | 5.9 | 32.9 | 28.2 | 24.7 | 5.9 | 1.2 | 1.2 | - | - | - | - | 100.0 |
| 01-800 | - | 1 | 16 | 18 | 15 | 5 | 4 | 2 | 1 | 1 | - | 3 | 66 |
| | - | 1.5 | 24.2 | 27.3 | 22.7 | 7.6 | 6.1 | 3.0 | 1.5 | 1.5 | - | 4.5 | 100.0 |
| 01-1000 | - | 1 | 11 | 10 | 6 | 7 | 4 | 4 | - | 1 | - | 3 | 47 |
| | - | 2.1 | 23.4 | 21.3 | 12.8 | 14.9 | 8.5 | 8.5 | - | 2.1 | - | 6.4 | 100.0 |
| 1001-1200 | - | - | 2 | 3 | 3 | 2 | 1 | - | 1 | 1 | 1 | 1 | 15 |
| | - | - | 13.3 | 20.0 | 20.0 | 13.3 | 6.7 | - | 6.7 | 6.7 | 6.7 | 6.7 | 100.0 |
| 1201-1400 | - | - | 3 | 2 | 5 | 5 | 1 | 2 | - | 1 | - | 1 | 20 |
| | - | - | 15.0 | 10.0 | 25.0 | 25.0 | 5.0 | 10.0 | - | 5.0 | - | 5.0 | 100.0 |
| 401-1600 | - | - | - | 5 | 1 | 1 | - | 1 | 2 | - | - | 2 | 12 |
| | - | - | - | 41.7 | 8.3 | 8.3 | - | 8.3 | 16.7 | - | - | 16.7 | 100.0 |
| 601-1800 | - | - | - | 1 | 2 | 1 | - | 1 | 1 | - | - | - | 6 |
| | - | - | - | 16.7 | 33.3 | 16.7 | - | 16.7 | 16.7 | - | - | - | 100.0 |
| 801-2000 | - | - | 1 | - | 1 | - | - | - | - | - | - | - | 2 |
| | - | - | 50.0 | - | 50.0 | - | - | - | - | - | - | - | 100.0 |
| 001+ | - | - | 1 | 2 | 2 | 2 | 1 | 1 | 3 | 3 | - | - | 15 |
| | - | - | 6.7 | 13.3 | 13.3 | 13.3 | 6.7 | 6.7 | 20.0 | 20.0 | - | - | 100.0 |
| otal | 3 | 26 | 99 | 78 | 62 | 32 | 13 | 12 | 9 | 7 | 1 | 11 | 353 |
| | 0.8 | 7.4 | 28.0 | 22.1 | 17.6 | 9.1 | 3.7 | 3.4 | 2.5 | 2.0 | 0.3 | 3.1 | 100.0 |
| o response | - | - | 3 | 2 | 1 | - | - | 1 | - | - | - | - | 7 |
| rand total | 3 | 26 | 102 | 80 | 63 | 32 | 13 | 13 | 9 | 7 | 1 | 11 | 360 |

Table 4.16

Distribution of Slum Households according to Monthly Income and Monthly Expenditure in Trivandrum

| Income group | Monthly Expenditure | | | | | | | | | | | | |
|--------------|---------------------|---------|---------|---------|---------|----------|-----------|-----------|-----------|-----------|-----------|-------|-------|
| | 0-100 | 101-200 | 201-400 | 401-600 | 601-800 | 801-1000 | 1001-1200 | 1201-1400 | 1401-1600 | 1601-1800 | 1801-2000 | 2000+ | Total |
| (100 | - | 2 | - | 2 | - | 1 | 1 | - | - | - | - | - | 6 |
| | - | 33.3 | - | 33.3 | - | 16.7 | 16.7 | - | - | - | - | - | 100. |
| 101-200 | 1 | 1 | 2 | - | 1 | - | - | - | 1 | - | - | - | 6 |
| | 16.7 | 16.7 | 33.3 | - | 16.7 | - | | - | 16.7 | - | - | - | 100.0 |
| 01-400 | • | 1 | 5 | 8 | 5 | 6 | 2 | 2 | - | 1 | 1 | - | 31 |
| | | 3.2 | 16.1 | 25.8 | 16.1 | 19.4 | 6.5 | 6.5 | - | 3.2 | 3.2 | - | 100.0 |
| 101-600 | - | - | 5 | 8 | 5 | 10 | 4 | - | 1 | 2 | 1 | 3 | 39 |
| | - | - | 12.8 | 20.5 | 12.8 | 25.6 | 10.3 | - | 2.6 | 5.1 | 2.6 | 7.7 | 100.0 |
| 01-800 | 1 = | - | 5 | 8 | 11 | 6 | 5 | 1 | 2 | - | 1 | 2 | 41 |
| | - | - | 12.2 | 19.5 | 26.8 | 14.6 | 12.2 | 2.4 | 4.9 | - | 2.4 | 4.9 | 100.0 |
| 01-1000 | - | - | 4 | 4 | 10 | 8 | 3.0 | 4 | - | 1 | - | 1 | 35 |
| | - | - | 11.4 | 11.4 | 28.6 | 22.9 | 8.6 | 11.4 | - | 2.9 | - | 2.9 | 100.0 |
| 1001-1200 | - | - | - | 1 | 2 | 1 | 4 | 3 | - | 1 | - | 1 | 13 |
| | - | - | - | 7.7 | 15.4 | 7.7 | 30.8 | 23.1 | - | 7.7 | - | 7.7 | 100.0 |
| 201-1400 | | - | 1 | 3 | 3 | 5 | 2 | - | - | - | - | - | 14 |
| | - | - | 7.1 | 21.4 | 21.4 | 35.7 | 14.3 | _ | - | - | _ | - | 100.0 |
| 401-1600 | - | - | - | 2 | 2 | 1 | 1 | 1 | 2 | 1 | - | - | 10 |
| | - | - | - | 20.0 | 20.0 | 10.0 | 10.0 | 10.0 | 20.0 | 10.0 | - | - | 100.0 |
| 601-1800 | - | - | 1 | 1 | - | 1 | 1 | - | 3 | - | - | 1 | 8 |
| | - | - | 12.5 | 12.5 | - | 12.5 | 12.5 | - | 37.5 | - | - | 12.5 | 100.0 |
| 801-2000 | - | - | - | - | 2 | 3 | - | 1 | 2 | 1 | | - | 9 |
| | - | - | - | - | 22.2 | 33.3 | - | 11.1 | 22.2 | 11.1 | - | - | 100.0 |
| 001+ | - | - | 3 | 1 | 8 | 4 | 4 | 8 | - | 1 | 1 | 8 | 38 |
| | - | - | 7.9 | 2.6 | 21.1 | 10.5 | 10.5 | 21.1 | - | 2.6 | 2.6 | 21.1 | 100.0 |
| otal | 1 | 4 | 26 | 38 | 49 | 46 | 27 | 20 | 11 | 8 | 4 | 16 | 250 |
| | 0.4 | 1.6 | 10.4 | 15.2 | 19.6 | 18.4 | 10.8 | 8.0 | 4.4 | 3.2 | 1.6 | 6.4 | 100.0 |
| o response | - | - | - | 2 | 2 | 5 | - | - | 1 | - | - | - | 10 |
| rand total | 1 | 4 | 26 | 40 | 51 | 51 | 27 | 20 | 12 | 8 | 4 | 16 | 260 |

Table 4.17

Distribution of Households according to Monthly Expenditure Incurred on Various item of Expenditure in the Sample Slums of the three Cities

| Items of | | | Monthly E | xpenditur | e (Rs) | | |
|-------------|-------------|-------------|-------------|-----------|-----------|-----------------|--------------|
| expenditure | <100 | 101-200 | 201-300 | 301-400 | 401-500 | 500+ | Total |
| Food | 102 10.4 | 306 31.2 | 186 18.9 | 84 | 97 9.9 | 207 21.1 | 982 100.0 |
| Shelter | 939 95.6 | 16 1.6 | 6 0.6 | 1 0.1 | 3 0.3 | 17 1.7 | 982 100.0 |
| Clothing | 819 83.4 | 102 | 34 3.5 | 12 1.2 | 5 0.5 | 10 1.0 | 982 100.0 |
| Recreation | 973 97.1 | 3 0.3 | 3 0.3 | 1 0.1 | - | $\frac{2}{0.2}$ | 982 100.0 |
| Services | 518 59.3 | 174 19.9 | 73 8.4 | 37 4.2 | 32 3.7 | 39 4.5 | 873 100.0 |
| Misc. | 967 98.5 | 10 1.0 | 1 | 1 0.1 | 1 | 2 0.2 | 982 100.0 |

Table 4.18a

Distribution of Household according to Monthly Expenditure incurred on various Items in Calicut

| Items of | | | Ca | licut | | | |
|------------------|--------------|-------------|---|-----------|----------|----------|--------------|
| expendi- ture | <100 | 101-200 | 201-300 | 301-400 | 401-500 | 500+ | Total |
| Food | 76 20.1 | 217 57.3 | 61 16.1 | 14 3.7 | 9 2.4 | 2 0.5 | |
| Shelter | 368 97.1 | 10 2.6 | 1 0.3 | - | - | _ | 379 100.0 |
| Clothing | 303 79.9 | 53 14.0 | 21 5.5 | 2 0.5 | - | - | 379 100.0 |
| Recreation | 375 98.9 | 2 0.5 | 2 0.5 | - | - | - | 379 100.0 |
| Services | 270 88.8 | 31 10.2 | $\begin{array}{c} 2 \\ 0.7 \end{array}$ | _ | 1 | _ | 304 100.0 |
| Misc | 379 100.0 | - | - | - | - - | | 379 100.0 |

Table 4.18b

Distribution of Household according to Monthly Expenditure incurred on various Items in Cochin

| | | Со | chin | | | |
|--------------|---|--|--|---|---|---|
| <100 | 101-200 | 201-300 | 301-400 | 401-500 | 500+ | Total |
| 18 5.1 | 67 19.0 | 85 24.1 | 54 15.3 | 42 11.9 | 87 24.6 | 353 100.0 |
| 339 96.0 | 2 | 4 | 1 0.3 | $\begin{smallmatrix}1\\0.3\end{smallmatrix}$ | 6 1.7 | 353 100.0 |
| 319 90.4 | 20 5.7 | 6 1.7 | 6 1.7 | - | 2 0.6 | 353 100.0 |
| 353 100.0 | _ | - | - | - | - | 353 100.0 |
| 165 50.6 | 89 27.3 | 39 12.0 | 14 4.3 | 6 1.8 | 13 4.0 | 326 100.0 |
| 346 98.0 | 7 2.0 | _ | - | - | - | 353 100.0 |
| | 18 5.1 339 96.0 319 90.4 353 100.0 165 50.6 346 | 18 67 5.1 19.0 339 2 96.0 0.6 319 20 90.4 5.7 353 - 100.0 - 165 89 50.6 27.3 346 7 | 18 67 85 5.1 19.0 24.1 339 2 4 96.0 0.6 1.1 319 20 6 90.4 5.7 1.7 353 100.0 165 89 39 50.6 27.3 12.0 346 7 - | 18 67 85 54 5.1 19.0 24.1 15.3 339 2 4 1 96.0 0.6 1.1 0.3 319 20 6 6 90.4 5.7 1.7 1.7 353 - - - 100.0 - - - 165 89 39 14 50.6 27.3 12.0 4.3 346 7 - - | 18 67 85 54 42 5.1 19.0 24.1 15.3 11.9 339 2 4 1 1 96.0 0.6 1.1 0.3 0.3 319 20 6 6 - 90.4 5.7 1.7 1.7 - 353 - - - - 100.0 - - - - 165 89 39 14 6 50.6 27.3 12.0 4.3 1.8 346 7 - - - | \$\left(100)\$ \$101-200\$ \$\left(201-300)\$ \$\left(301-400)\$ \$\left(401-500)\$ \$\left(500)\$ 18 67 85 54 42 87 5.1 19.0 24.1 15.3 11.9 24.6 339 2 4 1 1 6 96.0 0.6 1.1 0.3 0.3 1.7 319 20 6 6 - 2 90.4 5.7 1.7 1.7 - 0.6 353 - - - - - 100.0 - - - - - 165 89 39 14 6 13 50.6 27.3 12.0 4.3 1.8 4.0 346 7 - - - - - - |

Table 4.18c

Distribution of Household according to Monthly Expenditure incurred on various Items in Trivandrum

| Items of | | | Tri | vandrum | | | |
|------------------|-------------|--|------------|-----------|------------|-------------|--------------|
| expendi- ture | <100 | 101-200 | 201-300 | 301-400 | 401-500 | 500+ | Total |
| Food | 8 3.2 | 22 8.8 | 40 16.0 | 16 6.4 | 46 18.4 | 118 47.2 | 250 100.0 |
| Shelter | 232 92.8 | 4 1.6 | 1 0.4 | _ | 2 | 11 4.4 | 250 100.0 |
| Clothing | 197 78.8 | 29 11.6 | 7 2.8 | 4 1.6 | 5 2.0 | 8 3.2 | |
| Recreation | 245 98.0 | $\begin{smallmatrix}1\\0.4\end{smallmatrix}$ | 10.4 | 1 0.4 | - | 2 0.8 | |
| Services | 83 34.2 | 54 22.2 | 32 13.2 | 23 9.5 | 25 10.3 | 26 10.7 | 243 100.0 |
| Misc | 242 96.8 | 3 1.2 | 1 0.4 | 1 0.4 | 1 0.4 | 2 0.8 | 250 100.0 |

-101Table 4.19

Expenditure Incurred on Different Items of Expenditure by the Slum Households of Various Income Groups in the Sample Slums of the three Cities

| Income groups | | | | | | - | iture on va | rious i | | | | | | |
|---------------|----------|------|----------|------|----------|------|-------------|---------|----------|------|----------|-----|--------|-------|
| | Pood | | Shelt | | | ng | | tion | Servic | | Misc. | | Tota | |
| | (in Rs) | X | (in Rs) | % | (in Rs) | ž | (in Rs) | % | (in Rs) | ž | (in Rs) | ĭ. | (in Rs |) % |
| 0-100 | 3500 | 61.7 | - | - | - | - | 3 | 0.10 | 2171 | 38.3 | - | - | 5674 | 100.0 |
| 101-200 | 7475 | 67.5 | 125 | 1.1 | 1280 | 11.6 | 35 | 0.3 | 2115 | 19.1 | 50 | .5 | 11080 | 100.0 |
| 201-400 | 55048 | 61.3 | 2825 | 3.2 | 9721 | 10.8 | 980 | 1.1 | 20670 | 23.0 | 518 | 0.6 | 89762 | 100.0 |
| 401-600 | 70635 | 58.1 | 3859 | 3.2 | 15425. | 12.7 | 2146. | 1.8 | 26295 | 21.6 | 3125 | 2.6 | 121485 | 100.0 |
| 601-800 | 57675 | 54.1 | 16060 | 15.1 | 8767 | 8.2 | 850 | .8 | 20519 | 19.2 | 2820 | 2.6 | 106691 | 100.0 |
| 801-1000 | 50460 | 62.3 | 3475 | 4.3 | 7035 | 8.7 | 1435 | 1.8 | 18359 | 22.7 | 255 | .3 | 81019 | 100.0 |
| 1001-1200 | 20380 | 56.0 | 5385 | 14.8 | 2082 | 5.7 | 612 | 1.7 | 7622 | 20.9 | 328 | .9 | 36409 | 100.0 |
| 1201-1400 | 19360 | 57.0 | 3240 | 9.5 | 2020 | 5.9 | 730 | 2.2 | 8341 | 24.6 | 260 | . 8 | 33951 | 100.0 |
| 1401-1600 | 17300 | 65.0 | 265 | 1.0 | 3325 | 12.5 | 125 | 0.5 | 4644 | 17.5 | 945 | 3.6 | 26604 | 100.0 |
| 1601-1800 | 8844 | 57.4 | 350 | 2.3 | 1200 | 7.8 | 500 | 3.2 | 4516 | 29.3 | - | - | 15410 | 100.0 |
| 1801-2000 | 8350 | 69.8 | 50 | 0.4 | 1090 | 9.1 | 75 | 0.6 | 2352 | 19.7 | 50 | 0.4 | 11967 | 100.0 |
| +0000 | 42715 | 58.2 | 2402 | 3.3 | 3410 | 4.6 | 7550 | 10.3 | 16429 | 22.4 | 900 | 1.2 | 73406 | 100.0 |
| Potal | 361742 | 59.0 | 38036 | 6.2 | 55355 | 9.0 | 15041 | 2.5 | 134033 | 21.8 | 9251 | 1.5 | 613458 | 100.0 |

Table 4.20

Expenditure Incurred on Various Items of Expenditure by the Households in Various Income Groups in the Slums of Calicut

| Income group | | | | | | (s) | |
|--------------|-------|------|-------|------------|-------|------|--------|
| | Food | | | Recreation | | | Total |
|)-100 | | - | - | - | - | - | - |
| | - | - | - | - | - | - | - |
| 101-200 | 2830 | 125 | 530 | 10 | 682 | - | 4177 |
| | 67.8 | 3.0 | 12.7 | 0.2 | 16.3 | - | 100.0 |
| 01-400 | 23545 | 1440 | 6310 | 795 | 6668 | - | 38758 |
| | 60.7 | 3.7 | 16.3 | 2.1 | 17.2 | - | 100.0 |
| 01-600 | 23115 | 1115 | 9085 | 860 | 6681 | 85 | 40941 |
| | 56.5 | 2.7 | 22.2 | 2.1 | 16.3 | 0.2 | 100.0 |
| 01-800 | 9105 | 495 | 3370 | 525 | 2389 | 120 | 16004 |
| | 56.9 | 3.1 | 21.1 | 3.3 | 14.9 | 0.7 | 100.0 |
| 01-1000 | 6625 | 525 | 2495 | 850 | 1938 | 50 | 12483 |
| | 53.1 | 4.2 | 20.0 | 6.8 | 15.5 | 0.4 | 100.0 |
| 001-1200 | 1375 | 85 | 250 | 100 | 332 | 28 | 2170 |
| | 63.4 | 3.9 | 11.5 | 4.6 | 15.3 | 1.3 | 100.0 |
| 201-1400 | 2160 | 480 | 955 | 285 | 791 | - | 4671 |
| | 46.3 | 10.3 | 20.4 | 6.1 | 16.9 | - | 100.0 |
| 401-1600 | 1800 | 250 | 375 | 25 | 250 | 50 | 2750 |
| | 65.5 | 9.1 | 13.6 | 0.9 | 9.1 | 1.8 | 100.0 |
| 601-1800 | 150 | - | 50 | - | 50 | - | 250 |
| 90000 IBB/BB | 60.0 | - | 20.0 | - | 20.0 | - | 100.0 |
| 801-2000 | 600 | 50 | 150 | 50 | 150 | - | 1000 |
| | 60.0 | 5.0 | 15.0 | 5.0 | 15.0 | - | 100.0 |
| 000+ | - | - | - | - | - | _ | - |
| | - | - | - | - | - | - | - |
| otal | 71305 | 4565 | 23570 | 3500 | 19931 | 333 | 123204 |
| | 57.9 | 3.7 | 19.1 | 2.8 | 16.2 | 0.3 | 100.0 |

Table 4.21

Expenditure Incurred on Various Items of Expenditure by the Households in Various Income Groups in the Slums of Cochin

| Income group | | | | ual monthly expe | | 8) | |
|--------------|-------|---------|----------|------------------|---------|-------|--------|
| | Food | Shelter | Clothing | Recreation | Service | Misc. | Total |
|)-100 | 1900 | - | - | _ | 405 | | 2305 |
| 2 100 | 82.4 | - | - | - | 17.6 | - | 100.0 |
| 101-200 | 2745 | - | 150 | 25 | 823 | 50 | 3793 |
| 101 200 | 72.4 | - | 4.0 | 0.7 | 21.7 | 1.3 | 100.0 |
| 201-400 | 18493 | 635 | 1386 | 150 | 6643 | 308 | 27615 |
| 701 100 | 67.0 | 2.3 | 5.0 | 0.5 | 24.1 | 1.1 | 100.0 |
| 101-600 | 28570 | 729 | 2540 | 226 | 10022 | 540 | 42627 |
| | 67.0 | 1.7 | 6.0 | 0.5 | 23.5 | 1.3 | 100.0 |
| 601-800 | 28700 | 11870 | 3245 | 300 | 9999 | 900 | 55014 |
| .01 | 52.2 | 21.6 | 5.9 | 0.5 | 18.2 | 1.6 | 100.0 |
| 301-1000 | 25975 | 1200 | 2180 | 405 | 8148 | 205 | 38113 |
| 301 1000 | 68.2 | 3.1 | 5.7 | 1.1 | 21.4 | 0.5 | 100.0 |
| 1001-1200 | 9580 | 200 | 800 | 75 | 4378 | 250 | 15283 |
| 1001 1000 | 62.7 | 1.3 | 5.2 | 0.5 | 28.6 | 1.7 | 100.0 |
| 1201-1400 | 10400 | 2460 | 750 | 170 | 4733 | 200 | 18713 |
| 1001 1100 | 55.6 | 13.1 | 4.0 | 0.9 | 25.3 | 1.1 | 100.0 |
| 1401-1600 | 8700 | 15 | 1800 | 100 | 2262 | 445 | 13322 |
| 1101 1000 | 65.3 | 0.1 | 13.5 | 0.8 | 17.0 | 3.3 | 100.0 |
| 1601-1800 | 4114 | 100 | 450 | 50 | 959 | - | 5673 |
| 1001 1000 | 72.5 | 1.8 | 7.9 | 0.9 | 16.9 | - | 100.0 |
| 1801-2000 | 700 | - | - | - | 415 | - | 1115 |
| | 62.8 | - | - | - | 37.2 | - | 100.0 |
| 2000+ | 12800 | 300 | 225 | 75 | 3089 | 50 | 16539 |
| | 77.4 | 1.8 | 1.4 | 0.4 | 18.7 | | |
| Total | | | | 1576 | | | 240112 |
| 10001 | 63.6 | 7.3 | 5.6 | 0.7 | 21.6 | 1.2 | 100.0 |

Table 4.22

Expenditure Incurred on Various Items of Expenditure by the Slums Households in Various Income Groups in Trivandrum

| Income group | | | Total act | ual monthly expe | enditure (in R | (s) | |
|--------------|-------|---------|-----------|------------------|----------------|-------|-------|
| | Food | Shelter | Clothing | Recreation | Service | Misc. | Total |
|)-100 | 1600 | | - | | 1766 | | 3369 |
| | 47.5 | - | - | 0.1 | 52.4 | - | 100.0 |
| 101-200 | 1900 | - | 600 | - | 610 | - | 3110 |
| | 61.1 | - | 19.3 | - | 19.6 | - | 100.0 |
| 01-400 | 13010 | 750 | 2025 | 35 | 7359 | 210 | 23389 |
| | 55.6 | 3.2 | 8.7 | 0.1 | 31.5 | 0.9 | 100.0 |
| 01-600 | 18950 | 2015 | 3800 | 1060 | 9592 | 2500 | 37917 |
| | 50.0 | 5.3 | 10.0 | 2.8 | 25.3 | 6.6 | 100.0 |
| 01-800 | 19870 | 3695 | 2152 | 25 | 8131 | 1800 | 35673 |
| | 55.7 | 10.4 | 6.0 | 0.1 | 22.8 | 5.0 | 100.0 |
| 01-1000 | 17860 | 1750 | 2360 | 180 | 8273 | - | 30423 |
| | 58.7 | 5.8 | 7.8 | 0.5 | 27.2 | - | 100.0 |
| 001-1200 | 9425 | 5100 | 1032 | 437 | 2912 | 50 | 18956 |
| | 49.7 | 26.9 | 5.4 | 2.3 | 15.4 | 0.3 | 100.0 |
| 201-1400 | 6800 | 300 | 315 | 275 | 2817 | 60 | 10567 |
| | 64.4 | 2.8 | 3.0 | 2.6 | 26.7 | 0.5 | 100.0 |
| 401-1600 | 6800 | - | 1150 | - | 2132 | 450 | 10532 |
| | 64.6 | 1.0 | 10.9 | - | 20.2 | 4.3 | 100.0 |
| 601-1800 | 4580 | 250 | 700 | 450 | 3507 | - | 9487 |
| | 48.3 | 2.6 | 7.4 | 4.7 | 37.0 | - | 100.0 |
| 1801-2000 | 7050 | - | 940 | 25 | 1787 | 50 | 9852 |
| | 71.6 | - | 9.5 | 0.3 | 18.1 | 0.5 | 100.0 |
| 001+ | | 2102 | | 7475 | | 850 | 56867 |
| | 52.6 | 3.7 | 5.6 | 13.1 | 23.5 | 1.5 | 100.0 |
| fotal | | | | 9965 | | | |
| | 55.1 | 6.4 | 7.3 | | | 2.4 | |

Table 4.23

Expenditure Incurred by the Slum Households on Various Items of Services in Various Income Groups in the Three Cities

| Income groups | | | | | | | iture on v | arious | services | | | | |
|---------------|----------|------|----------|------|----------|------|------------|--------|----------|---------|----------|-----|------------------|
| | Healt | | Bduca | | Transpo | | Blect | ricity | Water | charges | Any ot | | Total |
| | (in Rs) | % | (in Rs) | % | (in Rs) | % | (in Rs) | ž | (in Rs) | ĭ | (in Rs) | % | (in Rs) % |
| 0-100 | 1311.00 | 60.4 | 631.00 | 29.1 | 19.00 | 0.9 | 40.00 | 1.8 | - | - | 170.00 | 7.8 | 2171.00 100.00 |
| 101-200 | 1125.00 | 53.2 | 600.00 | 28.4 | 165.00 | 7.8 | 175.00 | 8.3 | 40.00 | 1.9 | 10.00 | 0.5 | 2115.00 100.00 |
| 201-400 | 12504.00 | 60.5 | 4504.00 | 21.8 | 1900.00 | 9.2 | 1355.00 | 6.6 | 156.00 | 0.8 | 251.00 | 1.2 | 20670.00 100.00 |
| 401-600 | 14092.00 | 53.6 | 5769.00 | 21.9 | 2403.00 | 9.1 | 2098.00 | 8.0 | 233.00 | 0.9 | 1700.00 | 6.5 | 26295.00 100.00 |
| 601-800 | 10970.00 | 53.5 | 5409.00 | 26.4 | 2215.00 | 10.8 | 1329.00 | 6.5 | 82.00 | 0.4 | 514.00 | 2.5 | 20519.00 100.00 |
| 801-1000 | 9935.00 | 54.1 | 4892.00 | 26.6 | 1990.00 | 10.8 | 774.00 | 4.2 | 153.00 | 0.8 | 615.00 | 3.4 | 18359.00 100.00 |
| 1001-1200 | 3285.00 | 43.1 | 3070.00 | 40.3 | 840.00 | 11.0 | 252.00 | 3.3 | - | t. | 175.00 | 2.3 | 7622.00 100.00 |
| 1201-1400 | 4542.00 | 54.5 | 1995.00 | 23.9 | 1336.00 | 16.0 | 261.00 | 3.1 | 2.00 | neg. | 205.00 | 2.5 | 8341.00 100.00 |
| 1401-1600 | 2330.00 | 50.2 | 1337.00 | 28.8 | 615.00 | 13.2 | 352.00 | 7.6 | 10.00 | 0.2 | - | | 4644.00 100.00 |
| 1601-1800 | 1100.00 | 24.4 | 1410.00 | 31.2 | 1635.00 | 36.2 | 201.00 | 4.5 | - | - | 170.00 | 3.8 | 4516.00 100.00 |
| 1801-2000 | 1656.00 | 70.4 | 280.00 | 11.9 | 264.00 | 11.2 | 98.00 | 4.2 | 4.00 | 0.2 | 50.00 | 2.1 | 2352.00 100.00 |
| 2000+ | 9520.00 | 57.9 | 3250.00 | 19.8 | 2298.00 | 14.0 | 576.00 | 3.5 | 20.00 | 0.1 | 765.00 | 4.7 | 16429.00 100.00 |
| Total | 72370.00 | 54.0 | 33147.00 | 24.7 | 15680.00 | 11.7 | 7511.00 | 5.6 | 700.00 | 0.5 | 4625.00 | 3.5 | 134033.00 100.00 |

Table 4.24

Expenditure Incurred on Various Items of Services by the Slum Households in Calicut

| Income groups | | | | | | | ture on va | rious s | ervices | | | | | |
|---------------|----------|-------|----------|-------|----------|-------|------------|---------|----------|--------|----------|-----|--------|--------|
| | Health | | Educat | | Transpor | | | icity | Water c | harges | Any othe | r | To | tal |
| | (in Rs) | % | (in Rs) | " | (in Rs) | % | (in Rs) | % | (in Es) | 7, | (in Rs) | 7 | (in Rs |) % |
| | | - | | - | - | - | - | - | - | -1 | - | - | - | - |
| 01-200 | 395 | 57.9 | 80 | 11.7 | 95 | 13.9 | 72 | 10.6 | 40 | 5.9 | - | - | 682 | 100.00 |
| 01-400 | 3900 | 58.5 | 1271 | 19.0 | 775 | 11.6 | 618 | 9.3 | 79 | 1.2 | 25 | 0.4 | 6668 | 100.00 |
| 101-600 | 4085 | 61.2 | 911 | 13.6 | 730 | 10.9 | 807 | 12.1 | 128 | 1.9 | 20 | 0.3 | 6681 | 100.0 |
| 601-800 | 1366 | 57.2 | 554 | 23.2 | 221 | 9.2 | 156 | 6.5 | 42 | 1.8 | 50 | 2.1 | 2389 | 100.0 |
| 301-1000 | 1330 | 68.6 | 297 | 15.3 | 188 | 9.7 | 73 | 3.8 | 50 | 2.6 | - | - | 1938 | 100.0 |
| 1001-1200 | 250 | 75.3 | 50 | 15.1 | 15 | 4.5 | 17 | 5.1 | - | - | 1 | - | 332 | 100.0 |
| 1201-1400 | 395 | 49.9 | 150 | 19.0 | 145 | 18.3 | 101 | 12.8 | - | - | - | - | 791 | 100.0 |
| 1401-1600 | 150 | 60.00 | 50 | 20.00 | 50 | 2.0 | - | - | - | - | - | | 250 | 100.0 |
| 1601-1800 | 25 | 50.00 | 25 | 50.0 | - | - | - | - | - | - | - | - | 50 | 100.0 |
| 1801-2000 | 100 | 66.7 | 35 | 23.3 | 15 | 10.00 | - | | - | - | - | - | 150 | 100. |
| 2000+ | _ | | - | | - | - | - | - | - | - | - | - | - | - |
| Total | 11996 | 60.2 | 3423 | 17.2 | 2234 | 11.2 | 1844 | 9.3 | 339 | 1.7 | 95 | 0.5 | 19931 | 100. |

Table 4.25

Expenditure Incurred on Various Items of Services by the Slum Households in Cochin

| Income groups | | | | | | Expend | iture on v | | | | | | | |
|---------------|----------|------|----------|------|----------|--------|------------|--------|---------|---------|----------|------|--------|--------|
| | Healt | | Educa | | Transpo | | Elect | ricity | Water (| charges | | | | otal |
| | (in Rs) | % | (in Rs) | % | (in Rs) | % | (in Rs) | 7, | (in Rs) | ž | (in Rs) | % | (in Rs |) % |
| 0-100 | 195 | 48.1 | 150 | 37.0 | - | - | 40 | 9.9 | - | - | 20 | 4.9 | 405 | 100.00 |
| 101-200 | 300 | 36.5 | 340 | 41.3 | 70 | 8.5 | 103 | 12.5 | - | - | 10 | 1.2 | 823 | 100.00 |
| 201-400 | 4409 | 66.4 | 880 | 13.2 | 709 | 10.7 | 598 | 9.0 | 7 | 0.1 | 40 | 0.6 | 6643 | 100.00 |
| 401-600 | 5509 | 55.0 | 2620 | 26.1 | 709 | 7.1 | 929 | 9.3 | 105 | 1.0 | 150 | 1.5 | 10022 | 100.00 |
| 601-800 | 6536 | 65.4 | 1370 | 13.7 | 1109 | 11.1 | 858 | 8.6 | 17 | 0.2 | 109 | 1.1 | 9999 | 100.00 |
| 801-1000 | 4185 | 51.4 | 2440 | 29.9 | 854 | 10.5 | 546 | 6.7 | 103 | 1.3 | 20 | 0.2 | 8148 | 100.00 |
| 1001-1200 | 1580 | 36.1 | 2285 | 52.2 | 400 | 9.1 | 113 | 2.6 | - | | - | | 4378 | 100.00 |
| 1201-1400 | 2562 | 54.1 | 1310 | 27.7 | 756 | 16.0 | 105 | 2.2 | - | - | - | | 4733 | 100.00 |
| 1401-1600 | 1505 | 66.5 | 172 | 7.6 | 350 | 15.5 | 225 | 9.9 | 10 | 0.4 | - | - | 2262 | 100.00 |
| 1601-1800 | 430 | 44.8 | 150 | 15.6 | 120 | 12.5 | 109 | 11.5 | * | - | 150 | 15.6 | 959 | 100.00 |
| 1801-2000 | 350 | 84.3 | 50 | 12.1 | - | - | 15 | 3.6 | ~ | - | - | - | 415 | 100.00 |
| 2000+ | 1875 | 60.7 | 405 | 13.1 | 390 | 12.6 | 259 | 8.4 | 10 | 0.3 | 150 | 4.9 | 3089 | 100.00 |
| Total | 29436 | | 12172 | 23.5 | 5467 | 10.5 | 3900 | 7.5 | 252 | 0.5 | 649 | | 51876 | 100.00 |

Table 4.26

Expenditure Incurred on Various Items of Services by the Slum Households in Trivandrum

| Income groups | | | | | | | iture on va | rious | services | | | | | |
|---------------|----------|------|----------|------|----------|------|-------------|-------|----------|-----|----------|------|--------|--------|
| | Health | | Educa | | Transpor | | Blectr | icity | | | | | | otal |
| | (in Rs) | 7 | (in Rs) | ž | (in Rs) | % | (in Rs) | ž | (in Rs) | % | (in Rs) | % | (in Rs |) % |
| 0-100 | 1116 | 63.2 | 481 | 27.2 | 19 | 1.1 | - | - | - | - | 150 | 8.5 | 1766 | 100.00 |
| 101-200 | 430 | 70.5 | 180 | 29.5 | - | - | - | - | - | - | -: | - | 610 | 100.00 |
| 201-400 | 4195 | 57.0 | 2353 | 32.0 | 416 | 5.6 | 139 | 1.9 | 70 | 1.0 | 186 | 2.5 | 7359 | 100.00 |
| 401-600 | 4498 | 46.9 | 2238 | 23.3 | 964 | 10.0 | 362 | 3.8 | | - | 1530 | 16.0 | 9592 | 100.00 |
| 601-800 | 3068 | 37.7 | 3485 | 42.9 | 885 | 10.9 | 315 | 3.9 | 23 | 0.2 | 355 | 4.4 | 8131 | 100.00 |
| 301-1000 | 4420 | 53.4 | 2155 | 26.0 | 948 | 11.5 | 155 | 1.9 | - | - | 595 | 7.2 | 8273 | 100.00 |
| 1001-1200 | 1455 | 50.0 | 735 | 25.2 | 425 | 14.6 | 122 | 4.2 | - | - | 175 | 6.0 | 2912 | 100.00 |
| 1201-1400 | 1585 | 56.2 | 535 | 19.0 | 435 | 15.4 | 55 | 2.0 | 2 | 0.1 | 205 | 7.3 | 2817 | 100.00 |
| 1401-1600 | 675 | 31.6 | 1115 | 52.3 | 215 | 10.1 | 127 | 6.0 | - | - | - | 1- | 2132 | 100.00 |
| 1601-1800 | 645 | 18.4 | 1235 | 35.2 | 1515 | 43.2 | 92 | 2.6 | - | - | 20 | 0.6 | 3507 | 100.00 |
| 1801-2000 | 1206 | 67.5 | 195 | 10.9 | 249 | 13.9 | 83 | 4.7 | 4 | 0.2 | 50 | 2.8 | 1787 | 100.00 |
| +000 | 7645 | 57.3 | 2845 | 21.3 | 1908 | 14.3 | 317 | 2.4 | 10 | 0.1 | 615 | 4.6 | 13340 | 100.00 |
| Total | 30938 | 49.7 | 17552 | 28.2 | 7979 | 12.8 | 1767 | 2.8 | 109 | 0.2 | 3881 | 6.3 | 62226 | 100.00 |

Distribution of Households According to Monthly Income and Monthly Savings in the Sample Slum of the three Cities

Table 4.27

| Income groups | 03 | | | | | | | | Mon | Monthly savings | ings | | | | | | 1 1 1 1 1 1 1 1 | ! ! ! ! ! | t 2 2 2 3 4 4 | | | Grand |
|---------------|---|-----|------------------|--------------------------------|--------------------|---------|--------------------------------|----------|-----------------|--------------------------------|----------|---------------------------------|--------------------------------|---------|-----------------|---------|--------------------------------------|----------------------------|--|----------|-----------------------|-------|
| | 0-0 | 0 | | - | 1-50 | 1 | con ! | 51-100 | | 10 | 101-150 | 9 0 1 8 1 1 1 | <u></u> | 151-200 | | 2 | 200+ | t 3 1 3 9 9 | 10 | Total | 2 6 8 8 8 | |
| | Calicut Cochin | 1 | Trivan- C | Trivan- Calicut Cochin drum | 1 | Trivan- | Trivan- Calicut Cochin drum | | Trivan- drum | Trivan- Calicut Cochin drum | | Trivan- | Trivan- Calicut Cochin drum | | Trivan- drum | Calicut | Cochin | Trivan- drum | Trivan- Calicut Cochin Trivan- Calicut Cochin drum drum | Jochin ' | Trivan- drum | |
| 0-100 | 1 | 1 | ۶۰ ا | | 8 8 6 8 8 | . ! | | | | | | ' | 1 | | | • | | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | en | or i | 11 |
| 6 | | | 00.00 | 1 | 1 | 1 | 1 | 1 | i | i | | 1 | 1 | ı | 1 | 1 | 1 | Ĭ. | 1 | | | |
| 101-200 | 20 1 | 100 | cn 6 | ı | | 1 | 1 | 1 | 1 | • | ï | • | ï | 1 | 1 | , | 1 | 1 | 20 | 4 | ø, | 40 |
| | | | 00.00 | ı | 7.1 | 1 | t | , | 1 | 1 | 1 | ı | ï | • | ٠ | 1 | , | ı | | 2 | 3 | 3 6 |
| 201-400 | | | 29 | 1 | Oi. | 2 | 1 | 1 | 1 | ı | t | 1 | 1 | ŧ | ï | 1 | ï | 1 | 100 | 00 | J.L | 607 |
| | | | 93.5 | 1 | 7.6 | 6.5 | Ē | ī | i | i | 1 | 1 | 1 | i | i | i | ı | . 1 | 4 0 | 0.5 | 90 | 2 |
| 401-600 | | | 300 | 1 | - | j-m4 | 1 | 1 | - | ı | , | × | 1 | 1 | 1 | 1 | i | » H | 113 | 0.0 | J | 267 |
| | | | 92.3 | 1 | 4.7 | 2.6 | 1 | 1 | 2.6 | 1 | 1 | 1 | ı | 1 | . 1 | 1 | 1 | 6.0 | 30 | CC | 4.1 | - |
| 601-800 | | | 40 | | 7 | 1 | 1 | | ı | 1 | 1 | ı | • | • | - | 1 | 1 | | 30 | 00 | 4 | 110 |
| | | | 97.6 | 1 | 10.6 | ı | 1 | 5 | 1 | 1 | 1 | 1 | ı | 1 | 2.4 | 1 | i | i | 2 | 9 | o n | 10 |
| 801-1000 | | | دى ج | 1 | C71 | 1 | ١ | <u>-</u> | 1 | 1 | , | 1 | 1 | 1 | 1 | , | 1 | 1 | 7.2 | 4 | J | 101 |
| | | | 0.001 | 1 | 10.6 | t | ı | 2.1 | 1 | ī | 1 | 1 | , | 1 | 1 | 1 | ı | | 7 | ń | 10 | s. |
| 1001-1200 | | | | 1 | ⊢ | | 1 | 1 | | 1 | — | 1 | ı | , | 1 | 1 | 1 | ı | e | CI | LJ | 33 |
| | | | 84.6 | ī | 6.7 | 7.7 | 1 | 1 | 7.7 | 1 | 6.7 | ı | ı | 1 | 1 | , | 1 | ٠ ١ | > | 3 | - | _ |
| 1201-1400 | | | 12 | • | 2 | | , | 1 | 1 | 1 | 1 | ı | ı | 1 | , | 1 | 1 | a | œ | 0.2 | -4 | 7.5 |
| | | | 85.7 | 1 | 10.0 | 7.7 | ı | i | 1 | 1 | 1 | 1 | ı | ı | ı | , | 1 | 1.1 | | | | |

Contd.

| 1401-1600 | 4 | | 00 | | 2 | | | | - | | | | | | | | | | 7 | 19 | 10 | 36 |
|-------------------------|-------|------|------|-----|------|------|---|--------------|------|---|-----|------|---------------|-------------------|------|---|---|------|-----|------|-----|------|
| | 100.0 | 83.3 | 0.08 | | 16.7 | į | | , | 10.0 | 1 | , | 1 | 1 | 1 | 10.0 | ŧ | ï | ı | - | 7 | 0.7 | 0.7 |
| 1601-1800 | Π | | 3 | ı | ı | 2 | 1 | 1 | 1 | 1 | ı | - | ı | 1 | - | | , | _ | - | دد | coc | 7 |
| | 100.0 | | 37.5 | .1 | ı | 25.0 | ٠ | 1 | 1 | , | | 12.5 | . 1 | • | 12.5 | ı | , | 19.5 | 4 | > | 0 | 10 |
| 1801-2000 | 2 | | £- | 1 | | | 1 | | 1 | ì | 1 | , | , | 1 | 1 | 1 | , | - | 6 | 6 | 0 | 13 |
| | 100.0 | | 77.8 | ı | 50.0 | 11.1 | | 1 | ï | , | 1 | 1 | 1 | 1 | 1 | ı | 1 | | э | a | , | 77 |
| 2001+ | 1 | | 32 | ٠ | 4 | 87 | 1 | 1 | 1 | | , | 1 | 1 | 1 | qua | ı | 1 | | , | 4 | 38 | 2 |
| | ı | | | , | 26.2 | 5.3 | , | , | , | 1 | 1 | ı | | r | 2.6 | ï | , | 7.9 | 1 | 9 | 9 | 2 |
| Total | 379 | 318 | 225 | | 32 | 10 | | 2 | 3 | | - | 1 | | | + | | | _ | 379 | 1 20 | 250 | 985 |
| | 100.0 | 90.1 | 0.06 | ı | 9.1 | 4.0 | ï | 9.0 | 1.2 | 1 | 0.3 | 1.0 | 1. | i. | 1.6 | 1 | 1 | 2.8 | | 3 | | |
| N.R. | | 9 | 10 | 1 1 | | | | | , | , | | | | | | | | | 1 | 7 | 10 | 18 |
| Grand Total 380 324 235 | 380 | 324 | 235 | | 33 | 10 | | 6.3 | 8 | | - | | 4 | | | | | - | 380 | 360 | 260 | 1000 |
| | | | | | | | | · 日本日本日本日本日本 | | | | | 1 1 1 1 1 1 1 | 1 1 1 1 1 1 1 1 1 | | | | | | | | |

Table 4.28

Accumulated Savings of the Household According to Monthly Income in Calicut

| Income group | | | ACCUI | mulated sav | rugs | | | |
|-----------------|-------|-------|---------|-------------|---------|---|-----|-------|
| | | 0-100 | 101-200 | 201-300 | 301-400 | | | Total |
| 0-100 | | - | | - | - | - | - | _ |
| | | - | - | - | | - | - | - |
| 101-200 | 20 | - | - | - | - | - | - | 20 |
| | 100.0 | - | - | - | - | - | - | - |
| 201-400 | 166 | - | - | - | - | - | - | 166 |
| | 100.0 | - | - | - | - | - | - | 100. |
| 101-600 | 113 | - | - | - | - | - | - | 113 |
| | 100.0 | - | | - | | - | - | 100. |
| 501-800 | 38 | - | - | - | - | - | - | 38 |
| | 100.0 | - | - | - | - | - | - | 100. |
| 01-1000 | 22 | - | - | - | - | - | - | 22 |
| | 100.0 | | - | - | - | - | - | 100. |
| 1001-1200 | 5 | - | * | - | - | - | - | 5 |
| | 100.0 | - | | - | - | | 10- | 100. |
| 1201-1400 | 8 | - | - | - | - | - | - | 8 |
| | 100.0 | - | - | - | - | - | - | 100. |
| 401-1600 | 4 | 20 | - | - | - | - | - | 4 |
| | 100.0 | - | - : | - | - | - | - | 100. |
| 601-1800 | 1 | - | - 1 | * | | - | - | 1 |
| | 100.0 | - | - | - | - | - | - | 100. |
| 801-2000 | 2 | - | - | - | - | - | - | 2 |
| | 100.0 | - | - | - | - | - | - | 100. |
| 001+ | - | | - | - | - | - | - | - |
| | - | - | - | - | | - | - | - |
| otal | 379 | _ | | | - | - | - | 379 |
| | 100.0 | - | - | - | - | - | - | 100. |

Table 4.29

Accumulated Savings of the Slum Households According to Monthly Income in Cochin

| Income | | | | cumulated | savings | | | | |
|----------------|-------|-------|---------|-----------|---------|-----|------|-----|-------|
| group (Rs) | | 0-100 | 101-200 | 201-300 | 301-400 | | 501+ | NR | Total |
| | 5 | | _ | _ | - | _ | _ | _ | 5 |
| 0-100 | 100.0 | - | _ | | _ | _ | _ | _ | 100.0 |
| 101 000 | 13 | 1 | _ | | | _ | - | _ | 14 |
| 101-200 | | 100 | | _ | _ | | _ | _ | 100.0 |
| 001 100 | 92.2 | 7.1 | - | - | - | 1 | - | 1 | 66 |
| 201-400 | 64 | - | - | - | - | 1.5 | _ | - | 100.0 |
| | 98.5 | - | - | - | - | 1.5 | - | 1 | 85 |
| 401-600 | 83 | - | - | - | - | 1.2 | - | - | 100.0 |
| | 98.8 | - | - | - | - | | 2 | 1 | 66 |
| 601-800 | 60 | - | 7.00 | 3 | - | - | | | |
| | 92.3 | - | - | 4.6 | - | - | 3.1 | - | 100.0 |
| 801-1000 | 43 | - | 1 | - | 1 | - | 1 | 1 | 47 |
| | 93.5 | - | 2.2 | - | 2.2 | | 2.2 | - | 100.0 |
| 1001-1200 | 13 | - | 1 | - | - | - | - | 1 | 15 |
| | 92.9 | - | 7.1 | - | - | - | - | _ | 100.0 |
| 1201-1400 | 17 | - | 1 | - | - | - | 1 | - | 20 |
| | 89.5 | - | 5.3 | - | - | - | 5.3 | - | 100.0 |
| 1401-1600 | 11 | - | - | 1 | - | - | - | - | 12 |
| | 91.7 | - | - | 8.3 | - | - | - | - | 100.0 |
| 1601-1800 | 6 | - | - | - | - | - | - | - | 6 |
| | 100.0 | - | - | - | - | - | - | - | 100.0 |
| 1801-2000 | 2 | - | - | - | - | - | - | - | 2 |
| | 100.0 | _ | - | - | - | - | - | - | 100.0 |
| 2001+ | 12 | - | 1 | 1 | - | - | - | 1 | 15 |
| | 85.7 | - | 7.1 | 7.1 | - | - | - | - | 100.0 |
| Total | 329 | 1 | 4 | 5 | 1 | 2 | 4 | 7 | 353 |
| | 93.2 | 0.3 | 1.2 | 1.4 | 0.3 | 0.6 | 1.2 | 1.9 | 100. |

Table 4.30

Accumulated Saving of the Slum Households According to Monthly Income in Trivandrum

| ncone | | | Accu | mulated say | rings | | | |
|-------------|------------|-------|---------|-------------|---------|---------|------|-------|
| roup | 0 - 0 | 0-100 | 101-200 | 201-300 | 301-400 | 401-500 | 501+ | Total |
| | 6 | _ | | _ | | _ | _ | 6 |
| -100 | 100.0 | - | | _ | - | - | - | 100.0 |
| 01 900 | 6 | _ | _ | _ | | | - | 6 |
| 01-200 | 100.0 | _ | _ | _ | _ | _ | _ | 100.0 |
| 01 400 | 29 | 2 | | | _ | _ | _ | 31 |
| 01-400 | 93.5 | 6.5 | - | | - | _ | - | 100.0 |
| 01 000 | | 1 | _ | 1 | | 1 | - | 39 |
| 01-600 | 36 92.3 | 2.6 | | 2.6 | _ | 2.6 | _ | 100.0 |
| 24 000 | | 2.0 | - | 4.0 | | ±.0 | 1 | 41 |
| 01-800 | 40 | - | - | - | | | 2.4 | 100.0 |
| | 97.6 | - | 1 | _ | - | | - | 35 |
| 01-1000 | 34 | - | - | - | - | - | - | 100.0 |
| | 97.1 | - | 2.9 | - | - | - | 1 | 14 |
| 001-1200 | 11 | 1 | - | - | - | _ | 7.7 | 100.0 |
| | 84.6 | 7.7 | - | - | - | - | 1 | 14 |
| 201-1400 | 13 | - | - | - | - | • | 7.7 | 100.0 |
| | 92.9 | - | - | - | - | - | 1 | 8 |
| 401-1600 | 8 | - | - | 1 | - | - | | 100.0 |
| | 80.0 | - | - | 10.0 | - | - | 10.0 | 8 |
| 601-1800 | 3 | 2 | 2 | - | - | • | 1 | |
| | 37.5 | | 25.0 | - | - | - | 12.5 | 100.0 |
| 801-2000 | 7 | - | - | - | - | - | 2 | 9 |
| | 77.8 | - | - | - | - | - | 22.2 | 100.0 |
| 2001+ | 35 | 2 | - | - | - | - | 1 | 38 |
| | 92.1 | 5.3 | - | - | - | - | 2.6 | 100.0 |
| Potal | 228 | 8 | 3 | 2 | - | 1 | 8 | 250 |
| | 91.2 | 3.2 | 1.2 | 0.8 | - | 0.4 | 3.2 | 100.0 |
| 9.B. | 10 | - | - | | - | - | - | 10 |
| Frand Total | 238 | 8 | 3 | 2 | - | 1 | 8 | 260 |

Table 4.31

Number of Households Adhering to Borrowing According to Income
Group in the three Cities taken together

| Income | | | | Adhering to | borrowing | | | |
|--------------------|------|-------|-----------|-------------|-----------|---------|-----------|-------|
| (Rs) | Neve | | Regul | arly | Occuss. | ionally | To | tal |
| | No. | % | No. | X | No. | 7 | No | % |
| 0-100 | 1 | | | 1.2 | | | | |
| 101-200 | 1 | 2.0 | 16 | 4.9 | 23 | 3.8 | 40 | 4.1 |
| 201-400 | 9 | 18.0 | 117 | 35.7 | 137 | 22.7 | 263 | 26.8 |
| 401-600 | 6 | 12.0 | 84 | 25.6 | 147 | 24.3 | 237 | 24.1 |
| 601-800 | 11 | 22.0 | 37 | 11.3 | 97 | 16.1 | 145 | 14.8 |
| 801-1000 | 7 | 14.0 | 25 | 7.6 | 72 | 11.9 | 104 | 10.6 |
| 1001-1200 | 2 | 4.0 | 12 | 3.7 | 19 | 3.1 | 33 | 3.4 |
| 201-1400 | 3 | 6.0 | 11 | 3.4 | 28 | 4.6 | 42 | 4.3 |
| 401-1600 | 4 | 8.0 | 3 | 0.9 | 19 | 3.1 | 26 | 2.6 |
| 601-1800 | 2 | 4.0 | 4 | 1.2 | 9 | 1.5 | 15 | 1.5 |
| 801-2000 | 1 | 2.0 | 1 | 0.3 | 11 | 1.8 | 13 | 1.3 |
| 001+ | 3 | 6.0 | 14 | 4.3 | 36 | 6.0 | 53 | 5.4 |
| otal o Response | 50 | 100.0 | 328 13 | 100.0 | 604 5 | 100.0 | 982 18 | 100.0 |
| | 50 | - | 341 | - | 609 | - | 1000 | |

Table 4.32

Households Adhering to Borrowing According to Income Group in the Sample Slums of Calicut, Cochin and Trivandrum

| Income group | | | | | | Adherin | g to borrow | ing | | | | | |
|--------------|---------|-------|-----------------|---------|--------|-----------------|-------------|-----------|-----------------|---------|--------|-----------------|--------|
| Income group | | Neve | : | | Regula | | 0 | cccassion | | | Total | | Grand |
| | Calicut | | Trivan- drum | Calicut | Cochin | Trivan- drum | | Cochin | Trivan- drum | Calicut | Cochin | Trivan- drum | 50 543 |
| 0-100 | _ | - | 1 | - | 2 | 2 | - | 3 | | - | 5 | 6 | 11 |
| % | - | - | 5.56 | - | 2.99 | 2.30 | - | 1.15 | 2.07 | - | 1.42 | 2.40 | 1.12 |
| 101-200 | - | 1 | - | 12 | 1 | 3 | 8 | 12 | 3 | 20 | 14 | 6 | 40 |
| % | - | 3.85 | - | 6.90 | 1.49 | 3.45 | 4.02 | 4.62 | 2.07 | 5.28 | 3.97 | 2.40 | 4.07 |
| 201-400 | 1 | 6 | 2 | 85 | 16 | 16 | 80 | 44 | 13 | 166 | 66 | 31 | 263 |
| % | 16.67 | 23.08 | 11.11 | 48.85 | 23.88 | 18.39 | 40.20 | 16.92 | 8.97 | 43.80 | 18.70 | 12.40 | 26.78 |
| 401-600 | - | 3 | 3 | 51 | 18 | 15 | 52 | 64 | 21 | 113 | 85 | 39 | 237 |
| % | - | 11.54 | 16.67 | 29.31 | 26.87 | 17.24 | 26.13 | 24.62 | 14.48 | 29.82 | 24.08 | 15.60 | 24.13 |
| 601-800 | 3 | 7 | 1 | 9 | 12 | 16 | 26 | 47 | 24 | 38 | 66 | 41 | 145 |
| ž. | 50.0 | 26.92 | 5.56 | 5.17 | 17.91 | 18.39 | 13.07 | 18.08 | 16.55 | 10.03 | 18.70 | 16.40 | 14.77 |
| 301-1000 | - | 5 | 2 | 11 | 5 | 9 | 11 | 37 | 24 | 22 | 47 | 35 | 104 |
| ξ. | - | 19.23 | 11.11 | 6.32 | 7.46 | 10.34 | 5.53 | 14.23 | 16.55 | 5.80 | 13.31 | 14.00 | 10.59 |
| 1001-1200 | - | 2 | - | 4 | 3 | 5 | 1 | 10 | 8 | 5 | 15 | 13 | 33 |
| (| 1.00 | 7.69 | - | 2.30 | 4.48 | 5.75 | 0.50 | 3.85 | 5.52 | 1.32 | 4.25 | 5.20 | 3.36 |
| 1201-1400 | 1 | 1 | 1 | 2 | 4 | 5 | 5 | 15 | 8 | 8 | 20 | 14 | 42 |
| \$ | 16.67 | 3.85 | 5.56 | 1.15 | 5.97 | 5.75 | 2.51 | 5.77 | 5.52 | 2.11 | 5.67 | 5.60 | 4.28 |
| 401-1600 | 1 | 1 | 2 | - | - | 3 | 3 | 11 | 5 | 4 | 12 | 10 | 26 |
| (| 16.67 | 3.85 | 11.11 | - | - | 3.45 | 1.51 | 4.23 | 3.45 | 1.06 | 3.40 | 4.00 | 2.65 |
| 601-1800 | - | - | 2 | - | 2 | 2 | 1 | 4 | 4 | 1 | 6 | 8 | 15 |
| 6 | - | - | 11.11 | | 2.99 | 2.30 | 0.50 | 1.54 | 2.76 | 0.26 | 1.70 | 3.20 | 1.53 |
| 801-2000 | | - | 1 | - | - | 1 | 2 | 2 | 7 | 2 | 2 | 9 | 13 |
| \$ | - | 14 | 5.56 | - | - | 1.15 | 1.01 | 0.77 | 4.83 | 0.53 | 0.57 | 3.60 | 1.32 |
| 001+ | - | - | 3 | - | 4 | 10 | - | 11 | 25 | - | 15 | 38 | 53 |
| | - | - | 16.67 | - | 5.97 | 11.49 | - | 4.23 | 17.24 | - | 4.25 | 15.20 | 5.40 |
| 'otal | 6 | 26 | 18 | 174 | 67 | 87 | 199 | 260 | 145 | 379 | 353 | 250 | 982 |
| ¥ | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |

Table 4.33

Distribution of Borrowers according to the Principal Reasons for Borrowing in the Three Cities taken together

| Income group | | | | | r borrowing | | | |
|--------------|------------------|------|------|------|-------------|-----------|-------|------|
| | H.H. Expenses | | | | Business | Any other | Total | N.A. |
| 0-100 | 7 | - | 1 | 1 | 1 | - | 10 | 1 |
| 7 | 70.0 | - | 10.0 | 10.0 | 10.0 | - | 100.0 | - |
| 101-200 | 34 | 1 | 3 | 1 | - | - | 39 | 1 |
| ž | 87.2 | 2.6 | 7.7 | 2.6 | - | | 100.0 | - |
| 201-400 | 234 | 4 | 14 | - | 2 | - | 254 | 9 |
| ï | 92.2 | 1.6 | 5.5 | - | 0.8 | - | 100.0 | - |
| 401-600 | 209 | 5 | 14 | - | 2 | 1 | 231 | 6 |
| ¥ | 90.5 | 2.2 | 6.1 | -1 | 0.9 | 0.4 | 100.0 | - |
| 601-800 | 125 | 2 | 2 | - | 4 | 1 | 134 | 11 |
| Y. | 93.3 | 1.5 | 1.5 | - | 3.0 | 0.7 | 100.0 | - |
| 801-1000 | 85 | 3 | 8 | - | - | 1 | 97 | 7 |
| % | 87.6 | 3.1 | 8.2 | - | - | 1.0 | 100.0 | - |
| 1001-1200 | 27 | 1 | 3 | - | - | - | 31 | 2 |
| 7 | 87.1 | 3.2 | 9.7 | - | - | - | 100.0 | - |
| 1201-1400 | 32 | - | 4 | - | 3 | - | 39 | 3 |
| 7 | 82.1 | - | 10.3 | - | 7.7 | - | 100.0 | - |
| 1401-1600 | 20 | - | - | - | 1 | 1 | 22 | 4 |
| 7 | 90.9 | - | - | - | 4.5 | 4.5 | 100.0 | - |
| 1601-1800 | 10 | 2 | 2 | - | 1 | - | 13 | 2 |
| 7 | 76.9 | 15.4 | - | - | 7.7 | - | 100.0 | - |
| 1801-2000 | 10 | - | 2 | - | - | - | 12 | 1 |
| 1001 2000 | 83.3 | - | 16.7 | - | - | - | 100.0 | - |
| 2001+ | 37 | - | 9 | 1 | 1 | 2 | 50 | 3 |
| % | 74.0 | - | 18.0 | 2.0 | 2.0 | 4.0 | 100.0 | - |
| Total | 830 | 18 | 60 | 3 | 15 | 6 | 932 | 68 |
| % | | 1.9 | 6.4 | 0.3 | 1.6 | 0.6 | 100.0 | - |
| N.R. | 15 | 3 | - | - | - | - | - | - |
| Grand total | 845 | 21 | 60 | 3 | 15 | 6 | 932 | 68 |

Table 4.34

Distribution of Borrowers according to the Principal Reasons for Borrowing in Calicut

| Income group | | | | | r borrowing | | | |
|--------------|------------------|-----|---------|--------|-------------|-----------|-------|-----|
| | H.H. Expenses | | Illness | Travel | Business | Any other | | N.A |
| 0-100 | - | - | - | - | - | - | - | - |
| % | - | - | - | - | - | - | - | - |
| 101-200 | 18 | 1 | 1 | - | - | - | 20 | - |
| X . | 90.0 | 5.0 | 5.0 | - | - | - | 100.0 | - |
| 201-400 | 154 | 3 | 8 | - | - | - | 165 | 1 |
| % | 93.4 | 1.8 | 4.8 | - | - | - | 100.0 | - |
| 401-600 | 109 | - | 4 | - | - | - | 113 | - |
| X . | 96.5 | - | 3.5 | - | - | - | 100.0 | - |
| 601-800 | 22 | 1 | 1 | - | - | - | 35 | 3 |
| ž. | 94.3 | 2.9 | 2.9 | - | - | - | 100.0 | - |
| 801-1000 | 22 | - | - | - | - | - | 22 | - |
| Į. | 100.0 | - | - | - | - | - | 100.0 | - |
| 1001-1200 | 5 | - | - | - | - | - | 5 | - |
| X . | 100.0 | - | - | - | - | - | 100.0 | - |
| 1201-1400 | 7 | - | - | - | - | - | 7 | 1 |
| ž. | 100.0 | - | - | - | - | - | 100.0 | - |
| 1401-1600 | 3 | - | - | - | - | - | 3 | 1 |
| ĭ | 100.0 | - | - | - | - | - | 100.0 | - |
| 1601-1800 | 1 | - | - | - | - | - | 1 | - |
| ž | 100.0 | - | - | - | - | - | 100.0 | - |
| 1801-2000 | 2 | - | - | | - | - | 2 | - |
| ĭ | 100.0 | - | - | - | - | - | 100.0 | - |
| 2001+ | - | - | - | - | - | - | - | - |
| Z | - | - | - | - | - | - | - | - |
| fotal | 354 | 5 | 14 | - | - | - | 373 | 6 |
| ĭ | 94.9 | 1.3 | 3.7 | - | - | - | 100.0 | - |
| N. R. | - 1 | 1 | - | - | - | 1 | - | |
| Grand total | 354 | - | 14 | - | - | - | 374 | 6 |

Table 4.35

Distribution of Borrowers according to the Principal Reasons for Borrowing in Cochin

| Income group | | | | | r borrowing | | | |
|--------------|------------------|------|---------|--------|-------------|-----------|-------|----|
| | H.H. Expenses | | Illness | Travel | Business | Any other | | |
| 0-100 | 5 | - | - | - | - | - | 5 | - |
| % | 100.0 | | - | - | | - | 100.0 | - |
| 101-200 | 10 | - | 2 | 1 | - | _ | 13 | 1 |
| % | 76.9 | - | 15.4 | 7.7 | - | - | 100.0 | - |
| 201-400 | 55 | 1 | 3 | - | 1 | - | 60 | 6 |
| % | 91.7 | 1.7 | 5.0 | - | 1.7 | - | 100.0 | - |
| 401-600 | 72 | 4 | 6 | - | ~ | - | 82 | 3 |
| % | 87.8 | 4.9 | 7.3 | - | - | - | 100.0 | |
| 601-800 | 57 | - | - | - | 1 | 1 | 59 | 7 |
| % | 96.6 | - | - | - | 1.7 | 1.7 | 100.0 | - |
| 801-1000 | 35 | 2 | 5 | - | - | - | 42 | 5 |
| % | 83.3 | 4.8 | 11.9 | - | - | - | 100.0 | - |
| 1001-1200 | 13 | - | - | - | | - | 13 | 2 |
| % | 100.0 | - | - | | - | _ | 100.0 | - |
| 1201-1400 | 18 | - | 1 | - | - | - | 19 | 1 |
| % | 94.7 | - | 5.3 | - | - | - | 100.0 | - |
| 1401-1600 | 11 | - | - | - | - | - | 11 | 1 |
| % | 100.0 | - | - | - | - | - | 100.0 | - |
| 1601-1800 | 6 | - | - | - | - | - | 6 | - |
| % | 100.0 | - | - | - | - | - | 100.0 | - |
| 1801-2000 | 2 | | - | - | - | - | 2 | - |
| % | 100.0 | - | - | - | - | - | 100.0 | - |
| 2001+ | 13 | i.e. | 2 | - | - | - | 15 | - |
| ĭ | 86.7 | - | 13.3 | - | - | - | 100.0 | - |
| Total | 297 | 7 | 19 | 1 | 2 | 1 | 327 | 26 |
| X . | | 2.1 | | | 0.6 | 0.3 | 100.0 | - |
| N.R. | 7 | - | - | - | - | - | 7 | - |
| Grand total | 304 | 7 | 19 | 1 | 2 | 1 | 334 | - |

Table 4.36

Distribution of Borrowers according to the Principal Reasons for Borrowing in Trivandrum

| Income group | | | | | r borrowing | | | |
|--------------|------------------|------|------|------|-------------|-----------|-------|------|
| | H.H. Expenses | | | | | Any other | Total | N.A. |
| 0-100 | 2 | - | 1 | 1 | 1 | - | 5 | 1 |
| % | 40.0 | - | 20.0 | 20.0 | 20.0 | - | 100.0 | - |
| 101-200 | 6 | - | - | - | - | - | 6 | - |
| % | 100.0 | - | - | - | - | - | 100.0 | - |
| 201-400 | 25 | - | 3 | - | 1 | - | 29 | 2 |
| % | 86.2 | - | 10.3 | - | 3.4 | - | 100.0 | - |
| 401-600 | 28 | 1 | 4 | - | 2 | 1 | 36 | 3 |
| % | 77.8 | 2.8 | 11.1 | - | 5.6 | 2.8 | 100.0 | - |
| 601-800 | 35 | 1 | 1 | - | 3 | - | 40 | 1 |
| X | 87.5 | 2.5 | 2.5 | - | 7.5 | - | 100.0 | - |
| 801-1000 | 28 | 1 | 3 | - | - | 1 | 33 | 2 |
| ž | 84.8 | 3.0 | 9.1 | - | - | 3.0 | 100.0 | - |
| 1001-1200 | 9 | 1 | 3 | - | - | - | 13 | - |
| % | 69.2 | 7.7 | 23.1 | - | - | - | 100.0 | - |
| 1201-1400 | 7 | - | 3 | - | 3 | - | 13 | 1 |
| X | 53.8 | - | 23.1 | - | 23.1 | | 100.0 | - |
| 1401-1600 | 6 | 1- | - | - | 1 | 1 | 8 | 2 |
| X | 75.0 | 18.7 | - | - | 12.5 | 12.5 | 100.0 | - |
| 1601-1800 | 3 | 2 | - | - | 1 | - | 6 | 2 |
| ξ | 50.0 | 33.3 | - | - | 16.7 | - | 100.0 | - |
| 1801-2000 | 6 | | 2 | - | - | - | 8 | 1 |
| % | 75.0 | 2- | 25.0 | 1 1- | - | 170 | 100.0 | - |
| 2001+ | 24 | Ca. | 7 | 1 | 1 | 2 | 35 | 3 |
| T. | 68.6 | - | 20.0 | 2.9 | 2.9 | 5.7 | 100.0 | - |
| Total | 179 | 6 | 27 | 2 | 13 | 5 | 232 | 18 |
| ĭ | 77.2 | 2.6 | 11.6 | 0.9 | 5.6 | 2.2 | 100.0 | - |
| N.R. | 8 | 2 | - | | - | - | 10 | - |
| Grand total | 187 | 8 | 27 | 2 | 13 | 5 | 242 | 18 |

Table 4.37 Distribution of Borrowers according to the Sources of Boorowing

| City | | | Sou | rces | of bor | rowing | | | |
|-----------------|-------------|-----------|-----------|------|--------|-------------|-----------|--------|--------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 T | otal |
| Calicut % | | | | | | 127 34.0 | | | 373 100.0 |
| Cochin % | 186 56.9 | | 3 0.9 | | | 87 26.6 | | | |
| Trivandrum % | 67 28.9 | | | | | 108 46.6 | | | 232 100.0 |
| Total % | 402 43.1 | 64 6.7 | 23 2.5 | | | 322 34.6 | 46 4.9 | 11 1.2 | 932 100.0 |

- Money Lender
 Grocer
- 3 Employer
- Chit Fund
- 5 Bank
- 6 Friends
- Relatives
- 8 Any other

Table 4.38

Securities against which loans were raised in Calicut, Cochin and Trivandrum

| City | Securities | | | | | | | |
|-----------------|-------------|-------------|------------|--------------|------|--------|--|--|
| | No security | | Any other | Total | N.A. | N.R. | | |
| Calicut | 334 89.5 | 37 9.9 | 2 | 373 100.0 | 6 | 1 | | |
| Cochin % | 260 79.5 | 52 15.9 | 15 4.6 | 327 100.0 | 26 | 7 | | |
| Trivandrum % | 149 66.2 | 35 15.6 | 41 18.2 | 225 100.0 | 18 | 17 | | |
| Total % | 743 80.3 | 124 13.4 | 58 6.3 | 925 100.0 | 50 | 25 | | |

Tanle 4.39

Distribution of Workers according to Distance Travelled and the Mode of Transport in Calicut, Cochin and Trivandrum

| Distance | Mode of transport | | | | | | |
|-------------------|-------------------|---|--------------------|-------------|-----------|---------------|--|
| travelled (in km) | | Cycle | Rickshaw/ Tanga | | Others | Total | |
| | 5 83.3 | - | - | | 1 16.7 | 6 100.0 | |
| 1-10 % | 1093 73.0 | 121 8.1 | 7 0.5 | 246 16.4 | 30 2.0 | 1497 100.0 | |
| 11-20 % | 6 20.7 | 4 13.8 | - | | 1 3.4 | | |
| 21-50 % | 1 6.7 | $\begin{smallmatrix}2\\13.3\end{smallmatrix}$ | - | 9 | 3 20.0 | | |
| 51-76 % | - | - | - | 2 33.3 | 4 66.7 | | |
| 77+ % | - - | - | - | | - | | |
| | | 8.2 | 7 0.5 | | 2.5 | | |

Table 4.40

Distribution of Workers according to Distance Travelled and the Mode of Transport in Calicut

| Distance travelled | Mode of transport | | | | | | |
|-----------------------|-------------------|-----------|--------------------|---|-----------|--------------|--|
| | By foot | Cycle | Rickshaw/ Tanga | Bus | Others | Total | |
| Less than 1 % | | - | - | - | - | - | |
| 1-10 % | 480 82.2 | 48 8.2 | 2 0.3 | 54 9.2 | _ | 584 100.0 | |
| 11-20 % | 2 100.0 | - | · \ = - | - | - | 2 | |
| 21-50 % | 1 33.3 | - | - | $\begin{smallmatrix}1\\33.3\end{smallmatrix}$ | 1 33.3 | 3 100.0 | |
| 51-76 % | - | - | | 1 100.0 | - | 1100.0 | |
| 77+ % | - | - | - | - | - | - | |
| Total % | 483 81.9 | 48 8.1 | 2 | 56 9.5 | 1 0.2 | 590 100.0 | |

Table 4.41

Distribution of Workers according to Distance
Travelled and the Mode of Transport in Cochin

| Distance travelled | Mode of transport | | | | | | |
|-----------------------|-------------------|-------|--------------------|------|--------|-------|--|
| | By foot | Cycle | Rickshaw/ Tanga | Bus | Others | Total | |
| Less than 1 | 1 | | _ | _ | _ | 1 | |
| % | 100.0 | - | ener | - | - | 100.0 | |
| 1-10 | 397 | 23 | _ | 91 | 24 | 535 | |
| % | 74.2 | 4.3 | - | 17.0 | 4.5 | 100.0 | |
| 11-20 | 3 | 1 | _ | 13 | 1 | 18 | |
| % | 16.7 | 5.6 | - | 72.2 | 5.6 | 100.0 | |
| 21-50 | _ | _ | 2 | 2 | 1 | 3 | |
| % | | - | - | 66.7 | 33.3 | 100.0 | |
| 51-76 | _ | - | _ | - | 1 | 1 | |
| % | - | - | - | - | 100.0 | 100.0 | |
| 77+ | _ | | _ | _ | _ | _ | |
| % | - | - | - | - | - | _ | |
| Total | 401 | 24 | _ | 106 | 27 | 558 | |
| % | 71.9 | 4.3 | - | 19.0 | 4.6 | 100.0 | |

Table 4.42

Distribution of Workers according to Distance Travelled and the Mode of Transport in Trivandrum

| Distance travelled | Mode of transport | | | | | | |
|-----------------------|-------------------|-------|--------------------|-------|--------|-------|--|
| | By foot | Cycle | Rickshaw/ Tanga | Bus | Others | Total | |
| Less than 1 | 4 | _ | _ | _ | 1 | 5 | |
| % | 80.0 | - | - | - | 20.0 | 100.0 | |
| 1-10 | 216 | 50 | 5 | 101 | 6 | 378 | |
| % | 57.1 | 13.2 | 1.3 | 26.7 | 1.6 | 100.0 | |
| 11-20 | 1 | 3 | - | 5 | _ | 9 | |
| % | 11.1 | 33.3 | - | 55.6 | - | 100.0 | |
| 21-50 | - | 2 | - | 6 | 1 | 9 | |
| % | - | 22.2 | - | 66.7 | 11.1 | 100.0 | |
| 51-76 | _ | - | - | 1 | 3 | 4 | |
| % | = | - | - | 25.0 | 75.0 | 100.0 | |
| 77+ | - | - | - | 1 | - | 1 | |
| % | - | - | - | 100.0 | | 100.0 | |
| Total | 221 | 55 | 5 | 114 | 11 | 406 | |
| % | 54.4 | 13.5 | 1.2 | 28.1 | 2.7 | 100.0 | |

CHAPTER V

SERVICE PROFILE

Accessibility to services is a major factor in any slum upgradation programme. Are the basic services available to all the slum dwellers? What is the level of existing services? Are the slum households in a position to afford the civic services? Are the slum dwellers satisfied with the levels of services? These are some of the vital aspects for formulation of slum upgradation programme. We, therefore, discuss the accessibility and the levels of various services especially water, sanitation, electricity and health in this chapter for gaining insight into the questions posed above.

Water Supply

depending on a number of sources for water supply. These include water taps, handpumps, wells, tubewells, rivers and ponds. It is interesting to note from table 5.1 that the slum dwellers are using these various sources for different uses viz. drinking, bathing and washing of clothes and utensils. Tapped water supply is found to be used by the slum dwellers extensively for drinking purposes. In Cochin, the entire sample slum households reported using this source for drinking purposes. The proportion of such households in Calicut and Trivandrum is about 99% and 90% respectively. Even for other purposes like bathing and washing, the tapped water supply is found to be a very popular source in the slums of all the three cities. In Calicut, around 80% of the

households are using this source for purposes other than drinking as well. In Cochin whereas 83% of the households use it for bathing, relatively lesser number of households (around 75%) are using it for washing of clothes and utensils. In Trivandrum, the number of such households is only around 50%.

- What is the status of the sources of water used by the 5.3 slum dwellers? What is the proportion of slum households having private connection and of those using water from community Table 5.2 contains frequency distribution of sample sources? households in the three cities according to private and community sources. It should be obvious from this table that in the three cities taken together, a minuscule proportion (5.3%) of the total sample households are found drawing water from the private sources. As many as 916 households out of a sample household of 1000 constituting 91.6% of the sample are drawing water from community sources. Only about 3% of the sample households are drawing water from both sources. Amongst the three cities, has still smaller proportion (4.2%) of the Cochin households drawing water from private sources. In Calicut, around 6% of the households belong to this category whereas in Trivandrum, such households constitute only 5.3% of the total sample household in this city.
- Table 5.2 thus reveals that an overwhelming proportion (91.6%) of the total sample households are depending for water on the community sources.

Paying for Water

We have seen in table 5.2 that only 53 households (5.3%) in the sample slums of the three cities are using water from private sources. Do they pay for it? A look at table 5.3 reveals that out of 53 such families, 5 did not offer any response. Of the remaining 48 households, 34 are making payment for water used, and the remaining 14 households do not pay anything for it. The number of households paying for water in Calicut, Cochin and Trivandrum is 16, 13 and 5, respectively. How much do they pay for it? Table 5.4 reveals that barring only three households in Calicut who are paying more than Rs 20 per month, others are paying only up to Rs 20 per month in all sample slums of the three cities. In Cochin, 12 households are paying only up to Rs 11 per month. In Trivandrum, two families pay even less than Rs 2 per month.

Community Water Sources

boundered that an overwhelming proportion of households are drawing water from community sources. How far is the community source located from their dwelling units? The response given by the sample households is tabualted in table 5.5. A look at this table suggests that the slum households are advantageously placed so far as the distance of the community source of water is concerned. In the sample slums of all the three cities taken together, a little less than three-fourth (72.2%) of the households who use this source are within a distance of less than 50 feet. So fetching water from such a short distance does not appear to be a problem for a very large

number of slum households. However, the situation does not seem to be that happy in Trivandrum sample slums where the proportion of such households is less (67.9%) than the average for the three cities. About 19 to 23% of the households dependent on community source, have to fetch water in the three cities from a distance of 51 to 100 feet. Only about 7% of the households have to bring water from a distance of more than 100 feet. Amongst the three cities, the number of such families is only 4 in Calicut. In Cochin and Trivandrum, the number of such households is 27 and 30, respectively.

An attempt was made to know the time being spent in 5.7 waiting for water at the public standposts which are the main sources of community water supply. In the preceding paragraph, we have seen that a very large number of households have community water tap near their houses. However, a significant proportion of them reported that they have to wait for an hour and even more. The proportion of such families in the sample slums of the three cities taken together is 37.3% (table 5.6). The problem seems to be acute especially in Cochin where 58% of the households drawing water from community source reported to spend more than an hour before their turn comes for fetching of In Calicut, again 37.4% of such households reported waiting for an hour and more. The situation does not seem to be difficult in Trivandrum slums where only 18 households reported a waiting time of more than an hour. However, table 5.6 reveals that in Cochin, only about one fifth (21.8) of the households have to wait for less than half an hour. In Trivandrum, the

proportion of such families is 83.8% whereas in Calicut it is about 2.6%. This suggests that in Trivandrum, the household - public stand post ratio is better than that of Calicut and Cochin.

Adequancy of Water Supply

5.8 With a view to know the adequacy of water supply, the respondent households were asked to indicate if the water supply is adequate or deficient. The perception of households is tabulated in table 5.7. It is obvious from this table that a little less than half of such households (48%) said that water supply is adequate. The remaining 52% of them pointed a number of reasons for inadequate water supply. These include long queues, short duration of water supply, long distances from the dwelling units and low pressure. Some of them also mentioned some personal problems which adversely affect the storing of enough water. These include "lack of enough containers" to store water and "not enough member in the family" who could collect sufficient water and store it. About one-third of households (33%) in the three cities felt that the water problem is due to short duration of water supply. In Calicut, more than half of the households using community water source (54.7%) attributed the inadequacy of water supply to short duration. In Cochin, the number of such households is 21.7% and in Trivandrum, this reason is attributed to by 16.4% of such households. Long queues appear to be another important reason in Cochin where about one-fourth the households using community sources attributed of inadequacy of water supply to this reason. This does not appear

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Report on Household Survey

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National Institute of Urban Affairs New Delhi December 1993 to be a reason in Trivandrum due to a better household and public stand post ratio. Table 5.6 has earlier revealed that a large proportion of households have to wait for long at the public stand psots. However, long waiting does not seem to be an important reason for inadequacy of water supply (table 5.7).

Willingness to have private connection

- 5.9 The households using community source of water were asked if they would like to have a private connection to avoid the inconvenience presently faced by them. Table 5.8 indicates more than two-third (68.2%) of them revealed that their preference to go for private connection. In Trivandrum, four-fifth of the households are keen to have private connection. In Cochin, only 65.2% of such households want to have it. Calicut, still a lower proportion (63%) of the households desire to have private connection. This great deal of variation in the number of households desiring to go for private connection is explained by the income distribution pattern in the three cities as analysed in Chapter IV. The income level in Trivandrum is the highest amongst the slum dwellers of the three cities and it is the lowest in Calicut.
- In sum, the analysis of water supply situation suggests not a happy situation as a very large proportion of households in the slums are found depending on community source where again a large number of them have to wait for long period of time for fetching water. Moreover, more than half of the households in the slums of the three cities do not get adequate water. It is worth mentioning that the sample survey of improved slums as

analysed in the Preliminary Report has also earlier come to the same conclusion.

Sanitation

- 5.11 Besides water, availability of latrine is yet another basic amenity. The analysis of availability of latrine in the sample slums of the three cities indicates that only a little over one-third (37.4%) of the total sample households in the three cities have private latrines (table 5.9). The remaining 62.6% of the households do not have latrine of their own and hence they are taking recourse to various other means. About one-fourth of the total sample households (25.8%) are found using community latrines provided by public agency. About one-third of them reported using open space and the remaining about 4% of the households said that they are using some other means.
- Amongst the three cities, the largest number of slum dwellers are found to have private latrine in Trivandrum (57.7%). In Cochin, it is 38.6%. In Calicut, the smallest number of households have private latrines. In Calicut slums, only about 22% of the households have the private latrines. Perhaps this explains the defecation on open space in Calicut by the largest number of households (61.6%) amongst the three cities. Community latrines are used by the largest number of families in Cochin (38.3%).
- 5.13 The households (258 in number) using community latrines were asked to indicate the distance of community latrines from their dwelling units. Of the 244 households who offered answer

to this question, as many as 157 (64.3%) in the slums of three cities taken together said that the distance is less 50 feet (table 5.10). A little over one-fourth (26.6%) of said that the community latrines were at a distance of 51 to 100 Thus for a very substantial number of households who are using community latrines (about 91%) the community latrines located within a distance of less than 100 feet. Even three cities individually, the community latrines are located very much near the dwelling units of the slum households. About 90 to 94% of the households have the community latrines within a distance of less than 100 feet. Thus though a small proportion of total slum households have the benefit of community latrines, the households who are using them (258 households) have them located near their dwelling units. They were again asked to indicate if they used it regularly and if not the reasons for it. A look at table 5.11 reveals that out of 258 households in the three cities together, 233 of them said that they were using it regularly. The remaining 25 households in the slums of the three cities said that they do not use the community regularly. Of them, 14 said that it is due to overcrowdedness that they are not able to use and 8 households attributed it to lack of water.

Reasons for not having Private Latrines

5.14 Table 5.9 has earlier revealed that 62.6% of the households in the sample slums of the three cities do not have private latrines. They were asked to reveal reasons for it.

Table 5.12 shows that the largest proportion of such households

(72%) do not have private latrines because it is "expensive". Another about 10% of them said that they are just not interested in having a latrine for the exclusive use of their family. They, however, did not mention specific reason for this. Another about 9% of the households do not have private latrine because the land on which they are presently residing is not owned by them. Another about 7% of the households attributed it to the lack of enough space for installation of a private latrine.

5.15 A closer look at this table reveals that in Calicut slums the high cost of private latrines has been attributed to by the largest number of households amongst the three slums. It is to the extent of 87%. The number of such households in Cochin is lower (60.2%) than this and in Trivandrum, it is the lowest (55.4%). This again conforms to the income levels obtaining in the slums of the three cities.

Affordability to have latrine

5.16 The households who do not presently have latrines of their own, were asked to indicate the amount of money they could afford in as down payment and in instalements for installation of private latrines. Table 5.13 shows that in the slums of the three cities together, 529 households out of 607 (87%) can afford to pay upto Rs 200 as lump sum. Another about 6% of the households indicated an affordability of Rs 201 to Rs 400. Only 13 families said that they could pay between Rs 401 to Rs 600 in one go and 9 households are ready to pay Rs 801 to Rs 1000 as a single payment. Amongst the three cities, in Calicut, 86% of the

slum household are ready to pay upto Rs 200 in lump sum. The proportion of such families in Cochin is 90%. In Trivandrum, about 83% of the households who do not have private latrines are ready to pay upto Rs 200 in a single instalment. It is interesting to note that in the sample slums of Trivandrum as heavy as 8 households indicated their readiness to pay more than Rs 2000 as a down payment. Thus the affordability to pay in one go seems to be very low in the all the three cities.

As regards the affordability to pay in 5.17 5.14 shows a fairly good table level instalments. affordability to instal private latrine. In the slums of the three cities together, as many as 97% of the households not having private latrines are ready to pay upto Rs 50 per month charges of private towards the installation Interestingly in Calicut, despite the lowest income level, all the 294 households expressed their readiness to pay up to Rs 50 per month. In Cochin, there are such families to the extent of 98% and in Trivandrum which has the highest income levels, about 86% of the households are in a position to pay upto Rs 50 per There are 8 families in Trivandrum who are ready to pay even upto more than Rs 290 per month for installation of private latrines.

Bath Room

5.18 The analysis of responses given by the households in the sample slums of the three cities indicates that just about 50% of them have their private bath rooms. How do the other half of the households manage? Table 5.15 shows that 60 households

constituting only 6% of the total sample in the slums of the three cities share the bath room jointly. Another 9.5% of them use the community bath rooms where ever they exist in their slum settlements. About 16% of the households take their bath at the community stand post itself and a miniscale proportion of 46% take bath just in the back of their house or in the make-shift bathing places.

- 5.19 Amongst the three cities, more than half of the households of Calicut (59.2%) and Cochin (56.4%) have private bath rooms. In case of Trivandrum slums, more than one-fourth of the households (27.4%) have private bath rooms.
- 5.20 Calicut slums, a considerable number of households (36.1%) use public stand posts for bathing while very few households of Calicut slums either use the community bath rooms or share private bath rooms (table 5.16). In case of Cochin slums, slightly less than one-fourth of the households (23.9%) use community bath rooms while some of the households (11.7%) share bath rooms amongst them. About 5.3% take their bath on the back of their houses. More than a half of the households of Trivandrum slums use other modes for bathing purpose. 10.4% and 6.9% of the households take their bath on the back of use public stand posts, respectively. the house and 5.21 Respondents were also asked about the regular use of community bath rooms. Out of 95 slum households of the two cities (Calicut and Cochin), 85.3% reported that they used community bathrooms regularly.

5.22 In case of Cochin slums, more than 87% of the households were found using community bath rooms frequently. Around 8% and 4.7% of the households reported that they did not use them regularly because the community latrines remain crowded and dirty. In Calicut slums, out of 9 households, 6 households mentioned that they used community latrines regularly while the remaining three households (who were not regular users gave different reasons as given in table 5.16.

Garbage Disposal

- Slum households of the three cities were asked about the garbage disposal system prevailing in their settlements. A majority of the households (84.2%) of Calicut slums reported that they just the throw garbage out side their houses (table 5.17). About 7.6% of the households are found in a habit of throw garbage on the streets and 4.7% use other modes. Very few households (3.4%) are using municipal rubbish bins because these are very few in number. In case of Cochin slums, about half of the respondents mentioned that they throw the garbage on the streets. Another 28.6% throw it outside their houses. A small fraction of households in Cochin said that the garbage is collected by the sweepers. Some of the households said that they throw the garbage in the river, canal, sea etc.
- In Trivandrum slums, 39 households throw it outside their houses, 10.8% on to the streets, 4.2 per cent dispose it in the river, canal or sea etc. Only 14.7% of the households reported reported that they use municipal rubbish bins. About 29 per cent of the households are found using other modes.

5.25 Thus altogether, more than half of the households in the three cities just throw the garbage out side their houses. Slightly less than-one fourth (23.8%) throw it on to the streets and 10% take recourse to other modes. Less than 10% of the households reported that they use municipal rubbish bins. Very few households, ranging from 0.7 to 2.3 per cent, give the garbage to the sweepers, put it in to the river, canal, sea or burned the garbage. (table 5.17)

Health

- 5.26 An attempt was made to understand the utilisation pattern of health services available in or around the slum clusters. The distribution of slum households, according to the use of health facilities, is given in table 5.18. It is worth mentioning in this regard that the total number of households using different health facilities, will not add up to the sample size because some of the households are using more than one health facility. The total given in table 5.18 thus relates to the total number of facilities.
- 5.27 Table 5.18 shows that in all the sample slums of the three cities, 286 households are using government hospitals. 246 households are using private hospitals as well. Amongst the three cities, the entire sample household in Calicut (380) is using the government hospitals only. They do not use any other facility like private hospitals, private practitioners etc. A low level of household income perhaps explains this phenomenon in Calicut slums. As mentioned earlier in Chapter IV, about 79% of the households in Calicut slums earn upto Rs 600 per month.

- 5.28 In Cochin, a significant number of households (289) is using the services of government hospitals. 71 households are using the private hospitals also and 24 households are able afford services of private physicians.
- 5.29 The use of such expensive health facilities is also directly related to the earning capacity of the slum dwellers. As mentioned earlier, 36.2% and 15.6% of the earners in Cochin slums earn in the range of Rs 600-1200 and Rs 1200-2000 per month, respectively.
- 5.30 The utilisation pattern of health services in the slums of Trivandrum is somewhat different from Calicut and Cochin slums. In Trivandrum, slum households are using a number of health facilities, viz, government hospitals, private hospitals, ESIS dispensaries, private doctors, health workers, Anganwadi Nurse Midwife (ANM) (coming to centres), Vaid/Hakim and voluntary Here it is worth noting that a large proportion organisations. households is dependent upon private hospitals. of The relatively higher income levels in Trivandrum slums (as mentioned in Chapter IV, 32.8 per cent of the earners earn upto Rs 600, 35.6 per cent earn Rs 600-1200 and 31.6 per cent earn Rs 1200-2000 per month) explains the utilisation pattern of health services in the slums of Trivandrum.
- In sum, one can infer that barring Trivandrum slums, a large number of slum dwellers in Calicut and Cochin are dependent upon government hospitals due to their poor economic conditions.

 Table 5.19 shows the distribution of slum households according to

the number of health facilities used by them. It is clear from the table that around half of the households in Trivandrum slums use more than one health facility. It may again be attributed to the high affordability of Trivandrum slum dwellers. About 40 per cent of the households (who use the services of government hospitals) in Trivandrum slums are found dissatisfied with the services of government hospital. Perhaps, it may be another reason for using more than one health facility.

- Table 5.20 indicates the perception of slum dwellers about the adequacy of services in the government hospitals. In the sample slums of Calicut, a majority of households (91.84%) are satisfied with the services of government hospital. Out of the remaining 8 per cent, i.e. 31 households, 26 households did not offer any response, while three households and two households complained about the long waiting in government hospital and indifferent behaviour of doctors, respectively.
- 5.33 About 62.98% of the households of Cochin slums are found satisfied with the services of government hospital. Out of 107 dissatisfied households, 82 households (76.64%) did not offer any response. Nearly 72% of the households (who responded) mentioned the indifferent behaviour of doctors as the only reason for their dissatisfaction. One-fifth of the households reported that one has to wait for long in the government hospital.
- 5.34 In case of Trivandrum slums, around 60% of the households are satisfied with the services of government hospital. Out of 63 dissatisfied households, 24 households

(38.9%) did not respond. About 28 % of the households (who responded) mentioned that the government hospitals were very far from their dwelling units. Nearly, one-fifth of the households (20.5%) complained about the indifferent behaviour of doctors. Long waiting in government hospital is one of the problems mentioned by another one-fifth of the households. Slightly more than one-fifth of the households gave other reasons of their dissatisfaction. About 5% of the households said that the timing of government hospital overlaps with their working hours.

Altogether, around three-fourth of the slum households (75.67%) in the three cities are found satisfied with the services of government hospitals. Out of 201 dissatisfied households, 132 households (65.67%) did not respond. About 40 per cent of the respondents who responded, complained about the indifferent behaviour of doctors. Nearly 23% of the households referred to the long waiting time in government hospitals. Around 17% of the households mentioned that the government hospital was very far from their dwellling units. Only three households (4.3%) said that the hospital timings overlap with their working hours. A considerable number of households (14.5%) gave other reason for their dissatisfaction.

Suggestions to Improve Health Facilities

5.36 The slum households were asked to suggest ways and means of improving the health facility. In all the three cities only 297 households in the slums (out of a total sample of 1000 households) offered suggestions for improving the health

facilities (table 5.21). About three-fourth of them suggested to create more health facilities. In Calicut and Cochin where a very large number of households are using government hospitals, about 91% of the households who offered suggestions wanted to have more health facilities. In Trivandrum the number of such households is only about 36%. The other suggestion offered was to change the timings of hospitals as the present timings clash with their working hours. 59 households in the sample slums of three cities offered a variety of other suggestions.

Electricity

- that only a little over one-third (34.6%) of the households in the three cities have electricity (table 5.22). As many as 654 households (out of 1000) do not have electricity. Amongst the three cities, the slums in Calicut have the lowest proportion of households with electricity. Only about 22% of the slum households in Calicut have electricity at the moment. In Cochin the proportion of such households is a little higher (40.8%) than this. In Trivandrum, the proportion of slum dwellers is the highest (44.2%) amongst the three cities. However, some of the families presently do not have seperate meters. They are managing with combined meters. There are in all 86 such households in the three cities.
- 5.38 Slum respondents, who are having electricity connections with meter, were asked about the average electricity charges paid by them in a month. A majority of the respondents in Trivandrum (85.1%) and Calicut (83.3%) slums stated that they

are paying less than Rs 25/- per month while the corresponding figure in case of Cochin is 56.8%. Slightly more than one-third of the respondents in Cochin paid electricity charges in the range of Rs 25-50 per month, While around 7% are paying in the range of Rs 51-75. A considerable number of respondents in Calicut (15.5%) and Trivandrum (12.3%) is paying in the range of Rs 25-50 per month.

5.39 Thus altogether, a majority of the respondents in the three cities are paying less than Rs 25 per month as electricity charges. Less than one-fourth of the respondents (23.1%) are paying in the range of Rs 25-50. Very few respondents are paying in the range of Rs 51-75, Rs 76-100 and Rs 126.150.

 $\label{eq:table 5.1}$ Distribution of Households according to the sources of water drawn for different uses

| | urces of ter | | Calic | | | | Cochin | | | | | vandrum | |
|---------|-----------------|----------------|----------------|----------------|---------------------|----------------|----------------|--------------------|---------------------|----------------|----------------|----------------|---------------------|
| m d. | ter | Drinking | Bathing | | Washing utensils | | Bathing | Washing clothes | Washing utensils | Drinking | Bathing | clothes | Washing utensils |
| 1. | Tap | 376 (98.9) | 314 (82.6) | 321 (84.5) | 316 (83.2) | 360 (100.0) | 300 (83.3) | 278 (77.2) | 273 | 235 (90.4) | 136 (52.3) | 133 | 146 (56.2) |
| 2. | Hand Pump | 1(0.3) | 30 (7.9) | 27 (7.1) | 28 (7.4) | | 7 (1.9) | 8 (2.2) | 9 (2.5) | | | - | - |
| 3. | Well | 2 (0.5) | 33 (8.7) | 29 (7.6) | 33 (8.7) | | 52 (14.4) | 72 (20.0) | 77 (21.4) | 25 (9.6) | 93 (35.8) | 99 (38.1) | 97 (37.3) |
| 4. | River | | • | - | | - | - | 1 (0.3) | - | - | 9 (3.5) | 8 (3.1) | 3 (1.2) |
| 5. | Tubewell | - 1 | 1(0.3) | 2 (0.5) | 2 (0.5) | - | - | - | - | - | - | | |
| 6. % | Pond | - | 1(0.3) | - | - | - | 1(0.3) | 1 (0.3) | 1(0.3) | - | 15 (5.8) | 15 (5.8) | 10 (3.8) |
| 7. | Any other | 1 (0.3) | 1(0.3) | 1(0.3) | 1(0.3) | | - | - | - | - | 7 (2.7) | 5 (1.9) | 4 (1.5) |
| Tot | al | 380 (100.0) | 380 (100.0) | 380 (100.0) | 380 (100.0) | 360 (100.0) | 360 (100.0) | 360 (100.0) | 360 (100.0) | 260 (100.0) | 260 (100.0) | 260 (100.0) | 260 (100.0) |

Source : NIUA, Household Survey, 1990

 $\label{eq:table 5.2} \textbf{Households drawing water from Private and Community Sources}$

| Source of Water | C | alicut | Co | Cochin | | andrum | Gra | and Total |
|--------------------------------------|-----|--------|-----|--------|-----|--------|------|-----------|
| | No | 7 | No | ĭ | No | % | No | % |
| Private Sources | 22 | 5.8 | 15 | 4.2 | 16 | 6.2 | 53 | 5.3 |
| Public (Community & Water Supply) | 358 | 94.2 | 345 | 95.8 | 213 | 81.9 | 916 | 91.6 |
| Both | | - | * | - | 31 | 11.9 | 31 | 3.1 |
| Total | 380 | 100.0 | 360 | 100.0 | 260 | 100.0 | 1000 | 100.0 |

Source : NIUA, Household Survey, 1990

 $\label{eq:table 5.3}$ No. of Households paying for the use of water from Private Sources

| City | If paying for | water used | No Response | Not applicable | Total | Total |
|-----------------|---------------|--------------|-------------|----------------|---------------|-------|
| | Yes | No | | | ******** | |
| Calicut % | 16 (72.7) | 6 (27.3) | - | 358 | 22 (100.0) | 380 |
| Cochin % | 13 (86.7) | 2 (13.3) | - | 345 | 15 (100.0) | 360 |
| Trivandrum % | 5 (45.5) | 6 (54.5) | 5 | 244* | 11 (100.0) | 260 |
| Total | 34 (70.8) | 14 (29.2) | 5 | 947 | 48 (100.0) | 1000 |

^{*} Include 31 households who use both Private and Public Community Water Supply, but do not pay for it.

Table 5.4

Distribution of Households who pay for water according to the amount paid for month

| City | Amount paid (Rs) | | | | | | | | | | | | |
|------------|------------------|------------|-------------|-------------|-------|-------------|-------------|-------------|------|------|-------|-------|--|
| | <2 | 3-5 | 6-8 | 9-11 | 12-14 | 15-17 | 18-20 | 21+ | N.R. | N.A. | Total | Total | |
| Calicut | - | 1 (6.3) | 1 (6.3) | 5 (31.3) | - | 2 (12.5) | 4 (25.0) | 3 (18.8) | - | 364 | 16 | 380 | |
| Cochin | - | 1 (7.7) | 7 (53.8) | 4 (30.8) | - | - | 1 (7.7) | - | - | 347 | 13 | 360 | |
| Trivandrum | (40.0) | 1 (20.0) | 1 (20.0) | 1 (20.0) | - | - | | - | 5 | 250 | 5 | 260 | |
| Total | 2 (5.9) | 3 (8.8) | 9 (26.5) | 10 (29.4) | - | 2 (5.9) | 5 (14.7) | 3 (8.8) | 5 | 961 | 34 | 1000 | |

N.R. - No Response

N.A. - Not applicable

Source : NIUA, Household Survey, 1990

Table 5.5

Distribution of Households using water from Community sources according to the distance of the Water Source from the Dwelling Units

| City | Distanc | e of Water S | Source if no | t Private | (in feet) | Total | Total | Grand |
|------------|---------------|---------------|--------------|-----------|-----------|----------------|-------|-------|
| | <50 | 51-100 | 101+ | N.A. | N.B. | | | Total |
| Calicut | 270 (75.4) | 84 (23.5) | 4 (1.1) | 22 | - 1 | 358 (100.0) | 22 | 380 |
| Cochin | 248 (71.9) | 70 (20.3) | 27 (7.8) | 15 | - | 345 (100.0) | 15 | 360 |
| Privandrum | 163 (67.9) | 47 (19.6) | 30 (12.5) | 16 | 4 | 240 (100.0) | 20 | 260 |
| [otal | 681 (72.2) | 201 (21.3) | 61 (6.5) | 53 | 4 | 943 (100.0) | 57 | 1000 |

Note - Figure in brackets indicate the percentage to total

N.A. - Not Applicable

N.R. - No Response

Table 5.6

Time spent in waiting for water

| City | | | | | Ti | ne Spen | t in Mi | nutes | | | | | Grand |
|-----------------|--------------|---------------|--------------|---------------|-----------|------------|---------------|---------------|------|-------------|-------|-------|-------|
| | 0 | 1- 10 | 11- 20 | 21- 30 | 31- 40 | 41- 50 | 51- 60 | 61+ | N.R. | N.A. | Total | Total | Total |
| Calicut | - | 20 (5.6) | 2 (0.6) | 70 (19.5) | - | - | 132 (36.9) | 134 (37.4) | - | 22 (100) | 358 | 22 | 380 |
| Cochin % | 22 (6.4) | 25 (7.2) | 14 (4.1) | 14 (4.1) | • | 3 (0.9) | 67 (19.4) | 200 (58.0) | - | 15 (100) | 345 | 15 | 360 |
| Trivandrum % | 31 (12.9) | 65 (27.1) | 52 (21.7) | 53 (22.1) | 2 (0.8) | 6 (2.5) | 13 (5.4) | | 4 | 16 (100) | 240 | 20 | 260 |
| Total | 53 (5.6) | 110 (11.7) | 68 (7.2) | 137 (14.5) | 2 (0.2) | 9 (1.0) | 212 (22.4) | 352 (37.3) | 4 | 53 | 943 | 57 | 1000 |

N.R. - No Response

N.A. - Not Applicable

Table 5.7

Households Perception of adequacy of Water Supply and reasons for inadequate water

| City | | Reasons | for inad | equate wat | er supply | | | | Total |
|-----------------|---------------|---------------|-------------|---------------|------------|-------------|-------------|---------|---------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| Calicut % | 129 (36.0) | 18 (5.0) | 2 (0.6) | 196 (54.7) | 3 (0.8) | 6 (1.7) | 4 (1.1) | - | 358 (100) |
| Cochin K | 144 (41.7) | 79 (23.0) | 5 (1.4) | 75 (21.7) | 3 (1.0) | 6 (1.7) | 32 (9.2) | 1 (0.3) | 345 (100) |
| Privandrum Z | 182 (74.6) | 10 (4.1) | 11 (4.5) | 40 (16.4) | - | | 1 (0.4) | - | 244* (100) |
| Cotal | 455 (48.0) | 107 (11.2) | 18 (1.9) | 311 (33.0) | 6 (0.6) | 12 (1.3) | 37 (4.0) | 1 (0.1) | 947 (100) |

[‡] Include 31 Households who use both community and private water supply

Note : 1. No. & % of H.Hs. getting adequate water

Reasons for inadequate water supply

- 2. Long queues
- 3. Not enough containers
- 4. Short duration of supply
- 5. To far to go often
- 6. Not enough member to collect water
- 7. Low pressure
- 8. Any other

Source: NIUA, Houshold Survey, 1990

Table 5.8

Distribution of Households using water from Community Sources according to their willingness to go for a private connection

| City | | Private con | nection ne | eeded | N.R. | N.A. | Total | Total | Grand |
|------------|-----|-------------|------------|-------|------|------|--------------|------------------|-------|
| | | Yes | No | | | | of (Yes & | (N.A. + N.R.) | Total |
| | No | 7 | No | % | | | No) | | |
| Calicut | 228 | 63.7 | 130 | 36.3 | | 22 | 358 (100) | 22 | 380 |
| Cochin | 225 | 65.2 | 120 | 34.8 | - | 15 | 345 (100) | 15 | 360 |
| rivandrum' | 187 | 79.6 | 48 | 20.4 | 9 | 16 | 235 (100) | 25 | 260 |
| otal | 640 | 68.2 | 298 | 31.8 | 9 | 53 | 938 (100) | 62 | 1000 |

N.R. - No Response

N.A. - Not Applicable

Source : NIUA, Household Survey, 1990

Table 5.9

Distribution of Households according to availability of Private and Community Latrines

| City | No. & % of H.Hs. | | ehold usi | ng | Total |
|------------|---------------------|----------------------|-----------|-------|----------------|
| | having | Community Latrine | | | |
| Calicut | 20 | e i | 654 | | |
| % | | 61 (16.1) | | | 380 (100.0) |
| Cochin | 139 | 138 | 58 | 25 | 360 |
| Z | (38.6) | (38.3) | (16.1) | (6.9) | (100.0) |
| Trivandrum | 150 | 59 | 37 | 14 | 260 |
| % | (57.7) | (22.7) | (14.2) | (5.4) | (100.0) |
| Total | 374 | 258 | 329 | 39 | 1000 |
| % | | (25.8) | | | |

Table 5.10

Distribution of Household using Community latrine according to the Distance of Latrine from their Dwelling Units

| City | 22222 | | | ce from Dw | 0.00 | 1000 | 1.5 | | | Grand |
|-----------------|---------------|--------------|-------------|------------|---------|-------------|-----|------|-------|-------|
| ~~~~~~~~~~~~~ | <50 | 51-100 | 101-150 | | | | | N.A. | Total | Total |
| Calicut % | 14 (23.7) | 39 (66.1) | 6 (10.2) | - | - | 59 (100) | 2 | 319 | 61 | 380 |
| Cochin % | 102 (76.7) | 18 (13.5) | 10 (7.5) | 2 (1.5) | | | 5 | 222 | 138 | 360 |
| Trivandrum % | | 8 (15.4) | 2 (3.8) | | | 52 (100) | 7 | 201 | 59 | 260 |
| Total | 157 (64.3) | 65 (26.6) | 18 (7.4) | | 1 (0.4) | | | 742 | 258 | 1000 |

N.R. - No Response

N.A. - Not Applicable

Source: NIUA, Household Survey, 1990

Table 5.11

Distribution of Households according to the use of Community Latrines

| City | No. & % of H.Hs. using Commu- | | | Re | asons fo | or not us | ing | | | Grand |
|-----------------|----------------------------------|----------------------|------------------|--------------------|-------------|--------------|------------------------|----------------|-------|-------|
| | nity latrine regularly | Over crow- ded | Lack of water | Lack of privacy | Very far | Any other | Not appli- cable | Total | Total | Total |
| Calicut % | 47 (77.0) | 8 (13.1) | 6 (9.8) | - | | - | 319 | 61 (100.0) | 319 | 380 |
| Cochin X | 128 (92.8) | 6 (4.3) | 2 (1.4) | 1(0.7) | 1 (0.7) | - | 222 | 138 (100.0) | 222 | 360 |
| Trivandrum % | 58 (98.3) | - | - | - | - | 1 (1.7) | 201 | 59 (100.0) | 201 | 260 |
| Total | 233 (90.3) | 14 (5.4) | 8 (3.1) | 1 (0.4) | 1 (0.4) | 1 (0.4) | 742 | 258 (100.0) | 742 | 1000 |

Table 5.12 Households not willing to have Private Latrine according to reasons

| City | | | Rea | sons for | not havin | g pvt latr | ine | | | Grand |
|-----------------|--------------|---------------|--------------|----------|-----------|--------------|-------------|------|----------------|---------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | N.A. | Total | - Total |
| Calicut % | 25 (8.5) | 257 (87.1) | 12 (4.1) | Ξ | - | 1(0.3) | - | 85 | 295 (100.0) | 380 |
| Cochin % | 24 (10.9) | 133 (60.2) | 38 (17.2) | - | 1 (0.4) | 25 (11.2) | | 139 | 221 (100.0) | 360 |
| Trivandrum K | | 61 (55.4) | | | - | 20 (18.2) | 10 (9.1) | 150 | 110 (100.0) | 260 |
| Total | 60 (9.6) | 451 (72.0) | 57 (9.1) | 1 (0.2) | 1 (0.2) | | 10 (1.6) | 374 | 626 (100.0) | 1000 |

N.A. - Not Applicable

Codes: 1. Not interested to have a latrine for the exclusive use of their family

- 2. Experience
 3. Do not own land
 4. Lack of information
 5. No water to maintain it
- 6. No space
- 7. Any other

Source: NIUA, Household Survey, 1990

Table 5.13

Affordability to pay for installation of Private Latrines in Lump sum

| City | | | | | Afforda | bility | to pay | | | | | | | | | Grand |
|-----------------|---------------|-------------|-------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|-------------|------|------|----------------|-------|-------|
| | 0- 200 | 201- 400 | 401- 600 | 601- 800 | 801- 1000 | 1001- 1200 | 1201- 1400 | 1401- 1600 | 1601- 1800 | 1801- 2000 | 2001+ | N.R. | N.A. | Total | Total | total |
| Calicut % | 254 (86.4) | 21 (7.1) | 7 (2.4) | 1 (0.3) | 7 (2.4) | - | - | - | - | 3 (1.0) | 1 (0.3) | 1 | 85 | 294 (100.0) | 86 | 380 |
| Cochin % | 198 (90.0) | 14 (6.4) | 2 (1.0) | - | 2 (1.0) | - | - | - | - | - | 4 (1.7) | 1 | 139 | 220 (100.0) | 140 | 360 |
| Trivandrum % | 77 (82.8) | 2 (2.2) | 4 (4.3) | - | - | - | - | 1 (1.1) | • | 1 (1.1) | 8 (8.6) | 17 | 150 | 93 (100) | 167 | 260 |
| Total | 529 (87.1) | 37 (6.1) | 13 (2.1) | 1 (0.2) | 9 (1.5) | - | - | 1 (0.2) | - | 4 (0.7) | 13 (2.1) | 19 | 374 | 607 (100.0) | 393 | 1000 |

N.R. - No Response

N.A. - Not applicable

Table 5.14

Affordability to pay for installation of Private Latrine on monthly basis

| City | | | | | | basis (Rs | | | | | Grand |
|-----------------|----------------|---|---------|------|------|-----------|----|-----|----------------|-------|-------|
| | <50 | | | 151- | 201- | 251+ | | | Total | Total | total |
| Calicut % | 294 (100.0) | - | - | - | . F | - | 1 | 85 | 294 (100.0) | 86 | 380 |
| Cochin | 216 (98.0) | | | | | 1 (0.5) | 1 | 139 | 220 (100.0) | 140 | 360 |
| Trivandrum K | | | | - | - | 8 (8.2) | 12 | 150 | 98 (100.0) | 162 | 260 |
| Total | 593 (97.0) | | 2 (0.3) | - | - | 9 (1.5) | 14 | 374 | 612 (100.0) | 388 | 1000 |

N.R. - No Response

N.A. - Not applicable

Table 5.15

Distribution of Households according to availability of Private and Community Bath room

| City | Households having Private Bath room | Jointly | Community | Public Stand- post | Others | Back of the house/ Make shift | Not Appli- cable | Total | Total | Grand total |
|------------|--|---------|-----------|--------------------------|--------|---|------------------------|-------|---------|----------------|
| | | | | | | | | | | |
| Calicut | 225 | 8 | 9 | 137 | 1 | _ | _ | - | 380 | 380 |
| X | (59.2) | | (2.4) | | | | | | (100.0) | 000 |
| | | | | | | | | | | |
| Cochin | 203 | 42 | 86 | 7 | 3 | 19 | - | - | 360 | 360 |
| % | (56.4) | (11.7) | (23.9) | (1.9) | (0.8) | (5.3) | | | (100.0) | |
| m : 1 | | ** | | | | | | | | |
| Trivandrum | 71 | 10 | - | 18 | 133 | | | 1 | 259 | 260 |
| % | (27.4) | (3.9) | - | (6.9) | (51.4) | (10.4) | - | - | (100.0) | |
| Total | 499 | 60 | 95 | 162 | 137 | 46 | 1 | 1 | 999 | 1000 |
| % | (49.9) | (6.0) | (9.5) | (16.2) | (13.7) | | _ | _ | (100.0) | |

 ${\tt Table~5.16}$ Distribution of households according to the use of {\tt Community~bathrooms}

| City | Households using Community Bath | | | | not using | | | | | | | Grand - total |
|-----------|------------------------------------|------------------|----------------------|------------|-----------------|----------------------|-------------|--------------|------------------------|---------------|-------|------------------|
| | room regularly | Lack of water | Over crow- ded | Dirty | Lack of privacy | Not req- uired | Very far | Any other | Not appli- cable | Total | Total | |
| alicut | 6 (66.7) | 1 (11.1) | 1 (11.1) | 1 (11.1) | - | - | - | - | 371 | 9 (100.0) | 371 | 380 |
| Cochin | 75 (87.2) | - | 4 (4.7) | 7 (8.1) | - | - | - | ÷ | 274 | 86 (100.0) | 274 | 360 |
| rivandrum | - | - | - | - | - | - | - | - | 260 | - | 260 | 260 |
| otal | 81 (85.3) | 1 (1.1) | 5 (5.3) | 8 (8.4) | - | - | | - | 905 | 95 (100.0) | 905 | 1000 |

Table 5.17
Places used for Disposal of Garbage

| City | Households having municipal rubbish bin | On street | In front of House | Give it to Sweeper | | Put it in the river/ canal/ sea | Burning of garbage | No response | Total | Total | Grand total |
|-----------------|---|---------------|----------------------|-----------------------|--------------|---|-----------------------|----------------|----------------|-------|----------------|
| Calicut | 13 (3.4) | 29 (7.6) | 320 (84.2) | - | 18 | - | | - | 380 (100.0) | - | 380 |
| Cochin % | 42 (11.7) | 181 (50.3) | 103 (28.6) | 14 (3.9) | 7 (1.9 | 12 (3.3) | 1(0.3) | - | 360 (100.0) | - | 360 - |
| Trivandrum % | 38 (14.7) | 28 (10.8) | 101 (39.0) | - | 75 (29.0 | 11 (4.2) | 6 (2.3) | 1 | 259 (100.0) | 1 | 260 |
| Total % | 99 (9.3) | 238 (23.8) | 524 (52.5) | 14 (1.4) | 100 (10.0 | 23 (2.3) | 7 (0.7) | 1 | 999 (100.0) | 1 | 1000 |

Source : NIUA, Household Survey, 1990

Table 5.18
Use of Various Health Facilities by the Slum Dwellers

| City | | | | Code | S | | | | | Total | |
|------------|-----|-----|---|------|----|----|---|---|---|-------|------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
| Calicut | 380 | - | - | - | 1 | - | - | - | | - | 380 |
| Cochin | 289 | 71 | 2 | 24 | - | - | 5 | - | 1 | - | 392 |
| Trivandrum | 157 | 175 | 4 | 28 | 30 | 40 | 1 | 5 | - | 4 | 444 |
| Total | 826 | 246 | 6 | 52 | 30 | 40 | 6 | 5 | 1 | 4 | 1216 |

Note:

- 1. Govt. Hospital
- 2. Private Hospital
- 3. ESIS dispensary
- 4. Private doctor
- 5. Health workers
- 6. ANM (coming to Anganwadi Centre)
- 7. Vaid/Hakim
- 8. Voluntary Organisation
- 9. Maternity Centre
- 10. Any other (Specify)

Table 5.19

Distribution of Households according to the Number of Health Facilities used by them

| City | No.of | Health | Facilit | ies | No | Total | Grand |
|-----------------|----------------|-------------|--------------|-----|---------------|-------|-------|
| | 1 | 2 | 3 | 4 | Res- ponse | | total |
| Calicut | 380 (100.0) | - | - | - | _ | 380 | 380 |
| Cochin % | 339 (94.2) | 20 (5.6) | 1(0.3) | - | - | 360 | 360 |
| Trivandrum % | 132 (51.0) | | 51 (19.7) | | 1 | 259 | 260 |
| Total % | 851 (85.2) | | 52 (5.2) | | 1 | 999 | 1000 |

Table 5.20 Households' Perception of adequacy of Services in the Government Hospital

| City | H.Hs. H.Hs. | No. of | | | | the Hou | seholds | No | Total | Total | Grand |
|-----------------|-----------------------|----------------------|-------|----------|-------------|---------|------------------|---------------|---------------|-------|-------|
| | using it regularly | satisfied with it | | | | | | Res- ponse | | | total |
| Calicut % | 380 | 349 | - | 2 (40.0) | 3 (60.0) | | - | 26 | 5 (100.0) | 26 | 31 |
| Cochin % | 289 | 182 | | | | 1 (4.0) | | 82 | 25 (100.0) | 82 | 107 |
| Trivandrum % | 157 | 94 | | | | | 10 (25.6) | | | 24 | 63 |
| Total | 826 | 625 | 3 (4. | | | | 10 .4) (14.5) | | 69 (100.0) | 132 | 201 |

Note:

- Timings overlaps with working hours
 Indifferent behaviour of doctor/health workers
- 3. Longo waiting
- 4. Very far
- 5. Any other

Table 5.21
Suggestions to improve Health Facilities

| City | Sı | nggestions | | Total |
|--------------|---------------|------------------------------|--------------|----------------|
| | | Timings should be changed | | |
| Calicut % | 22 (91.7) | 2 (8.3) | - , | 24 (100.0) |
| Cochin % | 173 (91.5) | 8 (4.2) | 8 (4.2) | 189 (100.0) |
| Trivandrum % | 30 (35.7) | 3 (3.6) | 51 (60.7) | 84 (100.0) |
| Total % | 225 (75.8) | 13 (4.4) | 59 (19.9) | 297 (100.0) |

Table 5.22
Household having Electricity connection

| City | No. of Hou | connection | g Electricity | Total |
|------------|---------------|------------|---------------|---------|
| | With Meter | | No connection | |
| Calicut | 69 | 15 | 296 | 380 |
| % | (18.2) | (3.9) | (77.9) | (100.0) |
| Cochin | 85 | 62 | 213 | 360 |
| % | (23.6) | (17.2) | (59.2) | (100.0) |
| Trivandrum | 106 | 9 | 145 | 260 |
| % | (40.8) | (3.5) | (55.8) | (100.0) |
| Total | 260 | 86 | 654 | 1000 |
| % | (26.0) | (8.6) | (65.4) | (100.0) |

 $\label{eq:table 5.23}$ Distribution of Households with Electricity according to average amount paid per month

(In Rs)

| City | <25 | 26-50 | 51-75 | 76-100 | 101-125 | 126-150 | 151-175 | 176-200 | 201+ | Not applilcable | Total | Grand total |
|-----------------|---------------|--------------|-------------|---------|---------|---------|---------|---------|------|--------------------|----------------|----------------|
| Calicut | 70 (83.3) | 13 (15.5) | - | 1(1.2) | - | - | - | - | - | 296 | 84 (100.0) | 380 |
| Cochin | 84 (56.8) | 53 (35.8) | 10 (6.8) | - | - | 1 (0.7) | ÷ | | - | 212 | 148 (100.0) | 360 |
| Trivandrum X | 97 (85.1) | 14 (12.3) | 3 (2.6) | - | • | - | - | - | - | 146 | 114 (100.0) | 260 |
| Total | 251 (72.5) | 80 (23.1) | 13 (3.8) | 1 (0.3) | - | 1 (0.3) | - | - | - | 654 | 346 (100.0) | 1000 |

CHAPTER VI

COMMUNITY PARTICIPATION PROFILE

Community's participation and self-help 6.1 the development programme happens to be a crucial variable for successful implementation. Many a programme goes awry on account of the lack of people's participation. Slum Improvement and upgradation Programme touches upon the cutting edge level of community and hence in order to be effective, it all the more requires to be based on participatory development approach so that the plans and programmes are in proper relationship with the community's needs and aspiration and are able to attract people's cooperation and involvement in implementation. With this end in view, an attempt was made in the household survey to comprehend extent of community's participation in financing improvement either directly or through associations and voluntary organisations. The extent of participation of the community in improvement programme is analysed in the following paragraphs.

Participation in Improvement of Dwelling Units

An attempt was made by the survey team to know if the households would like to contribute towards the improvement and upgradation of their dwelling units under the slum improvement programme. The slum households were therefore asked if they would like to contribute in the upgradation of their shelter in monetary or physical terms.

Monetary Contribution

- 6.3 It is evident from table 6.1 that a majority of slum households (about 70%) in the sample slums of the three cities taken together are not in a position to contribute in monetary terms. The largest proportion of such households (85.4%) is found in the slums of Cochin, followed by Calicut (61.7%) and Trivandrum (58.9%). The remaining 30% of the households in the sample slums of the three cities are, however, willing to contribute different amounts.
- 6.4 In Calicut, 144 slum households (out of 376 households answered this question), are willing to make monetary contribution. 38 households constituting about 10% of the total respondent households (376) are willing to pay up to Rs 50. Another 32 households are ready to pay up to Rs 51-100 and 20 households are ready to pay more than Rs 500. Seven households are ready to pay up to Rs 101-150, 16 up to Rs 151-200. households are in a position to pay Rs 201-250 and another five households from Rs 251-300. In Cochin, only 52 households are in a position to contribute money. Of them, 14 households are in a position to pay up to Rs 50. Another three households are willing to pay only Rs 51-100. Eleven households are ready to pay Rs 451-500, and 18 households more than Rs 500. Trivandrum sample slums, only 85 households (about 40%) are willing to contribute in monetary terms. 22 households can pay only upto Rs 50. However, 37 households are in a position to pay more than Rs 500. It must be noted that the monetary contribution is not on the monthly basis. It is the down payment

as a single shot monetary contribution towards shelter upgradation. Thus a substantial proportion of households in the three cities are not in a position to pay for shelter upgradation.

Manpower Contribution

- As compared to the monetary contribution, a very large section of the sampel households indicated their willingness to pay by way of working for their shelter upgradation. The number of hours for which the slum households will like to work is tabulated in table 6.2. The table shows that as many as 779 households in the three cities (about 80%) are willing to contribute their physical labour. A very large proportion of them (322 households) are willing to work for more than 20 hours a week. Amongst the three cities, the largest proportion of slum households who willing to contribute their labour are found in Calicut (about 85%). 74 households are willing to work from 1 to 5 hours a week. 91 households are willing to work for more than 20 hours a week. In Cochin, about 74% of the households are willing to contribute their physical labour. The largest number of 102 households are willing to work for more than 20 hours. However, as many as 98 households are not ready to contribute more than 5 hours a week. In Trivandrum slums, about 79% households are willing to contribute their physical labour. highest number of 130 households are in a position to work for more than 20 hours a week.
- 6.6 It should be thus obvious from table 6.2 that though, a very large section of slum households are willing to contribute

in the form of physical labour, the actual number of hours they are willing to work is quite on the lower side. 457 households in the three cities are willing to work up to only 20 hours a week which amounts to less than three hours a day on an average.

Community's Participation in Slum Upgradation

6.7 The households living in slums in the three cities were asked to indicate if they are willing to contriute towards the improvement and upgradation of their settlements by providing the basic minimum services and amenties. The response given by them is tabulated in tables 6.3 and 6.4

Monetary Contribution

Table 6.3 shows that out of a sample household of 1000 in the three cities, only 960 answered to the question relating to monetary contribution for upgradation of shelter. substantial proportion of them (about 85%) have showed their inability to give any monetary contribution, Out of 146 households who are willing to contribute only 44 of the are willing to pay more than Rs 200. In Calicut, as many as 90% of the slum households have expressed their inability to pay for service upgradation. The proportion of such households in Cochin and Trivandrum are about 88% and 70% respectively. Even the few who are in a position to contribute, the actual households amount to be contributed is very less. As many as 67 households in the three cities (out of 146) are willing to pay only up to Rs 50.

Manpower Contribution

- 6.9 As in the case of shelter upgradation, a very large section of the slum households in the three cities (about 80%) are found willing to contribute their physical labour in upgradation of their slum settlements (table 6.4). Of them, largest number of 223 households are willing to work for than 20 hours a week. But another large number of 199 slum households are not willing to work for more than five hours a week. Amongst the three cities, in Calicut, about 84% of households are willing to contribute their physical labour. 86 households are willing to work for only up to 5 hours a week. 67 households are ready to work from six to ten hours and 32 households are willing to work for eleven to fifteen hours. 108 households are willing to work between 16-20 hours a week and only 24 households are ready to work for more than 20 hours. Cochin, only three-forth of the households have agreed to work for upgradation of services. Of 270 such families, 94 households have said that they can work only up to five hours a week. In Trivandrum again, a very large number of families (83%) have been found willing to work for slum upgradation. 43% of the households are willing to work for more than 20 hours.
- 6.10 Thus barring the sample slums of Trivandrum, the number of households willing to work for more than 20 hours a week is small.

Participation in Upkeep and Maintenance

6.11 Upkeep and maintenance of upgraded services is a vital aspect in a programme of shleter upgradation for, the lack of maintenance results in deterioration and dereliction of services provided. Are the slum households willing to participate in the upkeep and maintenance of upgraded services in their settlements?

Monetary Contribution

Table 6.5 shows that in the sample slums of the three 6.12 cities taken together, as many as 81% of them are not willing to give any monetary contribution in the upkeep and maintenance of upgraded services. Of the remaining 140 households, more than half of them (74 families) are willing to pay up to Rs 50 Amongst the three cities, only in Trivandrum, annum. (out of 79 who are willing to give households contribution), are willing to pay up to Rs 50 per annum and another 13 households are willing to pay from Rs 51 to 100 In Calicut and Cochin, only 17 and 13 households are annum. willing to pay up to Rs 50 per annum. Thus a very large proportion of slum households in the sample slums of the three cities are not in a position to contribute any money for the upkeep and maintenance of services.

Manpower Contribution

6.13 It is interesting, however, to note that a majority of the slum households (91%) in the sample slums of the three cities are interested in contributing their physical labour towards the upkeep and maintenance of services (table 6.6). Amongst the

slums of the three cities, almost all the households (97.8%) in Calicut slums and 93% of households in Cochin slums are ready to give physical contribution while the corresponding proportion of households in Trivandrum slums is around 80%.

- It is interesting to note that 42.7% of households in Trivandrum and 33.9% in Cochin slums are ready to offer their services for more than 20 hours in a week while 33.3% of households in Calicut slums are willing to spare themselves for 16-20 hours in a week. The physical labour for 6-10 hours in a week is mentioned by about one-fifth of the households in the slums of each city.
- 6.15 It should thus be obvious from the preceding analysis that the slum dwellers of the three cities are more willing to give their physical contribution towards the upkeep and maintenance of upgraded services. In the sample slums of Trivandrum, however, a substantial number of households are willing to give monetary contribution for this.
- 6.16 In sum, a substantial proportion of the slum households in the cities of Calicut, Cochin and Trivandrum do not seem to be willing to contribute in monetary terms either for the upgradation of their shelter, settlement, services and amenities or for the upkeep and maintenance of the upgraded services in their settlements. However, a very large proportion of them are ready to contribute their labour for these. About 80% of the households in the three cities are willing to contribute their labour for the upgradation of their shelter and services. About

91% of the households are ready to do so for upkeep and maintenance of services to be upgraded. Even in Trivandrum, where the income levels are higher, a very large number of slums households have not showed their willingness to contribute their mite in terms of money for the aforesaid purposes. The spirit of self-help in improving the slum conditions is thus lacking to a very great extent. This could be perhaps to some extent due to the persistent assumption amongst the slum dwellers that whatever is to be provided by the public agencies have to be provided free. Provision of urban services to the weaker sections of the society without any system of cost recovery even in a rundimentary form over a very long period of time has perhaps reinforced the idea and attitude of getting the service free.

Suggestions for Ensuring Community's Participation in Maintenance of Service

omponent of slum upgradation programme, the sample slum households were persistently asked to give their suggestions for ensuring community's participation in it. However, only 211 households in the sample slums of the three cities came out with suggestions. Their suggestions are presented in table 6.7. In all, 116 (55%) households have suggested that the community's participation has to be ensured by involving the voluntary organisations. All the 116 such households belong to Calicut. Another 23 households have suggested to form associations of slum dwellers which could be involved in the upkeep and maintenance of services. Of them, 19 belong to Calicut and only four to

Trivandrum. Another 28 households think that the operation and maintenance of services could be ensured by making available adequate finance at the disposal of formal organisations of communities. Almost all such households hail from Calicut. the slum communities could not give definite responses to question of ensuring community's involvement in upkeep maintenance of slum upgradation. In Cochin, in particular, only two households have responded to this question. The reason for this seems to be the fact that no formal organisation of the slum communities have as yet emerged in the slums of this city to do social work and organise the slum communities. The Preliminary Report submitted earlier, has also revealed that barring the union activities, the formal organisations of slum trade communities have not yet emerged to do something for improvement and upgradation of slums.

Willingness to Move

6.18 As the improvement of slum inevitably involves relocation of some of the households, an attempt was made to elicit the opinion of the respondent households regarding their willingness to move from the present sites. The responses given by them are tabulated in table 6.8. It suggests that as many as 655 households constituting 65.5% of the total sample in the slums of the three cities are not willing to shift from their existing locations. The largest proportion of the total sample households are not willing to shift in Calicut (79.4%). The number of such families in Cochin and Trivandrum is 185 (51.4%) and 169 (65%) respectively.

On further probing about the reasons for not shifting, 6.19 more than half (53.3%) of the unwilling households in the sample slums of the three cities said that they are not willing to go to the new locations due to dislocation of their work. Cochin has the highest number of such households (60%) followed by Calicut (57.5%) and Trivandrum (53.3%). A little less than one-fourth (23.7%) of the households stated that the shifting to new locations will bring about disruption in the well established social network of which they are an important part. remaining 23% of the households gave varied reasons for their unwillingness to shift. These include dislocation of children's education, difficulties in adjusting to the new environment, disruption in the existing close location of dispensaries and hospitals, markets etc. A general apathy to go from the existing locations is reported by as many as 56 households constituting 8.5% of the total households who are not willing to move.

Willingness to pay for shifting

thier existing locations were asked to indicate the amount they will be able to pay towards the cost of land and the cost of construction on new locations. It is evident from table 6.9 that a very large proportion (58.20%) of the 345 households in the sample slums of the three cities who are ready to move from existing locations are in a position to afford up to Rs 1000 towards the cost of land. Amogst the three cities, in Cochin as many as 75.3% of the households who are willing to shift belong to this category. In Trivandrum and Calicut, the proportion of

such households is 66.7% and 16.5% respectively. It is interesting to note that despite the lowest level of income in Calicut slums, the largest proportion (40.5%) of the households have expressed their willingness to pay more than Rs 10000 towards the price of land. The proportion of such households in Cochin and Trivandrum is only 7.4% and 11.1% respectively.

The willingness of the households to pay for the cost 6.21 of construction on the new locations is presented in table 6.10. In the three cities taken together, a little less than two-third of the households reported to afford up to Rs 1000 towards the cost of construction. Only 27 households are found in a position to pay for more than Rs 10,000 for this. Amongst the three cities, as many as 82.7% of the households in Cochin are in a position to pay only up to Rs 1000. There are 54 such households (80.6%) in Trivandrum. Calicut presents a bit Here, out of 79 families who reported scenario. willingness to move to new locations, 39 (around 50%) are in a position to pay between Rs 2001 to Rs 5000. There are 11 families in Calicut who have expressed their willingness to pay between Rs 10001 to Rs 12000 and three families are willing to pay between Rs 14001 to 15000.

Table 6.1

Distribution of Households according to willingness to give monetary contribution towards the Improvement of their Shelter

| City | | | | Moneta | ary Cont | tributi | on (in R | s) | | | | | Total | Not | No | Grand |
|-------------------------|---------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|----------------|----------------------|---------------|-------|
| | NIL | 1- 50 | 51- 100 | 101- 150 | 151- 200 | 201- 250 | 251- 300 | 301- 350 | 351- 400 | 401- 450 | 451- 500 | 501+ | | as cert- ained | res- ponse | Total |
| Calicut | 232 (61.7) | 38 (10.1) | 32 (8.5) | 7 (1.9) | 16 (4.3) | 21 (5.6) | 5 (1.3) | - | 1 (0.3) | 1 (0.3) | 3 (0.8) | 20 (5.3) | 376 (100.0) | - | 4 | 380 |
| Cochin | 305 (85.4) | | 3(0.8) | - | 4 (1.1) | | 2 (2.6) | : | Ī | - | 11 (3.1) | 18 (5.0) | 357 (100.0) | | 3 | 360 |
| frivandru n K | | 22 (10.6) | | 4 (1.9) | 6 (2.9) | 2 (1.0) | - | - | - | - | 4 (1.9) | 37 (17.9) | 207 (100.0) | 36 | 17 | 260 |
| otal | 659 (70.1) | 74 (7.9) | | 11 (1.2) | 26 (2.8) | 23 (2.4) | 8 (0.9) | - | 1 (0.1) | 1 (0.1) | 18 (1.9) | 75 (8.0) | 940 (100.0) | 36 | 24 | 1000 |

Source: NIUA, Household Survey, 1990.

Table 6.2

Distribution of Households according to willingness to contribute physical labour towards Shelter Upgradation

| City | | | | | | ek} | Total | Not | No | Grand |
|-----------------|---------------|----|------------|-----|-----|---------------|----------------|------------------|---------------|-------|
| ~~~~ | | 1- | 6- 10 | 11- | 16- | | | ascer- tained | res- ponse | Total |
| Calicut % | | | | | | | 376 (100.0) | - | 4 | 380 |
| Cochin % | | | | | | | 360 (100.0) | - | - | 360 |
| Trivandrum % | | | | | | | 242 (100.0) | 4 | 14 | 260 |
| Potal | 199 (20.3) | | 101 (10.3) | | | 322 (33.0) | | 4 | 18 | 1000 |

Source: NIUA, Household Survey, 1990.

Table 6.3

Distribution of Households according to the willingness to give monetary contribution towards the upgradation of basic services and amenities

| City | | | | | Monetar | y Contri | bution (i | n Rs) | | | Total | Not | No | Grand Total |
|-----------------|---------------|-------------|------------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|----------------|------------------|---------------|----------------|
| | NIL | 1- 25 | 26- 50 | 51- 75 | 76- 100 | 101- 125 | 126- 150 | 151- 175 | 176- 200 | 201+ | | ascer- tained | res- ponse | 10141 |
| Calicut % | 339 (90.2) | 18 (4.8) | 6 (1.6) | - | | - 1 | - | - | - 1 | 13 (3.5) | 376 (100.0) | - | 4 | 380 |
| Cochin % | 316 (88.3) | 8 (2.2) | 5 (1.4) | - | 7 (2.0) | | - | - | 2 (0.6) | 20 (5.6) | 358 (100.0) | - | 2 | 360 |
| Trivandrum % | | 19 (8.4) | 11 (4.9) | - | 14 (6.2) | | 2 (0.9) | - | 10 (4.4) | 11 (4.9) | 226 (100.0) | 15 | 19 | 260 |
| Total | 814 (84.8) | 45 (4.6) | 22 (2.3) | - | 21 (2.2) | - | 2 (0.2) | - | 12 (1.3) | 44 (4.6) | 960 (100.0) | 15 | 25 | 1000 |

Source: NIUA, Household Survey, 1990

Table 6.4

Distribution of Households according to willingness to contribute Physical Labour towards the Upgradation of Basic Services

| City | Phys | ical Co | ntributio | n (hrs. | in a we | ek) | Total | Not | No | Grand |
|-----------------|---------------|---------------|---------------|-----------|---------------|---------------|----------------|------------------|---------------|-------|
| *********** | NIL | 1- 5 | 6- 10 | 11- 15 | | 21+ | | ascer- tained | res- ponse | Total |
| Calicut % | 59 (15.7) | | | | | 24 (6.4) | | - | 4 | 380 |
| Cochin X | 90 (25.0) | | 56 (15.6) | | 10 (2.8) | | 360 (100.0) | - | | 360 |
| Privandrum K | 44 (18.0) | 16 (6.6) | 46 (18.9) | 21 (8.6) | 12 (4.9) | 105 (43.0) | 244 (100.0) | 2 | 14 | 260 |
| Cotal | 193 (19.7) | 199 (20.3) | 169 (17.2) | | 130 (13.3) | 223 (22.8) | 980 (100.0) | 2 | 18 | 1000 |

Source : NIUA, Household Survey, 1990.

Table 6.5

Distribution of Households according to willingness to give Monetary contribution towards upkeep and maintenance of services

| City | | | | Monet | ary Con | tributi | on (in | Rs) | | | | | Total | Not ascer- | No res- | Not | Grand Total |
|-------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------------|---------------|------------|---------------|----------------|
| | NIL | 1- 50 | 51- 100 | 101- 150 | 151- 200 | 201- 250 | 251- 300 | 301- 350 | 351- 400 | 401- 450 | 451- 500 | 501+ | | tained | ponse | app- cable | 10141 |
| Calicut | 255 (92.7) | 17 (6.2) | - | 1 (0.4) | - | - | - | - | - | - | - | 2 (0.7) | 275 (100.0) | ÷ | 15 | 90 | 380 |
| Cochin % | 228 (84.8) | 13 (4.8) | 6 (2.2) | - | 2 (0.7) | - | 1 (0.4) | - | - | - | 10 (3.7) | 9 (3.3) | 269 (100.0) | - | 2 | 89 | 360 |
| Trivandrum | 121 (60.5) | | 13 (6.5) | 1 (0.5) | 5 (2.5) | 1 (0.5) | 1 (0.5) | 1 (0.5) | - | - | 4 (2.0) | 9 (4.5) | 200 (100.0) | 14 | 25 | 21 | 260 |
| Total % | 604 (81.2) | 74 (9.9) | 19 (2.6) | 2 (0.3) | 7 (0.9) | 1 (0.1) | 2 (0.3) | 1 (0.1) | - | - | 14 (1.9) | 20 (2.7) | 744 (100.0) | 14 | 42 | 200 | 1000 |

Source: NIUA, Household Survey, 1990

Table 6.6

Distribution of Households according to willingness to contribute Physical Labour in upkeep and maintenance of services

| City | | | | in a wee | k) | Total | Not | No | Not | Grand |
|-----------------|---------------|---------------|--------------|---------------|---------------|----------------|------------------|---------------|-----------------|-------|
| | | 6- | | 16- 20 | | | ascer- tained | res- ponse | appli- cable | Total |
| | | | | | | 276 (100.0) | - | 14 | 90 | 380 |
| Cochin % | | | | | 92 (33.9) | | - | | 89 | 360 |
| Trivandrum % | | | | | 91 (42.7) | | 1 | 25 | 21 | 260 |
| Total | 126 (16.6) | 159 (20.9) | 85 (11.2) | 111 (14.6) | 212 (27.9) | 760 (100.0) | 1 | 39 | 200 | 1000 |

Source: NIUA, Households Survey, 1990

Table 6.7

Distribution of Households according to Suggestions given for ensuring Community's Participation in maintenance of services

| City | Sug | gestions | | olving th | | ity | Total |
|-----------------|---------------|--------------|--------------|-------------|--------------|--------------|----------------|
| | | | 3 | 4 | 5 | 6 | |
| Calicut | | | | | | | 162 |
| Calicut % | (71.2) | (11.7) | (0.6) | - | (16.6) | - | (100.0) |
| Cochin | _ | _ | _ | _ | _ | 2 | 2 |
| % | - | - | - | - | | (100.0) | |
| Trivandrum % | - | 4 (8.7) | 15 (32.6) | 5 (10.9) | 1(2.2) | 21 (45.7) | 46 (100.0) |
| Total % | 116 (55.0) | 23 (10.9) | 16 (7.6) | 5 (2.4) | 28 (13.3) | 23 (10.9) | 211 (100.0) |
| Codes | | | | | | | |
| 1. Invol | ving the | Volunta | ry Organi | isation | | | |

- 2. Forming of association by slum dwellers
- 3. Imparting education to slum dwellers & increasing awareness
- 4. Employment opportunities
- 5. Availability of adequate finance
- 6. Any other

Source: NIUA, Household Survey, 1990.

Table 6.8

Distribution of Households who are not willing to move according to the reasons for not moving

| City | | | Re | easons for | not mo | ving | | | No Response | Total |
|-----------------|---------------|---------------|-------------|--------------|----------|---------|---------|--------------|-------------|----------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | |
| Calicut | 173 (57.5) | | | 13 (4.3) | | | - | 1(0.3) | - | 301 (100.0) |
| Cochin X | 111 (60.0) | | | 19 (10.3) | 6 (3.2) | | 1 (0.5) | 27 (14.6) | 2 | 185 (100.0) |
| Trivandrum % | 65 (38.5) | | | 24 (14.2) | | | 1(0.6) | 14 (8.3) | 3 | 169 (100.0) |
| Total % | 349 (53.3) | 155 (23.7) | 16 (2.4) | 56 (8.5) | 34 (5.2) | 1 (0.2) | 2 (0.3) | 42 (6.4) | 5 | 655 (100.0) |

Codes

- 1. Dislocation of work
- 2. Dislocation of community link
- 3. Dislocation of children's education
- 4. General apathy
- 5. Lack of interest in new environment
- 6. Distance of dispensary/hospital
- 7. Distance of market
- Any other (specify)

Source: NIUA, Household Survey, 1990

Table 6.9

Distribution of Households according to their willingness to pay for the cost of land

| City | <1000 | 1001- | 2001- | 3001- | 4001- | | | villing 7001- | to pay 8001- | 9001- | 10001- | 12001- | 13001- | 14001- | 15001+ | Not asc- erta- | re | |
|-----------------|--------------|--------------|---------|-----------|----------------|------------|---------|------------------|-----------------|-------|------------|--------|--------|-------------|---------|----------------------|----|----------------|
| | | 2000 | 3000 | 4000 | | | | | 9000 | 10000 | 12000 | 13000 | 14000 | 15000 | | ined | se | |
| Calicut % | 13 (16.5 | 6 (7.6 | 5 (6.3) | 1 (1.3 | 14) (17.7) | 4 (5.1) | 1 (1.3) | 3 (3.8) | - | - | 21 (26. | -6) - | - | 8 (10.1) | 3 (3.8) | - | - | 79 (100.0) |
| Cochin % | 122 (75.3 | 11) (6.8 | 2 (1.2) | 5 (3.1 | 6 (3.6) | 1(0.6) | : | 3 (1.9) | - | - | 8 (4. | 9) - | - | 3 (1.9) | 1 (0.6) | - | 13 | 162 (100.0) |
| Trivandrum % | 42 (66.7 | 4 (6.3 | 2 (3.2) | - | 7 (11.1) | 1 (1.6) | - | - | - | - | 2 (3. | 2) - | - | 1 (1.6) | 4 (6.3) | 14 | 14 | 63 (100.0) |
| Total | 177 (58.2 | 21 (6.9 | 9 (3.0 | 6 (2.0 | 27 (8.9) | 6 (2.0) | 1 (0.3) | 6 (2.0) | - | - | 31 (10. | 2) - | - | 12 (3.9) | 8 (2.6) | 14 | 27 | 304 (100.0) |

Source: NIUA, Household Survey, 1990.

Table 6.10

Distribution of Households according to their willingness to pay for the cost of Construction

| City Amount willing to pay (1000 1001- 2001- 3001- 4001- 5001- 6001- 7001- 8001- 9001- 10001- 12001- 13001- 14001- 15001+ 2000 3000 4000 5000 6000 7000 8000 9000 10000 12000 13000 14000 15000 Calicut 10 6 5 1 14 4 1 3 - 21 - 8 3 (16.5) (7.6) (6.3) (1.3) (17.7) (5.1) (1.3) (3.8) - (26.6) _ (10.1) (3.8) Cochin 122 11 2 5 6 1 - 3 - 8 - 3 1 (75.3) (6.8) (1.2) (3.1) (3.6) (0.6) - (1.9) - (4.9) - (1.9) (0.6) | | No Total |
|--|-------|--------------------|
| 2000 3000 4000 5000 6000 7000 8000 9000 10000 12000 13000 14000 15000 Calicut 10 6 5 1 14 4 1 3 - 21 - 8 3 (16.5) (7.6) (6.3) (1.3) (17.7) (5.1) (1.3) (3.8) - (26.6) (10.1) (3.8) Cochin 122 11 2 5 6 1 - 3 - 8 - 3 1 | | |
| 2 (16.5) (7.6) (6.3) (1.3) (17.7) (5.1) (1.3) (3.8) (26.6) (10.1) (3.8) Cochin 122 11 2 5 6 1 - 3 8 3 1 | erta- | res- pon- se |
| (16.5) (7.6) (6.3) (1.3) (17.7) (5.1) (1.3) (3.8) (26.6) (10.1) (3.8) Cochin 122 11 2 5 6 1 - 3 8 3 1 | - | - 79 |
| OUCHIN 122 II 8 V V I | - | - (100.0 |
| | - 1 | 13 162 |
| | - | (100.0 |
| Trivandrum 42 4 2 - 7 1 2 1 4 | 14 1 | 14 63 |
| x (66.7) (6.3) (3.2) - (11.1) (1.6) (3.2) (1.6) (6.3) | | (100.0 |
| Total 177 21 9 6 27 6 1 6 31 12 8 | 14 2 | 27 304 |
| χ (58.2) (6.9) (3.0) (2.0) (8.9) (2.0) (0.3) (2.0) (10.2) (3.9) (2.6) | | (100.0 |

Source: NIUA, Household Survey, 1990.

CHAPTER - VII

SUMMARY AND CONCLUSIONS

Household Profile

Religion:

Islam is the dominant religion amongst the households in the sample slums of the three cities taken together. More than three-fourth of slum dwellers in Calicut and a little less than half of them in Cochin belong to Islam. In Trivandrum, however, the Hindus are in large number (more than two-third). Whereas the slums in Calicut and Cochin have Hindus as the second largest group, in Trivandrum, it is the Christianity which is the second largest relgion.

Caste:

An overwhelming number (80.7%) of slum dwellers in the three cities belong to castes other than SC and ST. Only Trivandrum has the concentration of SC to the extent of 52.7%. In other cities, the number of SC and ST is only nominal.

<u>Household Size</u>:

The mean household size in the three cities is 5.8. Amongst the three cities, the slum households in Calicut has an average family size of 5.7. This in Cochin, is 6.1 and in Trivandrum 5.6. Trivandrum has a very large number of slum households (60%) with less than 5 members. This in Cochin is 50.89. In Cochin, 6.9% of the slum households have more than 10 family members. This in the case of Calicut and Trivandrum is 4.5% and 3.8% respectively.

7.4 Amongst the followers of various religions, the Christians have the least number of households with more than 5 family members. The Muslims have the largest family size among the followers of the three religions.

Sex:

7.5 The number of females per 1000 males in the slums of Cochin (1066) is not only higher than that of the slums of Calicut (986) and Trivandrum (984) but is also higher than that of the Kerala State as a whole (1032).

Age :

7.6 In all the three cities, about two-third of total population belong to economically active age-group (15 to 59 years). The proportion of population in the age-group of more than 59 years is around 6% in all the three cities, while the number of people upto 14 years of age is a little more than one-fourth of the total slum population in the three cities. The distribution of slum dwellers according to age-group and sex suggests that due to prevalence of larger number of females in the three cities, the females in the age-group 15-59 constitute 73.6% of the total female population as compared to 70.36% for the males.

Tenure Status:

7.7 The data reveal that a large proportion of the sample households (76.10%) in the three cities are owners. Around one-fifth (20.70%) are living in slums as tenants and the remaining 3.20% of the households did not offer any response. Of all the

three cities, Calicut has the highest number of owner households (91.84%), followed by Trivandrum (75.77%) and Cochin (59.72%). As regards tenants, Cochin with 40.28% of slum households as tenants has the highest number of tenant households living in slums.

- 7.8 The data on the nature of tenancy reveal the prevalence of multiple tenancy system though on a small scale. Of the total tenant households, hardly one-fourth (25.12%) happen to be the secondary tenants. In other words, they are living there in shelters, which have been let out again by the principal tenants.
- 7.9 In the slums of the three cities, about three-fourth (73.46%) are owners on the basis of first ownership. Around 15% households have purchased from the first purchaser. Amongst all the three cities, the sale and purchase of shelter in slums appear to be quite pronounced in Trivandrum and Cochin.
- 7.10 A larger number of households (45%) in the three cities have acquired ownership right due to awarding of tenurial right. The largest number of pattas are found to have been awarded in Calicut (62.89%), followed by Trivandrum (55.77%) and Cochin (17.50.%).

Migration:

7.11 Low level of urbanisation in the state of Kerala is reflected in low level of migration in the slums of the three cities. Trivandrum being the state capital, has the highest proportion (22.3%) of migrants in the slums. In Calicut the migrant slum households constitute 10.3% of the total households.

Cochin has the least number of migrants (8.4) despite its being a major port and also a trading centre.

- Analysis according to the places of migration suggests that only in Calicut, a little more than one-fourth (25.6%) of the migrant family have migrated from states other than Kerala. This is mainly due to a pronounced trade and commerce in spices in the city and also its being near to the state of Karnataka and to some extent even to part of Pondicherry and Tamil Nadu. Trivandrum has a maximum number of migrants (48.3%) from other districts of Kerala. In Cochin as well, 46.7% of the households have migrated from districts other than Cochin. Only Calicut has a maximum number of migrants (50%) from within the district of Calicut itself.
- 7.13 The distribution of migrants according to duration of stay suggests that a very high proportion of migrants in all the three cities migrated long ago. In Cochin, 83.3% of the migrants have been staying in the city for more than 15 years.

Reasons for Migration:

7.14 A large number of households have migrated to the three cities because of economic reasons (in search of employment and landlessness). Migration due to marriage constitutes the second very important reason. Breaking up of joint family, better business prospects etc. are other reasons for migration.

Intra-city Migration:

- 7.15 The analysis reveals virtual absence of inter-city migration as a large number of households in Cochin (54.4%) and Trivandrum (45.4%) are found to have migrated to the present slum cluster from within the city. In Calicut, only one-third of the slum households are found to have migrated from other localities of the city itself.
- 7.16 About 53.6% of the households in the three cities have shifted to the present slum cluster due to lack of land of their own. Another 11.4% have settled down due to break-up of joint family.

Education:

- 7.17 A very high level of literacy in the state of kerala is reflected in the slums of the three cities as well. The percentage of literates in the three cities taken together comes to 80.3%. Amongst the three cities, Cochin has the highest level of literacy (80.7%).
- 7.18 The analysis reveals that more than one-third of the slum population (34.9%) in the three cities have attained education upto primary school level. A little more than one-fifth (22.4%) are found to have received education upto 8th standard and 13.9% are matriculates.
- 7.19 It is interesting to note that the slums of Cochin and Trivandrum have 9 graduates each and in Calicut, the number of gratuates is 3. The sample slums in Calicut have even the post-graduates amongst the slum dwellers.

7.20 Though the level of literacy amongst the slum dwellers is very high, the number of children actually going to schools constitutes a small proportion (42%) of the total number of children in the school going age groups (5 to 14 years). Barring Trivandrum, where more than 72% of children are going to school in this age group, in Calicut and Cochin only about one-third of the children are going to school.

Shelter Profile

Area Occupied:

7.21 In the three cities taken together, more than 50% of the households are occupying less than 25 sq mts of land. Barring the slums in Trivandrum, a very large number of dwelling units in Calicut and Cochin are small in size. In Calicut, as much as 94% of the households are living in less than 25 sq mtrs of land area as compared to about 41% in Cochin. In Trivandrum, about 50% of the households occupy more than 152 sq msts of land.

Structural Conditions:

7.22 In Trivandrum, only 3% of dwelling units are pucca as against 17% in Calicut and Cochin. The proportion of semi-pucca structures in Calicut, Cochin, and Trivandrum is 39.5%, 36.7% and 58.8% respectively. Trivandrum has about 46% of structures as Katcha. This in Cochin and Calicut is 38% and 43% respectively. The extent of area occupied and the type of structures is found related with each other. In the three cities taken together, the proportion of semi-pucca structures is increasing along with the increase in the area occupied by the dwelling units. Larger the

land area occupied by the dwelling units, better is the type of structures.

Type of Structures by Ownership:

7.23 It is generally hypothesised that the pattern of ownership determines the type of structure. A household is supposed to bring about improvement in the dwelling units if the ownership right vests with it. The data collected from the sample slums of the three cities, however, do not show any relationship between the ownership of land and the type of structures.

Use of Dwelling Units:

7.24 The dwelling units in the slums are substantially used for residential purposes. A little more than 94% of the dwellings units in the slums of the three cities are used for residential purposes. Non-residential use seems to be in vogue only in the slums of Trivandrum where 12.7% of the dwelling units are used for residential-cum-commercial purposes.

<u>Shelter Improvement</u>:

Around one-third of the sample households in the three cities have brought about improvement in their dwelling units. A maximum number of improvement is seen in the slums of Trivandrum (63%). In Cochin, a little over one-third of the households have improved their dwelling units. Only in Calicut, the improvement process is found slow as only 14% of the slum households have improved their dwelling units.

About 57% of the total improved dwelling units in the three cities were improved in the last five years. In Calicut, about 47% of the improvement were carried on in the last five years. The percentage of such houses in Cochin is 51.2 and in Trivandrum even higher (65%). Thus, the slum dwellers are constantly trying to bring about improvement in their structures. This explains the prevalence of a large number of pucca and semipucca buildings. This is corroborated also by the fact that the improvements have been brought to a very large extent in the katcha and semi-pucca structures. As much as 67.2% of the katcha and 56.5% of semi-pucca structures have been improved upon in the three cities in the last four years.

Nature of Improvement:

- 3.27 Broadly three types of improvements have been brought about in the dwelling units. Improvement of either the roof or wall or floor forms the first type of modification which has been brought about in the largest proportion (38.5%) of improved houses in the three cities. Another 26.6% of the improved dwelling units have been reconstructed from katcha to semi-pucca or from semi-pucca to pucca. In another about 27% of the improved properties, improvement has been confined to repairs involving rethatching, white wash and other minor maintenances.
- 7.28 The analysis of improvement brought about and the income levels of such households does not reveal any relationship between the two. Improvement has been brought about in all the income groups.

Funding of Improvement:

7.29 Self-help in shelter improvement happens to be a dominant feature in the three cities together. About three-fourth of the households who improved their shelter have financed it themselves. About 12% improvements have been finached with government assistance and another 12% by raising funds from friends and relatives.

Economic Profile

- Out of the total population of 5827 in the sample slums of the three cities, 1699 are workers which suggests a participation rate of 29.16. Thus, the participation rate in the sample slums is not only higher than that of all the urban centres (24.86) of the state but is even higher than the participation rates obtaining in the cities of Calicut, Cochin and Trivandrum.
- maids and related housekeeping service workers etc. All the three cities being the coastal towns, the second largest group of workers are the fishermen who constitute about 14.% of the labour force. Other types of occupational groups are sale workers, production and related workers, skilled workers, clerical, professional and technical workers. Male workers are dominant (82%) amongst the workers in the slums of the three cities. Female workers constitute only 17% of the total working force. Child labour is negligible as there are only 8 children who are working in the slums of the three cities.

Earners by Religion:

7.32 Even though Muslims constitute the largest proportion of total earners (43.8%), the white collar jobs are dominated by Hindus. They are dominating even in skilled jobs. Muslims are dominating in fisheries and unskilled jobs. Christians and Muslims together constitute about 94% of the total workers engaged in fisheries. Christians are alo conspicous in number in business and sale and production and related jobs.

Monthly Income:

7.33 Income distribution in the sample slums of the three cities is highly skewed. The most skewed distribution of income is found in Calicut where 79% of the households have a monthly income of less than Rs 600. Another 17% have an income of Rs. 600 to 1200 per month and only 4% have more than Rs 2000 of monthly income. In Cochin, 48.17% of the households have a monthly income of less than Rs 600. Another 36% have an income of Rs. 601 to 1200 and 11.32% have an income of 1201 to 2000. In Trivandrum one-third of sample households have an income of less than Rs 600 per month. Another 35.6% belong to the monthly income group of Rs 601-1200 and 16% to Rs 1201 to 2000. 15% of the households in the sample slums have a monthly income of more Four-fifth of the total slums households in than Rs 2000. Calicut, 48.17% in Cochin and 32.8% in Trivandrum are living below the poverty line.

Household Income and Family Size:

7.34 The proportion of households with large family is found increasing along with the household income. In the three cities taken together, the percentage of families having more than 7 members is increasing along with the increase in income. This of increases from 9.5% in the income group of Rs 201 to 400 to 46% in the income range of Rs 1801 to 2000 and then marginally declines to 41.5% for the income range of more than Rs 2000.

Dependency Ratio :

7.35 The dependency ratio in the slums of the three cities together is 2.43 which suggests that each worker has to support about 2.43 members. Only in Trivandrum, the dependency ratio is less (1.87) than the average for the three cities.

Family Income and Caste :

7.36 The proportion of earners belonging to SC and ST precisely follows the proportion of SC and ST in the total number of households. However, except in the slums of Trivandrum, the levels of earnings of SC and ST in Calicut and Cochin is low. In Calicut, SC earn upto Rs 800 per month only. This in Cochin is upto Rs 1400 per month. Only in Trivandrum, 71% of the SC families have monthly earnings of more than Rs 2000. The ST in Calicut have monthly earnings of upto Rs 1000 and upto Rs 1200 in Cochin. In Trivandrum, ST are found distributed in all the income ranges except in the income range of Rs 1400-2000.

Monthly Expenditure by Income Group:

7.37 Quite a sizeable number of households are incurring expenditure which is more than their income. In all the sample slums of the three cities, there are 221 such households. Inadequate income of these families perhaps is a compelling factor to either incure debts or adhere to dissavings for meeting the expenditure needs. Roughly, about one-third of the total households in the various income groups are spending upto 50% of their income.

Expenditure on Specific Items:

7.38 More than three-fifth of sample households in the slums of the three cities are spending only upto Rs 300 per month on food. In fact, as many as 41% of the households are spending only upto Rs 200 per month on food. Only a little over one-fifth of the households are spending more than Rs 500 per month on 95.6% of the households are spending upto Rs 100 on shelter per month. Clothing accounts for less than Rs 100 per month for about 83% of the slum households. Services like water, electricity, transport, education and health also accounts for less than Rs 100 per month for about 59% of the slum households. The analysis of the actual proportion of expenditure spent on various items of expenditure suggests that a lion's share total expenditure incurred goes to food. It varies from 61% of the total expenditure for the households with a monthly income of Rs 100 to 58% for those having a monthly income of more than Rs In between, only in the monthly income group of Rs 601-800, Rs 1001-1400 and Rs 1601-1800, the proportion of expenditure

is less than 58%. Thus, on an average, about 59% of the total expenditure incurred by all the households is spent on food. Shelter accounts for only about 6% of the total expenditure of all the income groups. Clothing accounts for about 9% of the total expenditure of all the households. Services account for more than one-fifth (21.8%) of the total expenditure of all the income groups.

Monthly Savings:

The propensity to save is very low in the sample slums. In Calicut, not a single household reported to save on the monthly basis. In Cochin, only 36 households (out of 353) reported to be in a position to save. As many as 32 of them are able to save only upto Rs 50 per month. In Trivandrum, the propensity to save does not appear to be any better. As many as 90% of the total households are not in a position to save. Low propensity to save is also reflected in low total accumulated savings. In Cochin, out of 346 reporting households, only 17 have accumulated savings. Of them, 4 households have an accumulated savings of more than Rs 501. In Trivandrum which has the highest level of income, only 22 (out of 250) are found to have accumulated savings. Only 8 of them have an accumulated saving of more than Rs 501.

Household Debt

7.40 About 95% (932) of the sample households have resorted to borrowing. Of them, 35.20% have borrowed on the regular basis and 64.80% have to borrow only occassionally. The largest number

of borrowers belong to the income group of Rs 201-400. After that the number of regular borrowers is found to be tapering off along with increase in monthly income. As many as 89% of the households are compelled to borrow to meet the household expenditure needs. Other reasons for borrwing include, illness in the family and running of small scale economic activity. More than three-fourth of the households borrow from money lenders and friends and relatives.

Service Procile

Water Supply

- 7.41 The household survey reveals that the slum dwellers are depending on a number of sources for water supply, viz, water taps, hand pumps, well, tubewells, rivers and ponds. Tapped water supply is found to be used by the slum dwellers extensively for drinking purposes. Even for other purposes like bathing and washing, the tapped water supply is found to be a very popular source in the slums of the three cities.
- The frequency distribution of sample households in the three cities according to private and community sources reveals that a minuscule proportion (5.3%) of the total sample households are found drawing water from private sources. An overwhelming proportion (91.6%) of the sample households are drawing water from community sources, while only 3% are drawing water from both sources.

Paying for Water:

7.43 In the sample slums of the three cities, only 53 households are using water from private sources. Out of such 53 families, 5 did not offer any response regarding the payment for water used. Of the remaining 48 households 34 are making payment for water used, and the remaining 14 households do not pay any thing for it. Barring only three households in Calicut who are paying more than Rs 20 per month, others are paying only upto Rs.20 per month in all sample slums of the three cities. In Cochin, 12 households are paying only upto Rs 11 per month. In Trivandrum, two families pay even less than Rs 2 per month.

Community Water Sources:

- 7.44 The slum households are in a very happy situation so far as the distance of community source of water is concerned. In the sample slums of all the three cities taken together, a little less than three-fourth (72.2%) of the households are within a distance of less than 50 feet. However, the situation does not seem to be that happy in Trivandrum sample where the proportion of such households is less (67.9%) than the average of the three cities.
- 7.45 A significant proportion (37.3%) of the respondents in the slums of the three cities reported that they have to wait for an hour and even more at public stand posts. The problem seems to be more acute especially in Cochin where 58% of the households drawing water from community source reported to spend more than an hour before their turn comes for fetching of water. In

Cochin, one-fifth (21.8%) of the households have to wait for less than half-an-hour. In Trivandrum, the proportion of such families is 83.8% whereas in Calicut, it is about 2.6%. This suggests that in Trivandrum, the household-public stand post ratio is better than that of Calicut and Cochin.

Adequacy of Water Supply:

7.46 A little less than half of the households (48%) said that water supply is adequate. The remaining 52% of them pointed out a number of reasons for inadequate water supply. About one-third of households (33%) in the three cities felt that the water problem is due to short duration of water supply. In Calicut, more than a half (54.7%) of the households attributed the inadequacy of water supply to short duration. Long queues appear to be another important reason in Cochin where about one-fourth of the households attributed the inadequacy of water supply to this reason. This does not appear to be a reason in Trivandrum due to a better household and public stand post ratio.

Willingness to have Private Connection:

More than two-third (68.2%) of the households (who are using community sources of Water) revealed their preference to go for private connection. In Trivandrum, about fourth-fifth of the households are keen to have private connection. In Cochin, only 65.2% of such households want to have it. In Calicut, a still lower proportion (63%) of the households desires to have private connection.

7.48 In sum, the analysis of water supply suggests not a happy situation as a very large proportion of households in the slums are found depending on community sources where again a large number of them have to wait for long period of time for fetching water. Moreover, more than half of the households in the slums of the three cities do not get adequate water.

Sanitation

- 7.49 Amongst the sample slums of the three cities, only a little over one-third (37.4%) of the total sample households have private latrines. About one-fourth of the total sample households (25.8%) are using community latrines. Nearly, one-third of them reported using open space and remaining about 4% said that they are using some other means.
- Amongst the three cities, the largest number of slum dwellers are found to have private latrines in Trivandrum (57.7%). Calicut slums has the smallest number of households (22%) who have private latrines. Perhaps this explains the defectation on open space in Calicut by the largest number of households (61.6%) amongst the three cities. Community latrines are used by the largest number of families in Cochin (38.3%).
- 7.51 In the sample slums of the three cities, about 91% of the households have the community latrines within a distance of less than 100 feet. Even amongst the cities individually, the community latrines are located very much near to their dwelling units. Of the 258 households (who are using community latrines), 233 households (90.31%) use community latrines regularly. The

remaining 25 households in the slums of the three cities said that they are unable to use them due to over crowdedness and lack of water.

Reasons for not having Private Latrines:

7.52 The largest proportion of households (72%) in the sample slums of the three cities do not have private latrines due to its being "expensive". In Calicut slums, the expensiveness of private latrines has been attributed to by the largest number of households amongst the three slums.

Affordability to have Latrine:

- 7.53 In the slums of the three cities together, 529 households out of 607 (87%) can afford to pay upto Rs 200 in lump sum. A closer look at this reveals that the affordability to pay in lump sum seems to be very low in all the three cities.
- As regards the affordability to pay in monthly instalments, the data show a fairly good level of affordability to instal private latrine. In the slums of the three cities together, as many as 97% of the households not having private latrines are ready to pay up to Rs 50 per month. Interestingly in Calicut, despite the lowest income level, all the 294 households expressed their readiness to pay up to Rs 50 per month.

Bath Room:

7.55 About half of the households in the sample slums of the three cities have private bathroom. Of the other half of the households, 46% take bath just in the back of their houses or

make-shift bathing places. Nearly 16% of the households take their bath at the public stand posts while 9.5% use the community bathroom. Only 6% of them share bathroom jointly.

7.56 Out of 95 slum households of the two cities (Calicut and Cochin) 85.3% use community bathrooms regularly. Most of the remaining households did not use them regularly because the community latrines remain over crowded and dirty.

Garbage Disposal:

7.57 In the sample slums of the three cities, more than half of the households just throw the garbage outside their houses, slightly less than one-fourth (23.8%) throw it on the streets and 10% take recorse to other modes. Less than 10% of the households use municipal rubbish bin. Which have been provided in a few slums only.

Health:

- 7.58 Barring Trivandrum slums, a larger number of slum dwellers in Calicut and Cochin are dependent upon government hospital due to their poor economic condition. Around a half of the households in Trivandrum slums use more than one health facility. It may be attributed to the high affordability of Trivandrum slum dwellers.
- Regarding the adequacy of services in the government hospitals, around three-fourth of the slum households (75.67%) in the three cities are found satisfied with the services of government hospitals. About 40% of the respondents, who respondend, complained about the indifferent behaviour of

doctors. Nearly 23% of the households referred to the long waiting time in the government hospitals. Around 17% of the households mentioned that the government hospitals were very far from their dwelling units. The remaining households gave other reasons for their dissatisfaction.

Suggestions to Improve Health Facilities:

7.60 Three-fourth of households (who offered suggestions) suggested to create more health facilities. The other suggestion offered was to change the timings of hospitals as the present timings clash with their working hours. Some hospitals in the sample slums offered a variety of other suggestions.

Electricity

- 7.61 A little over one-third (34.6%) of the households in the three cities have electricity. Amongst the three cities, the slums in Calicut have the lowest proportion (22%) of households with electricity. This proportion in Trivandrum is the highest (44.2%) amongst the three cities.
- Slum respondents, who are having electricity with meter, were asked about the average electricity charges paid by them in a month. A majority of the respondents in the three cities are paying less than Rs 25 per month as electricity charges. Less than one-fourth of the respondents (23.1%) are paying in the range of Rs 25-50. Very few respondents are paying in the range of Rs.51-75, Rs 76-100 and Rs 126-150.

Community Participation Profile

Effectuation of the objectives of slum improvement and upgradation programme calls for adopting a participatory approach. An attempt was therefore made during the household survey to know the extent of Community's Participation in financing of improvement of their own dwelling units, upgradation of services in their slum settlements and upkeep and maintenance of upgraded services. The responses given by the sample houses in the cities of Calicut, Cochin and Trivandrum suggest that a very large segment of slum dwellers do not seem to be willing to contribute in monetary terms. About 80% of the households in the three cities are willing to contribute only their labout for the upgradation of their shelter and services. About 91% of the households are ready to do so for the upkeep and maintenance of services to be upgraded. Even in Trivandrum, where the incomes are higher, a very large number of slum households have not showed their willingness to contribute their mite in terms of money for the aforesaid purpose. The spirit of self-help in improving the slum conditions is thus lacking to a very great extent.

Suggestions for Community Participation:

7.64 Operations and maintenance of services being a vital component of slum upgradation programme, the sample households were persistently asked to give suggestions for ensuring community's participation. However, only 211 households in the sample slums of the three cities came out with suggestions. About 55% of them (116 households) suggested to involve the

voluntary organisations. Another 23 households have suggested to form associations of slum dwellers which could be involved in the upkeep and maintenance of services. Another 28 households think that the upkeep and maintenance of services could be ensured by making available adequate finance at the disposal of formal organisations of slum community. It is worth noting that only two respondents in Cochin answered to this question. The reason for this seems to be the fact that no formal organisation of slum communities have as yet emerged in the slums of this city to do social work and organise the slum communities.

Willingness to Move

The improvement programme will involve dislocation of some of the households. The respondents were therefore asked if they were willing to move from their existing locations. As many as 655 slum households (out of 1000) in the three cities are not willing to shift from their present locations. The largest proportion of the total sample households (79.2%) who are not willing to shift, belong to Calicut, the number of such families Cochin and Trivandrum is 185 (51.41%) and 169 (65%)respectively. More than half (53.3%) of the unwilling households in the three cities did not want to shift due to the dislocation it will bring about in their Work. Cochin has the highest number of such households (60%) followed by Calicut (57.5%) Trivandrum (53.3%). Another a little less than one-fourth (23.7%) of the households do not want to shift as it will disrupt the otherwise well established social network. The remaining 23% of the households gave varied reasons like dislocation of children's education, lack of interest in view environment, disruption in the existing nearness to dispensaries and hospitals, markets etc.

Willingness to Pay for Shifting

of the small sections of slum households who are willing to shift to the new locations, as many as 75.3% of them in Cochin are willing to pay up to Rs 1000 towards the cost of land. In Trivandrum and Calicut the proportion of such households is 66.7% and 16.5% respectively. It is interesting to note that despite the lowest level of income in Calicut slums, the largest proportion (40.5%) of the households have expressed their willingness to pay more than Rs 10,000 towards the price of land. The proportion of such households in Cochin and Trivandrum is only 7.4% and 11.1% respectively.

7.67 As regards the willingness to pay for the cost of construction, 82.7% of the households in Cochin who are willings to shift are in a position to pay only up to Rs 1000. There are 57 such households in Trivandrum. In Calicut, out of 79 families who reported their willingess to move to new locations, 39 are in a position to pay from Rs 2001 to Rs 5000. There are 11 families in Calicut slums who have expressed their willingness to pay between Rs 10001 to Rs 12000 and three families are willing to pay from Rs 14001 to Rs 15000.

Conclusions

The important findings of the household survey has been highlighted in the preceding paragraphs. What are the main conclusions of this survey? Are the slum dwellers poor in an economic sense? Do they have financial cushions in the shape of savings? Are they really deprived of the basic civic services and amenities? If so, what is the extent of deprivation? they willing to contribute towards the upgradation of their shelther and services? If so what is the extent of their contribution and in which form? What is their preception of dislocation involved in slum relocation? How crucial is the question of dislocation? These are some of the critical questions to be answered to have a flavour of the socio-economic condition of slum dwellers as also for policy intervention. Therefore even at the cost of repeatation it will be worth while to have a look on these aspects of the socio-economic life of the slum dwellers.

Economic condition:

The data on cash earnings of the slum households in the three cities have revealed that a substantial proportion of them are poor in economic sense. In Calicut, for example, about four-fifth of the total slum households are living below the national poverty line as compared to 30% for the state of Kerala. In Cochin, about 48.17% of the households are poor while in Trivandrum only about a third of the slum households are below the poverty line. They do not seem to have a financial cushion in the shape of savings. In Calicut not a single slum household

is able to save nor any of the slum households has accumulated savings. In Cochin, only 36 households (out of 353 responding households) are in a postion to save and only 17 households reported to have some accumulated savings. In Trivanrdrum, which has the highest income levle amongst the slum households of the three cities, only 10% of the sample households are in a position to save.

Deprivation of Services

A very large number of slum households are deprived of services. Around 95% of the slum households in the three cities are depending on the community water supply system. In Calicut 54% of the household are not satisfied with the adequacy of water supply. In Cochin and Trivandrum, however, only 21% and 16% of the households are dissatisfied with water supply. About 78% of the households in Calicut are deprived of private latrine. In the slums of Cochin and Trivandrum, the number of such household is about 61% and 42%. Private bath room is available only with 59% of the households in Calicut and 56.4% in Cochin. In Trivandrum, 73% of the households do not have a bath room of their own.

Self-Help

The findings of the survey has revealed that most of the slum households are not willing to contribute in monetary terms for the upgradation of shelter and services and the upkeep and maintenance of upgraded services. However, a majority of the households are willing to contribute their mite in terms of their physical labour.

Perception about Dislocation

As much as two-third of the slum households in the three cities are not willing to shift from their existing locations. The disruption in work opportunities and the work- home-relation ship involved in slum relocation is looming large in the minds of slum households. More than 53% of the households who are not willing to move from existing locations, indicated dislocation of their work as the main reason. Other reasons given include dislocation of children's education, difficulties in adjusting to the new environment, disruption in the exising close locations of dispensaries and hospitals, markets etc.