



GOVERNMENT OF KERALA

Report on NSS Socio Economic Survey 76th round

JULY 2018 - DECEMBER 2018



Drinking water , Sanitation , Hygiene & Housing condition in Kerala

N.S.S Division
Department of Economics & Statistics



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PREFACE

The National Statistical Office (NSO), Ministry of Statistics and Programme Implementation, Government of India conducts nationwide socio economic surveys covering various subjects on a regular basis. The State Governments were invited to participate with matching samples so as to increase the number of samples to enable the preparation of estimates at the sub-state level which was not possible with the 'Central Sample' alone. Thus Kerala is also participating in the National Sample Surveys from the very beginning with matching samples by adopting the same methodology of NSO.

Housing is one of the basic needs of human being both from social as well as economic point of view. Along with the requirement of shelter, availability and access to drinking water, sanitation etc are important determinants of overall quality of life of the people. Hence, the data on housing is considered as one of the key indicators of socio – economic development. Statistics on present housing condition are important factors in establishing housing policy and formation of housing programs. Economics & Statistics Department collected information about households and characteristics including amenities available, conditions of the dwelling units, micro-environmental elements surrounding the dwelling units, cost of construction undertaken by the households etc through 76th (July 2018-December 2018) round survey.

The technical support including designing of survey schedule, Methodology etc. provided by NSO, Government of India is highly acknowledged. The work done by the supervisors and field staff who worked tirelessly to make the survey a success is largely admired, the report writers and all other staff in the Directorate who have contributed in diverse ways for the success of the survey and the subsequent preparation of the report are duly acknowledged. I hope that this report will be useful to planners, policy makers, academicians and researchers. Suggestions to improve the content of the report are highly appreciated.

Place: Thiruvananthapuram
Date: 26/07/2022



SAJEEVU. P.P
Director

HIGHLIGHTS

The report is based on ‘Drinking Water, Sanitation, Hygiene and Housing Condition’ survey of NSS 76th round conducted during July - December 2018 in Kerala. For the state sample, the survey was spread over 284 first stage units (142 in rural areas and 142 in urban areas) covering 3355 households (1652 in rural areas and 1703 in urban areas). Some of the key findings of the survey are given below.

1. The average household size in rural and urban Kerala was 3.9 and 3.8 respectively.

[Statement 1]

2. In Kerala the major source of drinking water of the household was unprotected well. About 45.5 percent of the households in the rural areas and 48 percent of the households in the urban areas used unprotected well as the principal source of drinking water.

[Statement 2]

3. About 83.8 percent of the households in the rural areas and about 81.3 percent of the households in the urban areas had exclusive access to principal source of drinking water in Kerala.

[Statement 3]

4. About 79.7 percent of the households in the rural areas and about 88.4 percent of the households in the urban areas had sufficient drinking water throughout the year from the principal source in Kerala.

[Statement 4]

5. About 83.8 percent of the households in the rural areas and 81.3 percent of the households in the urban areas have exclusive access to principal source of drinking water located in the household premises.

[Statement 5]

6. About 88.7 percent of the households in the rural areas and about 89.6 percent of the households in the urban areas used ‘improved source of drinking water’ located in the household premises.

[Statement 6]

7. In Kerala about 85 percent of the households in the rural areas and 85.1 percent of the households in the urban areas used ‘boiling’ as method of treatment of drinking water.

[Statement 7]

8. In Kerala about 97.8 percent of the households in the rural areas and about 94.2 percent of the households in the urban areas had access to bathroom for exclusive use of the households.

[Statement 9]

9. In Kerala among the households which had access to bathroom, about 59.3 percent in the rural areas and about 72.4 percent in the urban areas used bathroom attached to the dwelling unit. About 40.4 percent in the rural areas and about 27.6 percent in the urban areas used bathroom detached to the dwelling unit but within the household premises

[Statement 10]

10. About 99.8 percent of the households in the rural areas and about 99.9 percent of the households in the urban areas had access to latrine.

[Statement 11]

11. The major type of latrine used by the households was *flush/pour-flush to single pit* in both rural and urban areas. About 78.8 percent of the households in rural areas and 65.7 percent of the households in urban areas used *flush/pour-flush to single pit* type of latrine.

[Statement 12]

12. In Kerala about 99.8 percent of the households used improved latrine.

[Statement 13]

13. In Kerala among the households which had access to latrine, about 99.1 percent of the males and 99.2 percent of the females in the rural areas used latrine regularly while about 99.2 percent of the males and 99.3 percent of the females in the urban areas used latrine regularly.

[Statement 14]

14. In Kerala among the households which had access to latrine, about 99.1 percent of the males and 99.2 percent of the females in the rural areas regularly used improved latrine while about 99.1 percent of both males and females in the urban areas regularly used improved latrine.

[Statement 14]

15. In Kerala among the households which had access to latrine, about 98.2 percent of both the males and females in the rural areas regularly used improved latrine which was for exclusive use of the household while the corresponding figure was about 98.8 percent for males and 98.5 percent for females in the urban areas.

[Statement 14]

16. In Kerala among the households used latrine, about 99.8 percent of the households in the rural areas and about 99.9 percent of the households in the urban areas reported that water was available in or around the latrine used.

[Statement 16]

17. About 96.8 percent of the households in the rural areas and about 96.1 percent of the households in the urban areas had bathroom and latrine both within household premises.

[Statement 16]

18. About 94.4 percent of the households in the rural areas and about 85.5 percent of the households in the urban areas had own dwelling unit. In total 90 percent of the households had own dwelling unit in Kerala.

[Statement 18]

19. Among the households living in houses, about 98.3 percent of the households in the rural areas and about 98.6 percent of the households in the urban areas used the house for residential purpose only.

[Statement 19]

20. Among the households living in houses, about 99 percent of the households in the rural areas and about 93.7 percent of the households in the urban areas had independent house.

[Statement 20]

21. Among the households living in houses, about 89.1 percent of the households in the rural areas and about 90.2 percent of the households in the urban areas had the house of pucca structure.

[Statement 20]

22. Among the households living in houses, average floor area of the dwelling unit was about 85.15 sq. mtr. in the rural areas and about 93.89 sq. mtr. in the urban areas.

[Statement 22]

23. Among the households living in houses, about 63.9 percent of the households in the rural areas disposed of household garbage in household's individual dumping spot. In the urban areas, about 46.9 percent of the households disposed of household garbage in household's individual dumping spot.

[Statement 24]

24. Among the households living in houses, about 92.9 percent of the households in the rural areas and 79.2 percent in the urban areas had no arrangement for collection of household garbage. In the State, the panchayat/municipality/corporation made arrangement for collection of household garbage for about 4.4 percent of the households in rural areas and 14.1 percent in urban areas.

[Statement 24]

25. About 93.2 percent of the households in rural areas and 93 percent of the households in urban areas faced problem of flies/mosquitoes.

[Statement 25]

26. Among the households living in houses, about 99.3 percent of the households in the rural areas and about 99.7 percent of the households in the urban areas had electricity for domestic use.

Statement 26]

27. Among the households living in houses, about 62.3 percent of the households in the rural areas and about 81.1 percent of the households in the urban areas had drainage system in the house for disposal of waste water/liquid waste.

[Statement 26]

28. Among the households living in houses, about 92.9 percent of the households in the rural areas and about 95.6 percent of the households in the urban areas had the house with direct opening to approach road/lane/constructed path.

[Statement 26]

Abbreviations

List of Abbreviations used in the Report

Abbreviation	Description
DES	Department of Economics and Statistics
NSSO	National Sample Survey Office
NSS	National Sample Survey
FSU	First Stage Unit
UFS	Urban Frame Survey
MPCE	Monthly Per Capita Consumer Expenditure
NIC	National Industrial Classification
TVM	Thiruvananthapuram
KLM	Kollam
PTA	Pathanamthitta
ALP	Alappuzha
KTM	Kottayam
IDK	Idukki
EKM	Ernakulam
TSR	Thrissur
PKD	Palakkad
MLP	Malappuram
KKD	Kozhikkode
WND	Wayanad
KNR	Kannur
KSD	Kasaragod

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Chapter One

Introduction

Introduction

1.1 Background

1.1.1 The National Statistical Office (NSO), Ministry of Statistics and Programme Implementation (MOSPI), Government of India, since its inception in 1950 has been conducting nation-wide large scale sample surveys, employing scientific sampling methods, to collect data on diverse economic aspects. In its 76th round survey, NSO carried out a survey on ‘Drinking Water, Sanitation, Hygiene and Housing Condition’ during July - December 2018 covering the entire country.

1.1.2 Housing is a basic requirement of human well -being. Information in respect of the dwelling unit of the households like *type of the dwelling unit* (viz. independent house, flat etc.), *tenurial status of dwelling unit* (viz. owned, hired, no dwelling etc.), *structure of the dwelling unit* (viz. pucca, semi-pucca, katcha), *condition of the structure* (viz. good, satisfactory, bad), *floor area of the dwelling unit*, *age of the house owned by the household*, etc. along with the facilities available to the households in respect of drinking water, sanitation etc. and micro environment surrounding the house like *drainage system of the house*, *system of disposal of household waste water*, *system of disposal of household garbage*, *problems of flies and mosquitoes* etc. are important determinants of overall quality of living condition of the household members. The objective of the survey on ‘Drinking Water, Sanitation, Hygiene and Housing Condition’ of NSS 76th round was to collect relevant information on all these aspects and develop suitable indicators to assess living conditions of the household members at the national and State/UT level.

1.2 Past surveys on the subject

1.2.1 The NSO has been collecting data on ‘Housing Conditions and other Amenities’ almost since its inception. Data on the structural aspects of dwelling units and basic housing amenities such as drinking water, bathrooms, sewerage, latrine, lighting, etc., available to the households were collected by NSO from NSS 7th round (October 1953 - March 1954) to NSS 23rd round (July 1968 - June 1969) through different survey schedules. These surveys were essentially exploratory in nature, designed to give only a broad idea of the dimensions of variables reflecting housing conditions at the national level. Prior to NSS 76th round, comprehensive

surveys on housing condition with a separate Schedule 1.2 were carried out by NSO in 28th round (October 1973 - June 1974), 44th round (July 1988 - June 1989), 49th round (January - June, 1993), 58th round (July - December, 2002), 65th round (July 2008 - June 2009) and 69th round (July - December, 2012). Apart from these surveys on housing condition, through Schedule 31 (Common Property Resources, Sanitation & Hygiene, Services) of NSS 54th round (January - June, 1998), detailed information on drinking water, sanitation and hygiene was also collected.

1.3. The survey outline

1.3.1. Schedules of enquiry

1.3.1.1. Prior to NSS 76th round, the last comprehensive survey on ‘Drinking Water, Sanitation, Hygiene and Housing Condition’ was carried out by NSO in its 69th round (July - December, 2012) through Schedule 1.2. Considering the content of Schedule 1.2 of NSS 69th round, current data demand and usefulness of the survey results, Schedule 1.2 of NSS 76th round was prepared. The NSO also conducted Rapid Surveys on Swachhata Status during May-June 2015 along with the other surveys of the NSS 72nd round (July 2014 - June 2015) and during July-December 2017 along with the other surveys of the NSS 75th round (July 2017 - June 2018).

1.3.1.2. Through the survey on ‘Drinking Water, Sanitation, Hygiene and Housing Condition’ of NSS 76th round, some important information collected from the sample households was on (i) tenurial status of the dwelling unit, (ii) type of the dwelling unit, (iii) condition of the structure of the dwelling unit, (iv) drainage system of the household, (v) system of disposal of household waste water, (vi) system of disposal of household garbage, (vii) number of rooms and floor area of the dwelling unit, (viii) type of material used for construction of roof, wall and floor of the dwelling unit, (ix) age of the house owned by the household, (x) construction /first hand purchase of houses/flats by the household for residential purpose, (xi) availability of electricity in the household for domestic use, (xii) problems of flies and mosquitoes faced by the household, (xiii) sources and sufficiency of drinking water of the household, (xiv) distance to the principal source of drinking water of the household, (xv) type of access of the household to the principal source of drinking water, (xvi) treatment and storage of drinking water by the household, (xvii) access of

the household to bathroom, (xviii) type of bathroom used by the household members, (xix) access of the household to latrine, (xx) type of latrine used by the household members, (xxi) reason for not using latrine by the household members despite the household having access to latrine, (xxii) disposal of faeces for children of age below three years, (xxiii) availability of water in or around the latrine used by the household etc.

1.3.1.3. Some of the major changes in the coverage of schedule of enquiry of NSS 76th round as compared to schedule of NSS 69th round are as follows:

- ❖ A new block viz. ‘demographic and other particulars of household member’ was introduced, for the first time, in the survey schedule of ‘Drinking Water, Sanitation, Hygiene and Housing Condition’. In this block, person level information on ‘age’, ‘gender’, ‘marital status’, ‘highest level of education’, ‘usual principal activity status’, ‘use of latrine’, ‘reason for not using latrine’ etc. was collected from the household members. Information on NIC and NCO was also collected in this block for the household members who were employed in the usual principal activity status.
- ❖ To determine the level of living of the household, information on ‘household’s usual monthly consumer expenditure’ was collected in NSS 76th round while information on ‘household consumer expenditure during last 30 days’ was collected in NSS 69th round. Household’s usual monthly consumer expenditure was obtained by collecting information on the four items viz. (a) usual consumer expenditure in a month for household purposes out of purchase, (b) imputed value of usual consumption in a month from home grown stock, (c) imputed value of usual consumption in a month from wages in kind, free collection, gifts etc. and (d) expenditure on purchase of household durables during last 365 days.
- ❖ In NSS 69th round, information on ‘maximum distance normally travelled to the place of work’ was collected for the earner of the household who normally travelled the maximum distance while in NSS 76th round, this information was collected separately for male earners, female earners and transgender earners of the household.

- ❖ In NSS 76th round, information on benefit received by the households from government schemes for drinking water, sanitation, housing, electrification and LPG connection facilities was collected for the first time.

(ii) Information on the following items was collected for the first time through the schedule of 'Drinking Water, Sanitation, Hygiene and Housing Condition' in NSS 76th round:

- (a) how long drinking water is stored
- (b) whether stored drinking water is covered
- (c) whether bathroom and latrine both are within the household premises
- (d) whether excreta from septic tank/pit latrine/composting latrine has ever been emptied
- (e) who emptied the excreta last time
- (f) place of disposal of excreta last time
- (g) amount paid (payable) for emptying the excreta last time
- (h) how frequently excreta is emptied
- (i) disposal of faeces for children of age below 3 years
- (j) availability of water in or around the latrine used
- (k) whether household members regularly wash their hands before meal
- (l) whether household members regularly wash their hands after defecation
- (m) whether the household faces problem of stagnant water in or around the household premises
- (n) whether human faeces are visible in or around the household premises
- (o) type of fuel used by household for cooking

1.3.2. Geographical Coverage and Sample Design

1.3.2.1. The survey on 'Drinking Water, Sanitation, Hygiene and Housing Condition' covered the whole of the Indian Union except the villages in Andaman and Nicobar Islands which were difficult to access.

1.3.2.2. A stratified two stage design was adopted for the NSS 76th round survey where the first stage units (FSU) were villages/UFS blocks/sub-units (SUs) and the ultimate stage units (USU) were households in both the sectors.

1.3.2.3. In NSS 76th round a village/UFS block was notionally divided into a number of sub-units (SUs) of more or less equal population/households during the preparation of frame. SUs were formed in the villages with population more or equal to 1,000 as per Census 2011 and no SU was formed in the remaining villages. While forming the SUs, Census 2011 population of villages was projected by applying suitable growth rates and the number of SUs to be formed in a village was determined a priori. In the urban areas, an UFS block with number of households more than or equal to 200 was divided into a number of SUs a priori and no SU was formed in the remaining UFS blocks. In rural areas, the First Stage Units (FSUs) were either SUs or the entire village and in urban areas, the First Stage Units (FSUs) were either SUs or the entire UFS block.

1.3.2.4. Each district was considered as a stratum. Within each district of a State/UT, generally speaking, two basic strata were formed: (i) rural stratum comprising of all rural areas of the district and (ii) urban stratum comprising of all the urban areas of the district. However, within the urban areas of a district, if there were one or more towns with population one million or more as per Census 2011, each of them formed a separate basic stratum and the remaining urban areas of the district was considered as another basic stratum. A special stratum, in the rural areas only, was formed at State/UT level before district level strata were formed in each State/UT. This stratum comprised all the uninhabited villages of the State/UT as per Census 2011. However, this special stratum was formed if at least 50 such villages were available in a State/UT. In both rural and urban areas, sub-strata were formed and villages/UFS blocks/sub-units (SUs) were selected from each sub-stratum.

1.3.2.5. For canvassing Schedule 1.2, in each FSU, two Second Stage Strata (SSS) were formed viz. (i) SSS1: households having MPCE \geq A and (ii) SSS2: households having MPCE $<$ A where, the cut-off point 'A' was determined for each NSS region for both rural and urban areas

separately, from the survey on Domestic Tourism Expenditure of NSS 72nd round, in such a way that top 10% of the population had MPCE more than or equal to 'A'. In each FSU, 2 and 10 households were selected from SSS1 and SSS2 respectively for canvassing Schedule 1.2.

1.3.2.6. For the central sample, the total number of FSUs surveyed for Schedule 1.2 of NSS 76th round was 8,992 at the all-India level of which 5,378 was in rural areas and 3,614 was in urban areas.

1.4 Contents of the report

1.4.1. All the estimates presented in this report are based on the state sample data collected through Schedule 1.2 of NSS 76th round. The field work for the state sample was carried out by Directorate of Economics & Statistics. Important indicators of living conditions of the household members have been developed and presented in this report at the state level. Some of the important indicators are (i) percentage of households with different tenurial status, use of house, type of structure, condition of structure, type of ventilation of the dwelling unit, (ii) average number of living/other rooms of the households, average floor area of the dwelling units of the households, (iii) percentage of households using improved sources of drinking water, getting sufficient drinking water, having drinking water facility within household premises, having access to latrine, using improved latrine facilities, having arrangement for garbage disposal, having drainage arrangement etc.

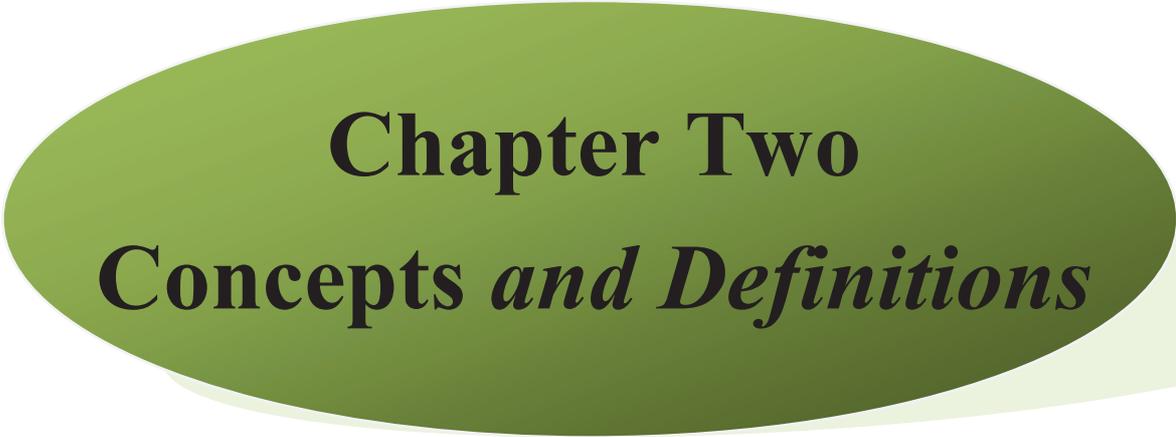
1.4.2. In NSS 76th round, information on 'benefits received by the household from the government schemes for drinking water, sanitation, housing, electrification and LPG connection facilities' was collected for the first time, prior to asking them about having access to these facilities, by using the household level questions: (i) whether ever received any benefit, (ii) if ever received, whether received any benefit during last 3 years and (iii) if received any benefit during last 3 years, the scheme from which maximum benefit was received.

1.4.2.1. It may be noted that, these single shot direct questions may not be appropriate to net the actual number of beneficiary households as there may be an inherent tendency of the respondent to give a negative reply on the presumption or expectation that a negative reply on benefits received and access to facilities, may help them to get additional benefits through government schemes. This respondent bias is difficult to isolate and measure using conventional survey

techniques. Further, as the survey was not focused to estimate number of households who received benefits from different government schemes, no second stage stratification of households was done in the sample design to capture sufficient number of households who received benefit from government schemes for each of the facilities of drinking water, sanitation, housing, electrification and LPG connection. These points are to be kept in mind while interpreting the results on the benefits received from different government schemes and access to the said facilities.

1.4.3. Since NSS 76th round survey was conducted during July - December 2018, the reference period for the survey results may be considered as the mid-point of the survey period July - December 2018 i.e., 01.10.2018.

1.4.4. This report contains Three Chapters and Three Appendices. Following the present introductory chapter (Chapter One), Chapter Two gives the concepts and definitions of different terms used for the survey on 'Drinking Water, Sanitation, Hygiene and Housing Condition' of NSS 76th round. Chapter Three presents summary of findings of the survey at the state level. Detailed tables forming the basis of this report are presented in Appendix A at state level. Relative standard errors for some of the key results are also given in Appendix A. An outline of the sample design and estimation procedure adopted in NSS 76th round survey is presented in Appendix B. Appendix C gives a facsimile of the Schedule 1.2 canvassed in NSS 76th round survey.



Chapter Two

Concepts *and Definitions*

Concepts and Definitions

2.1. Concepts and definitions of some important terms used in this report are described below.

2.2. Population coverage: The following rules regarding the coverage of population were adhered to in listing of households and persons during the survey operation.

1. Under-trial prisoners in jails and indoor patients of hospitals, nursing homes etc., were excluded, but residential staff therein was listed while listing was done in such institutions. The persons of the first category were considered as members of their parent households and were counted there. Convicted prisoners undergoing sentence were outside the coverage of the survey.
2. Floating population, i.e., persons without any normal residence were not listed. But households residing in open space, roadside shelter, under a bridge, etc., more or less regularly in the same place, were listed.
3. Neither foreign nationals nor their domestic servants were listed, if by definition the latter belonged to the foreign national's household. If, however, a foreign national became an Indian citizen for all practical purposes, he or she was covered.
4. Persons residing in barracks of military and paramilitary forces (like police, BSF, etc.) were kept outside the survey coverage due to difficulty in conduct of survey therein. However, civilian population residing in their neighbourhood, including the family quarters of service personnel, were covered.
5. Orphanages, rescue homes, *ashrams* and vagrant houses were outside the survey coverage. However, persons staying in old age homes, students staying in *ashrams/hostels* and the residential staff (other than monks/nuns) of these *ashrams/hostels* were listed. For orphanages, although orphans were not to be listed, the persons looking after them and staying there were considered for listing.

2.3. House: Every structure, tent, shelter, etc. was considered as a house irrespective of its use. It might have been used for residential or non-residential purpose or both or even might have been vacant.

2.4. Household: A group of persons who normally lived together and took food from a common kitchen constituted a household. It included temporary stay-aways (those whose total period of absence from the household was expected to be less than 6 months) but excluded temporary visitors and guests (expected total period of stay less than 6 months). Even though the determination of the actual composition of a household was left to the judgment of the head of the household, the following procedures was adopted as guidelines.

- ◆ Each inmate (including residential staff) of a hostel, mess, hotel, boarding and lodging house, etc., was considered as a single-member household. If a group of persons among them normally pooled their income for spending, they were considered to form a single household. For example, a family living in a hotel was treated as a single household.
- ◆ In deciding the composition of a household, more emphasis was given on 'normally living together' than on 'ordinarily taking food from a common kitchen'. In case the place of residence of a person was different from the place of boarding, he or she was treated as a member of the household with whom he or she resided.
- ◆ A resident employee, or domestic servant, or a paying guest (but not just a tenant in the household) was considered as a member of the household with whom he or she resided even though he or she was not a member of the same family.
- ◆ When a person usually slept in one place (say, in a shop or in a room in another house because of space shortage) but took food with his or her family, he or she was not treated as a single member household but as a member of the household in which other members of his or her family stayed.
- ◆ If a member of a family (say, a son or a daughter of the head of the family) stayed elsewhere (say, in hostel for studies or for any other reason), he/she was not considered as a member of his/her parent's household. However, he/she was listed as a single member household if the hostel was listed.

2.5. Household size: Total number of persons in the household constituted the household size.

2.6. Household premises: For this survey, household premises was defined as the dwelling unit of the household together with the courtyard, compound, garden, out-house, place of worship, garage, family graveyard, guest house, shop and offices for running household enterprises, tanks, wells, latrines, drains and boundary walls annexed to the dwelling unit which were under the possession of the household (possessed exclusively or possessed with some other households).

2.7. Dwelling unit: In this survey, dwelling unit was defined as the accommodation availed of by a household for its residential purpose. It might be an entire structure or a part thereof or consisting of more than one structure. There might be cases of more than one household occupying a single structure such as those living in independent flats or sharing a single housing unit, in which case, number of dwelling units was same as the number of households sharing the structure. There might also be cases of one household occupying more than one structure (i.e. detached structures for sitting, sleeping, cooking, bathing etc) for its housing accommodation. In this case, all the structures together constituted a single dwelling unit. In general, a dwelling unit consists of living room, kitchen, store, bath, latrine, garage, open and closed veranda etc. A structure or a portion thereof used exclusively for non-residential purposes or let out to other households did not form part of the dwelling unit of the household under consideration. However, a portion of a structure used for both residential and non-residential purposes was treated as part of the dwelling unit except when the use of such portion for residential purpose was very nominal. The dwelling unit covered all pucca, semi-pucca and katcha structures used by a household. Households living more or less regularly in tents, under bridges, in pipes, under staircase, in purely temporary flimsy improvisations built by the road side (which are liable to be removed at any moment) etc., were considered to have no dwelling.

2.8. Independent house: A dwelling unit was considered as an independent house if it had a separate structure and the structure was not shared with any other household. In other words, if the dwelling unit and the entire structure of the house were physically the same, it was considered as an independent house. In some parts, particularly in rural areas, two or more structures together constituted a single housing unit. While the main residence was in one of the structures, the other structures were used for sleeping, sitting and for store, bath etc. In all such cases, all the structures together formed an independent house.

2.9. Flat: A dwelling unit was considered as a flat if it was a part of a structure which was shared with at least two households and the dwelling unit had housing facilities of water supply, bathroom and latrine, which were used exclusively by the households or shared with households residing in that structure. If the household reported that the facilities of water supply, bathroom and latrine were shared with other households residing in other structures, such dwelling unit was considered as flat. If households were residing in flat-like structure without any one of the housing facilities like water supply, bathroom and latrine; those structures/dwelling units were not considered as flat.

2.10. Pucca structure: Pucca structure was defined as a structure whose walls and roofs were made of pucca materials such as cement, concrete, oven burnt bricks, hollow cement/ash bricks, stone, stone blocks, jack boards (cement plastered reeds), iron, zinc or other metal sheets, timber, tiles, slate, corrugated iron, asbestos cement sheet, veneer, plywood, artificial wood of synthetic material and poly vinyl chloride (PVC) material.

2.11. Katcha structure: A structure which had walls and roof made of non-pucca materials was considered as a katcha structure. Non-pucca materials included unburnt bricks, bamboo, mud, grass, leaves, reeds, thatch, etc. Katcha structures were of two types; (i) *Unserviceable katcha structure*, which included all structures with thatch walls and thatch roof, i.e., walls made of grass, leaves, reeds, etc. and roof of a similar material and (ii) *Serviceable katcha structure*, which included all katcha structures other than unserviceable katcha structures.

2.12. Semi-pucca structure: A structure which could not be classified as a pucca or a katcha structure was defined as semi-pucca structure. Such a structure had either the walls or the roof but not both, made of pucca materials.

2.13. Room: It was defined as a constructed area with walls or partitions on all side with at least one door way and a roof overhead. Wall/partition meant a continuous solid structure (except for the doors, windows, ventilators, air-holes, etc.) extending from floor to ceiling. A constructed space with grill or net on one or more sides in place of wall or partition was not considered as a room. In case of conical shaped structures in which the roof itself was built to the floor level, the roof was considered as wall.

2.14. Living room: A room with floor area (carpet area) of at least 4 square metres (i.e., approximately 43 square feet), a height of at least 2 metres (i.e., approximately 6.6 feet) from the floor to the highest point in the ceiling and used for living purposes was considered as a living room. Thus, rooms used as bedroom, sitting room, prayer room, dining room, servant's room - all were considered as living rooms provided they satisfy the size criterion. Kitchen, bathroom, latrine, store, garage etc. were not considered as living rooms. A room used in common for living purpose and as kitchen or store was also considered as living room.

2.15. Other room: It was defined as a room which did not satisfy the specification of 4 square metres floor area and 2 metres height from the floor to the highest point of the ceiling or a room which though satisfied the specification, was not used for living purposes. A room which

satisfied the size criterion but shared by more than one household or when used for both residential and business purposes was treated as other room.

2.16. Verandah: A roofed space adjacent to living/other room along the outside of the house and not walled from all sides was considered as verandah. In other words, at least one side of such space was either open or walled only to some height or protected by grill, net, etc. A verandah was defined as a ‘covered verandah’, if it was protected from all sides and an ‘uncovered verandah’, if it was not protected at least from one of the sides. A covered veranda could have a door also. Sometimes verandah was used as an access to the room(s). Corridor or passage within the dwelling unit was considered as portion of a room or a verandah depending on its layout. A common corridor or passage used mainly as an access to the dwelling was not considered as verandah.

2.17. Slums: Any compact settlement with a collection of poorly built tenements, mostly of temporary nature, crowded together, usually with inadequate sanitary and drinking water facilities in unhygienic conditions, was considered as a slum by the survey, provided at least 20 households lived there. The criterion of 20 households was not restricted within an FSU only but the whole of such an area which could cut across more than one FSU. Such settlements were considered as *notified slum* if they were notified so by the concerned State governments, municipalities, corporations, local bodies or development authorities; otherwise, they were considered as a *non-notified slum*. For this survey the word ‘slums’ included both *notified slums* and *non-notified slums*.

2.18. Squatter settlement: Slum like settlements with less than 20 households were considered as squatter settlements. The criterion of 20 households was not restricted within an FSU only but the whole of such an area which could cut across more than one FSU.

2.19. Land possessed: The area of land possessed by a household was defined as an area which included land ‘owned’, ‘leased in’ and ‘land neither owned nor leased in’ (i.e. encroached) by the household but excluded land ‘leased out’. The total land area possessed by the household as on the date of survey was considered.

- ◆ A piece of land was considered to be owned by the household if permanent heritable possession with or without the right to transfer the title vested in a member or members of the household. Land held in owner-like possession say, under perpetual lease,

hereditary tenure, long-term lease for 30 years or more, etc., was also considered as land owned.

- ❖ As regards lease, land given to others on rent or free by owner of the land without surrendering the right of permanent heritable title was defined as land leased out. Land leased in was defined as land taken by a household on rent or free without any right of permanent or heritable possession. The lease contract could be written or oral.
- ❖ For a piece of public/institutional land under the possession of the household, if the household did not have the title of ownership or did not have lease agreement for the use of land transacted, either verbally or in writing, such land was considered as ‘neither owned nor leased in’ i.e. otherwise possessed. Private land (i.e. land owned by the household sector) possessed by the household without title of ownership and occupancy right was not considered in the ‘otherwise possessed’ category. All private land encroached upon by the household was considered as leased-in land.
- ❖ Land possessed by the household members by virtue of family ties with the owner who stayed elsewhere (forms a different household), was considered as land leased in. For such owners (those found to be living away from their family members who were in possession of the land), the land was recorded as owned and leased out.
- ❖ Land owned, leased in, etc., by a particular household did not include the area of land owned, leased in, etc., by the servants/paying guests who were considered as normal members of the household. However, land owned/cultivated jointly by two or more households had been apportioned to determine the land owned/cultivated by any one of them.
- ❖ Land possessed by the households living in a block of flats was computed by apportioning the total area occupied by the building among the households in proportion to the size of the flats.

2.20. Household’s usual consumer expenditure (Rs.) in a month: Household consumer expenditure (HCE) was defined as the sum total of monetary values of all goods and services consumed (out of purchase or procured otherwise) by the household on domestic account during a reference period. Household’s usual monthly consumer expenditure was defined as the sum total of monetary values of all goods and services consumed by the household on domestic account with a monthly regularity. Unusual expenditures, such as, expenditure on social ceremonies, capitation fee, hospitalization etc. were excluded for deriving usual monthly

consumer expenditure of the household. However, expenditure on household durable goods was included and monthly expenditure on durable goods was derived by apportioning the total expenditure made by the household on durable goods during last 365 days.

2.21. Sources of finance for construction/first hand purchase of houses/flats for residential purpose: The different sources of finance considered for the survey are:

Own source (including own labour): This included the household labour and/or materials supplied from home, savings of the different members of the household, non-refundable amount (final withdrawal or part withdrawal drawn by some of the household members) from provident fund account by the household members, amount received from sale of assets, etc. Though this did not include materials used from free collection, the transport charges and the related hired and household labour associated with such free collection had been evaluated and recorded. Materials supplied from home had been evaluated at the ex-farm/ex-factory price.

Government: Money (including subsidy received either in cash or kind) received from the central or state governments to finance the construction had been considered under this category. When houses/flats were received free from central or state governments, the source of finance had also been considered as 'Government'.

Bank (Commercial Banks including regional rural bank, cooperative society/bank): Amount spent on construction out of money (including subsidy received either in cash or kind) taken from commercial banks, including nationalised banks, regional rural banks, State Bank of India and its associates like State Bank of Rajasthan, State Bank of Mysore, etc., and foreign commercial banks operating in India had been considered under this category. Similarly, money obtained from agencies such as co-operative society/banks, like district or central cooperative banks or other types of co-operative societies, etc. had also been included under this category.

Insurance: All loans taken from Life Insurance Corporation, Postal Life Insurance and other insurance funds had been considered as loans taken from 'insurance'.

Provident fund: Refundable advance/loans taken from a Provident Fund account, such as a Contributory Provident Fund, a General Provident Fund, a Public Provident Fund or any other provident fund in the public/private sector offices and companies, by the employees of the respective concerns, or account holders in case of a Public Provident Fund, were considered as 'Provident Fund'.

Financial corporations/institutions: Institutions such as Housing Development Finance Corporation Limited (HDFC), Housing and Urban Development Corporation Limited (HUDCO), etc., were considered under this category.

Other institutional agencies: Amount raised by the households from financial institutions other than those listed above was treated as loans from ‘Other Institutional Agencies’.

Self help group: A self help group (SHG) is a financial intermediary usually composed of between 10-12 local persons. Members make small regular savings contributions over a few month until there is enough capital in the group to begin lending. Funds are lent back to the members or at times to others. In India, many SHGs are linked to banks for the hand delivery of microcredit.

Money lender: Persons who lend money on interest had been considered as moneylenders.

Friends and relatives: Friends and relatives in this particular context are those who (i) are not the household members of the selected household and (ii) gifted money/material for construction/purchase of houses/flats or lent money free of interest. A friend or relative who charged interest for any loan advanced was regarded as money lender.

Other non-institutional agencies: Any non-institutional credit agency not covered above was considered under this category.

2.22. Principal source of drinking water: The different principal sources of drinking water considered for the survey are:

Bottled drinking water: Drinking water packaged in bottles, jars, pouches, and similar containers was classified as bottled drinking water. Generally this packaged drinking water meets certain safety standards and are considered safe for drinking. Tap water, well water, etc., kept by households in bottles, for convenience, and was not treated as bottled drinking water.

Piped water into dwelling and piped water to yard/plot: If an arrangement was made by corporation, municipality, panchayat or other local authorities or any private or public housing estate or agency to supply water through pipe and if the sample household availed such facility for drinking, then such sources of drinking water was considered as piped water. Piped water into dwelling was defined as a piped water connection to one or more taps to the dwelling unit (e.g., in the kitchen). Piped water to yard/plot was defined as a piped water connection to a tap

placed outside the dwelling unit of the household but in the yard or plot within the household premises.

Piped water from neighbour: If an arrangement was made by the sample household to avail drinking water from the piped water of the neighbour household supplied by corporation/municipality/panchayat or other local authorities or any private or public housing estate or agency, then the source of drinking water for the sample household was considered as 'piped water from neighbour'. If the sample household collected drinking water from more than one neighbour, then also source of drinking water for the sample household was considered as 'piped water from neighbour'.

Public tap/standpipe: Public tap or standpipe is a water point for community use in which water is supplied through pipe by corporation/municipality/panchayat or other local authorities or any private agency. Public tap/standpipe can have one or more taps and are typically made of brickwork, masonry or concrete.

Tube well and Hand pump: Tube well and hand pump are bore well used for extracting ground water for drinking purpose. If the pump of the bore well is operated by animal, wind, electric, diesel or solar means etc., it is known as tube well and if the pump is operated manually by hand using human power and mechanical advantage to lift ground water, it is known as hand pump.

Protected well/unprotected well: A well is considered as protected if it has generally the following protective measures to lower the risk of contamination:

- a. A headwall around the well with a properly fitting cover
- b. A concrete drainage platform around the well with a drainage channel
- c. A hand pump or bucket with windlass

If instead of hand pump or bucket with windlass, electric pump was used to pump water from such wells, where the conditions (a) and (b) exist, it was considered as protected well. A well which was not protected by the above measures, e.g., the well not protected from runoff water or the well not protected from bird droppings and animals, was classified as unprotected well.

Tanker-truck: public/private: In 'tanker-truck', drinking water is trucked to a locality and supplied from tanker to the households of the locality. If the 'tanker-truck' was operated by any government agencies (central/state/local bodies etc.) and the sample household reported that it was their principal source of drinking water then the source of drinking water of the household

was recorded as 'public tanker-truck'. In case the 'tanker-truck' was operated by private agencies (NGOs, trusts etc.) and the sample household reported that it was their principal source of drinking water, then the source of drinking water of the household was considered as 'private tanker-truck'.

Protected spring/unprotected spring: A spring was considered as protected, if it was protected from runoff, bird droppings and animals by a 'spring box', constructed of brick, masonry or concrete and built around the spring so that water flowed directly out of the box into a pipe or cistern, without being exposed to outside pollution. A spring which was not protected was called unprotected spring.

Rainwater collection: Rainwater refers to rain that is collected or harvested from surfaces (by roof or ground catchment) and stored in a container, tank or cistern until used. Traditionally, rainwater collection has been practised in arid and semi-arid areas to get drinking water of the household and water for other uses. When such water was used for drinking purpose, the source of drinking water was considered as rainwater collection.

Surface water: Surface water is water located above ground and includes rivers, dams, lakes, ponds, streams, canals and irrigation channels. For surface water, two distinct categories were provided, one for 'tank/pond' and another for 'other surface water (river, dam, stream, canal, lake, etc.).

Others (cart with small tank or drum, etc.): In 'cart with small tank or drum', water is supplied in small tank or drum to a locality by donkey carts, motorized vehicles and other means.

2.22.1. The source of drinking water of same type located at two different places was not treated as two different sources of drinking water. Drinking water carried through pipe from sources like tanker-truck, well, tank, river, etc., by the owner/occupants only for convenience of the household was not treated as piped water (i.e., piped water into dwelling or piped water to yard/plot). Instead, the actual source from which water was carried through pipe had been considered as the principal source of drinking water. When a household made arrangement for getting drinking water by hiring the services of persons, the source of water was considered as the one from which water was collected by the hired person.

2.23. Type of latrine used by the household: The different types of latrine considered for the survey are:

Flush/pour-flush: Flush latrine uses a cistern or holding tank for flushing water, and a water seal (which is a U-shaped pipe below the seat or squatting pan) that prevents the passage of flies and odours. A pour-flush latrine uses a water seal, but unlike a flush latrine, it uses water poured by hand for flushing (no cistern is used). Depending on the system/site where human excreta and waste water are disposed off, flush/pour-flush latrine can be of the following types: (i) piped sewer system, (ii) septic tank, (iii) twin leach pit, (iv) single pit, (v) elsewhere (open drain, open pit, open field, etc.).

Flush/pour-flush to piped sewer system: Piped sewer system is a system of sewer pipes, also called sewerage that is designed to collect human excreta and waste water and remove them from the household environment.

Flush/pour-flush to septic tank: Septic tank is an excreta collection device consisting of a water-tight settling tank, which is normally located underground. The treated effluent of a septic tank usually seeps into the ground through a leaching pit.

Flush/pour-flush to twin leach pits/single pit: In twin pit flush/ pour-flush latrine, the excreta are carried into subsurface leach pits through pipes or covered drains and one pit is used at a time. The liquid infiltrates into the soil through the holes in the pit lining. The gases also disperse into the soil, and therefore, the provision of a vent pipe for its outlet is not necessary. When one pit is full, the excreta are diverted to the second pit. The filled pit can be conveniently emptied after a rest period of one and a half years, during which pathogens are inactivated and the organic matter decomposed. Thus the two pits can be used alternately and continuously. In a single pit system desludging is required immediately after the pit has filled up, and therefore involves handling of fresh and undigested excreta which is hazardous to health. Single leach pits are appropriate only if mechanical deluding vacuum tanker is readily available, or if the pit is abandoned when full.

Flush/pour-flush to elsewhere (open drain, open pit, open field, etc): This type of latrine refers to the system of flush/pour-flush latrine where excreta are disposed of near the household environment (not into a pit, septic tank, or sewer). Excreta may be flushed to the open drain, open pit, open field, etc.

Ventilated improved pit latrine: This is a dry pit latrine ventilated by a pipe that extends above the latrine roof. The open end of the vent pipe is covered with gauze mesh or fly-proof netting and the inside of the super structure is kept dark.

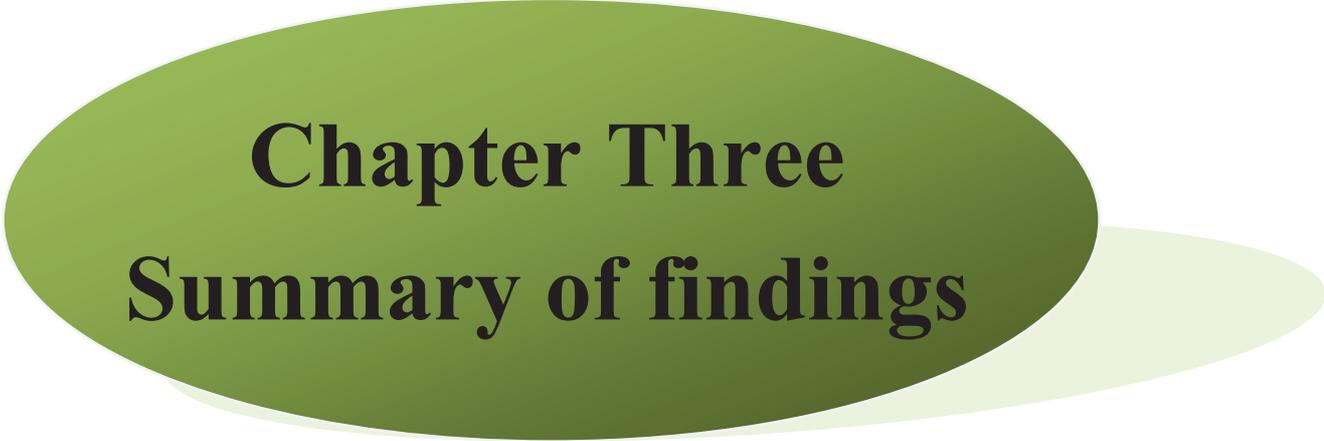
Pit latrine with slab: This is a dry pit latrine that uses a hole in the ground to collect the excreta and a squatting slab or platform that is firmly supported on all sides, easy to clean and raised above the surrounding ground level to prevent surface water from entering the pit. The platform has a squatting hole, or is fitted with a seat. Unlike the ventilated improved pit latrine, in this type of latrine vent pipe is not used.

Pit latrine without slab/open pit: Pit latrine without slab uses a hole in the ground for excreta collection and does not have a squatting slab, platform or seat.

Composting latrine: This is a dry latrine into which carbon-rich material (vegetable wastes, straw, grass, sawdust, ash) are added to the excreta and special conditions maintained to produce inoffensive compost.

Others: Examples of such latrine are (i) hanging latrine which is built over the sea, a river, or other body of water, into which excreta drops directly, (ii) service latrine which are serviced by scavengers.





Chapter Three

Summary of findings

Summary of Findings

3.1. Introduction

3.1.1. In this Chapter, key results of the survey on ‘Drinking Water, Sanitation, Hygiene and Housing Condition’ of NSS 76th round (July – December 2018) as obtained from the State sample data are presented.

3.2. First stage units and households surveyed

3.2.1 In Kerala, the total number of first stage units (FSUs) surveyed for Schedule 1.2 of NSS 76th round was 284 for the state sample (142 each in rural and in urban areas) and the total number of households surveyed was 3355 (1652 in rural areas and 1703 in urban areas).

3.3. Estimated number of households and persons

3.3.1 The number of households and persons along with average size of household in Kerala, as estimated from the survey, is given below in Statement 1. It may be noted that this survey was not specifically designed to estimate number of households and persons but these figures are given in the report keeping in mind that these can be used to combine rates and ratios pertaining to different indicators.

Statement 1 :Estimated number of households, estimated number of persons and average household size				
Sl. No	Description of item	Rural	Urban	All
1	Estimated number of households	42481	41285	83766
2	Estimated number of persons	165818	155333	321151
3	Average household size (0.0)	3.9	3.8	3.8

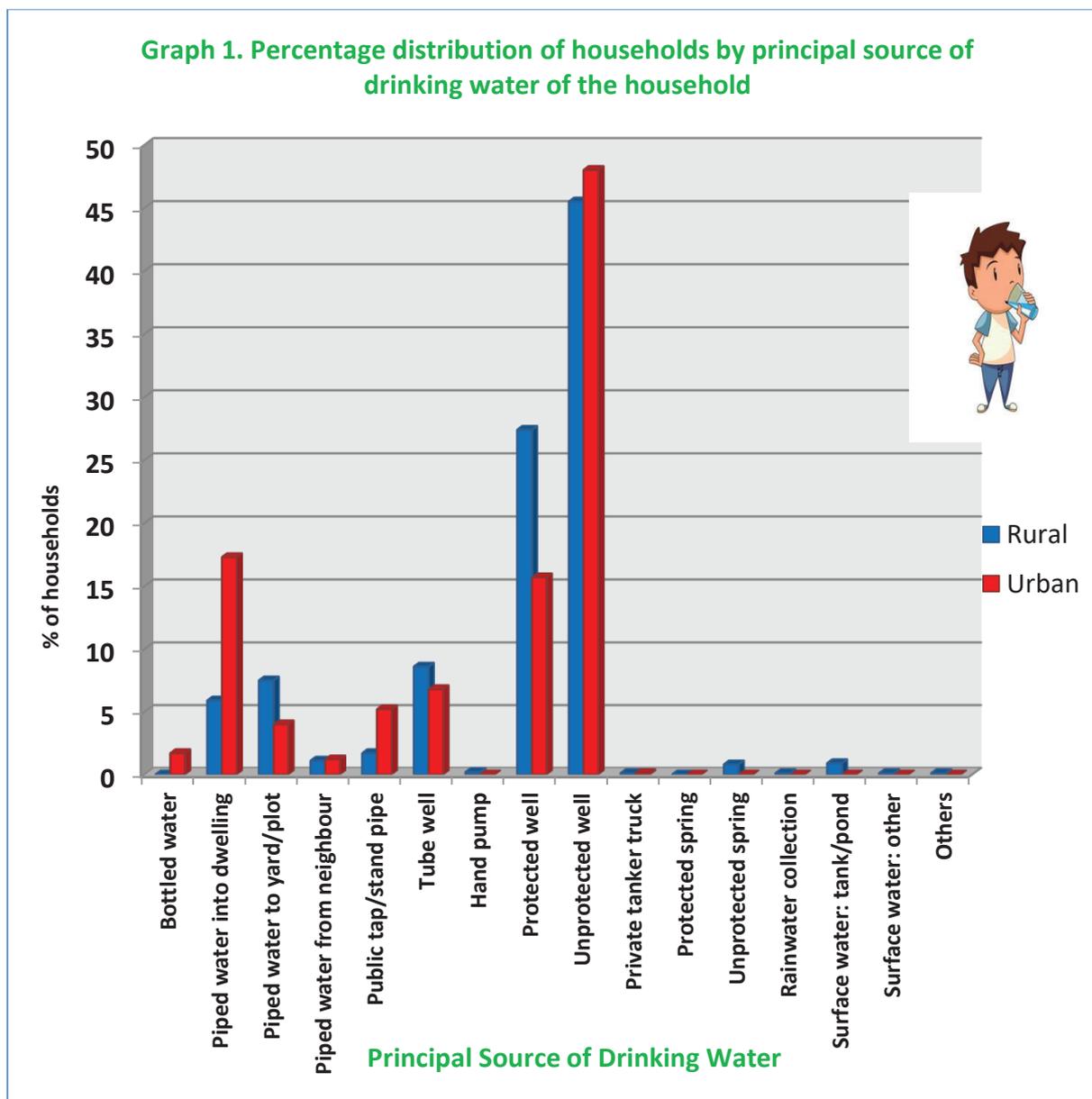
3.4. Drinking Water

3.4.1. Principal source of drinking water of the household: In this survey, the source of water from which the household obtained most of its drinking water during the last 365 days was considered as the principal source of drinking water of the household. The information on principal source of drinking water of the household was collected in terms of the seventeen categories viz. (i) bottled water, (ii) piped water into dwelling, (iii) piped water to yard/plot, (iv) piped water from neighbour, (v) public tap/standpipe, (vi) tube well, (vii) hand pump, (viii) protected well, (ix) unprotected well, (x) public tanker truck, (xi) private tanker truck, (xii) protected spring, (xiii) unprotected spring, (xiv) rainwater collection, (xv) tank/pond, (xvi) other surface water (river, dam, stream, canal, lake, etc.) and (xvii) others (cart with

small tank or drum, etc.). The percentage distribution of households, by principal source of drinking water of the household as obtained from the survey is given below in Statement 2. A pictorial representation of the same is given in Graph-1.

Statement 2: Percentage distribution of households by principal source of drinking water of the household				
Sl.No	Principal source of drinking water	Percentage distribution of households		
		Rural	Urban	All
1	Bottled water	0	1.7	0.8
2	Piped water into dwelling	5.9	17.3	11.5
3	Piped water to yard/plot	7.5	4	5.8
4	Piped water from neighbour	1.1	1.2	1.2
5	Public tap/stand pipe	1.7	5.2	3.5
6	Tube well	8.6	6.8	7.7
7	Hand pump	0.2	0	0.1
8	Protected well	27.4	15.7	21.6
9	Unprotected well	45.5	48	46.7
10	Private tanker truck	0.1	0.1	0.1
11	Protected spring	0	0	0
12	Unprotected spring	0.8	0	0.4
13	Rainwater collection	0.1	0	0
14	Surface water: tank/pond	0.9	0	0.5
15	Surface water: other	0.1	0	0
16	Others	0	0	0
17	All	100	100	100

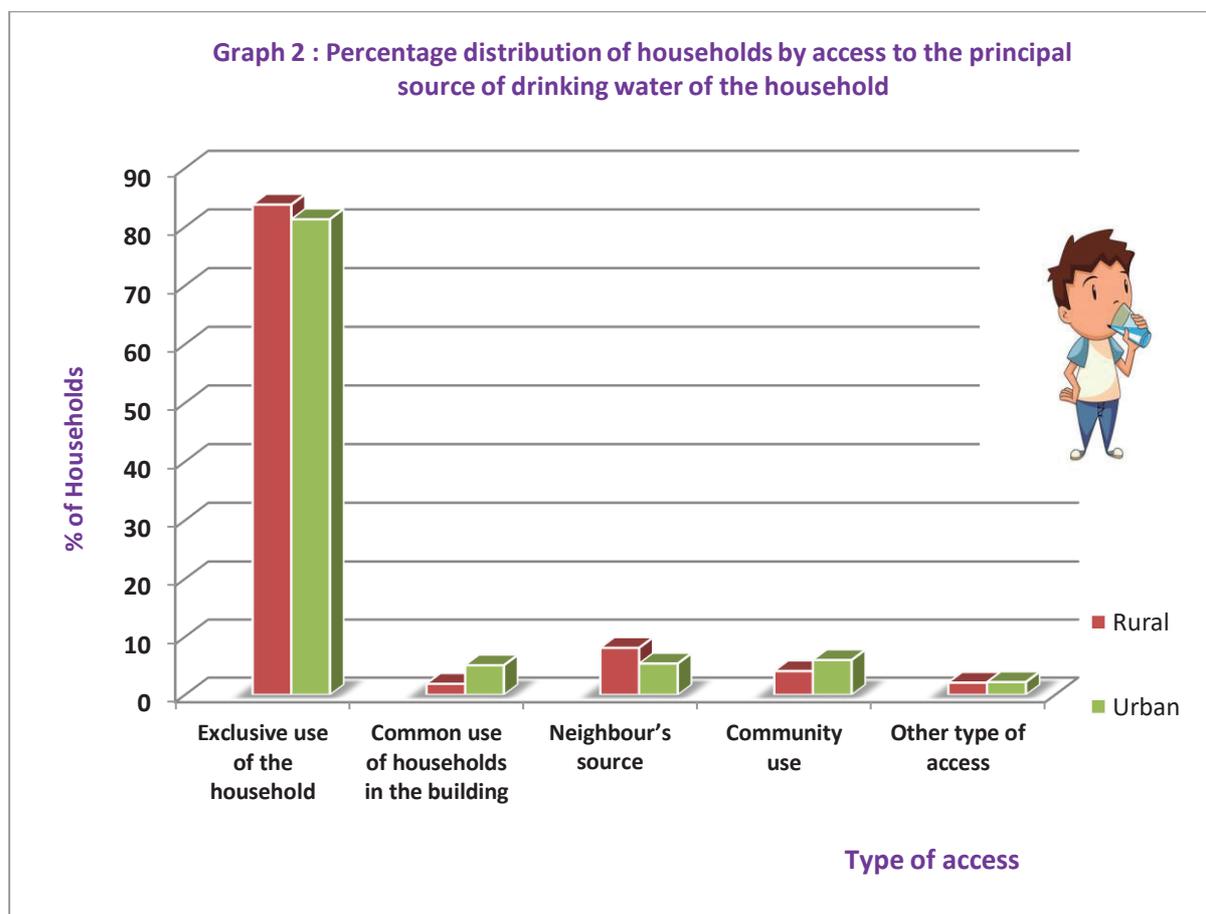
Note: Figure 0 indicates negligible percentage of households corresponding to particular principal source of drinking water.



3.4.2. Access of household to principal source of drinking water: In this survey, access to the principal source of drinking water was defined in terms of the prevailing situation of use of the source of drinking water and not the legal right to use. The information on access to principal source of drinking water of the household was collected in terms of the eight categories viz. (i) exclusive use of household, (ii) common use of households in the building, (iii) neighbour’s source, (iv) public source restricted to particular community, (v) public source unrestricted, (vi) private source restricted to particular community, (vii) private source unrestricted and (viii) others. The percentage distribution of households, in Kerala, by access to the principal source of drinking water of the household as obtained from the survey is given in Statement 3.

Access to principal source of drinking water		Percentage distribution of households		
		Rural	Urban	All
Exclusive use of the household		83.8	81.3	82.6
Common use of households in the building		1.9	5.1	3.5
Neighbour's source		8.1	5.4	6.8
Community use	Public source restricted to particular community	0.9	0	0.4
	Public source unrestricted	2.3	5.8	4
	Private source restricted to particular community	0.8	0	0.4
	Private source unrestricted	0.1	0.2	0.1
Other type of access		2.1	2.2	2.2
All		100	100	100

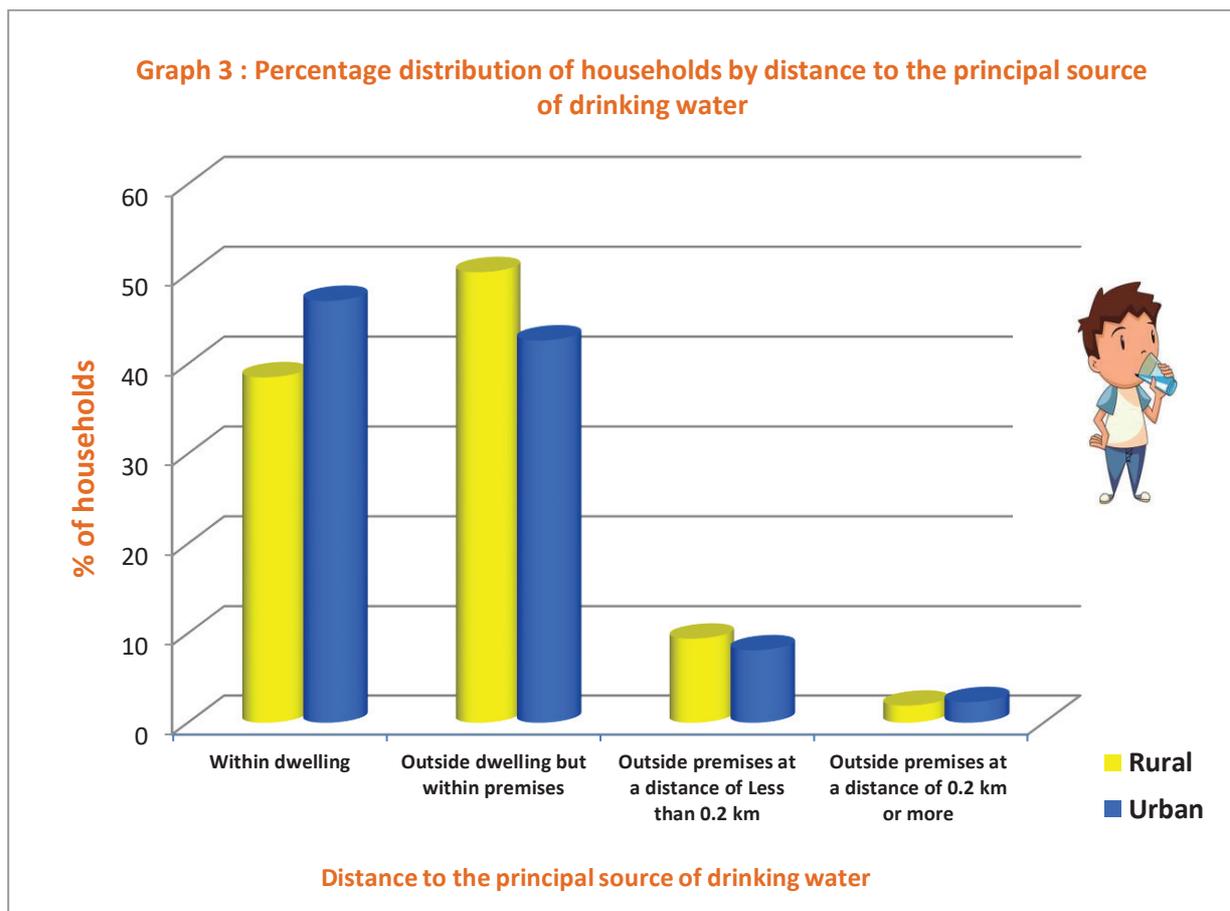
A pictorial representation of the percentage distribution of households by access to the principal source of drinking water of the household in Kerala is given in Graph 2.



3.4.3. Sufficiency of drinking water from principal source, Distance to the principal source of drinking water and Supplementary source of drinking water of the household

In this survey the availability of drinking water from the principal source was considered as sufficient throughout the year if in each of the calendar months of the year availability of drinking water was sufficient. For the households that used more than one source of drinking water during the last 365 days, the supplementary source of drinking water was considered as the second source of drinking water from where most of the drinking water was obtained after the principal source of drinking water. The percentage distribution of households by distance to the principal source of drinking water, percentage of households not getting sufficient drinking water throughout the year and percentage of households reported no supplementary source of drinking water, in the state is given in Statement 4. The pictorial representation of the percentage distribution of households by distance to the principal source of drinking water in the state is given in Graph 3.

Statement 4: Percentage distribution of households by distance to the principal source of drinking water, percentage of households not getting sufficient drinking water throughout the year and percentage of households reported no requirement of supplementary source of drinking water				
Description of items		Rural	Urban	All
1. Percentage distribution of households by distance to the principal source of drinking water				
Within dwelling		38.5	47	42.7
Outside dwelling but within premises		50.2	42.6	46.4
Outside premises at a distance of:	Less than 0.2 km	9.4	8.1	8.8
	0.2 – 0.5 km	0.9	2	1.4
	0.5 – 1.0 km	0.2	0.2	0.2
	1.0 – 1.5 km	0.2	0.1	0.1
	1.5 km or more	0.6	0.1	0.3
All		100	100	100
2. Percentage of households getting sufficient drinking water from principal source throughout the year		79.7	88.4	84
3. Percentage of households reported no requirement of supplementary source of drinking water		71.1	75.6	73.3



The percentage distribution of households having exclusive access to principal source of drinking water located in the household premises is given in statement 5

Statement 5: Percentage of households having exclusive access to principal source of drinking water located in the household premises			
Description of items	Percentage of households		
	Rural	Urban	All
Households having exclusive access to principal source of drinking water located in the household premises	83.8	81.3	82.6

3.4.4. Improved principal source of drinking water of the household

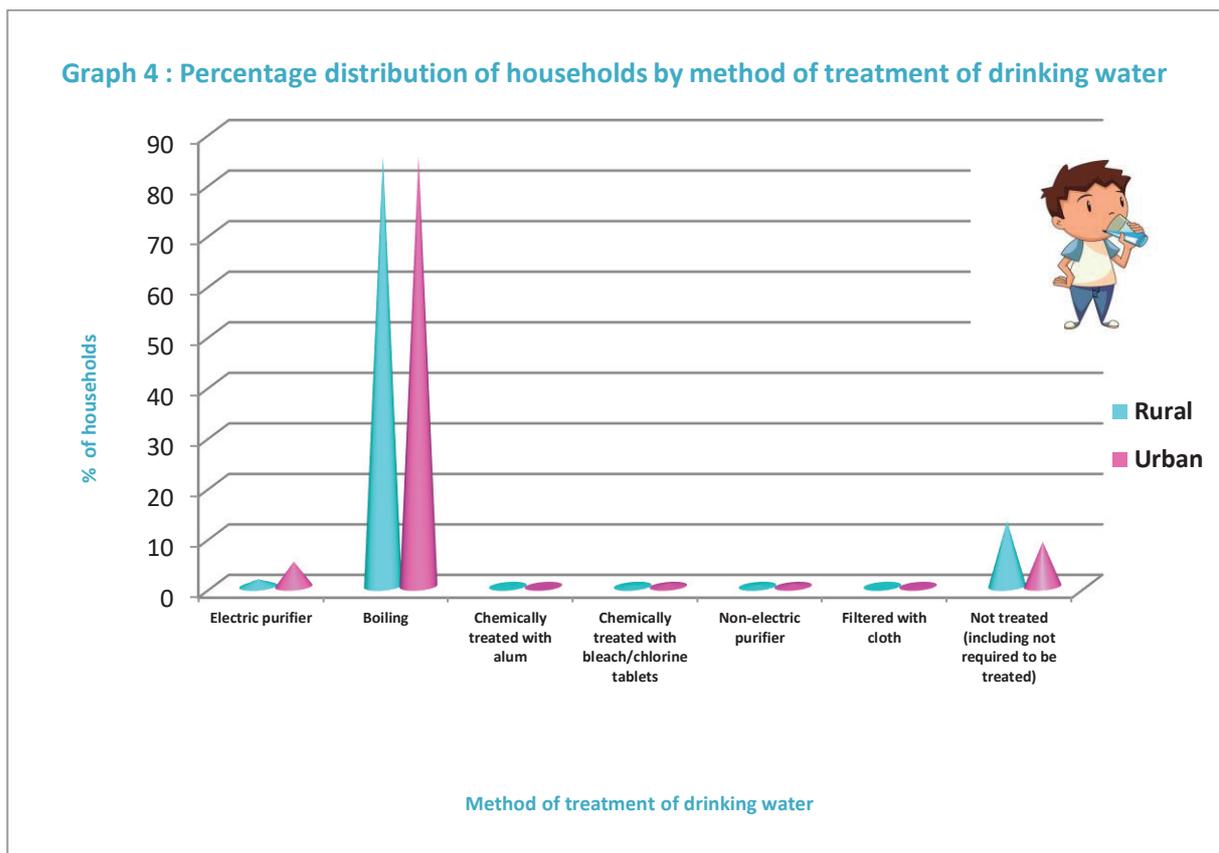
In this survey, information on principal source of drinking water of the household was collected in terms of the seventeen categories as mentioned in paragraph 3.4.1. Out of these seventeen categories, the sources (i) bottled water, (ii) piped water into dwelling, (iii) piped water to yard/plot, (iv) piped water from neighbour, (v) public tap/standpipe, (vi) tube well, (vii) hand pump, (viii) protected well, (ix) public tanker truck, (x) private tanker truck, (xi) protected spring and (xii) rainwater collection are considered as improved sources of drinking water. The percentage of households with improved source of drinking water at the state level as obtained from NSS 76th round is given in Statement 6.

Statement 6: Percentage of households with improved sources of drinking water in Kerala		
Rural	Urban	All
88.7	89.6	89.1

3.4.5 Method of treatment of drinking water by the household

In this survey, information on treatment of drinking water was collected considering the usual practice of the household to treat drinking water received from all the sources (either principal or supplementary or both) to improve its quality. The percentage distribution of households, by method of treatment of drinking water is given in Statement 7 and its pictorial representation is given in Graph 4

Statement 7: Percentage distribution of households by method of treatment of drinking water.			
Method of treatment of drinking water	Percentage distribution of households		
	Rural	Urban	All
Electric purifier	1.4	4.9	3.1
Boiling	85	85.1	85
Chemically treated with alum	0.1	0	0.1
Chemically treated with bleach/chlorine tablets	0.3	0.6	0.4
Non-electric purifier	0.3	0.5	0.4
Filtered with cloth	0	0.1	0.1
Not treated (including not required to be treated)	12.9	8.8	10.9
All	100	100	100



3.4.6. Storing of drinking water and method of taking out stored drinking water from the main container.

If the household usually stored most of the drinking water received from all the sources, it was considered that the household was storing drinking water. The percentage distribution of households, by material of main container used for storing drinking water, by duration of storing of drinking water, by method of taking out drinking water from the main container, and by which covered main container used for storing drinking water are given in Statement 8.

Statement 8: Percentage distribution of households by material of main container used for storing drinking water, by duration of storing of drinking water and by method of taking out drinking water from the main container and percentage of households which covered the main container				
Description of items		Rural	Urban	All
1. Percentage distribution of households by material of main container used for storing of drinking water.				
Non-metal	Earthen	2.6	1.7	2.2
	Plastic	21.6	17.7	19.7
	Other	0.6	1.9	1.3
Metal	Iron	0	0	0
	Copper	0.1	0.2	0.1
	Stainless steel	63.9	66	64.9
	Brass	0.4	0.1	0.3
	Other	9.3	8.8	9.1
Not stored drinking water		1.5	3.6	2.5
All		100	100	100
2. Percentage distribution of households by duration of storing of drinking water				
Less than 1 day		78.5	79.6	79
1 day or more but less than 3 days		20.3	18.5	19.4
3 days or more		1.2	1.9	1.6
All		100	100	100
3. Percentage distribution of households by method of taking out stored drinking water				
Through tap		9.3	15.1	12.1
Vessel with handle		46.6	45.2	45.9
Vessel without handle		10.5	12	11.2
Poured out		33.6	27.7	30.7
All		100	100	100
4. Percentage of households which covered main container used for storing drinking water				
Households which covered main container used for storing drinking water		98.9	98.6	98.7

3.5 Bathroom

3.5.1 Access of household to bathroom

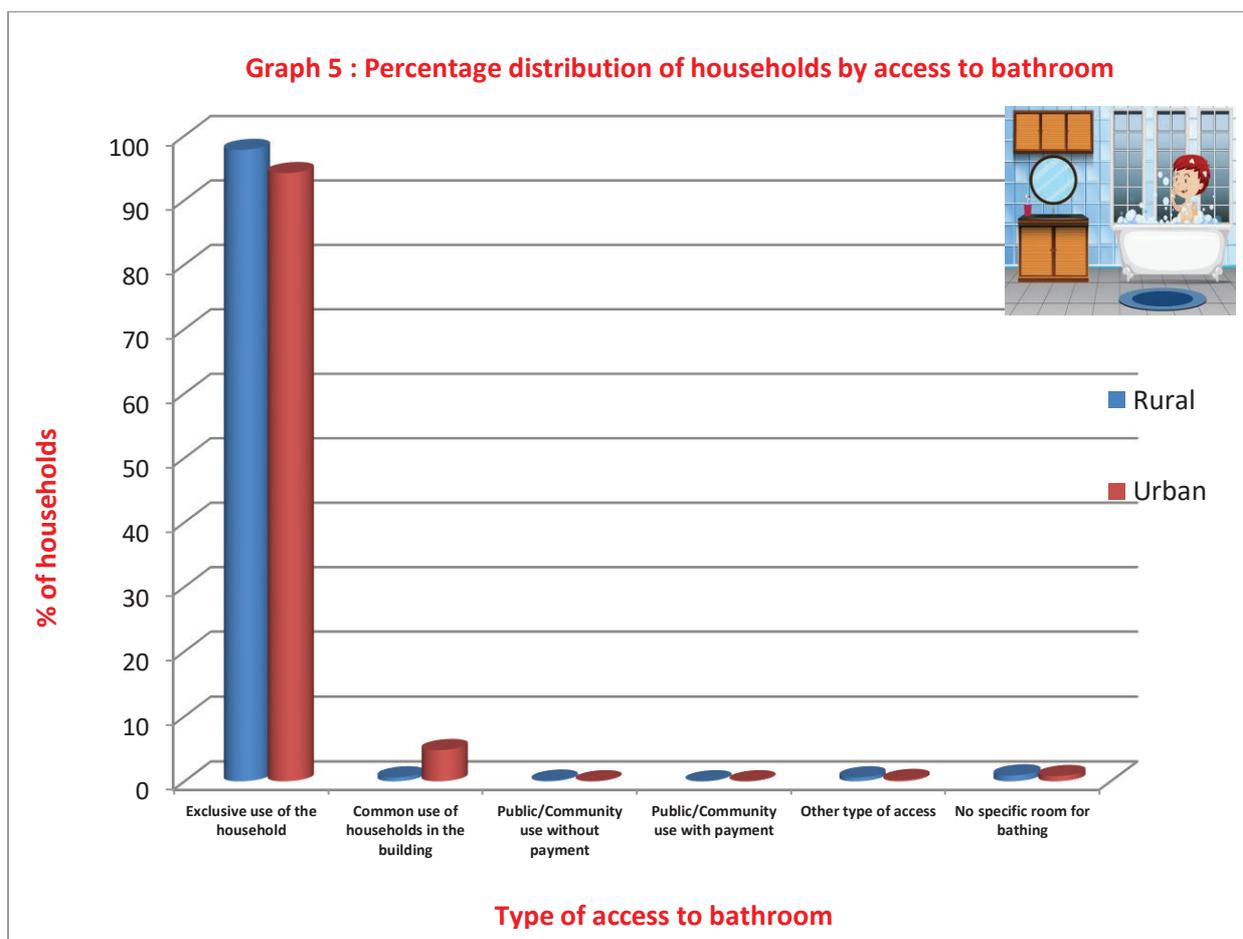
In this survey, a bathing place which satisfied the criteria of a room was considered as a bathroom. It was considered that the household had access to bathroom if majority of the household members could use bathroom facility irrespective of whether it was used by them or not. Information on access to bathroom was collected in terms of six categories viz. (i) exclusive use of household, (ii) common use of households in the building, (iii)

public/community use without payment, (iv) public/community use with payment, (v) others and (vi) no bathroom. The percentage distribution of households, is given in Statement 9.

Statement 9: Percentage distribution of households by access to bathroom

Access to bathroom	Percentage distribution of households		
	Rural	Urban	All
Exclusive use of the household	97.8	94.2	96
Common use of households in the building	0.6	4.8	2.7
Public/Community use without payment	0.1	0.0	0.1
Public/Community use with payment	0.0	0.0	0.0
Other type of access	0.6	0.2	0.4
No specific room for bathing	0.9	0.8	0.9
All	100	100	100

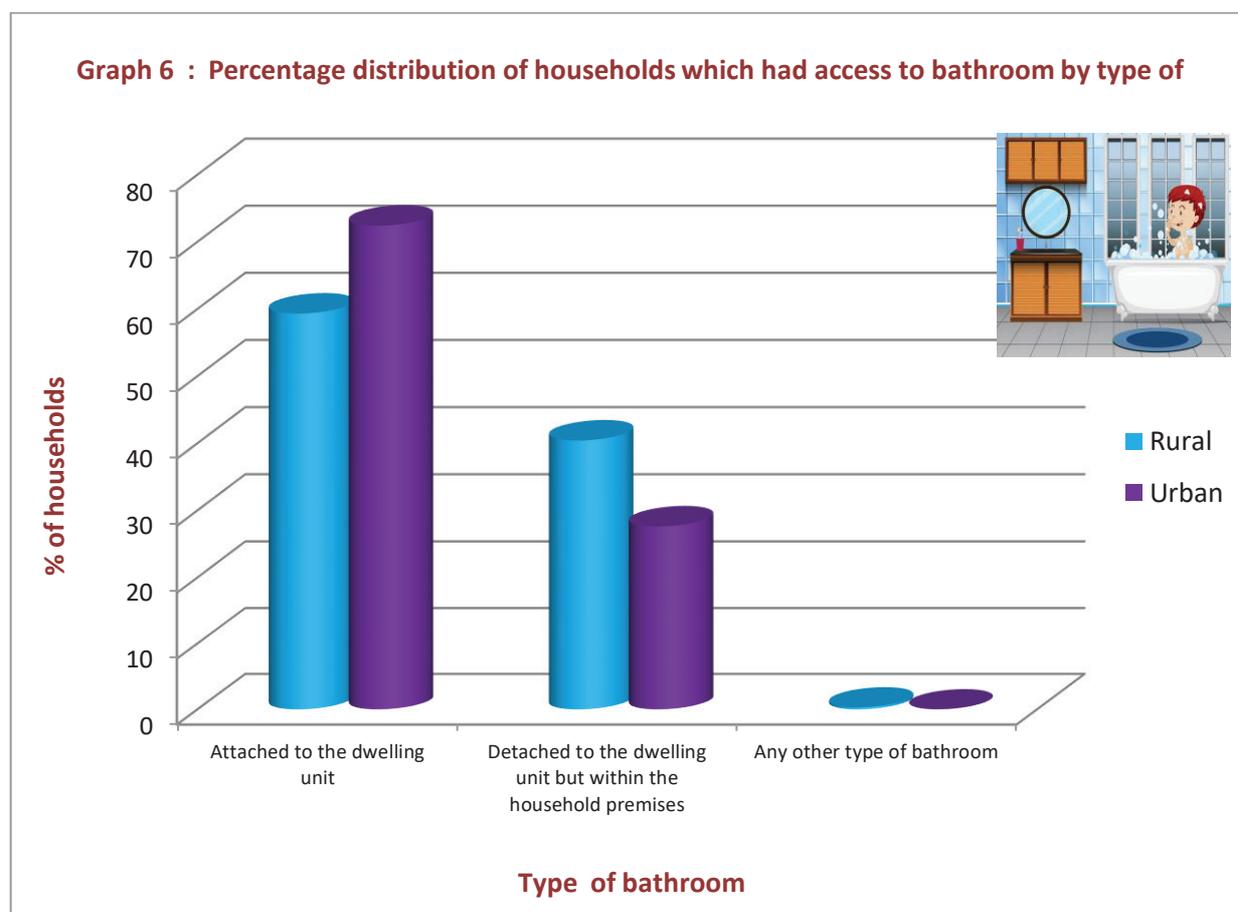
Note: Figure 0.0 indicates negligible percentage of households corresponding to particular type of access to bathroom.



3.5.2. Type of bathroom used by the households

The percentage distribution of households which had access to bathroom by type of bathroom used by them is given below in Statement 10.

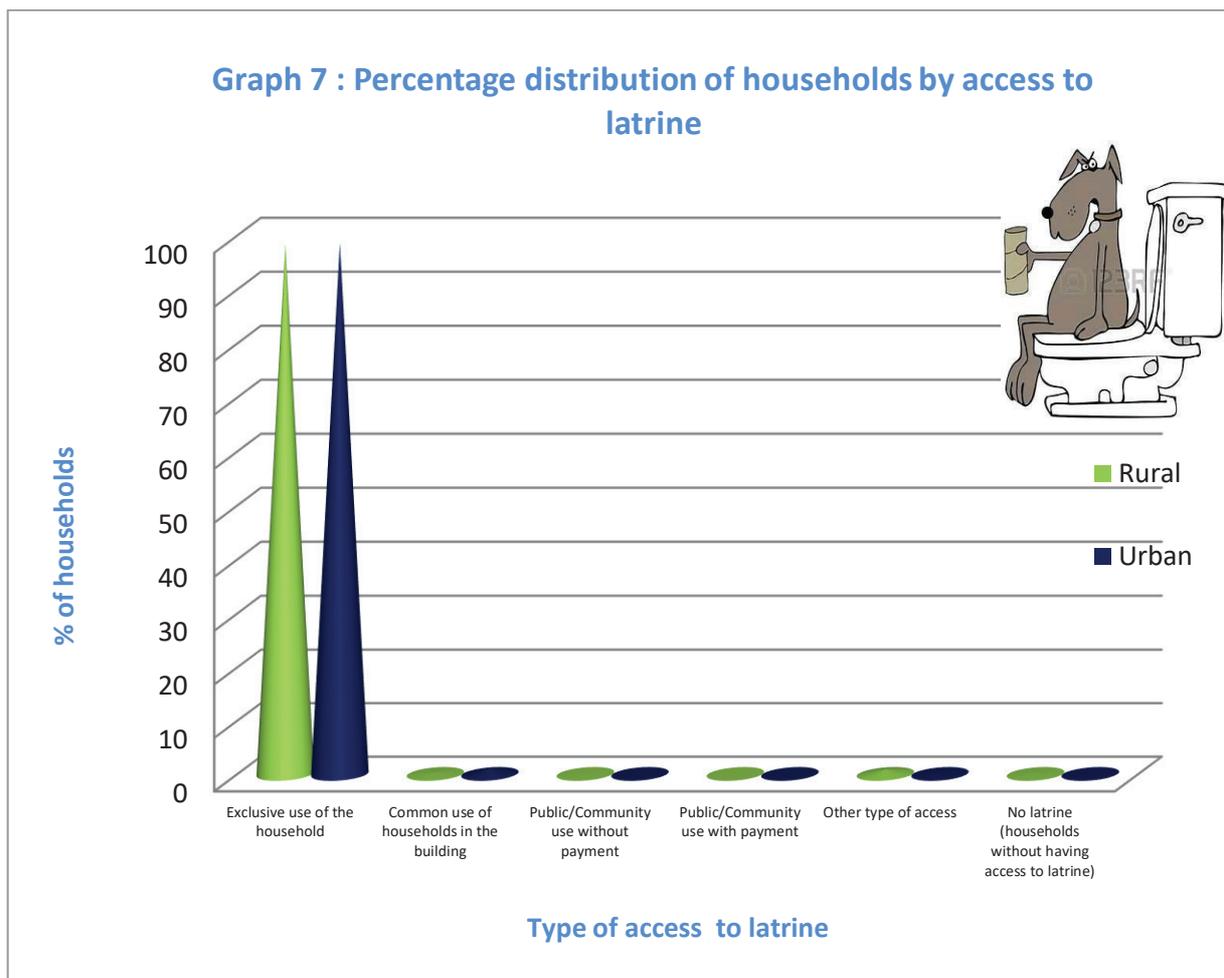
Statement 10: Percentage distribution of households which had access to bathroom by type of bathroom used by them			
Type of bathroom used	Percentage distribution of households		
	Rural	Urban	All
Attached to the dwelling unit	59.3	72.4	65.7
Detached to the dwelling unit but within the household premises	40.4	27.6	34.1
Any other type of bathroom	0.3	0	0.2
Did not used bathroom	0	0	0
All	100	100	100



3.6.1. Access of household to latrine

For the purpose of this survey, it was considered that the household had access to latrine if majority of the household members had the facility of using latrine irrespective of whether it was used by them or not. Information on access to latrine was collected in terms of six categories viz. (i) exclusive use of household, (ii) common use of households in the building, (iii) public/community use without payment, (iv) public/community use with payment, (v) others and (vi) no latrine. A household was categorised as ‘having access to latrine’, if majority of the household members had the facility of using the latrine irrespective of the situation whether they used it or not. The percentage distribution of households, by access to latrine is given below in statement 11 and its pictorial representation is given in Graph 6.

Statement 11: Percentage distribution of households by access to latrine			
Access to latrine	Percentage distribution of households		
	Rural	Urban	All
Exclusive use of the household	98.5	98.6	98.6
Common use of households in the building	0.3	1.1	0.7
Public/Community use without payment	0.1	0	0.1
Public/Community use with payment	0	0	0
Other type of access	0.9	0.2	0.5
Total	99.8	99.9	99.9
No latrine (households without having access to latrine)	0.2	0.1	0.2
All	100	100	100
Note 1: Figure 0.0 indicates negligible percentage of households corresponding to particular type of access to latrine.			



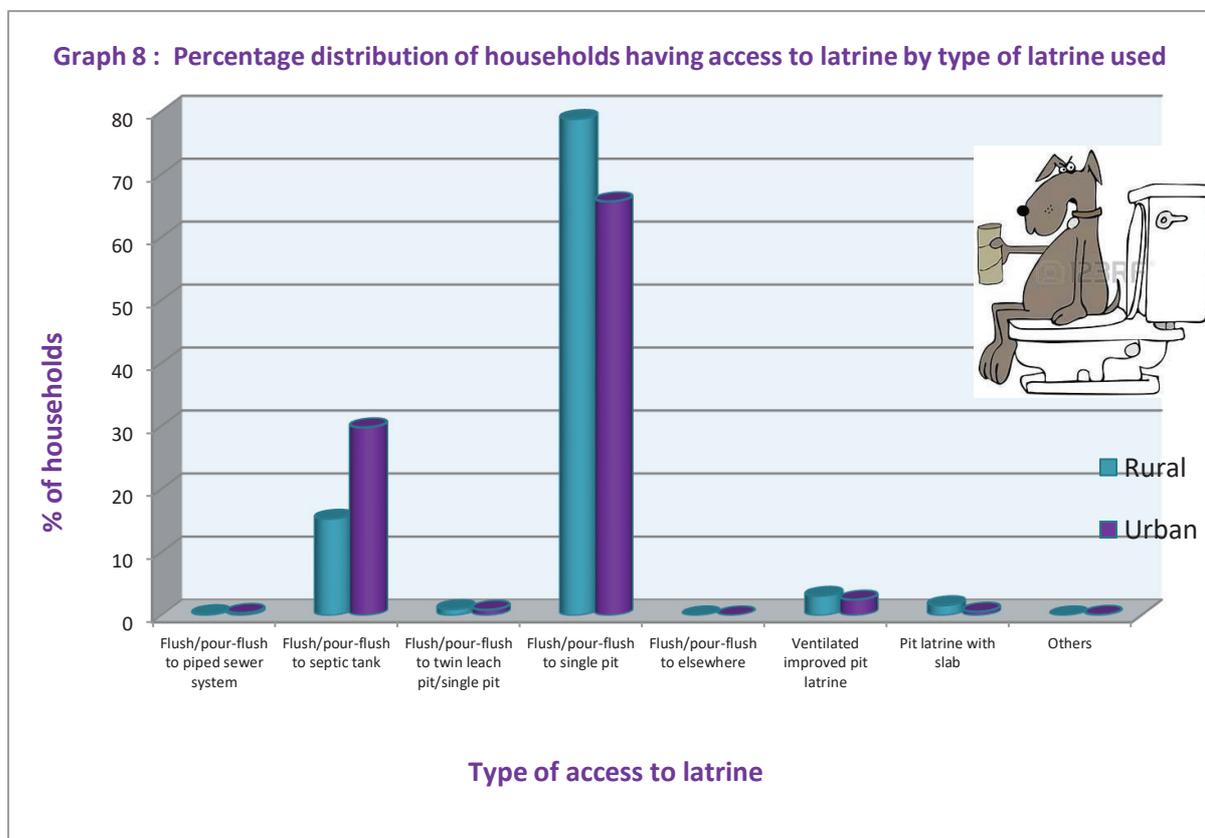
3.6.2 Type of latrine used by the households

For the households with access to latrine, information on type of latrine used by them was collected in this survey in terms of eleven categories viz. (i) flush/pour-flush to piped sewer system, (ii) flush/pour-flush to septic tank, (iii) flush/pour-flush to twin leach pit, (iv) flush/pour-flush to single pit, (v) flush/pour-flush to elsewhere (open drain, open pit, open field, etc.), (vi) ventilated improved pit latrine, (vii) pit latrine with slab, (viii) pit latrine without slab/open pit, (ix) composting latrine, (x) others and not used. It was considered that the household used latrine if latrine was generally used by majority of the household members. The percentage distribution of households having access to latrine by type of latrine used by them is given in Statement 12 and it is pictorially represented in Graph 8.

Statement 12: Percentage distribution of households having access to latrine by type of latrine used by them

Type of latrine used	Percentage distribution of households		
	Rural	Urban	All
Flush/pour-flush to piped sewer system	0.2	0.4	0.3
Flush/pour-flush to septic tank	15.3	29.8	22.5
Flush/pour-flush to twin leach pit/single pit	1	0.9	1
Flush/pour-flush to single pit	78.8	65.7	72.3
Flush/pour-flush to elsewhere	0	0	0
Ventilated improved pit latrine	3.1	2.5	2.8
Pit latrine with slab	1.6	0.6	1.1
Pit latrine without slab/open pit	0	0	0
Composting latrine	0	0	0
Improved latrine	100	99.9	100
Others	0	0.1	0
Not used	0	0	0
All	100	100	100

Note: Figure 0 indicates negligible percentage of households corresponding to particular type of latrine used.



Percentage of households with access to latrine, percentage of households used improved latrine and percentage of households with exclusive access to latrine are given in Statement 13.

Statement 13: Percentage of households with access to latrine, percentage of households used improved latrine and percentage of households with exclusive access to latrine.			
Description of items	Percentage of households		
	Rural	Urban	All
Households having access to latrine	99.8	99.9	99.9
Households used improved latrine	99.8	99.8	99.8
Households having exclusive access to improved latrine	98.5	98.5	98.5

3.6.4. Use of latrine by household members:

If a household member regularly used latrine of any of the types (i) flush/pour-flush to piped sewer system, (ii) flush/pour-flush to septic tank, (iii) flush/pour-flush to twin leach pit, (iv) flush/pour-flush to single pit, (v) ventilated improved pit latrine, (vi) pit latrine with slab and (vii) composting latrine, it was considered that the member had regularly used improved latrine and if that improved latrine was for exclusive use of the household, it was considered that the member had regularly used improved latrine which was for the exclusive use of the household. The percentage of persons (among persons of the households having access to latrine) who regularly used latrine, who regularly used improved latrine and who regularly used improved latrine which was for the exclusive use of the household are given below in Statement 14.

Statement 14: The percentage of persons (among persons of the households having access to latrine) regularly used latrine, regularly used improved latrine and regularly used improved latrine which was for the exclusive use of the household			
Description of item	Percentage of persons of the households having access to latrine		
	Rural	Urban	All
1.Regularly used latrine			
Male	99.1	99.2	99.1
Female	99.2	99.3	99.2
Others	100	100	100
All	99.2	99.2	99.2
2.Regularly used improved latrine			
Male	99.1	99.1	99.1
Female	99.2	99.1	99.1
Others	100	100	100
All	99.2	99.1	99.1
3.Regularly used improved latrine which was for exclusive use of the household			
Male	98.2	98.8	98.5
Female	98.2	98.5	98.4
Others	100	100	100
All	98.2	98.7	98.4

3.6.5. Disposal of faeces of children of age below 3 years

In the survey, information on disposal of faeces of children of age below 3 years was collected in terms of the categories (i) children used latrine, (ii) put/rinsed into latrine, (iii) put/rinsed into drain or ditch, thrown into garbage, (v) thrown or left in open area, (vi) buried, (vii) others and (viii) not applicable. For collecting this information, usual practice of the household for disposal of faeces of children of age below 3 years was considered. If the household did not have any children of age below 3 years, the category 'not applicable' was recorded. The percentage of households having children of age below 3 years and percentage distribution of those households by method of disposal of faeces of children of age below 3 years, at the state is given in Statement 15.

Statement 15: The percentage of persons (among persons of the households having access to latrine) regularly used latrine, regularly used improved latrine and regularly used improved latrine which was for the exclusive use of the household			
Description of item	Rural	Urban	All
1. Percentage of households having children of age below 3 years	10.1	9.8	10
2. Percentage distribution of households having children of age below 3 years by method of disposal of faeces of children of age below 3 years			
Children used latrine	7.3	16.9	11.9
Put/rinsed into latrine	74	68.1	71.2
Put/rinsed into drain or ditch	0.7	2.9	1.8
Thrown into garbage	4.3	1.1	2.7
Thrown or left in open area	7.2	5.7	6.5
Buried	5.2	2.4	3.8
Others	1.2	2.9	2.0
All	100	100	100

3.6.6. Availability of water in or around the latrine used by the household and availability of both bathroom and latrine within the household premises:

For the households which used latrine, information on availability of water in or around the latrine used by the household was collected in terms of the four categories viz. (i) available with soap/detergent, (ii) available with ash/mud/sand etc., (iii) only water is available and (iv) not available. The percentage distribution of households by availability of water in or around the latrine used is given in Statement 16. Percentage of households in Kerala having bathroom and latrine both within the household premises is also given in this statement.

Statement 16: Percentage distribution of households by availability of water in or around the latrine used and percentage of households having bathroom and latrine both within the household premises.

Description of item		Rural	Urban	All
1. Percentage distribution of households by availability of water in or around the latrine used	Water was available with soap/detergent	79.7	83.7	81.7
	Water was available with ash/mud/sand etc.	0.1	0.3	0.2
	Only water was available	20	16	18
	Water was not available	0.2	0.1	0.1
	All	100	100	100
2. Percentage of households having both bathroom and latrine within the household premises		96.8	96.1	96.4

3.7. Practice of Hand Washing

Practice of hand washing by household members

In the survey, it was considered that the households followed the practice of hand washing if majority of the household members usually washed their hands. Information on practice of hand washing before meal and practice of hand washing after defecation was collected in this survey in terms of the four categories viz. (i) wash hands with water and soap/detergent, (ii) wash hands with water and ash/mud/sand etc., (iii) wash hands with water only and (iv) do not wash hands. The percentage distribution of households in Kerala by practice of hand washing before meal is given in the Statement 17. The percentage distribution of households in Kerala by practice of hand washing after defecation is given in this statement.

Statement 17: Percentage distribution of households by practice of hand washing before meal and percentage distribution of households by practice of hand washing after defecation				
Description of item		Percentage distribution of households		
		Rural	Urban	All
1.Practice of hand washing before meal	Wash hands with water and soap/detergent	48.7	56.2	52.4
	Wash hands with water and ash/mud/sand etc,	0.1	0.2	0.2
	Wash hands with water only	51.2	43.6	47.5
	All	100	100	100
2.Practice of hand washing after defecation	Wash hands with water and soap/detergent	82.3	89.8	86
	Wash hands with water and ash/mud/sand etc,	0.1	0.1	0.1
	Wash hands with water only	17.6	10.2	14
	Do not wash hands	0	0	0
	All	100	100	100

Note: Figure 0.0 indicates negligible percentage of households corresponding to particular category of practice of hand washing after defecation

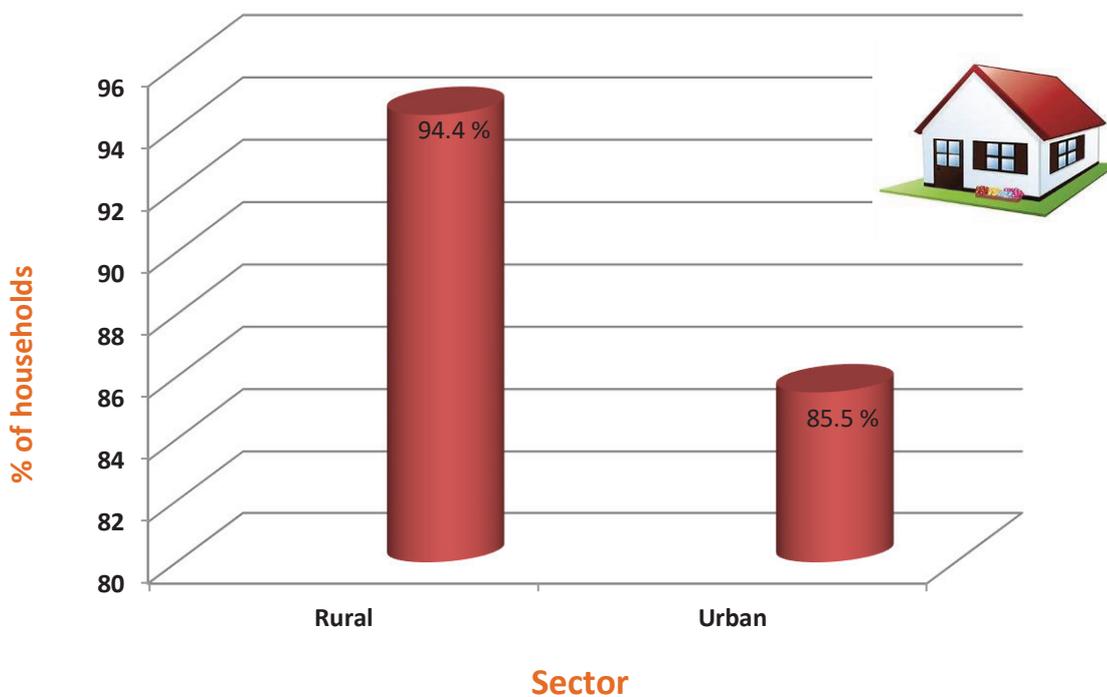
3.8. Tenorial status of dwelling unit

The percentage distribution of households by tenorial status of dwelling unit, in Kerala, is given in Statement 18. A pictorial representation of the percentage of households with owned dwelling units in Rural and Urban Kerala is given in graph 9.

Statement 18: Percentage distribution of households by tenurial status of dwelling unit in Kerala

Description of item	Percentage distribution of households	Rural	Urban	All
Tenurial status of dwelling unit	Owned: Freehold	93.7	84	88.9
	Owned: Leasehold	0.7	1.5	1.1
	Owned	94.4	85.5	90
	Hired: Employer quarter	0.1	1.7	0.9
	Hired dwelling units with written contract	3.2	9.2	6.1
	Hired dwelling units without written contract	1.2	2.5	1.9
	Hired	4.5	13.4	8.9
	Others	1.1	1.1	1.1
	All	100	100	100

Graph 9 : Percentage of households with owned dwelling unit



3.9. Use and Condition of structure of House

The percentage distributions of households living in houses by use of house, condition of structure of house and number of floors of the house, is given in Statement 19.

Statement 19: Percentage distributions of households living in houses by use of house, condition of structure of house and number of floors of the house			
Description of item	Percentage distribution of households		
	Rural	Urban	All
1. Use of house			
Residential only	98.3	98.6	98.5
Residential-cum-commercial	1	1.2	1.1
Residential-cum-others	0.7	0.2	0.4
All	100	100	100
2. Condition of structure of house			
Good	64.3	73.7	68.9
Satisfactory	30.5	21.8	26.2
Bad	5.2	4.5	4.9
All	100	100	100
3. Number of floors of the house			
One	81.2	67.3	74.3
Two	18.7	29.9	24.3
Three or more	0.1	2.8	1.4
All	100	100	100

3.10. Structure and Ventilation of the dwelling unit

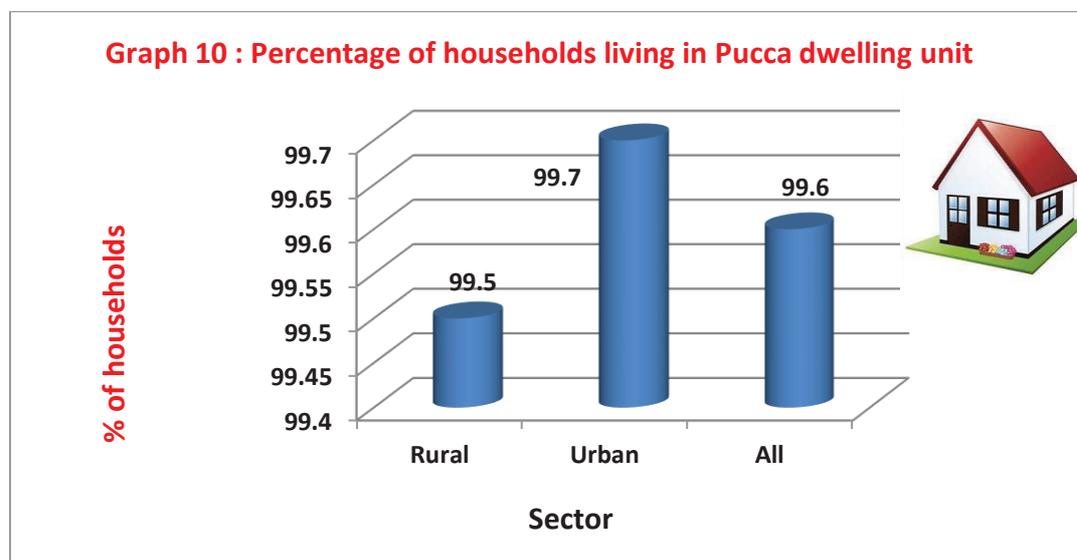
3.10.1. The percentage distributions of households, in Kerala, living in houses by type of the dwelling unit, type of structure of the dwelling unit and type of ventilation of the dwelling unit is given in Statement 20.

Statement 20: Percentage distributions of households living in houses by type of the dwelling unit, type of structure of the dwelling unit and type of ventilation of the dwelling unit			
Description of item	Percentage distribution of households		
	Rural	Urban	All
1.Type of dwelling unit			
Independent house	99	93.7	96.3
Flat	0.3	5	2.6
Others	0.7	1.3	1.1
All	100	100	100
2.Type of structure of the dwelling unit	Rural	Urban	All
Pucca	89.1	90.2	89.6
Semi-pucca	10.4	9.5	10
Serviceable katcha	0.4	0.2	0.3
Unserviceable katcha	0	0	0
All katcha	0.1	0.1	0.1
All	100	100	
3.Type of Ventilation of the dwelling unit	Rural	Urban	All
Good	66.9	77.8	72.3
Satisfactory	29.4	20.1	24.8
Bad	3.7	2.1	2.9
All	100	100	100

3.10.2. The Percentage distributions of households living in pucca/katcha houses and percentage of households with good ventilation of dwelling unit in Kerala are given in Statement 21.

Statement 21: Percentage of households living in pucca/katcha houses and percentage of households with good ventilation of dwelling unit in Kerala			
Description of items	Percentage of households		
	Rural	Urban	All
Households living in pucca dwelling unit	99.5	99.7	99.6
Households living in katcha dwelling unit	0.4	0.2	0.3
Households with good ventilation of dwelling unit	66.9	77.8	72.3

3.10.3. The pictorial representation of the percentage of households living in Pucca dwelling units in Rural and Urban Kerala is given in chart 10.



3.11. Plinth level, Floor area, Number of rooms, Number of married couples with separate room

For the households living in houses, the average plinth level of the house, average floor area of the dwelling unit, average number of living rooms and other rooms of the dwelling unit, average number of married couples per household and percentage of households where married couples got separate rooms, average monthly rent paid for hired dwelling unit, in Kerala are given in Statement 22.

Statement 22: Average plinth level of the house, average floor area of the dwelling unit, average number of living/other rooms of the dwelling unit, average number of married couples per household and percentage of households where all married couples got separate rooms, average monthly rent paid for hired dwelling unit

Sl No	Description of item	Rural	Urban	All
1	Average plinth level of the house (in mtr.)	0.5	0.46	0.48
2	Average floor area of the dwelling unit (in sq. mtr.)	85.15	93.89	89.46
3	Average number of living rooms of the dwelling unit	3.83	3.98	3.9
4	Average number of other rooms of the dwelling unit	2.84	3.44	3.14
5	Average number of married couples per households	0.9	0.9	0.9
6	Percentage of households where all married couples got separate rooms	95.5	92.3	93.9
7	Average monthly rent (Rs.) paid for hired dwelling unit	2519.8	4046.6	3650.4

3.13. Period since the dwelling unit was built, Amount spent on construction/first-hand purchase of houses/flats for residential purpose and Sources of finance

The Percentage of households which spent any amount on construction/first-hand purchase of houses/flats for residential purpose during last 365 days, average amount spent per household and percentage of households which financed the amount from different sources among the households which spent any amount on construction/first-hand purchase of houses/flats for residential purpose during last 365 days in Kerala are given in Statement 23.

Statement 23: Percentage of households which spent any amount on construction/first-hand purchase of houses/flats for residential purpose during last 365 days, average amount spent per household and percentage of households which financed the amount from different sources among the households which spent any amount on construction/first-hand purchase of houses/flats for residential purpose during last 365 days			
Description of item	Rural	Urban	All
1. Percentage of households which spent any amount on construction/first-hand purchase of houses/flats for residential purpose during last 365 days	6.8	7.1	6.9
2. Average amount (Rs.) spent per household	365409	611998	489541
3. Percentage of households by major sources of finance among the households which spent any amount on construction/first-hand purchase of houses/flats for residential purposes during last 365 days			
Own source	71.1	80.3	75.7
Government	15.3	7.9	11.6
Bank	51.3	42.9	47.1
Insurance	0	0.6	0.3
Provident Fund	2.6	2.6	2.6
Financial corporation/ Institution	1.7	1.1	1.4
Other Institutional agency	2.2	9.2	5.7
Self help group	9.5	2.8	6.2
Money lender	0	5.4	2.7
Friends and relatives	20.2	15.2	17.7
Other non-institutional agencies	2.4	1.6	2

3.14. Drainage system of the household, Disposal of household waste water and garbage, Problems of flies/mosquitoes faced by the household and specific types of illness suffered by household members.

3.14.1 For the households living in houses, percentage distribution of households by type of drainage system of the household, by system of disposal of household waste water, by place of disposal of household garbage and by the agency made arrangement for collection of garbage of household, at the state level, are given in Statement 24.

Statement 24: Percentage distribution of households living in houses by type of drainage system of the household, by system of disposal of household waste water, by place of disposal of household garbage, by the agency made arrangement for collection of household garbage				
Description of items		Rural	Urban	All
1. Percentage distribution of households living in houses by type of drainage system of the household				
Underground		16.2	30.4	23.2
Covered pucca		26.3	31.4	28.8
Open pucca		9.4	10.7	10
Open katcha		10.4	8.6	9.5
No drainage (no formal system of carrying off household waste water and liquid waste)		37.7	18.9	28.5
All		100	100	100
2. Percentage distribution of households living in houses by system of disposal of household waste water				
Safe re-use after treatment		0	0.3	0.1
Disposed of without treatment to	Drainage system	12.4	18.5	15.4
	Open low land areas/streets	18.5	20.1	19.4
	Pond	0.1	0.2	0.2
	Nearby river/nalla	1	1.1	1
Disposed of with or without treatment to other places		67.3	59	63.2
Not known to the household		0.7	0.8	0.7
All		100	100	100
3. Percentage distribution of households living in houses by place of disposal of household garbage				
Bio-gas plant or manure pit		2.9	1.9	2.4
Household's individual dumping spot		63.9	46.9	55.5
Disposed to	Community dumping spot	0.3	1.9	1.1
	Common place other than community dumping spot	1.3	8	4.8
	Other places	31.6	40.7	35.9
Not known to the household		0	0.6	0.4
All		100	100	100
4. Percentage distribution of households living in houses by agency made arrangement for collection of household garbage				
Panchayat/municipality/corporation		4.4	14.1	9.2
Resident/group of residents		0.1	1.9	1
Others		0.8	2.6	1.7
Not known to the household		1.8	2.2	2
No agency for collection of household garbage		92.9	79.2	86.1
All		100	100	100

3.14.2. For the households living in houses, percentage of households which faced problem of stagnant water in or around the household premises, households which faced problem of flies and mosquitoes during last 365 days, households with direct opening to approach road/lane/constructed path to the house, households which experienced flood during last 5 years and households which reported specific type of illness suffered by household members, are given in Statement 25.

Statement 25: Percentage of households which faced problem of stagnant water in or around the household premises, problem of flies and mosquitoes during last 365 days, percentage of households with direct opening to approach road/lane/constructed path to the house, percentage of households which experienced flood during last 5 years and which reported specific type of illness suffered by household members

Description of items	Rural	Urban	All
1. Percentage of households living in houses faced problem of stagnant water in or around the household premises	3.7	8	5.8
2. Percentage of households faced problem of flies/mosquitoes			
Severe problem	15.5	23.4	19.4
Moderate problem	77.7	69.6	73.7
Faced problem	93.2	93	93.1
3. Percentage of households reported that efforts were made by the local Bodies/ State Government to tackle problem of flies/mosquitoes	19	18.1	18.6
4. Percentage of households reported that efforts were made by the household to tackle problem of flies/mosquitoes	89.6	84.6	87.1
5. Percentage of households reported specific types of illness suffered by any of the household members during last 365 days			
Stomach problems like diarrhea/dysentery/cholera	1.7	3.4	2.6
Malaria/dengue/chikungunya/encephalitis	2.6	1.9	2.3
Skin diseases	2.8	2.3	2.6
Jaundice	1	0.5	0.8
Other diseases	11.7	7.5	9.6

3.14.3. The percentage of households having drainage facility, percentage of households having electricity for domestic use and percentage of households with direct opening of approach road/lane/constructed path to the house are given in Statement 26.

Statement 26: Percentage of households having drainage facility, percentage of households having electricity for domestic use and percentage of households with direct opening of approach road/lane/constructed path to the house.

Description of items	Percentage of households		
	Rural	Urban	All
Households having drainage facility	62.3	81.1	71.6
Households having electricity for domestic use	99.3	99.7	99.5
Households with direct opening of road/lane/constructed approach path to the house	92.9	95.6	94.2

3.15 Benefits received by the households from Government Schemes for different facilities

3.15.1 In this survey, information on whether the household had ever received any benefit from government schemes for the facilities of drinking water, sanitation, housing, electrifications and LPG connection was collected. For those households which had ever received any benefit from government schemes, information was collected on whether they also received such benefit during last three years and if they received any benefit during last three years, information on the scheme from which the household got maximum benefit was collected. Percentage of households ever received any benefit from government schemes, percentage of households received any benefit from government schemes during last three years and percentage distribution of households by the scheme from which they had received maximum benefit during last three years are given below in Statement 27, at the state level, for each of drinking water, sanitation, housing, electrifications and LPG connection facilities.

Statement 27: Percentage of households ever received any benefit from government schemes, received any benefit from government schemes during the last three years, percentage distribution of households by the scheme from which they had received maximum benefit during last three years

Description of item	Percentage of households		
	Rural	Urban	All
1. Drinking water facility			
<i>Ever received any benefit</i>	3.7	1.9	2.8
<i>Received any benefit during last 3 years</i>	0.9	0.6	0.8
Schemes from which maximum benefit was received during last 3 years			
National Rural Drinking Water Programme (NRDWP)			
Atal Mission for Rejuvenation and Urban Transformation (AMRUT)			
Other scheme	60.8	75.4	66.5
Smart City Mission			
Not known	39.2	24.6	33.5

Description of item	Percentage of households		
	Rural	Urban	All
2. Sanitation facility			
Ever received any benefit	7.9	2.6	5.3
Received any benefit during last 3 years	2.1	0.6	1.4
Distribution by schemes from which maximum benefit was received during last 3 years			
Swachh Bharat Mission (SBM)	7.5	51.7	17.5
Atal Mission for Rejuvenation and Urban Transformation (AMRUT)			
Smart City Mission			
Other scheme	45.9	7.9	37.3
Not known	46.6	40.4	45.2
3. Housing facility			
Ever received any benefit	16.6	7.8	12.3
Received any benefit during last 3 years	3.9	1.5	2.7
Distribution by schemes from which maximum benefit was received during last 3 years			
Pradhan Mantri Awaas Yojana (PMAY)	34.5	21.5	30.9
Other scheme	55.6	64.7	58.2
Not known	9.9	13.8	11
4. Electrification facility			
Ever received any benefit	4.3	3.3	3.8
Received any benefit during last 3 years	0.2	0.7	0.4
Distribution by schemes from which maximum benefit was received during last 3 years			
Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY)	54.4	0	11.6
Other scheme	1.2	81.6	64.5
Not known	44.4	18.4	23.9
5. LPG connection facility			
Ever received any benefit	6.6	3.5	5.1
Received any benefit during last 3 years	2.1	1.2	1.7
Distribution by schemes from which maximum benefit was received during last 3 years			
Pradhan Mantri Ujjwala Yojana (PMUY)	37.4	9.7	27.3
Other scheme	40.6	40.5	40.6
Not known	22	49.8	32.1

3.16. Duration of stay of the household in the present area of enumeration, Reason for movement of the household to the present area and Last place of residence of the households before coming to the present area

3.16.1. In this survey, present area of enumeration of the household was considered as the area where the household was enumerated and it was classified as notified slum, non-notified slum, squatter settlements and other areas. Percentage of urban households with duration of stay in the present area less than one year, percentage distribution of such households by place of

residence before coming to the present area and by reason for movement to the present area are given below in Statement 28,

Statement 28: Percentage of urban households with duration of stay in the present area less than one year, percentage distribution of such households by place of residence before coming to the present area and by reason for movement to the present area					
Description of item	Present area of the urban household				
	Notified Slum	Non- notified slum	Squatter settlement	Other areas	All
1. Percentage of households with duration of stay in the present area less than one year	0	0	1.5	98.5	100
2. Percentage distribution of households with duration of stay in the present area less than one year by place of residence before coming to the present area					
Last place of residence					
Slum/squatter settlement of the same town	0	0	0	3.5	3.4
In other areas of the same town	0	0	0	44.3	43.7
Slum/squatter settlement of the other town	0	0	0	2.6	2.6
In other areas of the other town	0	0	82.9	39	39.7
Village	0	0	17.1	10.6	10.6
All	0	0	100	100	100
3. Percentage distribution of households with duration of stay in the present area less than one year by reason for movement to the present area					
Reason for movement					
Free/low rent	0	0	0	3.5	3.5
Independent accommodation	0	0	0	16.8	16.5
Accommodation in better locality	0	0	0	9.3	9.2
Proximity to place of work	0	0	100	21.2	22.3
Other employment related reasons	0	0	0	1	0.9
Others	0	0	0	48.2	47.5
All	0	0	100	100	100
<i>Note: Figure 0.0 indicates negligible percentage of households corresponding to particular category of last place of residence and reason for movement to the present area.</i>					

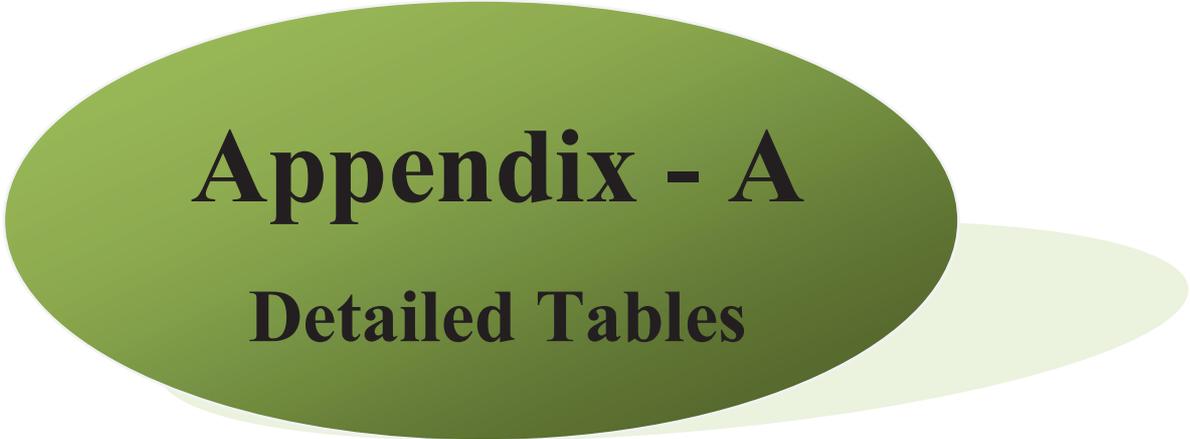
3.17. Possession of documents pertaining to residence status, Type of Benefits received as slum/squatter settlements dwellers and Reason for trying to move out of the present area of enumeration of households living in slum/squatter settlements

For the households living in slum/squatter settlements, the percentage distribution of households by possession of documents pertaining to residence status by the head of household, percentage distribution of households by type of benefits received as slum/squatter settlement dweller and percentage of households which tried to move out of the present slum/squatter settlements along with the distribution of such households by main reason for trying to move out, for each category of notified slum/non-notified slum/squatter settlements are given below in Statement 29.

Statement 29: Percentage distribution of households living in slum/squatter settlements by possession of documents, by type of benefit received, percentage of households which tried to move out of the present slum/squatter settlements and percentage distribution of households which tried to move out of the present slum/squatter settlements by main reason for trying to move out of the present slum/squatter settlement.

Description of item	Present area of enumeration of urban household		
	Notified Slum	Non- notified slum	Squatter settlement
Possession of documents			
Ration card	26.4	55.8	62.8
Voter ID card	0	0	29.4
Passport	0	0	0
Any combination of ration card/ voter ID card/ passport	47.1	0	7.9
Other	0	0	0
None	26.4	44.2	0
All	100	100	100





Appendix - A

Detailed Tables

Table 1: Number of first stage units (FSUs) allotted, surveyed and number of sample households surveyed									
State	Rural		number of households surveyed	Urban		number of households surveyed	rural + urban		
	number of FSUs			number of FSUs			number of FSUs		number of households surveyed
	allotted	surveyed		allotted	surveyed		allotted	surveyed	
Kerala	142	142	1652	142	142	1703	284	284	3355

Table 2: Estimated number of persons (00) and average household size (0.0).										
Sector : Rural	Religion : Hinduism									
state	estd. number of persons (00)			number of households		average	sample no. of persons			
	male	female	all	estd. (00)	sample	household size (0.0)	male	female	transgender	all
Kerala	45959	48009	93988	24729	974	3.8	1824	1902	2	3728

Table 2: Estimated number of persons (00) and average household size (0.0).										
Sector : Rural	religion: Islam									
state	estd. number of persons (00)			number of households		average	sample no. of persons			
	male	female	all	estd. (00)	sample	household size (0.0)	male	female	transgender	all
Kerala	16749	19133	35882	8123	328	4.4	696	772	0	1468

Table 2: Estimated number of persons (00) and average household size (0.0).										
Sector : Rural	religion: Christianity									
state	estd. number of persons (00)			number of households		average	sample no. of persons			
	male	female	all	estd. (00)	sample	household size (0.0)	male	female	transgender	all
Kerala	15299	16091	31390	8427	297	3.7	541	562	0	1103

Table 2: Estimated number of persons (00) and average household size (0.0).										
Sector : Rural	religion: Sikhism									
state	estd. number of persons (00)			number of households		average	sample no. of persons			
	male	female	all	estd. (00)	sample	household size (0.0)	male	female	transgender	all
Kerala	164	196	360	132	3	2.7	4	4	0	8

Table 2: Estimated number of persons (00) and average household size (0.0).										
Sector : Rural	religion: Others									
state	estd. number of persons (00)			number of households		average	sample no. of persons			
	male	female	all	estd. (00)	sample	household size (0.0)	male	female	transgender	all
Kerala	2211	1987	4198	1070	50	3.9	101	90	0	191

Table 2: Estimated number of persons (00) and average household size (0.0).										
Sector : Rural	religion: all									
state	estd. number of persons (00)			number of households		average	sample no. of persons			
	male	female	all	estd. (00)	sample	household size (0.0)	male	female	transgender	all
Kerala	80382	85416	165818	42481	1652	3.9	3166	3330	2	6498

Table 2: Estimated number of persons (00) and average household size (0.0).										
Sector : Urban	religion: Hinduism									
state	estd. number of persons (00)			number of households		average	sample no. of persons			
	male	female	all	estd. (00)	sample	household size (0.0)	male	female	transgender	all
Kerala	39091	43351	82445	22865	928	3.6	1602	1811	1	3414

Table 2: Estimated number of persons (00) and average household size (0.0).										
Sector : Urban	religion: Islam									
state	estd. number of persons (00)			number of households		average	sample no. of persons			
	male	female	all	estd. (00)	sample	household size (0.0)	male	female	transgender	all
Kerala	19583	22257	41840	9602	439	4.4	923	1045	0	1968

Table 2: Estimated number of persons (00) and average household size (0.0).										
Sector : Urban	religion: Christianity									
state	estd. number of persons (00)			number of households		average	sample no. of persons			
	male	female	all	estd. (00)	sample	household size (0.0)	male	female	transgender	all
Kerala	11713	13314	25027	7209	280	3.5	469	522	0	991

Table 2: Estimated number of persons (00) and average household size (0.0).										
Sector : Urban	religion: Sikhism									
state	estd. number of persons (00)			number of households		average	sample no. of persons			
	male	female	all	estd. (00)	sample	household size (0.0)	male	female	transgender	all
Kerala	115	130	245	62	2	3.9	2	5	0	7

Table 2: Estimated number of persons (00) and average household size (0.0).										
Sector : Urban	religion:others									
state	estd. number of persons (00)			number of households		average	sample no. of persons			
	male	female	all	estd. (00)	sample	household size (0.0)	male	female	transgender	all
Kerala	2839	2938	5777	1546	54	3.7	96	102	0	198

Table 2: Estimated number of persons (00) and average household size (0.0).										
Sector : Urban	religion: all									
state	estd. number of persons (00)			number of households		average	sample no. of persons			
	male	female	all	estd. (00)	sample	household size (0.0)	male	female	transgender	all
Kerala	73340	81990	155333	41285	1703	3.8	3092	3485	1	6578

Table 2: Estimated number of persons (00) and average household size (0.0).										
Sector : All	religion: Hinduism									
state	estd. number of persons (00)			number of households		average	sample no. of persons			
	male	female	all	estd. (00)	sample	household size (0.0)	male	female	transgender	all
Kerala	85050	91360	176433	47594	1902	3.7	3426	3713	3	7142

Table 2: Estimated number of persons (00) and average household size (0.0).										
Sector : All	religion: Islam									
state	estd. number of persons (00)			number of households		average	sample no. of persons			
	male	female	all	estd. (00)	sample	household size (0.0)	male	female	transgender	all
Kerala	36331	41390	77721	17725	767	4.4	1619	1817	0	3436

Table 2: Estimated number of persons (00) and average household size (0.0).										
Sector : All	religion: Christianity									
state	estd. number of persons (00)			number of households		average	sample no. of persons			
	male	female	all	estd. (00)	sample	household size (0.0)	male	female	transgender	all
Kerala	27012	29405	56417	15636	577	3.6	1010	1084	0	2094

Table 2: Estimated number of persons (00) and average household size (0.0).										
Sector : All	religion: Sikhism									
state	estd. number of persons (00)			number of households		average	sample no. of persons			
	male	female	all	estd. (00)	sample	household size (0.0)	male	female	transgender	all
Kerala	279	326	605	194	5	3.1	6	9	0	15

Table 2: Estimated number of persons (00) and average household size (0.0).										
Sector : All	religion: others									
state	estd. number of persons (00)			number of households		average	sample no. of persons			
	male	female	all	estd. (00)	sample	household size (0.0)	male	female	transgender	all
Kerala	5051	4924	9975	2617	104	3.8	197	192	0	389

Table 2: Estimated number of persons (00) and average household size (0.0).										
Sector : All	religion: all									
state	estd. number of persons (00)			number of households		average	sample no. of persons			
	male	female	all	estd. (00)	sample	household size (0.0)	male	female	transgender	all
Kerala	153722	167406	321151	83766	3355	3.8	6258	6815	3	13076

Table 2: Estimated number of persons (00) and average household size (0.0).										
Sector : Rural	social group: ST									
state	estd. number of persons (00)			number of households		average	sample no. of persons			
	male	female	all	estd. (00)	sample	household size (0.0)	male	female	transgender	all
Kerala	1528	1304	2832	751	26	3.8	54	46	0	100

Table 2: Estimated number of persons (00) and average household size (0.0).										
Sector : Rural	social group: SC									
state	estd. number of persons (00)			number of households		average	sample no. of persons			
	male	female	all	estd. (00)	sample	household size (0.0)	male	female	transgender	all
Kerala	8804	8781	17585	4532	189	3.9	370	376	0	746

Table 2: Estimated number of persons (00) and average household size (0.0).										
Sector : Rural	social group: OBC									
state	estd. number of persons (00)			number of households		average	sample no. of persons			
	male	female	all	estd. (00)	sample	household size (0.0)	male	female	transgender	all
Kerala	48803	51319	100123	24800	986	4	1953	2051	1	4005

Table 2: Estimated number of persons (00) and average household size (0.0).										
Sector : Rural	social group:others									
state	estd. number of persons (00)			number of households		average	sample no. of persons			
	male	female	all	estd. (00)	sample	household size (0.0)	male	female	transgender	all
Kerala	21247	24012	45277	12398	451	3.7	789	857	1	1647

Table 2: Estimated number of persons (00) and average household size (0.0).										
Sector : Rural	social group: all									
state	estd. number of persons (00)			number of households		average	sample no. of persons			
	male	female	all	estd. (00)	sample	household size (0.0)	male	female	transgender	all
Kerala	80382	85416	165818	42481	1652	3.9	3166	3330	2	6498

Table 2: Estimated number of persons (00) and average household size (0.0).										
Sector : Urban	social group: ST									
state	estd. number of persons (00)			number of households		average	sample no. of persons			
	male	female	all	estd. (00)	sample	household size (0.0)	male	female	transgender	all
Kerala	287	275	562	175	8	3.2	11	12	0	23

Table 2: Estimated number of persons (00) and average household size (0.0).										
Sector : Urban	social group: SC									
state	estd. number of persons (00)			number of households		average	sample no. of persons			
	male	female	all	estd. (00)	sample	household size (0.0)	male	female	transgender	all
Kerala	5786	6410	12196	3067	126	4	234	261	0	495

Table 2: Estimated number of persons (00) and average household size (0.0).										
Sector : Urban	social group: OBC									
state	estd. number of persons (00)			number of households		average	sample no. of persons			
	male	female	all	estd. (00)	sample	household size (0.0)	male	female	transgender	all
Kerala	47973	52749	100725	25645	1088	3.9	2070	2329	1	4400

Table 2: Estimated number of persons (00) and average household size (0.0).										
Sector : Urban	social group: others									
state	estd. number of persons (00)			number of households		average	sample no. of persons			
	male	female	all	estd. (00)	sample	household size (0.0)	male	female	transgender	all
Kerala	19294	22557	41850	12398	481	3.4	777	883	0	1660

Table 2: Estimated number of persons (00) and average household size (0.0).										
Sector : Urban	social group: all									
state	estd. number of persons (00)			number of households		average	sample no. of persons			
	male	female	all	estd. (00)	sample	household size (0.0)	male	female	transgender	all
Kerala	73340	81990	155333	41285	1703	3.8	3092	3485	1	6578

Table 2: Estimated number of persons (00) and average household size (0.0).										
Sector : All	social group: ST									
state	estd. number of persons (00)			number of households		average	sample no. of persons			
	male	female	all	estd. (00)	sample	household size (0.0)	male	female	transgender	all
Kerala	1815	1579	3394	927	34	3.7	65	58	0	123

Table 2: Estimated number of persons (00) and average household size (0.0).										
Sector : All	social group: SC									
state	estd. number of persons (00)			number of households		average	sample no. of persons			
	male	female	all	estd. (00)	sample	household size (0.0)	male	female	transgender	all
Kerala	14590	15192	29781	7599	315	3.9	604	637	0	1241

Table 2: Estimated number of persons (00) and average household size (0.0).										
Sector : All	social group: OBC									
state	estd. number of persons (00)			number of households		average	sample no. of persons			
	male	female	all	estd. (00)	sample	household size (0.0)	male	female	transgender	all
Kerala	96777	104067	200848	50445	2074	4	4023	4380	2	8405

Table 2: Estimated number of persons (00) and average household size (0.0).										
Sector : All	social group: others									
state	estd. number of persons (00)			number of households		average	sample no. of persons			
	male	female	all	estd. (00)	sample	household size (0.0)	male	female	transgender	all
Kerala	40541	46568	87128	24796	932	3.5	1566	1740	1	3307

Table 2: Estimated number of persons (00) and average household size (0.0).										
Sector : All	social									
state	estd. number of persons (00)			number of households		average	sample no. of persons			
	male	female	all	estd. (00)	sample	household size (0.0)	male	female	transgender	all
Kerala	153722	167406	321151	83766	3355	3.8	6258	6815	3	13076

Table 3: Percentage of households who spent some amount for construction or first-hand purchase of houses/flats for residential purpose during last 365 days, average amount (Rs.) spent by these households during last 365 days and percentage of these households financed the amount by different source of finance for each quintile class on UMPCE

Kerala																		Rural	
quintile class on UMPCE		percentage of house-holds who spent some amount	average amount(Rs.) spent per hh. Who spent some amount	percentage of households financed the amount by different source of finance											number of households				
				own source	institutional agencies					non-institutional agencies					who spent some amount		all		
					govt.	bank	insurance	PF	financial corporation /institution	other institutional agency	self help group	money lender	friends and relatives	other non-institutional agencies	estd. (00)	sample	estd. (00)	sample	
0-20		3.8	229823	76.4	38	30.5	0	0	0	0	0	0	28.4	0	279	10	7240	271	
20-40		6.2	403445	60.5	27	33	0	10	5.3	7.2	8.8	0	19.4	9	491	19	7907	326	
40-60		5.2	240657	83.8	32	55.2	0	0.3	0	0	6.6	0	19.3	5.9	429	17	8183	326	
60-80		7.4	533110	66.6	0	61.5	0	0	0	0	10.9	0	21.6	0	677	21	9095	335	
80-100		10	324781	72.3	6.7	57.4	0	2.4	2.4	2.7	12.8	0	17.8	0	1010	33	10057	394	
all		6.8	365409	71.1	15	51.3	0	2.6	1.7	2.2	9.5	0	20.2	2.4	2885	100	42481	1652	
no.of house holds	estd.(00)	2885		2051	443	1480	0	76	50	63	275	0	583	70	XX	XX	XX	XX	
	sample	100		71	17	50	0	4	2	3	9	0	20	2	XX	XX	XX	XX	

Table 3: Percentage of households who spent some amount for construction or first-hand purchase of houses/flats for residential purpose during last 365 days, average amount (Rs.) spent by these households during last 365 days and percentage of these households financed the amount by different source of finance for each quintile class on UMPCE

Kerala																Urban		
quintile class on UMPCE		percentage of house-holds who spent some amount	average amount(Rs.) spent per hh. Who spent some amount	percentage of households financed the amount by different source of finance										number of households				
				own source	institutional agencies					non-institutional agencies					who spent some amount		all	
					govt.	bank	insurance	PF	financial corporation /institution	other institutional agency	self help group	money lender	friends and relatives	other non-institutional agencies	estd. (00)	sample	estd. (00)	sample
0-20		4.8	888850	82.6	9.3	39.8	0	0	0	0	14.1	0	29.4	0	309	15	6476	282
20-40		7.4	420942	81.3	14	47.5	0	0	2.6	15.9	4.2	0	8.8	0	577	25	7772	367
40-60		4.3	636198	88.9	13	52.2	5.2	5.6	5.5	9.4	0	8.7	29	0	337	20	7816	359
60-80		7	553759	77.5	4	48.2	0	0	0	3.4	2.5	13.5	18.8	3.2	613	24	8781	344
80-100		10.4	659913	78.1	4.6	35.5	0	5.2	0	11.4	0	4.2	8.4	2.5	1089	31	10441	351
all		7.1	611998	80.3	7.9	42.9	0.6	2.6	1.1	9.2	2.8	5.4	15.2	1.6	2925	115	41285	1703
no.of house holds	estd.(00)	2925		2349	231	1255	18	75	34	268	83	157	446	47	XX	XX	XX	XX
	sample	115		92	9	50	1	5	4	7	4	5	20	2	XX	XX	XX	XX

Table 3: Percentage of households who spent some amount for construction or first-hand purchase of houses/flats for residential purpose during last 365 days, average amount (Rs.) spent by these households during last 365 days and percentage of these households financed the amount by different source of finance for each quintile class on UMPCE

Kerala		Rural + Urban																
quintile class on UMPCE		percentage of house-holds who spent some amount	average amount(Rs.) spent per hh. Who spent some amount	percentage of households financed the amount by different source of finance										number of households				
				own source	institutional agencies					non-institutional agencies					who spent some amount		all	
					govt.	bank	insurance	PF	financial corporation /institution	other institutional agency	self help group	money lender	friends and relatives	other non-institutional agencies	estd. (00)	sample	estd. (00)	sample
0-20		4.3	576457	79.7	23	35.4	0	0	0	0	7.4	0	29	0	588	25	13716	553
20-40		6.8	412895	71.7	20	40.9	0	4.8	3.8	11.9	6.3	0	13.7	4.1	1068	44	15679	693
40-60		4.8	414744	86	24	53.9	2.3	2.6	2.4	4.1	3.7	3.8	23.6	3.3	765	37	15998	685
60-80		7.2	542919	71.8	1.9	55.2	0	0	0	1.6	6.9	6.4	20.3	1.5	1290	45	17876	679
80-100		10.2	498682	75.3	5.6	46	0	3.8	1.1	7.2	6.2	2.2	12.9	1.3	2099	64	20498	745
all		6.9	489541	75.7	11.6	47.1	0.3	2.6	1.4	5.7	6.2	2.7	17.7	2	5810	215	83766	3355
no.of house holds	estd.(00)	5810		4400	673	2735	18	151	84	331	358	157	1029	117	XX	XX	XX	XX
	sample	215		163	26	100	1	9	6	10	13	5	40	4	XX	XX	XX	XX

Table 4: Percentage of households received any benefit from Government schemes for drinking water facility .													
Rural							Kerala						
State	percentage of households ever received any benefit from Government schemes for drinking water facility	percentage of households ever received any benefit during last 3 years from Government schemes for drinking water facility.	percentage distribution of households who received any benefit from Government schemes for drinking water facility during last 3 years by the scheme from which maximum benefit was received							number of households received any benefit during last 3 years from Government schemes for drinking water facility		number of households	
			NRDWP	AMRUT	smart city mission	other scheme	not known	all	estd.(00)		estd.(00)	sample	
									all	sample			
Kerala	3.7	0.9	0	0	0	60.8	39.2	100	389	13	42481	1652	
no.of house holds	estd.(00)	1566	389	0	0	0	237	152	389	X	X	X	X
	sample	57	13	0	0	0	9	4	13	X	X	X	X

Table 4: Percentage of households received any benefit from Government schemes for drinking water facility .

Urban														Kerala			
State	percentage of households ever received any benefit from Government schemes for drinking water facility	percentage of households ever received any benefit during last 3 years from Government schemes for drinking water facility.	percentage distribution of households who received any benefit from Government schemes for drinking water facility during last 3 years by the scheme from which maximum benefit was received							number of households received any benefit during last 3 years from Government schemes for drinking water facility		number of households					
			NRDWP	AMRUT	smart city mission	other scheme	not known	all	estd.(00)	sample	estd.(00)	sample					
									all	all							
Kerala	1.9	0.6	0	0	0	75.4	24.6	100	245	9	41285	1703					
no.of house holds	estd.(00)	780	245	0	0	0	185	60	245	X	X	X	X				
	sample	34	9	0	0	0	6	3	9	X	X	X	X				

Table 4: Percentage of households received any benefit from Government schemes for drinking water facility .													
Rural + Urban										Kerala			
State	percentage of households ever received any benefit from Government schemes for drinking water facility	percentage of households ever received any benefit during last 3 years from Government schemes for drinking water facility.	percentage distribution of households who received any benefit from Government schemes for drinking water facility during last 3 years by the scheme from which maximum benefit was received							number of households received any benefit during last 3 years from Government schemes for drinking water facility		number of households	
			NRDWP	AMRUT	smart city mission	other scheme	not known	all	estd.(00)	sample	estd.(00)	sample	
									all	all			
Kerala	2.8	0.8	0	0	0	66.5	33.5	100	634	22	83766	3355	
no.of house holds	estd.(00)	2346	634	0	0	0	422	213	634	X	X	X	X
	sample	91	22	0	0	0	15	7	22	X	X	X	X

Table 5: Percentage of households received any benefit from Government schemes for sanitation facility .

rural													
state	percentage of households ever received any benefit from Government schemes for sanitation facility	percentage of households ever received any benefit during last 3 years from Government schemes for sanitation facility	percentage distribution of households who received any benefit from Government schemes for sanitation facility during last 3 years by the scheme from which maximum benefit was received							number of households received any benefit during last 3 years from Government schemes for sanitation facility.		number of households	
			SBM	AMRUT	smart city mission	other scheme	not known	all	estd.(00)	sample	estd.(00)	sample	
									all	all			
Kerala	7.9	2.1	7.5	0	0	45.9	46.6	100	883	28	42481	1652	
no.of house holds	estd.(00)	3359	883	66	0	0	405	412	883	X	X	X	X
	sample	134	28	2	0	0	11	15	28	X	X	X	X

Table 5: Percentage of households received any benefit from Government schemes for sanitation facility .

Urban													
state	percentage of households ever received any benefit from Government schemes for sanitation facility	percentage of households ever received any benefit during last 3 years from Government schemes for sanitation facility	percentage distribution of households who received any benefit from Government schemes for sanitation facility during last 3 years by the scheme from which maximum benefit was received							number of households received any benefit during last 3 years from Government schemes for sanitation facility.		number of households	
			SBM	AMRUT	smart city mission	other scheme	not known	all	estd.(00)	sample	estd.(00)	sample	
									all	all			
Kerala	2.6	0.6	51.7	0	0	7.9	40.4	100	258	10	41285	1703	
no.of house holds	estd.(00)	1056	258	133	0	0	20	105	258	X	X	X	X
	sample	45	10	5	0	0	1	4	10	X	X	X	X

Table 5: Percentage of households received any benefit from Government schemes for sanitation facility .

Rural + Urban														
state	percentage of households ever received any benefit from Government schemes for sanitation facility	percentage of households ever received any benefit during last 3 years from Government schemes for sanitation facility	percentage distribution of households who received any benefit from Government schemes for sanitation facility during last 3 years by the scheme from which maximum benefit was received							number of households received any benefit during last 3 years from Government schemes for sanitation facility.		number of households		
			SBM	AMRUT	smart city mission	other scheme	not known	all	estd.(00)		estd.(00)		sample	
									all	sample				
Kerala	5.3	1.4	17.5	0	0	37.3	45.2	100	1142	38	83766	3355		
no.of house holds	estd.(00)	4415	1142	200	0	0	426	516	1142	X	X	X	X	
	sample	179	38	7	0	0	12	19	38	X	X	X	X	

Table 6: Percentage of households received any benefit from Government schemes for housing facility .

Rural											
State		percentage of households ever received any benefit from Government schemes for housing facility	percentage of households received any benefit during last 3 years from Government schemes for housing facility	percentage distribution of households who received any benefit from Government schemes for housing facility during last 3 years by the scheme from which maximum benefit was received				number of households received any benefit during last 3 years from Government schemes for housing facility		number of households	
				PMAY	other scheme	not known	all	estd.(00)	sample	estd.(00)	sample
								all	all		
Kerala		16.6	3.9	34.5	55.6	9.9	100	1639	55	42481	1652
no.of house holds	estd.(00)	7059	1639	565	912	161	1639	X	X	X	X
	sample	287	55	19	31	5	55	X	X	X	X

Table 6: Percentage of households received any benefit from Government schemes for housing facility .

Urban											
State		percentage of households ever received any benefit from Government schemes for housing facility	percentage of households received any benefit during last 3 years from Government schemes for housing facility	percentage distribution of households who received any benefit from Government schemes for housing facility during last 3 years by the scheme from which maximum benefit was received				number of households received any benefit during last 3 years from Government schemes for housing facility		number of households	
				PMAY	other scheme	not known	all	estd.(00)	sample	estd.(00)	sample
								all	all		
Kerala		7.8	1.5	21.5	64.7	13.8	100	635	23	41285	1703
no.of house holds	estd.(00)	3219	635	136	411	88	635	X	X	X	X
	sample	133	23	7	14	2	23	X	X	X	X

Table 6: Percentage of households received any benefit from Government schemes for housing facility .

Rural + Urban											
State		percentage of households ever received any benefit from Government schemes for housing facility	percentage of households received any benefit during last 3 years from Government schemes for housing facility	percentage distribution of households who received any benefit from Government schemes for housing facility during last 3 years by the scheme from which maximum benefit was received				number of households received any benefit during last 3 years from Government schemes for housing facility		number of households	
				PMAY	other scheme	not known	all	estd.(00)	sample	estd.(00)	sample
								all	all		
Kerala		12.3	2.7	30.9	58.2	11	100	2273	78	83766	3355
no.of house holds	estd.(00)	10278	2273	702	1322	249	2273	X	X	X	X
	sample	420	78	26	45	7	78	X	X	X	X

Table 7: Percentage of households received any benefit from Government schemes for electrification facility .

rural											
state	percentage of households ever received any benefit from Government schemes for electrification facility	percentage of households received any benefit during last 3 years from Government schemes for electrification facility	percentage distribution of households who received any benefit from Government schemes for electrification facility during last 3 years by the scheme from which maximum benefit was received				number of households received any benefit during last 3 years from Government schemes for electrification facility		number of households		
			DDUGJY	other scheme	not known	all	estd.(00)	sample	estd.(00)	sample	
							all	all			
Kerala	4.3	0.2	54.4	1.2	44.4	100	75	4	42481	1652	
no.of house holds	estd.(00)	1846	75	41	1	33	75	X	X	X	X
	sample	83	4	2	1	1	4	X	X	X	X

Table 7: Percentage of households received any benefit from Government schemes for electrification facility .

Urban											
state		percentage of households ever received any benefit from Government schemes for electrification facility	percentage of households received any benefit during last 3 years from Government schemes for electrification facility	percentage distribution of households who received any benefit from Government schemes for electrification facility during last 3 years by the scheme from which maximum benefit was received				number of households received any benefit during last 3 years from Government schemes for electrification facility		number of households	
				DDUGJY	other scheme	not known	all	estd.(00)	sample	estd.(00)	sample
								all	all		
Kerala		3.3	0.7	0	81.6	18.4	100	276	12	41285	1703
no.of house holds	estd.(00)	1378	276	0	225	51	276	X	X	X	X
	sample	57	12	0	10	2	12	X	X	X	X

Table 7: Percentage of households received any benefit from Government schemes for electrification facility .

Rural + Urban											
state		percentage of households ever received any benefit from Government schemes for electrification facility	percentage of households received any benefit during last 3 years from Government schemes for electrification facility	percentage distribution of households who received any benefit from Government schemes for electrification facility during last 3 years by the scheme from which maximum benefit was received				number of households received any benefit during last 3 years from Government schemes for electrification facility		number of households	
				DDUGJY	other scheme	not known	all	estd.(00)	sample	estd.(00)	sample
								all	all		
Kerala		3.8	0.4	11.6	64.5	23.9	100	351	16	83766	3355
no.of house holds	estd.(00)	3224	351	41	226	84	351	X	X	X	X
	sample	140	16	2	11	3	16	X	X	X	X

Table 8: Percentage of households received any benefit from Government schemes for LPG connection facility.

Table 8: Percentage of households received any benefit from Government schemes for LPG connection facility.											
rural						Kerala					
state	percentage of households ever received any benefit from Government schemes for LPG connection facility	percentage of households received any benefit during last 3 years from Government schemes for LPG connection facility	percentage distribution of households who received any benefit from Government schemes for LPG connection facility during last 3 years by the scheme from which maximum benefit was received				number of households received any benefit during last 3 years from Government schemes for LPG connection facility		number of households		
			PMUY	other scheme	not known	all	estd.(00)	sample	estd.(00)	sample	
							all	all			
Kerala	6.6	2.1	37.4	40.6	22	100	897	32	42481	1652	
no.of house holds	estd.(00)	2801	897	335	364	197	897	X	X	X	X
	sample	112	32	14	11	7	32	X	X	X	X

Table 8: Percentage of households received any benefit from Government schemes for LPG connection facility.

Urban												Kerala			
state	percentage of households ever received any benefit from Government schemes for LPG connection facility	percentage of households received any benefit during last 3 years from Government schemes for LPG connection facility	percentage distribution of households who received any benefit from Government schemes for LPG connection facility during last 3 years by the scheme from which maximum benefit was received				number of households received any benefit during last 3 years from Government schemes for LPG connection facility		number of households						
			PMUY	other scheme	not known	all	estd.(00)	sample	estd.(00)	sample					
							all	all							
Kerala	3.5	1.2	9.7	40.5	49.8	100	513	20	41285	1703					
no.of house holds	estd.(00)	1462	513	50	208	256	513	X	X	X	X				
	sample	59	20	2	9	9	20	X	X	X	X				

Table 8: Percentage of households received any benefit from Government schemes for LPG connection facility.

Rural + Urban												Kerala			
state	percentage of households ever received any benefit from Government schemes for LPG connection facility	percentage of households received any benefit during last 3 years from Government schemes for LPG connection facility	percentage distribution of households who received any benefit from Government schemes for LPG connection facility during last 3 years by the scheme from which maximum benefit was received				number of households received any benefit during last 3 years from Government schemes for LPG connection facility		number of households						
			PMUY	other scheme	not known	all	estd.(00)	sample	estd.(00)	sample					
							all	all							
Kerala	5.1	1.7	27.3	40.6	32.1	100	1411	52	83766	3355					
no.of house holds	estd.(00)	4263	1411	385	572	453	1411	X	X	X	X				
	sample	171	52	16	20	16	52	X	X	X	X				

Table 9 : Percentage distribution of the households by maximum distance normally travelled to the place of work by an earner of a specific gender for each quintile class on UMPCE												
Kerala		rural							male			
quintile class on UMPCE	maximum distance normally travelled to the place of work									number of households		
	not required to travel	less than 1 km	1 km to less than 5 km	5 km to less than 10 km	10 km to less than 15 km	15 km to less than 30 km	30 km or more	no earner of specific gender	all	estd. (00)	sample	
										all	all	
0-20	7.4	8.7	20.7	24.6	12	7.4	8.6	10.6	100	7240	271	
20-40	7.2	6.3	20.5	18.9	11	6.7	13.4	16	100	7907	326	
40-60	4.4	6.1	22.3	27.8	8.6	7.9	6.6	16.4	100	8183	326	
60-80	9.8	8.6	14.8	20.3	12	8.4	10.5	15.7	100	9095	335	
80-100	10.5	7.2	13.7	11.6	6.6	6.2	14.1	30	100	10057	394	
all	8.1	7.4	18	20.2	9.9	7.3	10.8	18.4	100	42481	1652	
no.of house holds	estd.(00)	3422	3139	7661	8564	4201	3088	4597	7810	42481	X	X
	sample	128	127	303	330	168	131	176	289	1652	X	X

Table 9 : Percentage distribution of the households by maximum distance normally travelled to the place of work by an earner of a specific gender for each quintile class on UMPCE												
Kerala		Urban							male			
quintile class on UMPCE	maximum distance normally travelled to the place of work									number of households		
	not required to travel	less than 1 km	1 km to less than 5 km	5 km to less than 10 km	10 km to less than 15 km	15 km to less than 30 km	30 km or more	no earner of specific gender	all	estd. (00)	sample	
										all	all	
0-20	6.9	2.8	30.3	23	8.9	8	1.8	18.3	100	6476	282	
20-40	5.2	2.2	28.1	20.1	9.8	8.3	5.8	20.5	100	7772	367	
40-60	11.1	6.4	19.2	14.4	12.4	9.3	10	17.2	100	7816	359	
60-80	6.2	2.8	13.4	14.7	9.2	12.8	10.5	30.4	100	8781	344	
80-100	6.4	6.3	13.2	9.6	9.4	8	11.8	35.4	100	10441	351	
all	7.1	4.3	19.9	15.7	9.9	9.3	8.5	25.4	100	41285	1703	
no.of house holds	estd.(00)	2937	1759	8197	6473	4091	3850	3504	10475	41285	X	X
	sample	114	73	360	288	161	159	133	415	1703	X	X

Table 9 : Percentage distribution of the households by maximum distance normally travelled to the place of work by an earner of a specific gender for each quintile class on UMPCE												
Kerala		Rural + Urban								male		
quintile class on UMPCE	maximum distance normally travelled to the place of work									number of households		
	not required to travel	less than 1 km	1 km to less than 5 km	5 km to less than 10 km	10 km to less than 15 km	15 km to less than 30 km	30 km or more	no earner of specific gender	all	estd. (00)	sample	
										all	all	
0-20	7.2	5.9	25.2	23.8	10.5	7.7	5.4	14.2	100	13716	553	
20-40	6.2	4.3	24.2	19.5	10.4	7.5	9.6	18.2	100	15679	693	
40-60	7.7	6.2	20.8	21.3	10.4	8.6	8.2	16.8	100	15998	685	
60-80	8	5.8	14.1	17.6	10.6	10.5	10.5	22.9	100	17876	679	
80-100	8.4	6.8	13.4	10.6	8	7.1	12.9	32.7	100	20498	745	
all	7.6	5.8	18.9	18	9.9	8.3	9.7	21.8	100	83766	3355	
no.of house holds	estd.(00)	6358	4899	15858	15037	8292	6938	8100	18284	83766	X	X
	sample	242	200	663	618	329	290	309	704	3355	X	X

Table 9 : Percentage distribution of the households by maximum distance normally travelled to the place of work by an earner of a specific gender for each quintile class on UMPCE												
Kerala		Rural								female		
quintile class on UMPCE	maximum distance normally travelled to the place of work									number of households		
	not required to travel	less than 1 km	1 km to less than 5 km	5 km to less than 10 km	10 km to less than 15 km	15 km to less than 30 km	30 km or more	no earner of specific gender	all	estd. (00)	sample	
										all	all	
0-20	27.4	16.9	13.6	3.8	0.9	0.9	0.4	36.2	100	7240	271	
20-40	25.7	5.2	12.1	4.1	2	1.7	0.7	48.5	100	7907	326	
40-60	19	1.8	12.5	3.9	0.8	0.3	0.7	61	100	8183	326	
60-80	24.4	4.6	7.7	3.7	1.4	1	1.9	55.2	100	9095	335	
80-100	23.1	3.8	5.7	5.8	2.4	1.7	2.9	54.7	100	10057	394	
all	23.8	6.1	10	4.3	1.5	1.2	1.4	51.7	100	42481	1652	
no.of house holds	estd.(00)	10108	2590	4241	1830	651	493	600	21968	42481	X	X
	sample	400	113	167	68	27	26	24	827	1652	X	X

Table 9 : Percentage distribution of the households by maximum distance normally travelled to the place of work by an earner of a specific gender for each quintile class on UMPCE												
Kerala		Urban							female			
quintile class on UMPCE	maximum distance normally travelled to the place of work									number of households		
	not required to travel	less than 1 km	1 km to less than 5 km	5 km to less than 10 km	10 km to less than 15 km	15 km to less than 30 km	30 km or more	no earner of specific gender	all	estd. (00)	sample	
										all	all	
0-20	20.6	4.4	11.7	3.8	3.1	0	0	56.4	100	6476	282	
20-40	13.7	1.8	6.2	4.3	1.3	1.8	0.9	70.2	100	7772	367	
40-60	14.8	6	5.2	4.1	3.5	0.5	1.7	64.3	100	7816	359	
60-80	11.6	4	6.3	4	4	1.6	0.8	67.7	100	8781	344	
80-100	11.4	4.5	11.2	5.7	4	1.8	1.7	59.7	100	10441	351	
all	13.9	4.2	8.1	4.4	3.3	1.2	1.1	63.7	100	41285	1703	
no.of house holds	estd.(00)	5754	1725	3362	1837	1348	512	439	26309	41285	X	X
	sample	232	67	127	72	51	21	18	1115	1703	X	X

Table 9 : Percentage distribution of the households by maximum distance normally travelled to the place of work by an earner of a specific gender for each quintile class on UMPCE												
Kerala		Rural + Urban							female			
quintile class on UMPCE	maximum distance normally travelled to the place of work									number of households		
	not required to travel	less than 1 km	1 km to less than 5 km	5 km to less than 10 km	10 km to less than 15 km	15 km to less than 30 km	30 km or more	no earner of specific gender	all	estd. (00)	sample	
										all	all	
0-20	24.2	11	12.7	3.8	1.9	0.5	0.2	45.7	100	13716	553	
20-40	19.7	3.5	9.2	4.2	1.6	1.7	0.8	59.2	100	15679	693	
40-60	16.9	3.8	8.9	4	2.1	0.4	1.2	62.6	100	15998	685	
60-80	18.1	4.3	7	3.8	2.7	1.3	1.3	61.4	100	17876	679	
80-100	17.1	4.2	8.5	5.7	3.2	1.8	2.3	57.2	100	20498	745	
all	18.9	5.2	9.1	4.4	2.4	1.2	1.2	57.6	100	83766	3355	
no.of house holds	estd.(00)	15861	4316	7603	3667	1999	1005	1039	48277	83766	X	X
	sample	632	180	294	140	78	47	42	1942	3355	X	X

Table 10: Percentage distribution of households by tenorial status of dwelling units for each quintile class on UMPCE

Kerala											
rural											
estimate/RSE											
quintile class on UMPCE	tenorial status of dwelling units								number of households		
	households with dwelling units						households with no dwelling units	all	estd. (00)	sample	
	owned		hired			others					
	freehold	leasehold	employer quarter	hired dwelling units with written contract	hired dwelling units without written contract		all	all	all		
0-20	95.7	0.5	0.3	1.7	0.7	1	0	100	7240	271	
20-40	93.6	0.5	0	2.9	2.6	0.5	0	100	7907	326	
40-60	94.9	0.9	0	1.5	1.6	1.1	0	100	8183	326	
60-80	91.8	0.1	0	4.9	0.9	2.3	0	100	9095	335	
80-100	93	1.2	0.3	4.4	0.5	0.7	0	100	10057	394	
all	93.7	0.7	0.1	3.2	1.2	1.1	0	100	42481	1652	
no.of house holds	estd.(00)	39792	282	47	1353	524	483	0	42481	X	X
	sample	1531	21	2	48	20	30	0	1652	X	X

Table 10: Percentage distribution of households by tenurial status of dwelling units for each quintile class on UMPCE

Kerala Urban estimate/RSE											
quintile class on UMPCE	tenurial status of dwelling units								number of households		
	households with dwelling units						households with no dwelling units	all	estd. (00)	sample	
	owned		hired			others			all	all	all
	freehold	leasehold	employer quarter	hired dwelling units with written contract	hired dwelling units without written contract						
0-20	91	1.6	0.4	4.7	0.2	2.2	0	100	6476	282	
20-40	88.7	0.9	0	4	4.3	2	0	100	7772	367	
40-60	88.2	1.6	0.2	7.4	2	0.6	0	100	7816	359	
60-80	83.3	1.7	2.8	11.7	0.6	0	0	100	8781	344	
80-100	73.7	1.5	4	15.1	4.6	1	0	100	10441	351	
all	84	1.5	1.7	9.2	2.5	1.1	0	100	41285	1703	
no.of house holds	estd.(00)	34688	608	693	3799	1044	453	0	41285	X	X
	sample	1453	24	24	150	34	18	0	1703	X	X

Table 10: Percentage distribution of households by tenurial status of dwelling units for each quintile class on UMPCE

Kerala											
Rural + Urban estimate/RSE											
quintile class on UMPCE	tenurial status of dwelling units								number of households		
	households with dwelling units								estd. (00)	sample	
	owned		hired			others	households with no dwelling units	all			
	freehold	leasehold	employer quarter	hired dwelling units with written contract	hired dwelling units without written contract				all	all	all
0-20	93.5	1	0.3	3.1	0.5	1.5	0	100	13716	553	
20-40	91.1	0.7	0	3.5	3.4	1.3	0	100	15679	693	
40-60	91.6	1.2	0.1	4.4	1.8	0.9	0	100	15998	685	
60-80	87.6	0.9	1.4	8.2	0.8	1.2	0	100	17876	679	
80-100	83.2	1.4	2.1	9.8	2.6	0.9	0	100	20498	745	
all	88.9	1.1	0.9	6.1	1.9	1.1	0	100	83766	3355	
no.of house holds	estd.(00)	74480	890	740	5151	1568	936	0	83766	X	X
	sample	2984	45	26	198	54	48	0	3355	X	X

Table 11: Percentage distribution of households by tenurial status of dwelling units classified by their (i) social group and (ii) religion

Kerala											rural	
household social group/ household religion		tenurial status of dwelling units							number of households			
		households with dwelling units						households with no dwelling units	all	estd. (00)	sample	
		owned		hired			others					
		freehold	leasehold	employer quarter	hired dwelling units with written contract	hired dwelling units without written contract		all				
1	2	3	4	5	6	7	8	9	10	11		
ST	99.1	0	0	0	0	0.9	0	100	751	26		
SC	91.2	0	0.5	2.9	1.2	4.3	0	100	4532	189		
OBC	95.3	0.6	0	2.5	1.4	0.2	0	100	24800	986		
Others	90.9	1.2	0.2	4.8	1	1.9	0	100	12398	451		
all	93.7	0.7	0.1	3.2	1.2	1.1	0	100	42481	1652		
hinduism	94.4	0.4	0.1	2.6	1.4	1.1	0	100	24729	974		
Islam	94.3	0.7	0	3.5	1.2	0.3	0	100	8123	328		
christianity	90.7	1.1	0.3	4.9	0.7	2.3	0	100	8427	297		
Sikhism	74.3	0	0	0	25.7	0	0	100	132	3		
Others	97.9	1.9	0	0.1	0	0.1	0	100	1070	50		
all	93.7	0.7	0.1	3.2	1.2	1.1	0	100	42481	1652		
no.of house holds	estd.(00)	39792	282	47	1353	524	483	0	42481	X	X	
	sample	1531	21	2	48	20	30	0	1652	X	X	

Table 11: Percentage distribution of households by tenurial status of dwelling units classified by their (i) social group and (ii) religion

Table 11: Percentage distribution of households by tenurial status of dwelling units classified by their (i) social group and (ii) religion											
Kerala						Urban					
household social group/ household religion	tenurial status of dwelling units								number of households		
	households with dwelling units						households with no dwelling units	all	estd. (00)	sample	
	owned		hired			others					
	freehold	leasehold	employer quarter	hired dwelling units with written contract	hired dwelling units without written contract		all	all	all		
1	2	3	4	5	6	7	8	9	10	11	
ST	64.4	0	0	35.6	0	0	0	100	175	8	
SC	82.1	3.5	1.2	10	0.1	3.1	0	100	3067	126	
OBC	83.8	0.7	1.4	10.1	3	1	0	100	25645	1088	
Others	85.2	2.6	2.4	6.8	2.3	0.7	0	100	12398	481	
all	84	1.5	1.7	9.2	2.5	1.1	0	100	41285	1703	
hinduism	86.1	1.2	2.1	7.8	1.9	0.9	0	100	22865	928	
Islam	83.1	0.6	0.2	11.4	3.3	1.4	0	100	9602	439	
christianity	78.2	3.7	2.8	10.7	3.6	0.9	0	100	7209	280	
Sikhism	0	0	0	100	0	0	0	100	62	2	
Others	89.4	0	0	4.8	2.2	3.7	0	100	1546	54	
all	84	1.5	1.7	9.2	2.5	1.1	0	100	41285	1703	
no.of house holds	estd.(00)	34688	608	693	3799	1044	453	0	41285	X	X
	sample	1453	24	24	150	34	18	0	1703	X	X

Table 11: Percentage distribution of households by tenurial status of dwelling units classified by their (i) social group and (ii) religion

Kerala											Rural + Urban			
household social group/ household religion	tenurial status of dwelling units								number of households					
	households with dwelling units						households with no dwelling units	all	estd. (00)	sample				
	owned		hired			others								
	freehold	leasehold	employer quarter	hired dwelling units with written contract	hired dwelling units without written contract		all	all	all					
1	2	3	4	5	6	7	8	9	10	11				
ST	92.5	0	0	6.7	0	0.8	0	100	927	34				
SC	87.5	1.4	0.8	5.8	0.7	3.8	0	100	7599	315				
OBC	89.5	0.6	0.7	6.4	2.2	0.6	0	100	50445	2074				
Others	88	1.9	1.3	5.8	1.7	1.3	0	100	24796	932				
all	88.9	1.1	0.9	6.1	1.9	1.1	0	100	83766	3355				
hinduism	90.4	0.8	1	5.1	1.6	1	0	100	47594	1902				
Islam	88.2	0.6	0.1	7.8	2.4	0.9	0	100	17725	767				
christianity	84.9	2.3	1.4	7.6	2	1.7	0	100	15636	577				
Sikhism	50.5	0	0	32.1	17.4	0	0	100	194	5				
Others	92.9	0.8	0	2.9	1.3	2.2	0	100	2617	104				
all	88.9	1.1	0.9	6.1	1.9	1.1	0	100	83766	3355				
no.of house holds	estd.(00)	74480	890	740	5151	1568	936	0	83766	X	X			
	sample	2984	45	26	198	54	48	0	3355	X	X			

Table 12: Percentage distribution of households with dwelling units by area type for each (i) quintile class on UMPCE and (ii) household social group								
Kerala		Urban						
quintile class on UMPCE/hh. social group		area type				number of households with dwelling units		
		notified slum	non-notified slum	squatter settlement	other areas	all	estd. (00)	sample
							all	all
1	2	3	4	5	6	7	9	
0-20	0.5	0.0	1.4	98.1	100	6476	282	
20-40	0.8	0.1	1.0	98.1	100	7772	367	
40-60	0.3	0.4	0.3	99.0	100	7816	359	
60-80	0.0	0.4	0.6	99.1	100	8781	344	
80-100	0.0	0.2	0.1	99.7	100	10441	1351	
all	0.3	0.2	0.6	98.9	100	41285	1703	
S T	0.0	6.0	2.9	91.1	100.0	175.0	8.0	
SC	1.0	1.0	0.0	97.9	100.0	3067.0	126.0	
OBC	0.3	0.1	0.8	98.8	100.0	25645.0	1088.0	
Others	0.0	0.2	0.4	99.4	100.0	12398.0	481.0	
all	0.3	0.2	0.6	98.9	100.0	41285.0	1703.0	
no.of house holds	estd.(00)	111	95	252	40828	41285	X	X
	sample	4	6	12	1681	1703	X	X

Table 13: Percentage distribution of households by principal source of drinking water for each quintile class on UMPCE

Table 13: Percentage distribution of households by principal source of drinking water for each quintile class on UMPCE																					
Kerala										rural								estimate			
quintile class on MPCE		principal sources of drinking water																		no.of households	
		bottled water	piped water into dwelling	piped water to yard/plot	piped water from neighbour	public tap/stand pipe	tubewell	hand pump	well		tanker truck		spring		rain water collection	surface water		others	all	estd. (00)	sample
									protected	unprotected	public	private	protected	unprotected		tank/pond	other surface water			all	all
0-20		0	7.1	11.1	1.5	1.2	9.2	0.3	13.7	54	0	0	0	1.3	0	0	0.6	0	100	7240	271
20-40		0	2.9	7.9	1.6	0.9	8.6	0	29.1	46	0.1	0.4	0	1.7	0	0.9	0	0	100	7907	326
40-60		0	6.9	4.7	1	1.5	8.5	0.3	33.7	41.3	0	0	0	1.1	0	1	0	0	100	8183	326
60-80		0	4.4	5.9	1	3.3	6.9	0	30.1	44.9	0	0.3	0	0.5	0	2.6	0	0	100	9095	335
80-100		0	8	8.5	0.5	1.5	9.6	0.5	28.1	43.1	0	0	0	0	0.2	0	0	0	100	10057	394
all		0	5.9	7.5	1.1	1.7	8.6	0.2	27.4	45.5	0	0.1	0	0.8	0.1	0.9	0.1	0	100	42481	1652
no.of house holds	estd.(00)	0	2512	3191	459	733	3648	98	11621	19341	8	54	0	357	23	394	42	0	42481	X	X
	sample	0	99	137	18	45	158	3	457	705	1	2	0	8	1	12	6	0	1652	X	X

Table 13: Percentage distribution of households by principal source of drinking water for each quintile class on UMPCE

Kerala								Urban											estimate		
quintile class on MPCE	principal sources of drinking water																		no.of households		
	bottled water	piped water into dwelling	piped water to yard/plot	piped water from neighbour	public tap/stand pipe	tubewell	hand pump	well		tanker truck		spring		rain water collection	surface water		others	all	estd. (00)	sample	
								protected	unprotected	public	private	protected	unprotected		tank/pond	other surface water			all	all	all
0-20	0	17.4	7.0	2.2	6.4	13.6	0	10.9	42.1	0	0.4	0	0	0.0	0	0	0	100	6465	282	
20-40	0.7	9.6	6.1	2.6	5.6	5.8	0	20.2	49.3	0	0	0	0	0.0	0	0.0	0	100	7746	365	
40-60	1.2	18.6	3.3	0.9	4.9	5.7	0	14.8	50.6	0	0	0	0	0.0	0	0.0	0	100	7797	357	
60-80	0.6	19.8	2.7	0.6	5.3	6.2	0	16.9	47.9	0	0	0	0	0.0	0	0.0	0	100	8843	348	
80-100	4.9	19.7	2.2	0.4	4.4	4.7	0	14.8	48.8	0	0	0	0	0.0	0	0.0	0	100	10434	351	
all	1.7	17.3	4	1.2	5.2	6.8	0	15.7	48	0	0.1	0	0	0	0	0	0	100	41285	1703	
	estd.(00)	709	7127	1660	514	2161	2808	0	6471	19810	0	25	0	0	0	0	0	41285	X	X	
	sample	25	285	66	23	83	116	0	285	819	0	1	0	0	0	0	0	1703	X	X	

Table 13: Percentage distribution of households by principal source of drinking water for each quintile class on UMPCE

Table 13: Percentage distribution of households by principal source of drinking water for each quintile class on UMPCE																					
Kerala										Rural + Urban								estimate			
quintile class on MPCE		principal sources of drinking water																		no.of households	
		bottled water	piped water into dwelling	piped water to yard/plot	piped water from neighbour	public tap/stand pipe	tubewell	hand pump	well		tanker truck		spring		rain water collection	surface water		others	all	estd. (00)	sample
									protected	unprotected	public	private	protected	unprotected		tank/pond	other surface water			all	all
0-20		0	12	9.2	1.8	3.7	11.3	0.2	12.4	48.4	0	0.2	0	0.7	0.0	0	0.3	0	100	13705	553
20-40		0.4	6.2	7.0	2.1	3.2	7.2	0	24.7	47.6	0.1	0.2	0	0.8	0.0	0.5	0.0	0	100	15653	691
40-60		0.6	12.6	4.0	1	3.2	7.2	0.2	24.5	45.8	0	0	0	0.5	0.0	0.5	0.0	0	100	15979	683
60-80		0.3	12	4.3	0.8	4.3	6.6	0	23.6	46.4	0	0.1	0	0.3	0.0	1.3	0.0	0	100	17938	683
80-100		2.5	14	5.3	0.5	3	7.1	0.3	21.3	46	0	0	0	0	0.1	0	0.0	0	100	20491	745
all		0.8	11.5	5.8	1.2	3.5	7.7	0.1	21.6	46.7	0	0.1	0	0.4	0	0.5	0	0	100	83766	3355
no.of house holds	estd.(00)	709	9639	4851	973	2894	6456	98	18091	39152	8	79	0	357	23	394	42	0	83766	X	X
	sample	25	384	203	41	128	274	3	742	1524	1	3	0	8	1	12	6	0	3355	X	X

Table 14: Percentage distribution of households by principal source of drinking water classified by their (i) social group and (ii) religion

Kerala																			rural		
house hold social group/house hold religion		principal sources of drinking water																	no.of households		
		bottled water	piped water into dwelling	piped water to yard/plot	piped water from neighbour	public tap/stand pipe	tubewell	hand pump	well		tanker truck		spring		surface water			all	estd. (00)	sample	
									protected	unprotected	public	private	protected	unprotected	rain water collection	tank/pond	other surface water		others	all	all
S T	0	0	17.1	0	0.3	26.6	0	0.5	49.3	0	0	0	6.2	0	0	0	0	100	751	26	
SC	0	7.6	13.3	0	5.2	2.6	0	20.3	50.2	0.2	0.6	0	0	0	0	0	0	100	4532	189	
OBC	0	7.9	9	1.5	1.6	8.8	0.2	28.6	41	0	0	0	0.9	0.1	0.5	0	0	100	24800	986	
Others	0	1.7	1.9	0.8	0.8	9.3	0.4	29.1	52.6	0	0.2	0	0.7	0	2.2	0.3	0	100	12398	451	
all	0	5.9	7.5	1.1	1.7	8.6	0.2	27.4	45.5	0	0.1	0	0.8	0.1	0.9	0.1	0	100	42481	1652	
hinduism	0	6.8	10.7	0.8	2.2	6.7	0.1	24.6	46.3	0	0.2	0	1.1	0.1	0.3	0	0	100	24729	974	
Islam	0	4.4	4	2.4	0.5	12.6	0.3	33.5	41.7	0	0	0	0	0	0.6	0	0	100	8123	328	
christianity	0	4.6	2.5	0.7	1.5	9.7	0.6	30.7	45	0	0	0	1	0	3.3	0.4	0	100	8427	297	
Sikhism	0	0	0	0	0	0	0	25.7	74.3	0	0	0	0	0	0	0	0	100	132	3	
Others	0	8.5	0	0	2.7	14	0	17.6	57.3	0	0	0	0	0	0	0	0	100	1070	50	
all	0	5.9	7.5	1.1	1.7	8.6	0.2	27.4	45.5	0	0.1	0	0.8	0.1	0.9	0.1	0	100	42481	1652	
no.of house holds	estd.(00)	0	2512	3191	459	733	3648	98	11621	19341	8	54	0	357	23	394	42	0	42481	X	X
	sample	0	99	137	18	45	158	3	457	705	1	2	0	8	1	12	6	0	1652	X	X

Table 14: Percentage distribution of households by principal source of drinking water classified by their (i) social group and (ii) religion

Kerala																			Urban		
house hold social group/house hold religion	principal sources of drinking water																		no.of households		
	bottled water	piped water into dwelling	piped water to yard/plot	piped water from neighbour	public tap/stand pipe	tubewell	hand pump	well		tanker truck		spring		surface water			all	estd. (00)	sample		
								protected	unprotected	public	private	protected	unprotected	rain water collection	tank/pond	other surface water		others	all	all	
S T	2.9	13.9	6	0	0	32.7	0	0	44.6	0	0	0	0	0	0	0	0	100	175	8	
SC	0	17.7	7.8	2.2	10.4	2	0	13.3	45.9	0	0.8	0	0	0	0	0	0	100	3067	126	
OBC	1.4	15.1	4.7	1.4	6.1	7.5	0	16.1	47.8	0	0	0	0	0	0	0	0	100	25645	1088	
Others	2.9	21.7	1.6	0.8	2.3	6.2	0	15.5	49	0	0	0	0	0	0	0	0	100	12398	481	
all	1.7	17.3	4	1.2	5.2	6.8	0	15.7	48	0	0.1	0	0	0	0	0	0	100	41285	1703	
hinduism	0.6	19.3	4.8	1.5	5.8	5.7	0	14.9	47.3	0	0.1	0	0	0	0	0	0	100	22865	928	
Islam	0.9	7.4	3.1	1.2	4.2	10.9	0	18.9	53.4	0	0	0	0	0	0	0	0	100	9602	439	
christianity	6.7	24	2.7	0.3	4.5	4.8	0	13.9	43.1	0	0	0	0	0	0	0	0	100	7209	280	
Sikhism	8.1	0	0	0	0	91.9	0	0	0	0	0	0	0	0	0	0	0	100	62	2	
Others	0	17.4	4.4	1.4	7.4	4.1	0	16	49.3	0	0	0	0	0	0	0	0	100	1546	54	
all	1.7	17.3	4	1.2	5.2	6.8	0	15.7	48	0	0.1	0	0	0	0	0	0	100	41285	1703	
no.of house holds	estd.(00)	709	7127	1660	514	2161	2808	0	6471	19810	0	25	0	0	0	0	0	41285	X	X	
	sample	25	285	66	23	83	116	0	285	819	0	1	0	0	0	0	0	1703	X	X	

Table 14: Percentage distribution of households by principal source of drinking water classified by their (i) social group and (ii) religion

Kerala																			Rural + Urban		
house hold social group/house hold religion		principal sources of drinking water																	no.of households		
		bottled water	piped water into dwelling	piped water to yard/plot	piped water from neighbour	public tap/stand pipe	tubewell	hand pump	well		tanker truck		spring		surface water			all	estd. (00)	sample	
									protected	unprotected	public	private	protected	unprotected	rain water collection	tank/pond	other surface water		others	all	all
S T	0.5	2.6	15	0	0.3	27.8	0	0.4	48.4	0	0	0	5	0	0	0	0	100	927	34	
SC	0	11.7	11.1	0.9	7.3	2.3	0	17.4	48.4	0.1	0.7	0	0	0	0	0	0	100	7599	315	
OBC	0.7	11.5	6.8	1.4	3.9	8.1	0.1	22.3	44.5	0	0	0	0.4	0	0.2	0	0	100	50445	2074	
Others	1.4	11.7	1.7	0.8	1.5	7.8	0.2	22.3	50.8	0	0.1	0	0.4	0	1.1	0.1	0	100	24796	932	
all	0.8	11.5	5.8	1.2	3.5	7.7	0.1	21.6	46.7	0	0.1	0	0.4	0	0.5	0	0	100	83766	3355	
hinduism	0.3	12.8	7.9	1.2	3.9	6.2	0	20	46.8	0	0.2	0	0.6	0	0.1	0	0	100	47594	1902	
Islam	0.5	6	3.5	1.8	2.5	11.7	0.1	25.6	48	0	0	0	0	0	0.3	0	0	100	17725	767	
christianity	3.1	13.5	2.5	0.5	2.9	7.4	0.3	23	44.1	0	0	0	0.6	0	1.8	0.2	0	100	15636	577	
Sikhism	2.6	0	0	0	0	29.5	0	17.4	50.5	0	0	0	0	0	0	0	0	100	194	5	
Others	0	13.8	2.6	0.8	5.5	8.1	0	16.7	52.6	0	0	0	0	0	0	0	0	100	2617	104	
all	0.8	11.5	5.8	1.2	3.5	7.7	0.1	21.6	46.7	0	0.1	0	0.4	0	0.5	0	0	100	83766	3355	
no.of house holds	estd.(00)	709	9639	4851	973	2894	6456	98	18091	39152	8	79	0	357	23	394	42	0	83766	X	X
	sample	25	384	203	41	128	274	3	742	1524	1	3	0	8	1	12	6	0	3355	X	X

Table 15: Percentage distribution of households with dwelling units by principal source of drinking water for each area type

Kerala																			urban	
area type	principal sources of drinking water																	no.of households with dwelling units		
	bottled water	piped water into dwelling	piped water to yard/plot	piped water from neighbour	public tap/stand pipe	tubewell	hand pump	well		tanker truck		spring			surface water			all	estd. (00)	sample
								protected	unprotected	public	private	protected	unprotected	rain water collection	tank/pond	other surface water	others			
notified slum	0	0	0	0	0	0	0	52.9	47.1	0	0	0	0	0	0	0	0	100	111	4
non-notified slum	22	44.6	33.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	95	6
squatter settlement	2	90.1	0	0	0	0	0	0	7.9	0	0	0	0	0	0	0	0	100	252	12
other areas	1.7	16.8	4	1.3	5.3	6.9	0	15.7	48.3	0	0.1	0	0	0	0	0	0	100	40828	1681
all	1.7	17.3	4	1.2	5.2	6.8	0	15.7	48	0	0.1	0	0	0	0	0	0	100	41285	1703
no.of house holds	estd.(00)	709	7127	1660	514	2161	2808	0	6471	19810	0	25	0	0	0	0	0	41285	X	X
	sample	25	285	66	23	83	116	0	285	819	0	1	0	0	0	0	0	1703	X	X

Table 16: Percentage distribution of households not getting sufficient drinking water from the principal source by number of calendar months not getting sufficient drinking water, separately for households with different principal sources of drinking water

Kerala															Rural			
principal sources of drinking water	percentage of hhs. not getting sufficient drinking water throughout year	number of months of the year during which availability of drinking water was not sufficient													hhs not getting sufficient drinking water throughout year		no. of hhs	
		1	2	3	4	5	6	7	8	9	10	11	12	all	estd. (00)	sample	estd.(00)	sample
																all	all	estd.(00)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1. Bottled water	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2. Piped water into dwelling	20.2	34.5	45.1	13.5	0	6.9	0	0	0	0	0	0	0	100	507	17	2512	99
3. Piped water to yard /plot	17.4	26.1	44.9	13.6	15.3	0	0	0	0	0	0	0	0	100	555	23	3191	137
4. Piped water from neighbour	30.1	26.3	47.2	26.5	0	0	0	0	0	0	0	0	0	100	138	5	459	18
5. Public tap/stand pipe	24.7	18.7	15	66.2	0	0	0	0	0	0	0	0	0	100	181	7	733	45
6. Tube well	10.8	23.6	28.5	47.9	0	0	0	0	0	0	0	0	0	100	394	21	3648	158
7. Hand pump	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98	3
8 Protected well	21.6	5.3	66.8	21.2	4.4	2.3	0	0	0	0	0	0	0	100	2514	88	11621	457
9. Unprotected well	21.5	11.1	37.8	40.6	5.3	5.1	0	0	0	0	0	0	0	100	4154	162	19341	705
10. Public tanker-truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	1
11. Private tanker - truck	47.5	0	0	100	0	0	0	0	0	0	0	0	0	100	26	1	54	2
12. Protected spring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13. Unprotected spring	39	0	100	0	0	0	0	0	0	0	0	0	0	100	139	3	357	8
14.. Rain water collection	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	1
15. Tank/pond	6	0	100	0	0	0	0	0	0	0	0	0	0	100	24	1	394	12
16. Other surface water	1.3	0	0	100	0	0	0	0	0	0	0	0	0	100	1	1	42	6
19. Others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
all	20.3	12.5	47.4	31.7	4.8	3.5	0	0	0	0	0	0	0	100	8632	329	42481	1652
no. of households	estd.(00)	8632	1080	4094	2737	416	305	0	0	0	0	0	0	8632	X	X	X	X
	sample	329	39	145	109	24	12	0	0	0	0	0	0	329	X	X	X	X

Table 16: Percentage distribution of households not getting sufficient drinking water from the principal source by number of calendar months not getting sufficient drinking water, separately for households with different principal sources of drinking water

		Kerala														Urban			
principal sources of drinking water	percentage of hhs. not getting sufficient drinking water throughout year	number of months of the year during which availability of drinking water was not sufficient														hhs not getting sufficient drinking water throughout year		no. of hhs	
		1	2	3	4	5	6	7	8	9	10	11	12	all	estd. (00)	sample	estd.(00)	sample	
		all	all	all	all	all	all	all	all	all	all	all	all	all	all	all	all	estd.(00)	all
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
1. Bottled water	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	709	25	
2. Piped water into dwelling	5.7	8	30.8	57.1	0	0	0	0	0	0	0	0	4	100	407	12	7127	285	
3. Piped water to yard /plot	17.8	11	29.7	38.6	15.3	0	0	5.4	0	0	0	0	0	100	295	12	1660	66	
4. Piped water from neighbour	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	514	23	
5. Public tap/stand pipe	10.6	93.4	6.6	0	0	0	0	0	0	0	0	0	0	100	228	8	2161	83	
6. Tube well	13.6	0	9.3	90.7	0	0	0	0	0	0	0	0	0	100	380	14	2808	116	
7. Hand pump	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8 Protected well	10.3	6.1	62.5	23.5	7.9	0	0	0	0	0	0	0	0	100	668	33	6471	285	
9. Unprotected well	14.2	12	57.4	23.6	3	3.1	0	0	0	0	0	0	0.9	100	2805	121	19810	819	
10. Public tanker-truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11. Private tanker - truck	100	0	100	0	0	0	0	0	0	0	0	0	0	100	25	1	25	1	
12. Protected spring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13. Unprotected spring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14.. Rain water collection	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15. Tank/pond	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16. Other surface water	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19. Others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
all	11.6	13.6	48.2	31.4	3.8	1.8	0	0.3	0	0	0	0	0.8	100	4808	201	41285	1703	
no. of households	estd.(00)	4808	656	2316	1510	183	87	0	16	0	0	0	0	41	4808	X	X	X	X
	sample	201	28	100	59	8	3	0	1	0	0	0	0	2	201	X	X	X	X

Table 16: Percentage distribution of households not getting sufficient drinking water from the principal source by number of calendar months not getting sufficient drinking water, separately for households with different principal sources of drinking water

		Kerala														Rural + Urban			
principal sources of drinking water	percentage of hhs not getting sufficient drinking water throughout year	number of months of the year during which availability of drinking water was not sufficient														hhs not getting sufficient drinking water throughout year		no. of hhs	
		1	2	3	4	5	6	7	8	9	10	11	12	all	estd. (00)	sample	estd.(00)	sample	
		all	all	all	all	all	all	all	all	all	all	all	all	all	all	all	all	estd.(00)	sample
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
1. Bottled water	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	709	25	
2. Piped water into dwelling	9.5	22.7	38.8	32.9	0	3.8	0	0	0	0	0	0	1.8	100	913	29	9639	384	
3. Piped water to yard /plot	17.5	20.9	39.6	22.3	15.3	0	0	1.9	0	0	0	0	0	100	850	35	4851	203	
4. Piped water from neighbour	14.2	26.3	47.2	26.5	0	0	0	0	0	0	0	0	0	100	138	5	973	41	
5. Public tap/stand pipe	14.2	60.4	10.3	29.3	0	0	0	0	0	0	0	0	0	100	410	15	2894	128	
6. Tube well	12	12	19.1	68.9	0	0	0	0	0	0	0	0	0	100	774	35	6456	274	
7. Hand pump	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98	3	
8 Protected well	17.6	5.5	65.9	21.7	5.1	1.8	0	0	0	0	0	0	0	100	3181	121	18091	742	
9. Unprotected well	17.8	11.5	45.7	33.8	4.4	4.3	0	0	0	0	0	0	0.4	100	6959	283	39152	1524	
10. Public tanker-truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	1	
11. Private tanker - truck	64.1	0	49.3	50.7	0	0	0	0	0	0	0	0	0	100	51	2	79	3	
12. Protected spring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
13. Unprotected spring	39	0	100	0	0	0	0	0	0	0	0	0	0	100	139	3	357	8	
14.. Rain water collection	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	1	
15. Tank/pond	6	0	100	0	0	0	0	0	0	0	0	0	0	100	24	1	394	12	
16. Other surface water	1.3	0	0	100	0	0	0	0	0	0	0	0	0	100	1	1	42	6	
19. Others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
all	16	12.9	47.7	31.6	4.5	2.9	0	0.1	0	0	0	0	0.3	100	13440	530	83766	3355	
no. of households	estd.(00)	13440	1736	6410	4247	599	392	0	16	0	0	0	0	41	13440	X	X	X	X
	sample	530	67	245	168	32	15	0	1	0	0	0	0	2	530	X	X	X	X

Table 17 : Percentage distribution of households stored drinking water by duration of storing drinking water in the main container and percentage of households covered the main container used for storing drinking water separately for different material of the main container

Kerala		Rural							
material of the main container		percentage of households who covered the main container used for storing drinking water	duration of storing drinking water					estd. (00)	sample
			less than 1 day	1 day or more but less than 3 days	3 days or more	all	all		
non-metal :									
earthen		97.8	42.8	53.1	4.1	100.0	1094	46	
plastic		98.9	71.1	26.6	2.2	100.0	9171	381	
other non-metal		100.0	83.5	16.5	0.0	100.0	268	18	
metal :									
iron		0.0	0.0	0.0	0.0	0.0	0	0	
copper		100.0	17.5	82.5	0.0	100.0	44	2	
stainless steel		98.9	84.0	15.0	1.0	100.0	27129	1018	
brass		100.0	61.4	38.6	0.0	100.0	186	10	
other metal		98.6	68.4	31.6	0.0	100.0	3934	152	
all		98.9	78.5	20.3	1.2	100.0	41827	1627	
no.of house holds	estd.(00)	41348	32825	8481	520	41727	x	x	
	sample	1606	1262	345	20	1627	x	x	

Table 17 : Percentage distribution of households stored drinking water by duration of storing drinking water in the main container and percentage of households covered the main container used for storing drinking water separately for different material of the main container								
Kerala			Urban					
material of the main container	percentage of households who covered the main container used for storing drinking water	duration of storing drinking water						
		less than 1 day	1 day or more but less than 3 days	3 days or more	all	estd. (00)	sample	
						all	all	
non-metal :								
earthen	100.0	80.4	18.3	1.3	100.0	722	28	
plastic	99.2	68.1	24.3	7.6	100.0	7318	311	
other non-metal	96.4	91.9	8.1	0.0	100.0	788	30	
metal :								
iron	0.0	0.0	0.0	0.0	0.0	0	0	
copper	100.0	100.0	0.0	0.0	100.0	69	3	
stainless steel	98.3	83.6	15.9	0.6	100.0	27229	1141	
brass	100.0	0.0	100.0	0.0	100.0	35	2	
other metal	100.0	70.7	28.5	0.8	100.0	3651	136	
all	98.6	79.6	18.5	1.9	100.0	39812	1651	
no.of house holds	estd.(00)	39267	31693	7371	747	39812	x	x
	sample	1628	1310	310	31	1651	x	x

Table 17 : Percentage distribution of households stored drinking water by duration of storing drinking water in the main container and percentage of households covered the main container used for storing drinking water separately for different material of the main container									
Kerala			Rural + Urban						
material of the main container		percentage of households who covered the main container used for storing drinking water	duration of storing drinking water					estd. (00)	sample
			less than 1 day	1 day or more but less than 3 days	3 days or more	all	all		
			non-metal :						
earthen		98.7	57.8	39.2	3.0	100.0	1816	74	
plastic		99.0	69.8	25.6	4.6	100.0	16489	692	
other non-metal		97.3	89.8	10.2	0.0	100.0	1055	48	
metal :									
iron		0.0	0.0	0.0	0.0	0.0	0	0	
copper		100.0	67.8	32.2	0.0	100.0	114	5	
stainless steel		98.6	83.8	15.4	0.8	100.0	54358	2159	
brass		100.0	51.8	48.2	0.0	100.0	221	12	
other metal		99.3	69.5	30.1	0.4	100.0	7585	288	
all		98.7	79.0	19.4	1.6	100.0	81638	3278	
no.of house holds	estd.(00)	80614	64518	15853	1267	81638	x	x	
	sample	3234	2572	655	51	33278	x	x	

Table 18: Percentage distribution of households by principal source of water for all household activities excluding drinking, separately for households with different principal sources of drinking water

Kerala		Rural																				
principal sources of drinking water		principal source of water for all																				
		bottled water	piped water into dwelling	piped water to yard/plot	piped water from neighbour	public tap/stand pipe	tube well	hand pump	well		tanker-truck		spring		surface water				all	estd. (00)	sample	
									protected	unprotected	public	private	protected	unprotected	rain water collection	tank/pond	other surface water	others				
bottled water	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
piped water into dwelling	0	89.2	1.5	0	0	5.2	0	0	3.1	0	0	0	0	0	0	0	1	0	100	2512	99	
piped water to yard/plot	0	11.2	85.1	0	0	0	0.7	0	0.9	0	0	0	1.3	0	0	0.8	0	100	3191	137		
piped water from neighbour	0	0	0	79	5.1	15.8	0	0	0	0	0	0	0	0	0	0	0	100	459	18		
public tap/stand pipe	0	0	0	11.8	59.5	21.4	0	0	7.3	0	0	0	0	0	0	0	0	100	733	45		
tube well	0.7	1	1.6	0	0.9	94	0	0.9	1	0	0	0	0	0	0	0	0	100	3648	158		
hand pump	0	0	0	0	0	53.8	22	0	24.6	0	0	0	0	0	0	0	0	100	98	3		
protected well	0	2.2	4.9	0.9	0.5	2.3	0	87.8	0.9	0	0	0	0	0	0	0.2	0.2	100	11621	457		
unprotected well	0	2.2	2	0.4	0.6	0.1	0	0	93.9	0	0	0	0	0	0.2	0.6	0	100	19341	705		
public tanker-truck	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	100	8	1		
private tanker-truck	0	0	52.5	0	0	0	0	0	0	0	47.5	0	0	0	0	0	0	100	54	2		
protected spring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
unprotected spring	0	26	0	0	0	0	0	0	0	0	0	0	74	0	0	0	0	100	357	8		
rain water collection	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	23	1		
tank/pond	0	0	0	6.4	0	0	0	0	0	0	0	0	0	0	93.6	0	0	100	394	12		
other surface water	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	100	42	6		
others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
all	0.1	8.1	8.9	1.5	1.6	9.7	0.1	24.1	43.6	0	0.1	0	0.7	0	1	0.6	0.1	100	42481	1652		
no. of house holds	estd.(00)	24	3426	3797	649	667	4131	42	10237	18503	0	26	0	306	0	408	240	25	42481	X	X	
	sample	1	139	156	26	31	187	2	402	673	0	1	0	8	0	12	13	1	1652	X	X	

Table 18: Percentage distribution of households by principal source of water for all household activities excluding drinking, separately for households with different principal sources of drinking water

Kerala		Urban																				
principal sources of drinking water		principal source of water for all																				
		bottled water	piped water into dwelling	piped water to yard/plot	piped water from neighbour	public tap/stand pipe	tube well	hand pump	well		tanker-truck		spring		surface water				all	estd. (00)	sample	
									protected	unprotected	public	private	protected	unprotected	rain water collection	tank/pond	other surface water	others				
bottled water		0	19.3	0	0	0	34.3	0	11.2	29.7	0	5.5	0	0	0	0	0	0	0	100	709	25
piped water into dwelling		0.3	80	0	0	0	7	0	1.7	11	0	0	0	0	0	0	0	0	0	100	7127	285
piped water to yard/plot		0	7	63.5	0	0.6	1.5	0	3.5	23.9	0	0	0	0	0	0	0	0	0	100	1660	66
piped water from neighbour		0	0	0	75.8	0	7.8	0	0	16.4	0	0	0	0	0	0	0	0	0	100	514	23
public tap/stand pipe		0	0.9	0	0	23.5	54.3	0	1.2	20.2	0	0	0	0	0	0	0	0	0	100	2161	83
tube well		0	1.9	0	0	0	96.4	0	0.2	1.4	0	0	0	0	0	0	0	0	0	100	2808	116
hand pump		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
protected well		0	3	0.9	0	0	0.7	0	92	3.4	0	0	0.1	0	0	0	0	0	0	100	6471	285
unprotected well		0	1.3	0.8	0	0	0.2	0	0	97	0.5	0	0	0	0	0	0.2	0	0	100	19810	819
public tanker-truck		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
private tanker-truck		0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	100	25	1
protected spring		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
unprotected spring		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
rain water collection		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
tank/pond		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
other surface water		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
others		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
all		0.1	15.7	3.1	0.9	1.3	11.6	0	15.1	51.9	0.2	0.1	0	0	0	0	0.1	0	100	41285	1703	
no. of house holds	estd.(00)	24	6477	1267	389	517	4772	0	6241	21413	93	39	5	0	0	0	47	0	41285	X	X	
	sample	1	267	53	17	16	198	0	280	865	3	1	1	0	0	0	1	0	1703	X	X	

Table 18: Percentage distribution of households by principal source of water for all household activities excluding drinking, separately for households with different principal sources of drinking water

Kerala		Rural + Urban																			
principal sources of drinking water		principal source of water for all																			
		bottled water	piped water into dwelling	piped water to yard/plot	piped water from neighbour	public tap/stand pipe	tube well	hand pump	well		tanker-truck		spring		surface water				all	estd. (00)	sample
									protected	unprotected	public	private	protected	unprotected	rain water collection	tank/pond	other surface water	others			
bottled water	0	19.3	0	0	0	34.3	0	11.2	29.7	0	5.5	0	0	0	0	0	0	0	100	709	25
piped water into dwelling	0.3	82.4	0.4	0	0	6.5	0	1.2	8.9	0	0	0	0	0	0	0	0.3	0	100	9639	384
piped water to yard/plot	0	9.8	77.7	0	0.2	0.5	0.4	1.2	8.7	0	0	0	0.9	0	0	0	0.5	0	100	4851	203
piped water from neighbour	0	0	0	77.3	2.4	11.6	0	0	8.7	0	0	0	0	0	0	0	0	0	100	973	41
public tap/stand pipe	0	0.7	0	3	32.6	46	0	0.9	16.9	0	0	0	0	0	0	0	0	0	100	2894	128
tube well	0.4	1.4	0.9	0	0.5	95	0	0.6	1.2	0	0	0	0	0	0	0	0	0	100	6456	274
hand pump	0	0	0	0	0	53.8	22	0	24.6	0	0	0	0	0	0	0	0	0	100	98	3
protected well	0	2.5	3.5	0.6	0.3	1.7	0	89.3	1.8	0	0	0	0	0	0	0	0.2	0.1	100	18091	742
unprotected well	0	1.7	1.4	0.2	0.3	0.2	0	0	95.5	0.2	0	0	0	0	0	0.1	0.4	0	100	39152	1524
public tanker-truck	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	100	8	1
private tanker-truck	0	0	35.9	0	0	0	0	0	31.6	0	32.5	0	0	0	0	0	0	0	100	79	3
protected spring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
unprotected spring	0	26	0	0	0	0	0	0	0	0	0	0	74	0	0	0	0	0	100	357	8
rain water collection	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	23	1
tank/pond	0	0	0	6.4	0	0	0	0	0	0	0	0	0	0	93.6	0	0	0	100	394	12
other surface water	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	0	0	100	42	6
others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
all	0.1	11.8	6	1.2	1.4	10.6	0.1	19.7	47.7	0.1	0.1	0	0.4	0	0.5	0.3	0	0	100	83766	3355
no. of house holds	estd.(00)	48	9903	5065	1038	1185	8903	42	16478	39916	93	65	5	306	0	408	287	25	83766	X	X
	sample	2	406	209	43	47	385	2	682	1538	3	2	1	8	0	12	14	1	3355	X	X

Table 19: Percentage of households getting sufficient water throughout the year for all

Kerala													rural	
state	percentage of households getting water throughout the year for all	percentage of hhs* where water is metered	percentage distribution of hhs** by frequency of supply of water						no.of households*		no. of households**			
			daily	once in two days	once in three days	once in a week	others	all	estd. (00)	sample	estd. (00)	sample		
											all	all		
1	2	3	4	5	6	7	8	9	10	11	14	15		
Kerala	84.5	87.6	58.9	23.4	10.9	2.9	3.9	100	10465	430	14045	593		
no.of house holds	estd.(00)	35892	9167	8271	3290	1526	414	544	14045	X	X	X	X	
	sample	1400	348	366	133	58	15	21	593	X	X	X	X	

Table 19: Percentage of households getting sufficient water throughout the year for all

Kerala													urban	
state	percentage of households getting water throughout the year for all	percentage of hhs* where water is metered	percentage distribution of hhs** by frequency of supply of water						no.of households*		no. of households**			
			daily	once in two days	once in three days	once in a week	others	all	estd. (00)	sample	estd. (00)	sample		
											all	all		
1	2	3	4	5	6	7	8	9	10	11	14	16		
Kerala	92.3	93.2	78.8	14.9	3	1.8	1.6	100	11961	488	16316	662		
no.of house holds	estd.(00)	38108	11152	12862	2427	484	286	256	16316	X	X	X	X	
	sample	1566	458	525	93	21	12	11	662	X	X	X	X	

Table 19: Percentage of households getting sufficient water throughout the year for all

Kerala													rural + urban	
state	percentage of households getting water throughout the year for all	percentage of hhs* where water is metered	percentage distribution of hhs** by frequency of supply of water						no.of households*		no. of households**			
			daily	once in two days	once in three days	once in a week	others	all	estd. (00)	sample	estd. (00)	sample		
1	2	3	4	5	6	7	8	9	10	11	14	16		
Kerala	88.3	90.6	69.6	18.8	6.6	2.3	2.6	100	22425	918	30361	1255		
no.of house holds	estd.(00)	74000	20319	21133	5718	2010	700	800	30361	X	X	X	X	
	sample	2966	806	891	226	79	27	32	1255	X	X	X	X	

Table 20: Percentage distribution of households by payment of water charges and average amount (Rs.) paid for water charges per month for each state/u.t.

Kerala										rural	
state/u.t./ Gr. of NE states/Gr.of Uts/all	percentage distribution of households by payment of water charges					all	average amount of water charges paid per moth where		no. of households		
	usually paid and information on full amount of payment is available	usually paid and information on some amount of payment is available	usually paid but no information on amount paid is separately available	not required to pay	information on full amount of payment is available (Rs.)		information on some amount of payment is available (Rs.)	estd. (00)	sample		
								all	all		
1	2	3	4	5	6	7	8	9	10		
Kerala	21.3	3	1	74.7	100	110.96	154.55	42481	1652		
no.of house holds	estd.(00)	9058	1260	426	31737	42481	X	X	X	X	
	sample	351	47	15	1239	1652	X	X	X	X	

Table 20: Percentage distribution of households by payment of water charges and average amount (Rs.) paid for water charges per month for each state/u.t.

Kerala										Urban									
state/u.t./ Gr. of NE states/Gr.of Uts/all		percentage distribution of households by payment of water charges					average amount of water charges paid per moth where		no. of households										
		usually paid and information on full amount of payment is available	usually paid and information on some amount of payment is available	usually paid but no information on amount paid is separately available	not required to pay	all	information on full amount of payment is available (Rs.)	information on some amount of payment is available (Rs)	estd. (00)	sample									
									all	all									
1	2	3	4	5	6	7	8	9	10										
Kerala		23.2	5.3	4.2	67.3	100	145.46	143.81	41285	1703									
no.of house holds	estd.(00)	9596	2177	1719	27794	41285	X	X	X	X									
	sample	401	91	47	1164	1703	X	X	X	X									

Table 20: Percentage distribution of households by payment of water charges and average amount (Rs.) paid for water charges per month for each state/u.t.

Kerala		Rural + Urban								
state/u.t./ Gr. of NE states/Gr.of Uts/all		percentage distribution of households by payment of water charges				all	average amount of water charges paid per moth where		no. of households	
		usually paid and information on full amount of payment is available	usually paid and information on some amount of payment is available	usually paid but no information on amount paid is separately available	not required to pay		information on full amount of payment is available (Rs.)	information on some amount of payment is available (Rs)	estd. (00)	sample
1		2	3	4	5	6	7	8	9	10
Kerala		22.3	4.1	2.6	71.1	100	128.71	147.74	83766	3355
no.of house holds	estd.(00)	18654	3437	2145	59531	83766	X	X	X	X
	sample	752	138	62	2403	3355	X	X	X	X

Table 21: Percentage distribution of households by access to bathroom for each quintile class on UMPCE

Table 21: Percentage distribution of households by access to bathroom for each quintile class on UMPCE									
Kerala					rural				
quintile class on UMPCE	access to bathroom							number of households	
	exclusive use of household	common use of households in the building	public / community use without payment	public / community use with payment	others	no bathroom	all	estd. (00)	Sample
								all	all
1	2	3	4	5	6	7	8	9	10
0-20	96.7	0.3	0.6	0	1	1.3	100	7240	271
20-40	97.5	1.2	0	0	0.3	1	100	7907	326
40-60	98.4	0.3	0	0	0.9	0.4	100	8183	326
60-80	97.7	0.1	0	0	0.7	1.5	100	9095	335
80-100	98.7	0.8	0	0	0	0.5	100	10057	394
all	97.8	0.6	0.1	0	0.6	0.9	100	42481	1652
Estd (00) No. of households	41564	239	46	0	246	386	42481	X	X
Sample	1614	15	1	0	7	15	1652	X	X

Table 21: Percentage distribution of households by access to bathroom for each quintile class on UMPCE									
Kerala					Urban				
quintile class on UMPCE	access to bathroom							number of households	
	exclusive use of household	common use of households in the building	public / community use without payment	public / community use with payment	others	no bathroom	all	estd. (00)	Sample
								all	all
1	2	3	4	5	6	7	8	9	10
0-20	97.8	1.2	0	0	0.3	0.7	100.0	6465	282
20-40	92.5	5.8	0	0	0.0	1.7	100.0	7746	365
40-60	96.7	2.2	0	0	0.0	1.1	100.0	7797	357
60-80	94.3	5.3	0	0	0.0	0.5	100.0	8843	348
80-100	91.2	7.9	0	0	0.6	0.3	100.0	10434	351
all	94.2	4.8	0	0	0.2	0.8	100	41285	1703
Estd (00) No. of households	38876	1989	0	0	84	336	41285	X	X
Sample	1620	69	0	0	2	12	1703	X	X

Table 21: Percentage distribution of households by access to bathroom for each quintile class on UMPCE									
Kerala					Rural + Urban				
quintile class on UMPCE	access to bathroom							number of households	
	exclusive use of household	common use of households in the building	public / community use without payment	public / community use with payment	others	no bathroom	all	estd. (00)	Sample
								all	all
1	2	3	4	5	6	7	8	9	10
0-20	97.2	0.8	0.3	0	0.7	1.0	100.0	13705	553
20-40	95.0	3.5	0	0	0.2	1.4	100.0	15653	691
40-60	97.6	1.2	0	0	0.5	0.7	100.0	15979	683
60-80	96.0	2.7	0	0	0.4	1.0	100.0	17938	683
80-100	94.9	4.4	0	0	0.3	0.4	100.0	20491	745
all	96.0	2.7	0.1	0	0.4	0.8	100	83766	3355
Estd (00) No. of households	80441	2228	46	0	330	722	83766	X	X
Sample	3234	84	1	0	9	27	3355	X	X

Table 22: Percentage distribution of households by access to bathroom for different household social group and household religion

Kerala										Rural									
household social group / household religion	access to bathroom							number of households											
	exclusive use of household	common use of households in the building	public / community use without payment	public / community use with payment	others	no bathroom	all	estd. (00)	Sample										
								all	all										
1	2	3	4	5	6	7	8	9	10										
ST	86.4	6.6	6.2	0.0	0.0	0.8	100.0	751	26										
SC	92.6	0.3	0.0	0.0	1.1	6.0	100.0	4532	189										
OBC	99.0	0.2	0.0	0.0	0.5	0.3	100.0	24800	986										
Others	98.2	1.0	0.0	0.0	0.5	0.3	100.0	12398	451										
all	97.8	0.6	0.1	0.0	0.6	0.9	100.0	42481	1652										
Hinduism	97.4	0.5	0.2	0	0.6	1.3	100	24729	974										
Islam	99.6	0.4	0.0	0	0	0	100	8123	328										
Christianity	97.9	1	0.0	0	1.1	0	100	8427	297										
Sikhism	100	0	0.0	0	0	0	100	132	3										
Others	93.9	0	0.0	0	0	6.1	100	1070	50										
all	97.8	0.6	0.1	0	0.6	0.9	100	42481	1652										
Estd (00) No. of households	41564	239	46	0	246	386	42481	X	X										
Sample No. of Households	1614	15	1	0	7	15	1652	X	X										

Table 22: Percentage distribution of households by access to bathroom for different household social group and household religion

Kerala					Urban				
household social group / household religion	access to bathroom							number of households	
	exclusive use of household	common use of households in the building	public / community use without payment	public / community use with payment	others	no bathroom	all	estd. (00)	Sample
								all	all
1	2	3	4	5	6	7	8	9	10
ST	86.0	14.0	0.0	0.0	0.0	0.0	100.0	175	8
SC	85.1	9.1	0.0	0.0	0.0	5.8	100.0	3067	126
OBC	95.4	4.2	0.0	0.0	0.1	0.3	100.0	25645	1088
Others	93.9	4.9	0.0	0.0	0.5	0.7	100.0	12398	481
all	94.2	4.8	0.0	0.0	0.2	0.8	100.0	41285	1703
Hinduism	94.3	4.7	0.0	0	0.4	0.6	100	22865	928
Islam	94.3	5.4	0.0	0	0	0.3	100	9602	439
Christianity	93.9	5.4	0.0	0	0	0.7	100	7209	280
Sikhism	100	0	0.0	0	0	0	100	62	2
Others	91.8	0	0.0	0	0	8.2	100	1546	54
all	94.2	4.8	0.0	0	0.2	0.8	100	41285	1703
Estd (00) No. of households	38876	1989	0.0	0.0	84	336	41285	X	X
Sample No. of Households	1620	69	0	0	2	12	1703	X	X

Table 22: Percentage distribution of households by access to bathroom for different household social group and household religion

Kerala					Rural + Urban				
household social group / household religion	access to bathroom							number of households	
	exclusive use of household	common use of households in the building	public / community use without payment	public / community use with payment	others	no bathroom	all	estd. (00)	Sample
								all	all
1	2	3	4	5	6	7	8	9	10
ST	86.3	8.0	5.0	0.0	0.0	0.6	100.0	927	34
SC	89.6	3.8	0.0	0.0	0.7	5.9	100.0	7599	315
OBC	97.2	2.2	0.0	0.0	0.3	0.3	100.0	50445	2074
Others	96.0	3.0	0.0	0.0	0.5	0.5	100.0	24796	932
all	96.0	2.7	0.1	0.0	0.4	0.9	100.0	83766	3355
Hinduism	95.9	2.5	0.1	0	0.5	1.0	100	47594	1902
Islam	96.7	3.1	0.0	0	0	0.1	100	17725	767
Christianity	96.1	3	0.0	0	0.6	0.3	100	15636	577
Sikhism	100	0	0.0	0	0	0	100	194	5
Others	92.7	0	0.0	0	0	7.3	100	2617	104
all	96	2.7	0.1	0	0.4	0.9	100	83766	3355
Estd (00) No. of households	80441	2228	46	0	330	722	83766	X	X
Sample No. of Households	3234	84	1	0	9	27	3355	X	X

Table 23: Percentage distribution of households having access to bathroom by type of bathroom used for each quintile class on UMPCE							
State : Kerala						rural	
Quintile class on UMPCE	distribution of households having access to bathroom					number of households having access to bathroom	
	type of bathroom used			Not used	all	estd. (00)	sample
	attached to the dwelling unit	detached to the dwelling unit but within the household premises	others			all	all
1	2	3	4	5	6	7	8
00-20	38.6	61.1	0.4	0	100	7100	265
20-40	53.5	46	0.3	0.3	100	7827	323
40-60	61.3	37.8	0.9	0	100	8154	324
60-80	68.3	31.7	0	0	100	8959	331
80-100	68.8	31.2	0	0	100	10010	393
all	59.3	40.4	0.3	0	100	42049	1636
no. of households having access to bathroom.Estd (00)	24927	16975	127	20	42049	X	X
Sample	951	680	4	1	1636	X	X

Table 23: Percentage distribution of households having access to bathroom by type of bathroom used for each quintile class on UMPCE							
State : Kerala						Urban	
Quintile class on UMPCE	distribution of households having access to bathroom					number of households having access to bathroom	
	type of bathroom used			Not used	all	estd. (00)	sample
	attached to the dwelling unit	detached to the dwelling unit but within the household premises	others			all	all
1	2	3	4	5	6	7	8
00-20	54.4	45.3	0.3	0	100	6417	280
20-40	62.6	37.4	0.0	0	100	7614	361
40-60	72.2	27.8	0.0	0	100	7708	354
60-80	77.9	22.1	0.0	0	100	8803	346
80-100	86.0	14.0	0.0	0	100	10407	350
all	72.4	27.6	0	0	100	40949	1691
no. of households having access to bathroom. Estd (00)	29637	11295	18	0	40949	X	X
Sample	1232	458	1	0	1691	X	X

Table 23: Percentage distribution of households having access to bathroom by type of bathroom used for each quintile class on UMPCE

State : Kerala						Rural + Urban	
Quintile class on UMPCE	distribution of households having access to bathroom					number of households having access to bathroom	
	type of bathroom used			Not used	all	estd. (00)	sample
	attached to the dwelling unit	detached to the dwelling unit but within the household premises	others			all	all
1	2	3	4	5	6	7	8
00-20	46.1	53.6	0.3	0	100	13516	545
20-40	58.0	41.8	0.2	0.1	100	15441	684
40-60	66.6	32.9	0.5	0	100	15862	678
60-80	73.1	26.9	0.0	0	100	17762	677
80-100	77.6	22.4	0.0	0	100	20417	743
all	65.7	34.1	0.2	0	100	82998	3327
no. of households having access to bathroom. Estd (00)	54563	28270	144	20	100	X	X
Sample	2183	1138	5	1	3327	X	X

Table 24: Percentage distribution of households by distance of dwelling unit from the bathing place for each quintile class on UMPCE

State : Kerala									rural	
Quintile class on UMPCE	within dwelling	distance (km) from bathing place							number of households	
		outside dwelling but within the premises	outside premises at a distance of					all	estd. (00)	sample
			less than 0.2 km	0.2 to 0.5 km	0.5 to 1.0 km	1.0 to 1.5 km	1.5 km or more		all	all
1	2	3	4	5	6	7	8	9	10	11
00-20	41.5	57.2	1.2	0	0	0	0	100	7240	271
20-40	57.1	41.9	1	0	0	0	0	100	7907	326
40-60	61.7	37.4	0.9	0	0	0	0	100	8183	326
60-80	69.6	30	0	0.4	0	0	0	100	9095	335
80-100	69.3	30.7	0	0	0	0	0	100	10057	394
all	60.9	38.4	0.6	0.1	0	0	0	100	42481	1652
no. of households Estd (00)	25877	16319	248	35	0	2	0	42481	X	X
no. of households Sample	991	649	10	1	0	1	0	1652	X	X

Table 24: Percentage distribution of households by distance of dwelling unit from the bathing place for each quintile class on UMPCE

State : Kerala									Urban	
Quintile class on UMPCE	within dwelling	distance (km) from bathing place							number of households	
		outside dwelling but within the premises	outside premises at a distance of					all	estd. (00)	sample
			less than 0.2 km	0.2 to 0.5 km	0.5 to 1.0 km	1.0 to 1.5 km	1.5 km or more		all	all
1	2	3	4	5	6	7	8	9	10	11
00-20	56.5	43.2	0.3	0.0	0.0	0.0	0.0	100.0	6465	282
20-40	61.3	38.7	0.0	0.0	0.0	0.0	0.0	100.0	7746	365
40-60	71.4	28.2	0.0	0.4	0.0	0.0	0.0	100.0	7797	357
60-80	79.8	20.1	0.1	0.0	0.0	0.0	0.0	100.0	8843	348
80-100	86.3	13.7	0.0	0.0	0.0	0.0	0.0	100.0	10434	351
all	72.7	27.1	0.1	0.1	0	0	0	100	41285	1703
no. of households Estd (00)	30033	11195	29	29	0	0	0	41285	X	X
no. of households Sample	1250	450	2	1	0	0	0	1703	X	X

Table 24: Percentage distribution of households by distance of dwelling unit from the bathing place for each quintile class on UMPCE										
State : Kerala									Rural + Urban	
Quintile class on UMPCE	within dwelling	distance (km) from bathing place							number of households	
		outside dwelling but within the premises	outside premises at a distance of					all	estd. (00)	sample
			less than 0.2 km	0.2 to 0.5 km	0.5 to 1.0 km	1.0 to 1.5 km	1.5 km or more		all	all
1	2	3	4	5	6	7	8	9	10	11
00-20	48.6	50.6	0.8	0.0	0.0	0.0	0.0	100.0	13705	553
20-40	59.2	40.3	0.5	0.0	0.0	0.0	0.0	100.0	15653	691
40-60	66.4	32.9	0.5	0.2	0.0	0.0	0.0	100.0	15979	683
60-80	74.6	25.1	0.1	0.2	0.0	0.0	0.0	100.0	17938	683
80-100	78.0	22.0	0.0	0.0	0.0	0.0	0.0	100.0	20491	745
all	66.7	32.8	0.3	0.1	0	0	0	100	83766	3355
no. of households Estd (00)	55909	27514	276	64	0	2	0	83766	X	X
no. of households Sample	1099	12	2	0	1	0	0	3355	X	X

Table 25: Percentage distribution of households by access to latrine for each quintile class on UMPCE									
Kerala								rural	
quintile class on UMPCE	access to latrine							number of households	
	exclusive use of household	common use of households in the building	public / community use without payment	public / community use with payment	others	no latrine	all	estd. (00)	Sample
								all	all
1	2	3	4	5	6	7	8	9	10
0-20	96.5	0.8	0.6	0	1.5	0.5	100	7240	271
20-40	98.7	0.6	0	0	0.3	0.4	100	7907	326
40-60	98.5	0	0	0	1.5	0	100	8183	326
60-80	98.5	0.4	0	0	0.7	0.4	100	9095	335
80-100	100	0	0	0	0	0	100	10057	394
all	98.5	0.3	0.1	0	0.9	0.2	100	42481	1652
Estd (00) No. of households	41858	145	46	0	329	103	42481	X	X
Sample No. of households	1628	8	1	0	10	5	1652	X	X

Table 25: Percentage distribution of households by access to latrine for each quintile class on UMPCE

Table 25: Percentage distribution of households by access to latrine for each quintile class on UMPCE									
Kerala					Urban				
quintile class on UMPCE	access to latrine							number of households	
	exclusive use of household	common use of households in the building	public / community use without payment	public / community use with payment	others	no latrine	all	estd. (00)	Sample
								all	all
1	2	3	4	5	6	7	8	9	10
0-20	98.6	0.4	0.0	0.0	0.7	0.4	100	6465	282
20-40	99.4	0.6	0.0	0.0	0.0	0.0	100	7746	365
40-60	99.8	0.0	0.0	0.0	0.2	0.0	100	7797	357
60-80	99.3	0.6	0.0	0.0	0.0	0.1	100	8843	348
80-100	96.7	3.3	0.0	0.0	0.0	0	100.	10434	351
all	98.6	1.1	0	0	0.2	0.1	100	41285	1703
Estd (00) No. of households	40720	466	0	0	62	37	41285	X	X
Sample No. of households	1683	15	0	0	3	2	1703	X	X

Table 25: Percentage distribution of households by access to latrine for each quintile class on UMPCE

Table 25: Percentage distribution of households by access to latrine for each quintile class on UMPCE									
Kerala					Rural + Urban				
quintile class on UMPCE	access to latrine							number of households	
	exclusive use of household	common use of households in the building	public / community use without payment	public / community use with payment	others	no latrine	all	estd. (00)	Sample
								all	all
1	2	3	4	5	6	7	8	9	10
0-20	97.5	0.6	0.3	0.0	1.1	0.4	100	13705	553
20-40	99.0	0.6	0.0	0.0	0.2	0.2	100	15653	691
40-60	99.1	0.0	0.0	0.0	0.9	0.0	100	15979	683
60-80	98.9	0.5	0.0	0.0	0.4	0.3	100	17938	683
80-100	98.3	1.7	0.0	0.0	0.0	0	100	20491	745
all	98.6	0.7	0.1	0	0.5	0.2	100	83766	3355
Estd (00) No. of households	82578	611	46	0	391	140	83766	X	X
Sample No. of households	3311	23	1	0	13	7	3355	X	X

Table 26: Percentage distribution of households having access to latrine by type of latrine used for each quintile class on UMPCE

Kerala														rural	
quintile class on UMPCE	distribution of households having access to latrine												number of households having access to latrine		
	Type of latrine used										not used	all	estd. (00)	Sample	
	Flush / Pour-flush to					Ventilated improved pit latrine	pit latrine with slab	pit latrine without slab/open pit	Composting latrine	Others					
	Piped sewer system	septic tank	twin leach pit	single pit	elsewhere						all	all			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
0-20	0	5.4	1.1	84.3	0	4.7	4.5	0	0	0	0	100	7204	268	
20-40	0	10.5	1.2	79.2	0	6.4	2.6	0	0	0	0	100	7874	325	
40-60	0	15.1	1.5	78.7	0	3.9	0.8	0	0	0	0	100	8183	326	
60-80	0	15.1	1.5	81.2	0	1.6	0.7	0	0	0	0	100	9060	334	
80-100	0.7	26.7	0	72.5	0	0.1	0	0	0	0	0	100	10057	394	
all	0.2	15.3	1	78.8	0	3.1	1.6	0	0	0	0	100	42378	1647	
Estd (00) No. of households having access to latrine	69	6498	435	33395	0	1323	657	0	0	0	0	42378	X	X	
Sample No. of households having access to latrine	2	234	14	1319	0	59	19	0	0	0	0	1647	X	X	

Table 26: Percentage distribution of households having access to latrine by type of latrine used for each quintile class on UMPCE

Kerala														Urban	
quintile class on UMPCE	distribution of households having access to latrine												number of households having access to latrine		
	Type of latrine used											not used	all	estd. (00)	Sample
	Flush / Pour-flush to					Ventilated improved pit latrine	pit latrine with slab	pit latrine without slab/open pit	Composting latrine	Others					
	Piped sewer system	septic tank	twin leach pit	single pit	elsewhere										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0-20	0.8	13.7	1.9	73.4	0	7.6	2.1	0	0	0.5	0	100	6439	281	
20-40	0.6	14.3	0.7	78.8	0	5.4	0	0	0	0	0	100	7746	365	
40-60	0.3	22.4	2.0	74.6	0	0.7	0.1	0	0	0	0	100	7797	357	
60-80	0	33	0.3	65.7	0	0.5	0.4	0	0	0	0	100	8833	347	
80-100	0.2	54.4	0.0	44.8	0	0	0.5	0	0	0	0	100	10434	351	
all	0.4	29.8	0.9	65.7	0	2.5	0.6	0	0	0.1	0	100	41249	1701	
Estd (00) No. of households having access to latrine	148	12329	362	27127	0	1014	235	0	0	34	0	41249	X	X	
Sample No. of households having access to latrine	7	475	10	1148	0	39	21	0	0	1	0	1701	X	X	

Table 26: Percentage distribution of households having access to latrine by type of latrine used for each quintile class on UMPCE

Kerala														Rural + Urban	
quintile class on UMPCE	distribution of households having access to latrine												number of households having access to latrine		
	Type of latrine used											not used	all	estd. (00)	Sample
	Flush / Pour-flush to					Ventilated improved pit latrine	pit latrine with slab	pit latrine without slab/open pit	Composting latrine	Others					
	Piped sewer system	septic tank	twin leach pit	single pit	elsewhere						all	all			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
0-20	0.4	9.3	1.5	79.1	0	6.1	3.4	0	0	0.3	0	100	13643	549	
20-40	0.3	12.4	1.0	79	0	5.9	1.3	0	0	0	0	100	15620	690	
40-60	0.2	18.6	1.7	76.7	0	2.4	0.4	0	0	0	0	100	15979	683	
60-80	0	23.9	0.9	73.6	0	1.1	0.6	0	0	0	0	100	17892	681	
80-100	0.5	40.8	0.0	58.4	0	0.1	0.3	0	0	0	0	100	20491	745	
all	0.3	22.5	1	72.3	0	2.8	1.1	0	0	0	0	100	83626	3348	
Estd (00) No. of households having access to latrine	217	18827	797	60521	0	2337	892	0	0	34	0	83626	X	X	
Sample No. of households having access to latrine	9	709	24	2467	0	98	40	0	0	1	0	3348	X	X	

Table 27: Percentage distribution of households having access to latrine by type of latrine used for different household social group and household religion															
Kerala													rural		
household social group / household religion	distribution of households having access to latrine												number of households having access to latrine		
	Type of latrine used											not used	all	estd. (00)	Sample
	Flush / Pour-flush to					Ventilated improved pit latrine	pit latrine with slab	pit latrine without slab/open pit	Composting latrine	Others					
	Piped sewer system	septic tank	twin leach pit	single pit	elsewhere						all	all			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
ST	0	4.5	0	69.6	0	13.5	12.4	0	0	0	0	100	749	25	
SC	0	7	2.1	88.3	0	0.8	1.8	0	0	0	0	100	4500	188	
OBC	0	12.5	1	82.1	0	3.5	0.9	0	0	0	0	100	24732	983	
Others	0.6	24.6	0.7	69.4	0	2.6	2.2	0	0	0	0	100	12398	451	
all	0.2	15.3	1	78.8	0	3.1	1.6	0	0	0	0	100	42378	1647	
Hinduism	0.1	16.7	1.5	78.2	0	1.6	1.8	0	0	0	0	100	24625	969	
Islam	0	8.2	0.4	81.6	0	8.9	1	0	0	0	0	100	8123	328	
Christianity	0.4	18.3	0.1	77.3	0	2.3	1.6	0	0	0	0	100	8427	297	
Sikhism	0	0	0	100	0	0	0	0	0	0	0	100	132	3	
Others	0	15.2	2.1	81.6	0	1.2	0	0	0	0	0	100	1070	50	
all	0.2	15.3	1	78.8	0	3.1	1.6	0	0	0	0	100	42378	1647	
Estd (00) No. of households	69	6498	435	33395	0	1323	657	0	0	0	0	42378	X	X	
Sample No. of Households	2	234	14	1319	0	59	19	0	0	0	0	1647	X	X	

Table 27: Percentage distribution of households having access to latrine by type of latrine used for different household social group and household religion															
Kerala													Urban		
household social group / household religion	distribution of households having access to latrine												number of households having access to latrine		
	Type of latrine used											not used	all	estd. (00)	Sample
	Flush / Pour-flush to					Ventilated improved pit latrine	pit latrine with slab	pit latrine without slab/open pit	Composting latrine	Others					
	Piped sewer system	septic tank	twin leach pit	single pit	elsewhere						all	all	all		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
ST	0	59.3	0	40.7	0	0	0	0	0	0	0	100	175	8	
SC	0	16.5	0	81.6	0	0.6	1.3	0	0	0	0	100	3030	124	
OBC	0.4	23.2	0.7	71	0	3.8	0.8	0	0	0.1	0	100	25645	1088	
Others	0.4	46.5	1.4	51.5	0	0.1	0	0	0	0	0	100	12398	481	
all	0.4	29.9	0.9	65.8	0	2.5	0.6	0	0	0.1	0	100	41249	1701	
Hinduism	0.7	28.8	1.4	68.1	0	0.4	0.6	0	0	0.1	0	100	22828	926	
Islam	0	16.9	0	72.7	0	9.4	1	0	0	0	0	100	9602	439	
Christianity	0	54.5	0	45.2	0	0.3	0	0	0	0	0	100	7209	280	
Sikhism	0	91.9	0	8.1	0	0	0	0	0	0	0	100	62	2	
Others	0	9.9	3.4	86.7	0	0	0	0	0	0	0	100	1546	54	
all	0.4	29.9	0.9	65.8	0	2.5	0.6	0	0	0.1	0	100	41249	1701	
Estd (00) No. of households	148	12329	362	27127	0	1014	235	0	0	34	0	41249	X	X	
Sample No. of Households	7	475	10	1148	0	39	21	0	0	1	0	1701	X	X	

Table 27: Percentage distribution of households having access to latrine by type of latrine used for different household social group and household religion															
Kerala													Rural + Urban		
household social group / household religion	distribution of households having access to latrine												number of households having access to latrine		
	Type of latrine used											not used	all	estd. (00)	Sample
	Flush / Pour-flush to					Ventilated improved pit latrine	pit latrine with slab	pit latrine without slab/open pit	Composting latrine	Others	all			all	all
	Piped sewer system	septic tank	twin leach pit	single pit	elsewhere							all	all		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
ST	0	14.9	0	64.1	0	11	10	0	0	0	0	100	924	33	
SC	0	10.8	1.3	85.6	0	0.7	1.6	0	0	0	0	100	7530	312	
OBC	0.2	18	0.9	76.4	0	3.7	0.8	0	0	0.1	0	100	50377	2071	
Others	0.5	35.6	1.1	60.4	0	1.3	1.1	0	0	0	0	100	24796	932	
all	0.3	22.5	1	72.4	0	2.8	1.1	0	0	0	0	100	83626	3348	
Hinduism	0.4	22.5	1.4	73.3	0	1	1.2	0	0	0.1	0	100	47454	1895	
Islam	0	12.9	0.2	76.8	0	9.2	1	0	0	0	0	100	17725	767	
Christianity	0.2	35	0.1	62.5	0	1.4	0.9	0	0	0	0	100	15636	577	
Sikhism	0	29.5	0	70.5	0	0	0	0	0	0	0	100	194	5	
Others	0	12.1	2.9	84.6	0	0.5	0	0	0	0	0	100	2617	104	
all	0.3	22.5	1	72.4	0	2.8	1.1	0	0	0	0	100	83626	3348	
Estd (00) No. of households	217	18827	797	60521	0	2337	892	0	0	34	0	83626	X	X	
Sample No. of Households	9	709	24	2467	0	98	40	0	0	1	0	3348	X	X	

Table 28: Percentage distribution of households having dwelling unit with access to latrine by type of latrine used for each area type															
Kerala															
Area Type	distribution of households having access to latrine												number of households having access to latrine		
	Type of latrine used											not used	all	estd. (00)	Sample
	Flush / Pour-flush to					Ventilated improved pit latrine	pit latrine with slab	pit latrine without slab/open pit	Composting latrine	Others					
	Piped sewer system	septic tank	twin leach pit	single pit	elsewhere						all	all			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
notified slum	0	0	0	100	0	0	0	0	0	0	0	100	111	4	
non-notified slum	0	0	0	100	0	0	0	0	0	0	0	100	95	6	
squatter settlement	39.1	0	0	60.9	0	0	0	0	0	0	0	100	252	12	
other areas	0.1	30.2	0.9	65.6	0	2.5	0.6	0	0	0.1	0	100	40791	1679	
all	0.4	29.9	0.9	65.8	0	2.5	0.6	0	0	0.1	0	100	41249	1701	
Estd (00) No. of households	148	12329	362	27127	0	1014	235	0	0	34	0	41249	X	X	
Sample No. of Households	7	475	10	1148	0	39	21	0	0	1	0	1701	X	X	

Table 29: Percentage distribution of households having dwelling unit with access to latrine by type of latrine used for different types of access to latrine														
Kerala													Rural	
access to latrine	distribution of households having access to latrine												number of households having access to latrine	
	Type of latrine used											not used		
	Flush / Pour-flush to					Ventilated improved pit latrine	pit latrine with slab	pit latrine without slab/open pit	Composting latrine	Others				
	Piped sewer system	septic tank	twin leach pit	single pit	elsewhere						estd. (00)		Sample	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
exclusive use of the household	0.2	15.4	0.9	79	0	3.2	1.3	0	0	0	0	100	41858	1628
common use of the households in the building	0	0	0	68	0	0	32	0	0	0	0	100	145	8
public/community latrine without payment	0	0	0	0	0	0	100	0	0	0	0	100	46	1
public/community latrine with payment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Others	0	14.5	14.5	71	0	0	0	0	0	0	0	100	329	10
all	0.2	15.3	1	78.8	0	3.1	1.6	0	0	0	0	100	42378	1647
Estd (00) No. of households	69	6498	435	33395	0	1323	657	0	0	0	0	42378	X	X
Sample No. of Households	2	234	14	1319	0	59	19	0	0	0	0	1647	X	X

Table 29: Percentage distribution of households having dwelling unit with access to latrine by type of latrine used for different types of access to latrine														
Kerala													Urban	
access to latrine	distribution of households having access to latrine												number of households having access to latrine	
	Type of latrine used										not used	all		
	Flush / Pour-flush to					Ventilated improved pit latrine	pit latrine with slab	pit latrine without slab/open pit	Composting latrine	Others				
	Piped sewer system	septic tank	twin leach pit	single pit	elsewhere						estd. (00)	Sample		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
exclusive use of the household	0.4	29.3	0.9	66.3	0	2.5	0.6	0	0	0.1	0	100	40720	1683
common use of the households in the building	0	88.7	0	11.3	0	0	0	0	0	0	0	100	466	15
public/community latrine without payment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
public/community latrine with payment	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Others	0	0	0	100	0	0	0	0	0	0	0	100	62	3
all	0.4	29.9	0.9	65.8	0	2.5	0.6	0	0	0.1	0	100	41249	1701
Estd (00) No. of households	148	12329	362	27127	0	1014	235	0	0	34	0	41249	X	X
Sample No. of Household	7	475	10	1148	0	39	21	0	0	1	0	1701	X	X

Table 29: Percentage distribution of households having dwelling unit with access to latrine by type of latrine used for different types of access to latrine

Kerala													Rural + Urban		
access to latrine	distribution of households having access to latrine												number of households having access to latrine		
	Type of latrine used											not used			all
	Flush / Pour-flush to					Ventilated improved pit latrine	pit latrine with slab	pit latrine without slab/open pit	Composting latrine	Others					
	Piped sewer system	septic tank	twin leach pit	single pit	elsewhere						estd. (00)		Sample		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
exclusive use of the household	0.3	22.2	0.9	72.7	0	2.8	1	0	0	0	0	0	100	82578	3311
common use of the households in the building	0	67.7	0	24.7	0	0	7.6	0	0	0	0	0	100	611	23
public/community latrine without payment	0	0	0	0	0	0	100	0	0	0	0	0	100	46	1
public/community latrine with payment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Others	0	12.2	12.2	75.6	0	0	0	0	0	0	0	0	100	391	13
all	0.3	22.5	1	72.4	0	2.8	1.1	0	0	0	0	0	100	83626	3348
Estd (00) No. of households	217	18827	797	60521	0	2337	892	0	0	34	0	0	83626	X	X
Sample No. of Household	9	709	24	2467	0	98	40	0	0	1	0	0	3348	X	X

Table 30: Percentage of households having bathroom and latrine within the household premises, percentage of households where excreta from septic tank/pit/composting latrine have ever been emptied and percentage distribution of households by agency emptied the excreta last time for each quintile class on UMPCE

Kerala			Rural								no.of hhs.	
quintile class on UMPCE	percentage of hhd. Having bathroom and latrine within the household premises	percentage of households where excreta from septic tank /pit/composting latrine have ever been emptied	agency emptied the excreta last time							estd. (00)	sample	
			panchayath/ municipality/ corporation	private agency	hired labour engaged by household	members of the household	others	not known	all	all	all	
0-20	94	3.5	9.7	10.4	79.9	0	0	0	100	243	11	
20-40	96.2	3.3	0	33.8	55.9	10.4	0	0	100	256	15	
40-60	97.2	4.9	0	0.6	87.1	7.2	5.2	0	100	398	15	
60-80	97.1	5.9	0	25.3	73.6	1.1	0	0	100	532	24	
80-100	98.7	14.5	0	21.8	73.8	2.4	2	0	100	1450	55	
all	96.8	6.9	0.8	19.6	74.5	3.3	1.7	0	100	2880	120	
no.of house holds who have bathroom and latrine within hhd premises	estd.(00)	41117	X	X	X	X	X	X	X	X	X	
	Sample	1602	X	X	X	X	X	X	X	X	X	
no.of house holds who have bathroom and latrine within hhd premises	estd.(00)	X	2880	23	566	2146	95	49	0	2880	X	
	sample	X	120	1	26	86	5	2	0	120	X	

Table 30: Percentage of households having bathroom and latrine within the household premises, percentage of households where excreta from septic tank/pit/composting latrine have ever been emptied and percentage distribution of households by agency emptied the excreta last time for each quintile class on UMPCE

Kerala			Urban								
quintile class on UMPCE	percentage of hhds. Having bathroom and latrine within the household premises	percentage of households where excreta from septic tank /pit/composting latrine have ever been emptied	agency emptied the excreta last time							no.of hhs.	
			panchayath/ municipality/ corporation	private agency	hired labour engaged by household	members of the household	others	not known	all	estd. (00)	sample
										all	all
0-20	94.4	16.9	0	24.8	65.8	6.5	0	2.9	100	1065	43
20-40	95.8	12.7	0	35.2	62.5	2.3	0	0	100	971	39
40-60	95.6	16.6	0	35	62.2	1.8	1	0	100	1284	53
60-80	95.5	18.9	0	32.5	63.1	4.4	0	0	100	1663	71
80-100	98.3	20.3	1.8	37	58.8	1.2	0	1.2	100	2045	69
all	96.1	17.3	0.5	33.5	62	3	0.2	0.8	100	7028	275
no.of house holds who have bathroom and latrine within hhd premises	estd.(00)	39674	X	X	X	X	X	X	X	X	X
	Sample	1640	X	X	X	X	X	X	X	X	X
no.of house holds who have bathroom and latrine within hhd premises	estd.(00)	X	7028	37	2354	4358	212	13	54	7028	X
	sample	X	275	2	93	169	8	1	2	275	X

Table 30: Percentage of households having bathroom and latrine within the household premises, percentage of households where excreta from septic tank/pit/composting latrine have ever been emptied and percentage distribution of households by agency emptied the excreta last time for each quintile class on UMPCE

Kerala			Rural + Urban								
quintile class on UMPCE	percentage of hhds. Having bathroom and latrine within the household premises	percentage of households where excreta from septic tank /pit/composting latrine have ever been emptied	agency emptied the excreta last time							no.of hhs.	
			panchayath/ municipality/ corporation	private agency	hired labour engaged by household	members of the household	others	not known	all	estd. (00)	sample
										all	all
0-20	94.2	9.9	1.8	22.1	68.5	5.3	0	2.3	100	1308	54
20-40	96	7.9	0	34.9	61.1	4	0	0	100	1227	54
40-60	96.4	10.6	0	26.9	68.1	3	2	0	100	1682	68
60-80	96.3	12.4	0	30.8	65.6	3.6	0	0	100	2195	95
80-100	98.5	17.4	1	30.7	65	1.7	0.8	0.7	100	3496	124
all	96.4	12	0.6	29.5	65.6	3.1	0.6	0.5	100	9908	395
no.of house holds who have bathroom and latrine within hhd premises	estd.(00)	80791	X	X	X	X	X	X	X	X	X
	Sample	3242	X	X	X	X	X	X	X	X	X
no.of house holds who have bathroom and latrine within hhd premises	estd.(00)	X	9908	60	2920	6504	307	62	54	9908	X
	sample	X	395	3	119	255	13	3	2	395	X

Table 31: Percentage of households where excreta from septic tank/pit/composting latrine have ever been emptied, average amount paid by the household for emptying excreta last time and percentage distribution of households by place of disposal of excreta last time for each quintile class on UMPCE

Kerala			Rural								
quintile class on UMPCE	percentage of households where excreta from septic tank/pit/ composting latrine have ever been emptied	average amount paid (payable) by the household for emptying excreta last time	place of disposal of excreta last time						no. of hhs.		
			treatment plant	buried in covered twin leach pit/single pit	uncovered pit/open land/pond /river etc.	other places	not known	all	estd. (00)	sample	
									all	all	
0-20	3.5	2679	0	55.3	0	33.7	11	100	243	11	
20-40	3.3	3001	0	45.2	17.3	3.3	34.2	100	256	15	
40-60	4.9	3082	0	29.9	29.6	31.9	8.6	100	398	15	
60-80	5.9	3055	0	43.2	16.6	30.6	9.6	100	532	24	
80-100	14.5	2926	0	56.1	1.1	27.9	14.9	100	1450	55	
all	6.9	2957	0	49.1	9.2	27.3	14.4	100	2880	120	
no.of house holds	estd.(00)	2880	X	0	1413	266	785	415	2880	X	X
	sample	120	X	0	53	8	32	27	120	X	X

Table 31: Percentage of households where excreta from septic tank/pit/composting latrine have ever been emptied, average amount paid by the household for emptying excreta last time and percentage distribution of households by place of disposal of excreta last time for each quintile class on UMPCE

Kerala			Urban								
quintile class on UMPCE	percentage of households where excreta from septic tank/pit/ composting latrine have ever been emptied	average amount paid (payable) by the household for emptying excreta last time	place of disposal of excreta last time						no. of hhs.		
			treatment plant	buried in covered twin leach pit/single pit	uncovered pit/open land/pond /river etc.	other places	not known	all	estd. (00)	sample	
									all	all	
0-20	16.9	4273	0	51.8	16.7	7.4	24	100	1065	43	
20-40	12.7	4297	0	47.8	7.4	12.2	32.7	100	971	39	
40-60	16.6	3334	2.3	33.9	11.8	21.7	30.3	100	1284	53	
60-80	18.9	3472	0	29.1	19.7	14.2	36.9	100	1663	71	
80-100	20.3	3457	0	30.1	17.4	8.7	43.8	100	2045	69	
all	17.3	3678	0.4	36.3	15.5	12.7	35.2	100	7028	275	
no.of house holds	estd.(00)	7028	X	29	2552	1086	889	2472	7028	X	X
	sample	275	X	1	102	43	43	86	275	X	X

Table 31: Percentage of households where excreta from septic tank/pit/composting latrine have ever been emptied, average amount paid by the household for emptying excreta last time and percentage distribution of households by place of disposal of excreta last time for each quintile class on UMPCE

Kerala			Rural + Urban								
quintile class on UMPCE	percentage of households where excreta from septic tank/pit/ composting latrine have ever been emptied	average amount paid (payable) by the household for emptying excreta last time	place of disposal of excreta last time						no. of hhs.		
			treatment plant	buried in covered twin leach pit/single pit	uncovered pit/open land/pond /river etc.	other places	not known	all	estd. (00)	sample	
									all	all	
0-20	9.9	3977	0	52.5	13.6	12.3	21.6	100	1308	54	
20-40	7.9	4027	0	47.2	9.5	10.3	33	100	1227	54	
40-60	10.6	3274	1.7	33	16	24.1	25.2	100	1682	68	
60-80	12.4	3371	0	32.5	19	18.2	30.3	100	2195	95	
80-100	17.4	3236	0	40.9	10.6	16.7	31.8	100	3496	124	
all	12	3468	0.3	40	13.7	16.9	29.1	100	9908	395	
no.of house holds	estd.(00)	9908	X	29	3965	1353	1674	2887	9908	X	X
	sample	395	X	1	155	51	75	113	395	X	X

Table 32: Percentage of households where excreta from septic tank/pit/composting latrine have ever been emptied and percentage distribution of households by frequency of emptying excreta for each quintile class on UMPCE

		Kerala					Rural					
quintile class on UMPCE		percentage of hhds where excreta from septic tank /pit/composting latrine have ever been emptied	frequency of emptying excreta							no. of hhs.		
			once or more in a year	once or more in a year	once or more in a year	once or more in a year	others	not known	all	estd. (00)	sample	
										all	all	
0-20		3.5	0	0	0	59.1	31.4	9.5	100	243	11	
20-40		3.3	0	16.9	21.1	39	0	23	100	256	15	
40-60		4.9	0	0	35.8	31.3	25.6	7.2	100	398	15	
60-80		5.9	0	1.1	42.4	36.6	19.9	0	100	532	24	
80-100		14.5	0	0.8	41.1	44.1	12	1.9	100	1450	55	
all		6.9	0	2.1	35.4	41.8	15.9	4.8	100	2880	120	
no.of house holds	estd.(00)	2880	0	61	1019	1204	459	138	2880	X	X	
	sample	120	0	4	48	44	17	7	120	X	X	

Table 32: Percentage of households where excreta from septic tank/pit/composting latrine have ever been emptied and percentage distribution of households by frequency of emptying excreta for each quintile class on UMPCE

		Kerala	Urban								
quintile class on UMPCE	percentage of hhds where excreta from septic tank /pit/composting latrine have ever been emptied	frequency of emptying excreta							no. of hhs.		
		once or more in a year	once or more in a year	once or more in a year	once or more in a year	others	not known	all	estd. (00)	sample	
									all	all	
0-20	16.9	0	6.4	31	43	4.2	15.3	100	1065	43	
20-40	12.7	0	3.5	40.8	39.4	12.6	3.7	100	971	39	
40-60	16.6	1.2	5.7	56.1	26.2	3.8	7	100	1284	53	
60-80	18.9	1.4	3	30.4	52.4	4.1	8.7	100	1663	71	
80-100	20.3	1.2	2	30.7	44.5	9.5	12.1	100	2045	69	
all	17.3	0.9	3.8	36.7	42.1	6.8	9.7	100	7028	275	
no.of house holds	estd.(00)	7028	63	268	2580	2960	478	680	7028	X	X
	sample	275	3	11	100	113	20	28	275	X	X

Table 32: Percentage of households where excreta from septic tank/pit/composting latrine have ever been emptied and percentage distribution of households by frequency of emptying excreta for each quintile class on UMPCE

		Kerala	Rural + Urban								
quintile class on UMPCE	percentage of hhds where excreta from septic tank /pit/composting latrine have ever been emptied	frequency of emptying excreta							no. of hhs.		
		once or more in a year	once or more in a year	once or more in a year	once or more in a year	others	not known	all	estd. (00)	sample	
									all	all	
0-20	9.9	0	5.2	25.2	46	9.3	14.2	100	1308	54	
20-40	7.9	0	6.3	36.7	39.3	9.9	7.7	100	1227	54	
40-60	10.6	0.9	4.4	51.3	27.4	8.9	7.1	100	1682	68	
60-80	12.4	1.1	2.6	33.3	48.6	7.9	6.6	100	2195	95	
80-100	17.4	0.7	1.5	35	44.4	10.6	7.8	100	3496	124	
all	12	0.6	3.3	36.3	42	9.5	8.3	100	9908	395	
no.of house holds	estd.(00)	9908	63	329	3598	4163	937	818	9908	X	X
	sample	395	3	15	148	157	37	35	395	X	X

Table 33: Percentage distribution of households by disposal of faeces of children of age below 3 years for each quintile class on UMPCE

		Kerala					Rural					
quintile class on UMPCE	percentage of households having children of age below 3 years	disposal of faeces of children of age below 3 year no. of hhs.										
		children used latrine	put/rinsed into latrine	put/rinsed into drain or ditch	thrown into garbage	thrown or left in open area	buried	others	all	estd. (00)	sample	
										all	all	
0-20	17.7	1.8	86.7	0	2.2	7.1	2.1	0	100	1283	47	
20-40	10.6	9.5	81	0	4.3	5.2	0	0	100	840	40	
40-60	13.5	5.4	66.9	2.8	5.7	10.7	8.4	0	100	1107	40	
60-80	6.6	10.1	64.1	0	9.5	8.8	7.4	0	100	597	26	
80-100	4.6	19	56.3	0	0	0.8	12.8	11.2	100	466	20	
all	10.1	7.3	74	0.7	4.3	7.2	5.2	1.3	100	4292	173	
no.of house holds	estd.(00)	4292	312	3178	32	185	309	224	52	4292	X	X
	sample	173	15	126		1 6	14	9	2	173	X	X

Table 33: Percentage distribution of households by disposal of faeces of children of age below 3 years for each quintile class on UMPCE												
Kerala						Urban						
quintile class on UMPCE	percentage of households having children of age below 3 years	disposal of faeces of children of age below 3 year no. of hhs.										
		children used latrine	put/rinsed into latrine	put/rinsed into drain or ditch	thrown into garbage	thrown or left in open area	buried	others	all	estd. (00)	sample	
										all	all	
0-20	17.3	16.5	78	3	1.9	0.6	0	0	100	1121	57	
20-40	10.4	18.2	69.4	3.4	0.4	8.6	0	0	100	803	45	
40-60	11.1	21.8	61.7	0	2.2	9.5	4.7	0	100	864	42	
60-80	7.5	24.9	48	8.6	0	4.5	5.2	8.7	100	662	27	
80-100	5.8	0	79.3	0	0	7.4	3.5	9.9	100	601	24	
all	9.8	16.9	68.1	2.9	1.1	5.7	2.4	2.9	100	4051	195	
no.of house holds	estd.(00)	4051	684	2760	117	44	232	96	117	4051	X	x
	sample	195	30	138	5	3	12	4	3	195	X	x

Table 33: Percentage distribution of households by disposal of faeces of children of age below 3 years for each quintile class on UMPCE												
Kerala						Rural + Urban						
quintile class on UMPCE	percentage of households having children of age below 3 years	disposal of faeces of children of age below 3 year no. of hhs.										
		children used latrine	put/rinsed into latrine	put/rinsed into drain or ditch	thrown into garbage	thrown or left in open area	buried	others	all	estd. (00)	sample	
										all	all	
0-20	17.5	8.7	82.7	1.4	2.1	4.1	1.1	0	100	2403	104	
20-40	10.5	13.7	75.3	1.7	2.4	6.9	0	0	100	1643	85	
40-60	12.3	12.6	64.6	1.6	4.2	10.2	6.8	0	100	1971	82	
60-80	7	17.9	55.7	4.5	4.5	6.5	6.3	4.6	100	1259	53	
80-100	5.2	8.3	69.2	0	0	4.5	7.6	10.4	100	1067	44	
all	10	11.9	71.2	1.8	2.7	6.5	3.8	2.1	100	8344	368	
no.of house holds	estd.(00)	8344	996	5938	149	229	542	321	169	8344	X	X
	sample	368	45	264	6	9	26	13	5	368	X	X

Table 34: Percentage distribution of households by availability of water in or around the latrine used for each quintile class on UMPCE								
Kerala				Rural				
quintile class on UMPCE	availability of water in or around the latrine used							
	water is available with soap/detergent	water is available with ash/mud/sand etc.	only water is available	water is not available	all	estd. (00) all	sample all	
0-20	60	0	40	0	100	7204	268	
20-40	75.5	0.3	24.2	0	100	7874	325	
40-60	86	0	13.6	0.4	100	8183	326	
60-80	81.4	0.2	18.4	0	100	9060	334	
80-100	90.6	0	8.9	0.4	100	10057	394	
all	79.7	0.1	20	0.2	100	42378	1647	
no.of house holds	estd.(00)	33794	45	8460	79	42378	X	X
	sample	1310	3	328	6	1647	X	X

Table 34: Percentage distribution of households by availability of water in or around the latrine used for each quintile class on UMPCE

Kerala		Urban						
quintile class on UMPCE	availability of water in or around the latrine used							
	water is available with soap/detergent	water is available with ash/mud/sand etc.	only water is available	water is not available	all	estd. (00)	sample	
						all	all	
0-20	75.1	1	23.5	0.4	100	6439	281	
20-40	81.2	0.4	18.4	0	100	7746	365	
40-60	85.9	0.4	13.7	0	100	7797	357	
60-80	91.2	0	8.8	0	100	8833	347	
80-100	82.8	0	17.2	0	100	10434	351	
all	83.6	0.3	16	0.1	100	41249	1701	
no.of house holds	estd.(00)	34514	126	6582	27	41249	X	X
	sample	1438	7	255	1	1701	X	X

Table 34: Percentage distribution of households by availability of water in or around the latrine used for each quintile class on UMPCE								
Kerala		Rural + Urban						
quintile class on UMPCE	availability of water in or around the latrine used							
	water is available with soap/detergent	water is available with ash/mud/sand etc.	only water is available	water is not available	all	estd. (00)	sample	
						all	all	
0-20	67.1	0.5	32.2	0.2	100	13643	549	
20-40	78.3	0.4	21.3	0	100	15620	690	
40-60	86	0.2	13.7	0.2	100	15979	683	
60-80	86.2	0.1	13.6	0	100	17892	681	
80-100	86.7	0	13.1	0.2	100	20491	745	
all	81.7	0.2	18	0.1	100	83626	3348	
no.of house holds	estd.(00)	68308	171	15042	105	83626	X	X
	sample	2748	10	583	7	3348	X	X

Table 35: Percentage distribution of households by practice of hand washing before meal for each quintile class on UMPCE								
Kerala					Rural			
quintile class on UMPCE	practice of hand washing before meal					no. of households		
	with water and soap/detergent	with water ash/mud/sand etc.	with water only	no	all	estd. (00)	sample	
						all	all	
0-20	32.7	0	67.3	0	100	7240	271	
20-40	41.2	0	58.8	0	100	7907	326	
40-60	52.1	0.6	47.4	0	100	8183	326	
60-80	54.2	0	45.8	0	100	9095	335	
80-100	58.3	0	41.7	0	100	10057	394	
all	48.7	0.1	51.2	0	100	42481	1652	
no.of house holds	estd.(00)	20677	48	21757	0	42481	X	X
	sample	776	1	875	0	1652	X	X

Table 35: Percentage distribution of households by practice of hand washing before meal for each quintile class on UMPCE								
Kerala					Urban			
quintile class on UMPCE	practice of hand washing before meal					no. of households		
	with water and soap/detergent	with water ash/mud/sand etc.	with water only	no	all	estd. (00)	sample	
						all	all	
0-20	43.4	0.4	56.3	0	100	6465	282	
20-40	50.2	0	49.8	0	100	7746	365	
40-60	57.5	0.2	42.3	0	100	7797	357	
60-80	60.6	0.2	39.2	0	100	8843	348	
80-100	64	0.2	35.8	0	100	10434	351	
all	56.2	0.2	43.6	0	100	41285	1703	
no.of house holds	estd.(00)	23210	81	17994	0	41285	X	X
	sample	930	4	769	0	1703	X	X

Table 35: Percentage distribution of households by practice of hand washing before meal for each quintile class on UMPCE								
Kerala			Rural + Urban					
quintile class on UMPCE		practice of hand washing before meal					no. of households	
		with water and soap/detergent	with water ash/mud/sand etc.	with water only	no	all	estd. (00)	sample
						all	all	
0-20		37.7	0.2	62.1	0	100	13705	553
20-40		45.7	0	54.3	0	100	15653	691
40-60		54.7	0.4	44.9	0	100	15979	683
60-80		57.3	0.1	42.6	0	100	17938	683
80-100		61.2	0.1	38.7	0	100	20491	745
all		52.4	0.2	47.5	0	100	83766	3355
no.of house holds	estd.(00)	43886	129	39751	0	83766	X	X
	sample	1706	5	1644	0	3355	X	X

Table 36: Percentage distribution of households by practice of hand washing after defecation for each quintile class on UMPCE

		Kerala				Rural		
quintile class on UMPCE		practice of hand washing after defecation					no. of households	
		with water and soap/ detergent	with water ash/ mud/ sand etc.	with water only	no	all	estd. (00)	sample
						all	all	
0-20		65.4	0	34.6	0	100	7240	271
20-40		76.3	0.5	23.2	0	100	7907	326
40-60		85.9	0	14.1	0	100	8183	326
60-80		89.4	0	10.6	0	100	9095	335
80-100		89.6	0	10.4	0	100	10057	394
all		82.3	0.1	17.6	0	100	42481	1652
no.of house holds	estd.(00)	34947	37	7498	0	42481	X	X
	sample	1340	1	311	0	1652	X	X

Table 36: Percentage distribution of households by practice of hand washing after defecation for each quintile class on UMPCE

		Kerala				Urban		
quintile class on UMPCE	practice of hand washing after defecation					no. of households		
	with water and soap/ detergent	with water ash/ mud/ sand etc.	with water only	no	all	estd. (00)	sample	
						all	all	
0-20	79.6	0	20.4	0	100	6465	282	
20-40	80	0	20	0	100	7746	365	
40-60	89.4	0.3	10.3	0	100	7797	357	
60-80	96	0	4	0	100	8843	348	
80-100	98.3	0	1.7	0	100	10434	351	
all	89.8	0.1	10.2	0	100	41285	1703	
no.of house holds	estd.(00)	37062	24	4200	0	41285	X	X
	sample	1525	1	177	0	1703	X	X

Table 36: Percentage distribution of households by practice of hand washing after defecation for each quintile class on UMPCE

		Kerala				Rural + Urban		
quintile class on UMPCE	practice of hand washing after defecation					no. of households		
	with water and soap/ detergent	with water ash/ mud/ sand etc.	with water only	no	all	estd. (00)	sample	
						all	all	
0-20	72.1	0	27.9	0	100	13705	553	
20-40	78.2	0.2	21.6	0	100	15653	691	
40-60	87.6	0.1	12.2	0	100	15979	683	
60-80	92.6	0	7.4	0	100	17938	683	
80-100	94.1	0	5.9	0	100	20491	745	
all	86	0.1	14	0	100	83766	3355	
no.of house holds	estd.(00)	72009	61	11697	0	83766	X	X
	sample	2865	2	488	0	3355	X	X

Table 37: Percentage distribution of households living in houses by type of structure of house, average floor area of the dwelling unit for households living in houses in each (i) quintile class on UMPCE and (ii) social group

Kerala		Rural								
quintile class on UMPCE /household social group		type of structure					average floor area of the dwelling unit for households living in houses (0.00 sq. mtr)	number of households living in houses		
		pucca	semi-pucca	serviceable katcha	unserviceable katcha	all		all	estd. (00)	sample
									all	all
0-20		81.9	17.2	0.8	0	0.8	100	65.06	7240	271
20-40		88.2	11.8	0	0	0	100	76.56	7907	326
40-60		91.6	8	0.3	0	0.3	100	80.26	8183	326
60-80		89.3	10.7	0	0	0	100	91.02	9095	335
80-100		92.9	6.2	1	0	1	100	105.01	10057	394
all		89.1	10.4	0.4	0	0.4	100	85.15	42481	1652
ST		95.6	4.4	0	0	0	100	66.3	751	26
SC		85.5	12.2	2.3	0	2.3	100	57.49	4532	189
OBC		89.1	10.6	0.3	0	0.3	100	81.59	24800	986
Others		90.2	9.8	0	0	0	100	103.51	12398	451
all		89.1	10.4	0.4	0	0.1	100	85.15	42481	1652
no. of house holds living in houses	estd.(00)	37865	4434	182	0	182	42481		X	X
	sample	1484	162	6	0	6	1652		X	X

Table 37: Percentage distribution of households living in houses by type of structure of house, average floor area of the dwelling unit for households living in houses in each (i) quintile class on UMPCE and (ii) social group

Kerala		Urban								
		type of structure					average floor area of the dwelling unit for households living in houses (0.00 sq. mtr)	number of households living in houses		
quintile class on UMPCE /household social group	estd.(00)	pucca	semi-pucca	serviceable katcha	unserviceable katcha	all		all	estd. (00)	sample
		all	all					all	all	
0-20		95.4	3.9	0.7	0	0.7	100	80.08	2984	123
20-40		94.7	5.3	0	0	0	100	80.75	3008	138
40-60		93.6	6.4	0	0	0	100	108.84	2790	127
60-80		91.7	8.3	0	0	0	100	119.19	2236	79
80-100		88.9	10.9	0.3	0	0.3	100	93.31	30266	1236
all		90.2	9.5	0.2	0	0.2	100	93.89	41285	1703
ST		90	10	0	0	0	100	71.36	175	8
SC		83.8	15.5	0.7	0	0.7	100	64.67	3067	126
OBC		95	4.9	0.1	0	0.1	100	90.98	25645	1088
Others		81.9	17.7	0.4	0	0.4	100	107.46	12398	481
all		90.2	9.5	0.2	0	0.1	100	93.89	41285	1703
no.of house holds living in houses	estd.(00)	37257	3926	102	0	102	41285		X	X
	sample	1551	147	5	0	5	1703		X	X

Table 37: Percentage distribution of households living in houses by type of structure of house, average floor area of the dwelling unit for households living in houses in each (i) quintile class on UMPCE and (ii) social group

Kerala		Rural + Urban								
quintile class on UMPCE /household social group		type of structure					average floor area of the dwelling unit for households living in houses (0.00 sq. mtr)	number of households living in houses		
		pucca	semi-pucca	serviceable katcha	unserviceable katcha	all		all	estd. (00)	sample
									all	all
0-20		85.9	13.4	0.8	0	0.8	100	69.44	10224	394
20-40		90	10	0	0	0	100	77.72	10915	464
40-60		92.1	7.6	0.2	0	0.2	100	87.53	10973	453
60-80		89.8	10.2	0	0	0	100	96.58	11331	414
80-100		89.9	9.7	0.4	0	0.4	100	96.23	40323	1630
all		89.7	10	0.3	0	0.3	100	89.46	83766	3355
ST		94.5	5.5	0	0	0	100	67.26	927	34
SC		84.8	13.5	1.7	0	1.7	100	60.39	7599	315
OBC		92.1	7.7	0.2	0	0.2	100	86.36	50445	2074
Others		86	13.7	0.2	0	0.2	100	105.49	24796	932
all		89.6	10	0.3	0	0.1	100	89.46	83766	3355
no. of house holds living in houses	estd.(00)	75122	8361	284	0	284	83766		X	X
	sample	3035	309	11	0	11	3355		X	X

Table 38: Average plinth level of the house for the households living in houses and percentage distribution of those households by plinth level of the house and experience of flood during last 5 years for each type of structure of the house																
Kerala															Rural	
structure type	average plinth level of the house(0.00 metre)	distribution by plinth level of the house (in metre)							distribution by experience of flood					number of households living in houses		
		no plinth	0.00-0.30	0.30-0.61	0.61-1.00	1.00 or more	n.r.	all	excessive rain during monsoon	river,sea,etc	no	n.r.	all	estd.(00)	sample	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
pucca	0.5	2.1	33.1	63.3	1.4	0.2	0	100	14.1	3	82.9	0	100	37865	1484	
semi-pucca	0.47	11.2	35.4	43.2	8.8	1.3	0	100	12.6	11	76.4	0	100	4434	162	
serviceable katcha	0.24	32.9	53.9	13.2	0	0	0	100	13.8	0	86.2	0	100	182	6	
unserviceable katcha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
all katcha	0.24	32.9	53.9	13.2	0	0	0	100	13.8	0	86.2	0	100	182	6	
all	0.5	3.2	33.4	61	2.1	0.4	0	100	14	3.8	82.2	0	100	42481	1652	
no.of house holds living in houses	estd.(00)		1348	14185	25894	905	149	0	42481	5929	1612	34940	0	42481	X	X
	sample		65	572	973	35	7	0	1652	264	56	1332	0	1652	X	X

Table 38: Average plinth level of the house for the households living in houses and percentage distribution of those households by plinth level of the house and experience of flood during last 5 years for each type of structure of the house																
Kerala								Urban								
structure type	average plinth level of the house(0.00 metre)	distribution by plinth level of the house (in metre)							distribution by experience of flood					number of households living in houses		
		no plinth	0.00-0.30	0.30-0.61	0.61-1.00	1.00 or more	n.r.	all	excessive rain during monsoon	river,sea,etc	no	n.r.	all	estd.(00)	sample	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
pucca	0.47	5.6	36.8	56.6	0.7	0.1	0.1	100	17.9	5.1	77	0	100	37257	1551	
semi-pucca	0.44	2.2	52.1	45.7	0	0	0	100	20.5	10.5	69	0	100	3926	147	
serviceable katcha	0.03	89.7	10.3	0	0	0	0	100	10.3	16.1	73.6	0	100	102	5	
unserviceable katcha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
all katcha	0.03	89.7	10.3	0	0	0	0	100	10.3	16.1	73.6	0	100	102	5	
all	0.46	5.5	38.2	55.4	0.7	0.1	0.1	100	18.1	5.6	76.2	0	100	41285	1703	
no.of house holds living in houses	estd.(00)		2285	15762	22887	272	50	29	41285	7491	2315	31480	0	41285	X	X
	sample		88	632	962	16	4	1	1703	349	65	1289	0	1703	X	X

Table 38: Average plinth level of the house for the households living in houses and percentage distribution of those households by plinth level of the house and experience of flood during last 5 years for each type of structure of the house																
Kerala								Rural + Urban								
structure type	average plinth level of the house(0.00 metre)	distribution by plinth level of the house (in metre)							distribution by experience of flood					number of households living in houses		
		no plinth	0.00-0.30	0.30-0.61	0.61-1.00	1.00 or more	n.r.	all	excessive rain during monsoon	river,sea,etc	no	n.r.	all	estd.(00)	sample	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
pucca	0.48	3.9	34.9	60	1	0.2	0	100	16	4	80	0	100	75122	3035	
semi-pucca	0.45	7	43.2	44.4	4.7	0.7	0	100	16.3	10.8	72.9	0	100	8361	309	
serviceable katcha	0.17	53.3	38.2	8.4	0	0	0	100	12.6	5.8	81.6	0	100	284	11	
unserviceable katcha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
all katcha	0.17	53.3	38.2	8.4	0	0	0	100	12.6	5.8	81.6	0	100	284	11	
all	0.48	4.3	35.8	58.2	1.4	0.2	0	100	16	4.7	79.3	0	100	83766	3355	
no. of house holds living in houses	estd.(00)		3633	29947	48781	1177	199	29	83766	13420	3927	66420	0	83766	X	X
	sample		153	1204	1935	51	11	1	3355	613	121	2621	0	3355	X	X

Table 39: Percentage distribution of households living in houses by use of house and condition of structure for each type of structure

Kerala																			Rural																		
type of structure	use of house																		no.of households living in houses																		
	residential only				residential -cum-commercial				residential -cum-others				all(incl.nr)				estd.(00)	sample																			
	good	satisfactory	bad	all (incl.n.r.)	good	satisfactory	bad	all (incl.n.r.)	good	satisfactory	bad	all (incl.n.r.)	good	satisfactory	bad	all (incl.n.r.)																					
pucca	66.6	28.6	3.2	98.4	0.4	0.5	0	0.9	0.4	0.3	0	0.7	67.4	29.4	3.2	100	37865	1484																			
semi-pucca	39.3	39.3	19	97.6	0.8	1.6	0	2.4	0	0	0	0	40.1	41	19	100	4434	162																			
serviceable katcha	13.2	13.8	73	100	0	0	0	0	0	0	0	0	13.2	13.8	73	100	182	6																			
unserviceable katcha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
all katcha	13.2	13.8	73	100	0	0	0	0	0	0	0	0	13.2	13.8	73	100	182	6																			
all*	63.5	29.7	5.2	98.3	0.4	0.6	0	1	0.4	0.3	0	0.7	64.3	30.5	5.2	100	42481	1652																			
no.of house holds living in houses	estd.(00)	26980	12597	2197	41773	182	260	0	442	151	115	0	266	27313	12972	2197	42481	X	X																		
	sample	1044	501	88	1633	6	8	0	14	3	2	0	5	1053	511	88	1652	X	X																		

Table 39: Percentage distribution of households living in houses by use of house and condition of structure for each type of structure

Kerala																			Urban																		
type of structure	use of house																		no.of households living in houses																		
	residential only				residential -cum-commercial				residential -cum-others				all(incl.nr)				estd.(00)	sample																			
	good	satisfactory	bad	all (incl.n.r.)	good	satisfactory	bad	all (incl.n.r.)	good	satisfactory	bad	all (incl.n.r.)	good	satisfactory	bad	all (incl.n.r.)																					
pucca	73.7	21.2	3.5	98.4	1	0.3	0	1.3	0.2	0.1	0	0.3	74.9	21.6	3.5	100	37257	1551																			
semi-pucca	63.9	24.8	11	99.6	0.4	0	0	0.4	0	0	0	0	64.2	24.8	11	100	3926	147																			
serviceable katcha	10.3	0	89.7	100	0	0	0	0	0	0	0	0	10.3	0	89.7	100	102	5																			
unserviceable katcha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																			
all katcha	10.3	0	89.7	100	0	0	0	0	0	0	0	0	10.3	0	89.7	100	102	5																			
all*	72.6	21.5	4.4	98.6	0.9	0.3	0	1.2	0.2	0.1	0	0.2	73.7	21.8	4.5	100	41285	1703																			
no.of house holds living in houses	estd.(00)	29983	8878	1825	40687	381	117	0	498	79	21	0	100	30444	9017	1825	41285	X	X																		
	sample	1224	379	75	1678	16	4	0	20	4	1	0	5	1244	384	75	1703	X	X																		

Table 39: Percentage distribution of households living in houses by use of house and condition of structure for each type of structure

Kerala																			Rural + Urban	
type of structure	use of house																	no.of households living in houses		
	residential only				residential -cum-commercial				residential -cum-others				all(incl.nr)				estd.(00)	sample		
	good	satisfactory	bad	all (incl.n.r.)	good	satisfactory	bad	all (incl.n.r.)	good	satisfactory	bad	all (incl.n.r.)	good	satisfactory	bad	all (incl.n.r.)				
pucca	70.1	24.9	3.4	98.4	0.7	0.4	0	1.1	0.3	0.2	0	0.5	71.1	25.5	3.4	100	75122	3035		
semi-pucca	50.8	32.5	15.2	98.5	0.6	0.9	0	1.5	0	0	0	0	51.4	33.4	15.2	100	8361	309		
serviceable katcha	12.2	8.8	79	100	0	0	0	0	0	0	0	0	12.2	8.8	79	100	284	11		
unserviceable katcha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
all katcha	12.2	8.8	79	100	0	0	0	0	0	0	0	0	12.2	8.8	79	100	284	11		
all*	68	25.6	4.8	98.4	0.7	0.4	0	1.1	0.3	0.2	0	0.4	68.9	26.2	4.8	100	83766	3355		
no.of house holds living in houses	estd.(00)	56963	21476	4022	82460	563	377	0	940	230	136	0	366	57757	21988	4022	83766	X	X	
	sample	2268	880	163	3311	22	12	0	34	7	3	0	10	2297	895	163	3355	X	X	

Table 40: Percentage of households having separate kitchen and percentage distribution of households by number of floors of the house for each type of structure												
Kerala				Rural								
type of structure		percentage of households having separate kitchen			percentage distribution of households by number of floors of the house						number of households	
		with water tap	with out water tap	all	1	2	3-5	5-10	10 and above	all	estd. (00)	sample
										all	all	
pucca		73.5	22.2	95.8	80	19.9	0.1	0	0	100	37865	1484
semi-pucca		43	40.4	83.4	90.5	9.5	0	0	0	100	4434	162
serviceable katcha		13.8	71.7	85.5	100	0	0	0	0	100	182	6
unserviceable katcha		0	0	0	0	0	0	0	0	0	0	0
all katcha		13.8	71.7	85.5	100	0	0	0	0	100	182	6
all		70.1	24.3	94.4	81.2	18.7	0.1	0	0	100	42481	1652
no.of house holds living in houses	estd.(00)	29773	10338	40111	34475	7967	39	0	0	42481	X	X
	sample	1148	396	1544	1351	300	1	0	0	1652	X	X

Table 40: Percentage of households having separate kitchen and percentage distribution of households by number of floors of the house for each type of structure												
Kerala				Urban								
type of structure		percentage of households having separate kitchen			percentage distribution of households by number of floors of the house						number of households	
		with water tap	with out water tap	all	1	2	3-5	5-10	10 and above	all	estd. (00)	sample
											all	all
pucca		82.7	14.8	97.5	65.7	31.2	3	0	0.1	100	37257	1551
semi-pucca		68.1	31.9	100	81.9	18.1	0	0	0	100	3926	147
serviceable katcha		10.3	42.9	53.2	100	0	0	0	0	100	102	5
unserviceable katcha		0	0	0	0	0	0	0	0	0	0	0
all katcha		10.3	42.9	53.2	100	0	0	0	0	100	102	5
all		81.1	16.5	97.6	67.3	29.9	2.7	0	0.1	100	41285	1703
no.of house holds living in houses	estd.(00)	33496	6797	40293	27795	12352	1115	0	24	41285	X	X
	sample	1395	278	1673	1173	498	31	0	1	1703	X	X

Table 40: Percentage of households having separate kitchen and percentage distribution of households by number of floors of the house for each type of structure

Kerala												Rural + Urban	
type of structure		percentage of households having separate kitchen			percentage distribution of households by number of floors of the house						number of households		
		with water tap	with out water tap	all	1	2	3-5	5-10	10 and above	all	estd. (00)	sample	
											all	all	
pucca		78.1	18.5	96.6	72.9	25.5	1.5	0	0	100	75122	3035	
semi-pucca		54.8	36.4	91.2	86.4	13.6	0	0	0	100	8361	309	
serviceable katcha		12.6	61.3	73.9	100	0	0	0	0	100	284	11	
unserviceable katcha		0	0	0	0	0	0	0	0	0	0	0	
all katcha		12.6	61.3	73.9	100	0	0	0	0	100	284	11	
all		75.5	20.5	96	74.3	24.3	1.4	0	0	100	83766	3355	
no.of house holds living in houses	estd.(00)	63269	17135	80404	62269	20319	1154	0	24	83766	X	X	
	sample	2543	674	3217	2524	798	32	0	1	3355	X	X	

Table 41: Percentage distribution of households with own dwelling unit by period since built for each type of structure

Kerala									Rural	
period since built (years)	type of structure						number of households with own dwelling unit			
	pucca	semi-pucca	serviceable katcha	unserviceable katcha	all katcha	all	estd. (00)	Sample		
less than 1	1.9	0.6	0	0	0	1.7	698	25		
1 – 2	3.3	1.2	14.5	0	14.5	3.1	1241	39		
2 – 3	3.3	1	0	0	0	3	1207	56		
3 – 4	3.1	3.2	0	0	0	3.1	1238	45		
4 – 5	2	1.4	0	0	0	1.9	780	37		
5 – 10	28.9	12.1	14.6	0	14.6	27.1	10866	438		
10 – 20	33.9	18.4	32	0	32	32.3	12950	497		
20 – 40	18.2	33.4	25.7	0	25.7	19.8	7931	295		
40 – 60	4.8	15.9	13.2	0	13.2	6	2406	89		
60 and more	0.5	9.8	0	0	0	1.5	599	23		
not known	0.1	3.1	0	0	0	0.4	158	8		
all	100	100	100	0	100	100	40074	1552		
percentage distn. of households with own dwelling unit	89	10	0	0	0	100	XX	XX		
number of households with own dwelling unit	estd. (00)	35756	4136	182	0	182	40074	XX	XX	
	sample	1396	150	6	0	6	1552	XX	XX	

Table 41: Percentage distribution of households with own dwelling unit by period since built for each type of structure

Kerala									Urban	
period since built (years)	type of structure						number of households with own dwelling unit			
	pucca	semi-pucca	serviceable katcha	unserviceable katcha	all katcha	all	estd. (00)	Sample		
less than 1	1.8	0	19.8	0	19.8	1.7	583	21		
1 – 2	3.8	3	0	0	0	3.7	1299	45		
2 – 3	3.5	0	0	0	0	3.1	1099	46		
3 – 4	3.6	1.5	0	0	0	3.4	1198	49		
4 – 5	3	3	0	0	0	3	1068	46		
5 – 10	23.5	18.7	27	0	27	23	8121	341		
10 – 20	32.6	28.3	10.3	0	10.3	32.1	11336	469		
20 – 40	21.6	23.3	0	0	0	21.7	7666	328		
40 – 60	3.9	13.4	26.8	0	26.8	4.9	1734	75		
60 and more	0.9	2.5	16.1	0	16.1	1.1	381	21		
not known	1.8	6.4	0	0	0	2.3	812	36		
all	100	100	100	0	100	100	35296	1477		
percentage distn. of households	89	10	0	0	0	100	XX	XX		
number of households with own dwelling unit	estd. (00)	31552	3641	102	0	102	35296	XX	XX	
	sample	1338	134	5	0	5	1477	XX	XX	

Table 41: Percentage distribution of households with own dwelling unit by period since built for each type of structure									
Kerala							Rural + Urban		
period since built (years)	type of structure						number of households with own dwelling unit		
	pucca	semi-pucca	serviceable katcha	unserviceable katcha	all katcha	all	estd. (00)	Sample	
less than 1	1.8	0.3	7.1	0	7.1	1.7	1282	46	
1 – 2	3.5	2	9.3	0	9.3	3.4	2540	84	
2 – 3	3.4	0.5	0	0	0	3.1	2306	102	
3 – 4	3.3	2.4	0	0	0	3.2	2436	94	
4 – 5	2.5	2.1	0	0	0	2.5	1848	83	
5 – 10	26.4	15.2	19.1	0	19.1	25.2	18987	779	
10 – 20	33.3	23	24.2	0	24.2	32.2	24286	966	
20 – 40	19.8	28.6	16.4	0	16.4	20.7	15597	623	
40 – 60	4.4	14.7	18.1	0	18.1	5.5	4139	164	
60 and more	0.7	6.4	5.8	0	5.8	1.3	981	44	
not known	0.9	4.6	0	0	0	1.3	970	44	
all	100	100	100	0	100	100	75370	3029	
percentage distn. of households	89	10	0	0	0	100	XX	XX	
number of households with own dwelling unit	estd. (00)	67308	7777	284	0	284	75370	XX	XX
	sample	2734	284	11	0	11	3029	XX	XX

Table 42: Percentage of households having electricity for domestic use and percentage distribution of households having electricity for domestic use by type of electric wiring for each quintile class on UMPCE

Kerala						Rural						
quintile class on UMPCE	percentage of households having electricity for domestic use	type of electric wiring				number of households having electricity for domestic use				number of households		
		conduct	fixed to the walls	temporary	all	estd. (00)		sample		estd.(00)	sample	
						all	all	all	all			
1	2	3	4	5	6	7		8		9	10	
0-20	98.9	75.9	22.5	1.6	100	7159	7159	268	268	7240	271	
20-40	99.3	84.2	14.2	1.6	100	7849	7849	324	324	7907	326	
40-60	99.6	81.8	16	2.2	100	8154	8154	324	324	8183	326	
60-80	99.2	78.4	19.8	1.8	100	9025	9025	333	333	9095	335	
80-100	99.3	86.1	12.9	1	100	9991	9991	393	393	10057	394	
all	99.3	81.6	16.8	1.6	100	42177	42177	1642	1642	42481	1652	
no.of house holds	estd.(00)	42177	34399	7101	677	42177	X	X	X	X	X	X
	sample	1642	1319	296	27	1642	X	X	X	X	X	X

Table 42: Percentage of households having electricity for domestic use and percentage distribution of households having electricity for domestic use by type of electric wiring for each quintile class on UMPCE

Kerala						Urban						
quintile class on UMPCE	percentage of households having electricity for domestic use	type of electric wiring				number of households having electricity for domestic use				number of households		
		conduct	fixed to the walls	temporary	all	estd. (00)		sample		estd.(00)	sample	
						all	all	all	all			
1	2	3	4	5	6	7		8		9	10	
20-40	98.5	90.1	9.9	0	100	2964	2964	135	135	3008	138	
40-60	100	92.4	7.6	0	100	2790	2790	127	127	2790	127	
60-80	98.9	92.9	7.1	0	100	2212	2212	78	78	2236	79	
80-100	99.9	91.6	7.5	0.9	100	30239	30239	1235	1235	30266	1236	
all	99.7	90.9	8.2	0.9	100	41169	41169	1697	1697	41285	1703	
no.of house holds	estd.(00)	41169	37414	3384	370	41169	X	X	X	X	X	X
	sample	1697	1550	133	14	1697	X	X	X	X	X	X

Table 42: Percentage of households having electricity for domestic use and percentage distribution of households having electricity for domestic use by type of electric wiring for each quintile class on UMPCE

Kerala							Rural + Urban					
quintile class on UMPCE	percentage of households having electricity for domestic use	type of electric wiring				number of households having electricity for domestic use				number of households		
		conduct	fixed to the walls	temporary	all	estd. (00)		sample		estd.(00)	sample	
						all	all	all	all			
1	2	3	4	5	6	7		8		9	10	
20-40	99.1	85.8	13	1.2	100	10813	10813	459	459	10915	464	
40-60	99.7	84.5	13.8	1.7	100	10944	10944	451	451	10973	453	
60-80	99.2	81.3	17.3	1.4	100	11237	11237	411	411	11331	414	
80-100	99.8	90.2	8.8	0.9	100	40230	40230	1628	1628	40323	1630	
all	99.5	86.2	12.6	1.3	100	83346	83346	3339	3339	83766	3355	
no.of house holds	estd.(00)	83346	71813	10486	1047	83346	X	X	X	X	X	X
	sample	3339	2869	429	41	3339	X	X	X	X	X	X

Table 43: Percentage distribution of households by system of disposal of household waste water for households with different types of drainage system

Kerala						Rural						
drainage system of the household	percentage distribution of households with the drainage system	system of disposal of household waste water								number of households		
		safe reuse after treatment	disposed of without treatment to				disposed of with or without treatment to other places	not known	all	estd. (00)	sample	
			drainage system	open low land areas/str	ponds	nearby river/nalla				all	all	
1	2	3	4	5	6	7	8	9	10	11	12	
underground	16.2	0.1	8.4	23.7	0	0.5	67.3	0	100	6876	298	
covered pucca	26.3	0	29.9	6	0	0.4	63.1	0.6	100	11176	382	
open pucca	9.4	0	19.3	35.6	0	0	44.4	0.6	100	3985	171	
open katcha	10.4	0	5.4	36.6	0.6	1.8	54.8	0.9	100	4419	206	
no drainage	37.7	0	2.1	15.8	0.2	1.7	79.5	0.7	100	16025	595	
all	100	0	12.4	18.5	0.1	1	67.3	0.7	100	42481	1652	
no.of house holds	estd.(00)		5	5271	7865	58	429	28609	244	42481	X	X
	sample		2	192	314	3	16	1109	16	1652	X	X

Table 43: Percentage distribution of households by system of disposal of household waste water for households with different types of drainage system

Kerala												Urban											
drainage system of the household		percentage distribution of households with the drainage system	safe reuse after treatment	system of disposal of household waste water							number of households												
				disposed of without treatment to				disposed of with or without treatment to other places	not known	all	estd. (00)	sample											
				drainage system	open low land areas/str	ponds	nearby river/nalla				all	all											
1	2	3	4	5	6	7	8	9	10	11	12												
underground	30.4	0.8	27.8	17.2	0.3	0.7	51.6	1.5	100	12556	500												
covered pucca	31.4	0	25.7	5	0	0.4	68.8	0	100	12950	543												
open pucca	10.7	0	9.1	43.4	0	0	44.3	3.2	100	4412	179												
open katcha	8.6	0	2.5	26.8	1.1	4.2	65.4	0	100	3569	163												
no drainage	18.9	0	4.3	34.1	0	1.8	59.8	0	100	7798	318												
all	100	0.3	18.5	20.1	0.2	1.1	59	0.8	100	41285	1703												
no.of house holds	estd.(00)		104	7644	8350	79	434	24339	336	41285	X	X											
	sample		4	338	343	4	21	986	7	1703	X	X											

Table 43: Percentage distribution of households by system of disposal of household waste water for households with different types of drainage system

Kerala												Rural + Urban	
drainage system of the household	percentage distribution of households with the drainage system	system of disposal of household waste water								number of households			
		safe reuse after treatment	disposed of without treatment to				disposed of with or without treatment to other places	not known	all	estd. (00)	sample		
			drainage system	open low land areas/str	ponds	nearby river/nalla				all	all		
1	2	3	4	5	6	7	8	9	10	11	12		
underground	23.2	0.6	20.9	19.5	0.2	0.6	57.1	1	100	19432	798		
covered pucca	28.8	0	27.7	5.5	0	0.4	66.2	0.3	100	24126	925		
open pucca	10	0	14	39.7	0	0	44.3	2	100	8397	350		
open katcha	9.5	0	4.1	32.2	0.8	2.8	59.5	0.5	100	7989	369		
no drainage	28.5	0	2.8	21.8	0.1	1.7	73.1	0.5	100	23823	913		
all	100	0.1	15.4	19.4	0.2	1	63.2	0.7	100	83766	3355		
no.of house holds	estd.(00)		109	12915	16215	137	862	52948	580	83766	X	X	
	sample		6	530	657	7	37	2095	23	3355	X	X	

Table 44: Percentage distribution of households by type of agency made arrangement for collection of garbage of the household for each place of disposal of household garbage

Kerala										Rural									
place of disposal of household garbage		percentage distribution of hhs by place of disposal of household garbage	percentage distribution of households by agency made arrangement for collection of garbage of the household							no.of households									
			panchayet/ municipality/ corporation	resident/ group of residents	others	not known	no arrangement	all	estd. (00)	sample									
									all	all									
bio-gas plant or manure pit		2.9	16	0	1.5	2.8	79.6	100	1220	57									
household's individual dumping spot 100		63.9	0.6	0	0	2.1	97.3	100	27157	973									
community dumping spot:																			
daily		0	0	0	0	0	0	0	0	0									
not daily but at least once in a week		0.2	100	0	0	0	0	100	71	5									
not even once in a week		0	0	0	0	0	0	0	0	0									
not known		0.1	0	100	0	0	0	100	24	1									
all frequency		0.3	74.7	25.3	0	0	0	100	95	6									
common place other than community																			
dumping spot:																			
daily		0	22.3	0	0	0	77.7	100	107	5									
not daily but at least once in a week		0	41.1	0	0	0	58.9	100	139	13									
not even once in a week		1.3	5.2	0	0	0	94.8	100	342	11									
not known		0	1.9	0	0	0	98.1	100	130	5									
all frequency		1.3	14.1	0	0	0	85.9	100	719	34									
others		31.3	10	0	2.3	1.3	86.4	100	13278	579									
not known		0	8.5	0	0	91.5	0	100	13	3									
all		100	4.4	0.1	0.8	1.8	92.9	100	42481	1652									
no. of households	estd. (00)	42481	1870	24	325	779	39484	42481	X	X									
	sample	1652	100	1	17	31	1503	1652	X	X									

Table 44: Percentage distribution of households by type of agency made arrangement for collection of garbage of the household for each place of disposal of household garbage

place of disposal of household garbage		Kerala	Urban					no.of households		
		percentage distribution of hhs by place of disposal of household garbage	percentage distribution of households by agency made arrangement for collection of garbage of the household					estd. (00)	sample	
			panchayet/ municipality/ corporation	resident/ group of residents	others	not known	no arrangement	all	all	all
bio-gas plant or manure pit		1.9	14.6	0.7	0	0	84.7	100	771	32
household's individual dumping spot 100		46.9	9.9	2.3	1.1	1.5	85.2	100	19356	783
community dumping spot:										
daily		1	17.3	0	0	0	82.7	100	430	19
not daily but at least once in a week		0.7	83.8	0	1.6	0	14.6	100	289	22
not even once in a week		0	0	0	0	0	0	0	0	0
not known		0.2	0	35.2	0	64.8	0	100	72	2
all frequency		1.9	40	3.2	0.6	5.9	50.3	100	791	43
common place other than community										
dumping spot:										
daily		0	100	0	0	0	0	100	24	1
not daily but at least once in a week		2	24	18.2	0	0	57.8	100	668	24
not even once in a week		5	3.1	0	0	2.3	94.6	100	2005	71
not known		1	4.7	5.8	0	12.6	76.9	100	601	20
all frequency		8	8.3	4.7	0	3.7	83.2	100	3298	116
others		40.7	19	0.9	5.1	1.2	73.8	100	16789	721
not known		0.6	0	0	0	82.6	17.4	100	281	8
all		100	14.1	1.9	2.6	2.2	79.2	100	41285	1703
no. of households	estd. (00)	41285	5809	782	1079	888	32728	41285	X	X
	sample	1703	272	36	50	26	1319	1703	X	X

Table 44: Percentage distribution of households by type of agency made arrangement for collection of garbage of the household for each place of disposal of household garbage										
Kerala					Rural + Urban					
place of disposal of household garbage	percentage distribution of hhs by place of disposal of household garbage	percentage distribution of households by agency made arrangement for collection of garbage of the household						no.of households		
		panchayet/ municipality/ corporation	resident/ group of residents	others	not known	no arrangement	all	estd. (00)	sample	
								all	all	
bio-gas plant or manure pit	2.4	15.5	0.3	0.9	1.7	81.6	100	1990	89	
household's individual dumping spot	55.5	4.5	1	0.5	1.8	92.3	100	46513	1756	
community dumping spot:										
daily	0.5	17.3	0	0	0	82.7	100	430	19	
not daily but at least once in a week	0.4	87	0	1.3	0	11.7	100	360	27	
not even once in a week	0	0	0	0	0	0	0	0	0	
not known	0.2	0	51.4	0	48.6	0	100	96	3	
all frequency	1.1	43.7	5.6	0.5	5.3	44.9	100	886	49	
common place other than community										
dumping spot:										
daily	0	36.7	0	0	0	63.3	100	131	6	
not daily but at least once in a week	1	27	15	0	0	58	100	807	37	
not even once in a week	3	3.4	0	0	2	94.6	100	2347	82	
not known	1	4.2	4.7	0	10.3	80.7	100	731	25	
all frequency	4.8	9.4	3.9	0	3	83.7	100	4017	150	
others	35.9	15	0.5	3.9	1.2	79.4	100	30067	1300	
not known	0.4	0.4	0	0	83	16.6	100	294	11	
all	100	9.2	1	1.7	2	86.2	100	83766	3355	
no. of households	estd. (00)	83766	7679	806	1404	1667	72212	83766	X	X
	sample	3355	372	37	67	57	2822	3355	X	X

Table 45: Percentage distribution of households by type of approach road / lane /constructed path to the house for each type of structure of the house

		Kerala				rural			
type of structure		approach road / lane /constructed path					all	number of households	
		direct opening to				no direct opening		estd. (00)	sample
		motorable road/lane/ constructed path		other road/lane/ constructed path				all	all
		with street light	without street light	with street light	without street light				
pucca 100		45.2	19.5	8.3	20.2	6.7	100	37865	1484
semi-pucca Reference: 100		35.9	12.8	5.4	37.2	8.6	100	4434	162
serviceable katcha		14.6	27.7	0	13.8	43.9	100	182	6
unserviceable katcha		0	0	0	0	0	0	0	0
all katcha		14.6	27.7	0	13.8	43.9	100	182	6
all		44.1	18.8	8	22	7.1	100	42481	1652
no. of households	estd. (00)	18740	8004	3387	9334	3016	42481	X	X
	sample	735	299	143	369	106	1652	X	X

Table 45: Percentage distribution of households by type of approach road / lane /constructed path to the house for each type of structure of the house

		Kerala				Urban			
type of structure		approach road / lane /constructed path					all	number of households	
		direct opening to				no direct opening		estd. (00)	sample
		motorable road/lane/constructed path		other road/lane/ constructed path				all	all
		with street light	without street light	with street light	without street light				
pucca 100		58.8	8.8	8.9	19.1	4.3	100	37257	1551
semi-pucca Reference: 100		66	7.8	12.4	9.8	4	100	3926	147
serviceable katcha		46.3	0	0	0	53.7	100	102	5
unserviceable katcha		0	0	0	0	0	0	0	0
all katcha		46.3	0	0	0	53.7	100	102	5
all		59.5	8.7	9.2	18.2	4.4	100	41285	1703
no. of households	estd. (00)	24559	3594	3798	7503	1831	41285	X	X
	sample	964	159	163	334	83	1703	X	X

Table 45: Percentage distribution of households by type of approach road / lane /constructed path to the house for each type of structure of the house

		Kerala				Rural + Urban			
type of structure		approach road / lane /constructed path				no direct opening	all	number of households	
		direct opening to						estd. (00)	sample
		motorable road/lane/ constructed path		other road/lane/ constructed path					
		with street light	without street light	with street light	without street light			all	all
pucca 100		52	14.2	8.6	19.7	5.6	100	75122	3035
semi-pucca Reference: 100		50	10.5	8.7	24.3	6.4	100	8361	309
serviceable katcha		26	17.7	0	8.8	47.4	100	284	11
unserviceable katcha		0	0	0	0	0	0	0	0
all katcha		26	17.7	0	8.8	47.4	100	284	11
all		51.7	13.8	8.6	20.1	5.8	100	83766	3355
no. of households	estd. (00)	43299	11599	7185	16837	4847	83766	X	X
	sample	1699	458	306	703	189	3355	X	X

Table 46: Percentage of households faced problem of stagnant water in or around the household premises, reported human faces are visible in or around the household premises, having animal shed/poultry farm and percentage distribution of these households by type of disposal of animal/poultry excreta for each quintile class on UMPCE

Kerala													Rural			
Quintile class on UMPCE	percentage of households faced problem of stagnant water	percentage of households reported human faces are visible	percentage of households having animal shed/poultry			percentage distribution of households having animal shed/poultry farm by type of disposal of animal/poultry excreta						number of households				
			attached to the house	detached from the house	all	to bio-gas plant	manure pit	used as fuel	others	not known	all	having animal shed/poultry farm		all		
												estd.(00)	sample	estd.(00)	sample	
												all	all			
0-20	2.3	0.5	2.2	23.2	25.5	0	65.6	0	29.1	5.4	100	1844	73	7240	271	
20-40	1.7	0.8	4	18.4	22.4	2	52.4	2	38.3	5.2	100	1770	75	7907	326	
40-60	2.2	1.6	2.1	17.8	19.9	4	61.6	0	32.4	2	100	1628	66	8183	326	
60-80	4.6	0	3.7	21.2	24.8	4.2	48.5	6.3	30.9	10.1	100	2260	79	9095	335	
80-100	6.6	0.8	4.2	16.5	20.7	10.5	44.9	1.6	34.4	8.6	100	2078	71	10057	394	
all	3.7	0.7	3.3	19.2	22.5	4.3	54	2.2	32.9	6.6	100	9579	364	42481	1652	
no.of house holds	estd.(00)	1560	311	1405	8175	9579	416	5170	211	3154	628	9579	X	X	X	X
	sample	64	10	54	310	364	17	192	6	114	35	364	X	X	X	X

Table 46: Percentage of households faced problem of stagnant water in or around the household premises, reported human faces are visible in or around the household premises, having animal shed/poultry farm and percentage distribution of these households by type of disposal of animal/poultry excreta for each quintile class on UMPCE

Kerala													Urban			
Quintile class on UMPCE	percentage of households faced problem of stagnant water	percentage of households reported human faces are visible	percentage of households having animal shed/poultry			percentage distribution of households having animal shed/poultry farm by type of disposal of animal/poultry excreta						number of households				
			attached to the house	detached from the house	all	to bio-gas plant	manure pit	used as fuel	others	not known	all	having animal shed/poultry farm		all		
												estd.(00)	sample	estd.(00)	sample	
			all	all												
0-20	2.7	0.6	2.4	17	19.5	0	38.6	0	26.6	34.8	100	581	22	2984	123	
20-40	2.5	1.6	2.1	19.9	22	0	44.5	6.8	29.3	19.3	100	660	29	3008	138	
40-60	0.8	0	1	13.1	14.1	0	36.4	7.2	33	23.5	100	393	15	2790	127	
60-80	2.2	2.2	0	16.6	16.6	7	22.1	10.4	58	2.5	100	372	12	2236	79	
80-100	10.2	0.9	2.8	11.5	14.3	3.2	26.3	10.1	46.8	13.6	100	4319	175	30266	1236	
all	8	0.9	2.4	12.9	15.3	2.6	29.7	8.7	42.9	16.1	100	6326	253	41285	1703	
no.of house holds	estd.(00)	3313	374	1001	5325	6326	164	1880	547	2714	1020	6326	X	X	X	X
	sample	120	15	43	210	253	7	82	18	109	37	253	X	X	X	X

Table 46: Percentage of households faced problem of stagnant water in or around the household premises, reported human faces are visible in or around the household premises, having animal shed/poultry farm and percentage distribution of these households by type of disposal of animal/poultry excreta for each quintile class on UMPCE

Kerala													Rural + Urban			
Quintile class on UMPCE	percentage of households faced problem of stagnant water	percentage of households reported human faces are visible	percentage of households having animal shed/poultry			percentage distribution of households having animal shed/poultry farm by type of disposal of animal/poultry excreta						number of households				
			attached to the house	detached from the house	all	to bio-gas plant	manure pit	used as fuel	others	not known	all	having animal shed/poultry farm		all		
												estd.(00)	sample	estd.(00)	sample	
												all	all			
0-20	2.4	0.5	2.3	21.4	23.7	0	59.1	0	28.5	12.4	100	2425	95	10224	394	
20-40	1.9	1	3.5	18.8	22.3	1.5	50.3	3.3	35.9	9	100	2431	104	10915	464	
40-60	1.8	1.2	1.8	16.6	18.4	3.2	56.7	1.4	32.5	6.1	100	2021	81	10973	453	
60-80	4.1	0.4	3	20.3	23.2	4.6	44.8	6.9	34.7	9	100	2632	91	11331	414	
80-100	9.3	0.8	3.1	12.7	15.9	5.6	32.4	7.3	42.8	12	100	6397	246	40323	1630	
all	5.8	0.8	2.9	16.1	19	3.6	44.3	4.8	36.9	10.4	100	15905	617	83766	3355	
no.of house holds	estd.(00)	4873	686	2405	13500	15905	580	7050	759	5869	1648	15905	X	X	X	X
	sample	184	25	97	520	617	24	274	24	223	72	617	X	X	X	X

Table 47 : Percentage of households reported that during last 365 days they faced problem of flies/mosquitoes, effort was made by local bodies/state government to tackle problem of flies/mosquitoes, effort was made by the household* to tackle problem of flies/mosquitoes, and members of the household suffered from specific type of illness for each quintile class on UMPCE

Kerala												Rural	
percentage of households reporting													
quintile class on UMPCE		problem of flies/mosquitoes		effort was made by local bodies/state government to tackle problem of flies/mosquitoes	effort was made by the household to tackle problem of flies/mosquitoes	specific type of illness suffered by any of the household members					number of households		
		severe	moderate			stomach problems like diarrhea/dysentery/	malaria/dengue / chikungunya/ encephalitis	skin diseases	jaundice	other diseases	estd.(00)	sample	
0-20		20.8	72.2	15.4	88.6	2.7	4.4	4.1	0.6	13.6	7240	271	
20-40		13.2	80.6	22.4	88.7	3.6	3.7	2.8	1.9	12.5	7907	326	
40-60		10.1	84.3	30.9	91.4	0.9	1.1	4.1	1.4	13.7	8183	326	
60-80		11.9	78.7	19.4	88.7	1.2	2.1	1.5	1.1	13.2	9095	335	
80-100		21.2	73	8.9	90.1	0.8	2.1	1.9	0.2	6.6	10057	394	
all		15.5	77.7	19	89.6	1.7	2.6	2.8	1	11.7	42481	1652	
no.of house holds*	estd.(00)	6600	32998	8078	35467	737	1094	1173	432	4959	X	X	
	sample	237	1304	327	1367	36	42	45	15	220	X	X	

Table 47 : Percentage of households reported that during last 365 days they faced problem of flies/mosquitoes, effort was made by local bodies/state government to tackle problem of flies/mosquitoes, effort was made by the household* to tackle problem of flies/mosquitoes, and members of the household suffered from specific type of illness for each quintile class on UMPCE

Kerala												Urban											
quintile class on UMPCE		percentage of households reporting																					
		problem of flies/mosquitoes		effort was made by local bodies/state government to tackle problem of flies/mosquitoes	effort was made by the household to tackle problem of flies/mosquitoes	specific type of illness suffered by any of the household members					number of households												
		severe	moderate			stomach problems like diarrhea/dysentery/	malaria/dengue / chikungunya/ encephalitis	skin diseases	jaundice	other diseases	estd.(00)	sample											
0-20		7.5	82.1	20.7	89.2	5.4	0.3	1.7	0.0	10.4	2984	123											
20-40		8.8	74.3	10.7	90.9	4.2	1.6	2.6	0.9	6.2	3008	138											
40-60		7.1	82.0	10.7	84.2	4.4	2.6	4.9	1.8	5.9	2790	127											
60-80		19.5	73.5	2.5	85.0	1.0	0.0	0.8	0.0	3.9	2236	79											
80-100		28.2	66.5	20.4	83.7	3.2	2.2	2.3	0/5	7.8	30266	1236											
all		23.4	69.6	18.1	84.6	3.4	1.9	2.3	0.5	7.5	41285	1703											
no.of house holds*	estd.(00)	9669	28755	7474	32515	1402	797	965	217	3114	X	X											
	sample	382	1200	321	1350	53	34	39	11	151	X	X											

Table 47 : Percentage of households reported that during last 365 days they faced problem of flies/mosquitoes, effort was made by local bodies/state government to tackle problem of flies/mosquitoes, effort was made by the household* to tackle problem of flies/mosquitoes, and members of the household suffered from specific type of illness for each quintile class on UMPCE

Kerala												Rural + Urban											
quintile class on UMPCE												percentage of households reporting											
												problem of flies/mosquitoes		effort was made by local bodies/state government to tackle problem of flies/mosquitoes	effort was made by the household to tackle problem of flies/mosquitoes	specific type of illness suffered by any of the household members					number of households		
												severe	moderate			stomach problems like diarrhea/dysentery/	malaria/dengue / chikungunya/ encephalitis	skin diseases	jaundice	other diseases	estd.(00)	sample	
0-20	17.0	75.1	16.9	88.7	3.5	3.2	3.4	0.5	12.7	10224	394												
20-40	12.0	78.9	19.2	89.2	3.7	3.1	2.7	1.6	10.8	10915	464												
40-60	9.3	83.7	25.7	89.7	1.8	1.5	4.3	1.5	11.7	10973	453												
60-80	13.4	77.6	16.1	88.0	1.1	1.7	1.3	0.9	11.3	11331	414												
80-100	26.5	68.1	17.5	85.3	2.6	2.2	2.2	0.4	7.5	40323	1630												
all	19.4	73.7	18.6	87.1	2.6	2.3	2.6	0.8	9.6	83766	3355												
no.of house holds*	estd.(00)	16269	61753	15552	67983	2140	1890	2138	650	8072	X	X											
	sample	619	2504	648	2717	89	76	84	26	371	X	X											

Table 48: Percentage distribution of households by type of dwelling and tenurial status of the dwelling for each quintile class on UMPCE

Table 48: Percentage distribution of households by type of dwelling and tenurial status of the dwelling for each quintile class on UMPCE																			
Kerala										Rural									
quintile class on UMPCE	type of dwelling															no of households			
	independent house					flat					others							all	
	tenurial status of dwelling					tenurial status of dwelling					tenurial status of dwelling								
	owned	hired		others	all	owne d	hired		others	all	owne d	hired		others	all				
		empl. Quarter	others				empl. Quarter	others				empl. Quarter	others						
estd.(00)					estd.					estd.					estd.(00)	sample			
all					all					all					all	all			
0-20	96.3	0	2	1	99.3	0	0	0.4	0	0.4	0	0.3	0	0	0.3	100	7240	271	
20-40	94	0	4.6	0.5	99.1	0	0	0.4	0	0.4	0	0	0.5	0	0.5	100	7907	326	
40-60	95.8	0	2.6	0.5	98.8	0	0	0.1	0	0.1	0	0	0.4	0.7	1.1	100	8183	326	
60-80	91.9	0	5.7	1.1	98.8	0	0	0	0	0	0	0	0	1.2	1.2	100	9095	335	
80-100	94.2	0.3	4.4	0	98.8	0	0	0.5	0	0.5	0	0	0	0.7	0.7	100	10057	394	
all	94.3	0.1	4	0.6	99	0	0	0.3	0	0.3	0	0	0.2	0.5	0.7	100	42481	1652	
no.of house holds	estd.(00)	40073	27	1684	253	42036	2	0	117	0	119	0	0	1	2	3	42481	x	x
	sample	1551	1	58	16	1626	1	0	7	0	8	0	1	3	14	18	1652	x	x

Table 48: Percentage distribution of households by type of dwelling and tenurial status of the dwelling for each quintile class on UMPCE

Kerala																			urban		
quintile class on UMPCE		type of dwelling															no of households				
		independent house					flat					others							all		
		tenurial status of dwelling					tenurial status of dwelling					tenurial status of dwelling									
		owned	hired		others	all	owne d	hired		others	all	owne d	hired		others	all					
			empl. Quarter	others				empl. Quarter	others				empl. Quarter	others							
estd.(00)															estd.(00)	sample					
															all	all					
0-20	95.8	0	2.3	0.9	99	0.7	0	0.3	0	1	0	0	0	0	0	100	2984	123			
20-40	88.6	0	2.6	0.8	92	0	0	0	0.5	0.5	0	0	5.6	1.8	7.5	100	3008	138			
40-60	91.4	0	6.8	0	98.2	0	0.5	1.3	0	1.8	0	0	0	0	0	100	2790	127			
60-80	91.1	0	6.9	0	97.9	0	1.6	0.4	0	2.1	0	0	0	0	0	100	2236	79			
80-100	82.3	0.2	9	1.1	92.6	0.8	1.5	4.1	0	6.4	0	0.5	0.6	0	1	100	30266	1236			
all	84.8	0.1	7.8	0.9	93.7	0.7	1.2	3.1	0	5	0	0.4	0.8	0.1	1.3	100	41285	1703			
no.of house holds	estd.(00)	35023	54	3215	380	38673	273	493	1290	15	2071	0	1	3	1	5	41285	x	x		
	sample	1465	3	131	13	1612	12	20	34	2	68	0	1	19	3	23	1703	x	x		

Table 48: Percentage distribution of households by type of dwelling and tenurial status of the dwelling for each quintile class on UMPCE

Kerala																				Rual + Urban																			
quintile class on UMPCE		type of dwelling																no of households																					
		independent house					flat					others								all																			
		tenurial status of dwelling					tenurial status of dwelling					tenurial status of dwelling																											
		owned	hired		others	all	owne d	hired		others	all	owne d	hired		others	all	estd.(00)	sample																					
			empl. Quarter	others				empl. Quarter	others				empl. Quarter	others																									
all	empl. Quarter	others	others	all	owne d	empl. Quarter	others	others	all	owne d	empl. Quarter	others	others	all	all	all																							
0-20	96.1	0	2.1	1	99.2	0.2	0	0.4	0	0.6	0	0.2	0	0	0.2	100	10224	394																					
20-40	92.5	0	4	0.6	97.1	0	0	0.3	0.1	0.4	0	0	1.9	0.5	2.4	100	10915	464																					
40-60	94.7	0	3.6	0.3	98.6	0	0.1	0.4	0	0.5	0	0	0.3	0.5	0.8	100	10973	453																					
60-80	91.8	0	6	0.9	98.6	0	0.3	0.1	0	0.4	0	0	0	1	1	100	11331	414																					
80-100	85.3	0.2	7.9	0.8	94.1	0.6	1.1	3.2	0	4.9	0	0.4	0.4	0.2	0.9	100	40323	1630																					
all	89.6	0.1	5.8	0.8	96.3	0.3	0.6	1.7	0	2.6	0	0.2	0.5	0.3	1.1	100	83766	3355																					
no.of house holds	estd.(00)	75096	81	4899	633	80709	274	493	1408	15	2190	0	2	4	3	9	83766	x	x																				
	sample	3016	4	189	29	3238	13	20	41	2	76	0	2	22	17	41	3355	x	x																				

Table 49: Percentage distribution of households by type of dwelling and tenurial status of the dwelling for each type of structure

Table 49: Percentage distribution of households by type of dwelling and tenurial status of the dwelling for each type of structure																			
Kerala										Rural									
type of structure		type of dwelling															no of households		
		independent house					flat					others							
		tenurial status of dwelling					tenurial status of dwelling					tenurial status of dwelling							
		owned	hired		others	all	owned	hired		others	all	owned	hired		others	all			
			empl. Quarter	others				empl. Quarter	others				empl. Quarter	others					
all	all	all																	
pucca		94.4	0	4	0.6	99	0	0	0.3	0	0.3	0	0	0.1	0.6	0.7	100	37865	1484
semi-pucca		93.3	0.6	4	0.9	98.8	0	0	0	0	0	0	0.5	0.8	0	1.2	100	4434	162
katcha		100	0	0	0	100	0	0	0	0	0	0	0	0	0	0	100	182	6
all		94.3	0.1	4	0.6	99	0	0	0.3	0	0.3	0	0	0.2	0.5	0.8	100	42481	1652
no.of house holds	estd.(00)	40073	27	1684	253	42036	2	0	117	0	119	0	0	1	2	3	42481	x	x
	sample	1551	1	58	16	1626	1	0	7	0	8	0	1	3	14	18	1652	x	x

Table 49: Percentage distribution of households by type of dwelling and tenurial status of the dwelling for each type of structure

Kerala																			Urban																		
type of structure		type of dwelling															no of households																				
		independent house					flat					others							all																		
		tenurial status of dwelling					tenurial status of dwelling					tenurial status of dwelling																									
		owned	hired		others	all	owned	hired		others	all	owned	hired		others	all	estd.(00)	sample																			
empl. Quarter	others		empl. Quarter	others				empl. Quarter	others																												
pucca		84.1	0.1	8	0.9	93.1	0.6	1.3	3.5	0	5.4	0	0.4	0.9	0.2	1.5	100	37257	1551																		
semi-pucca		91.5	0.6	5.5	1.1	98.8	1.2	0	0	0	1.2	0	0	0	0	0	100	3926	147																		
katcha		100	0	0	0	100	0	0	0	0	0	0	0	0	0	0	100	102	5																		
all		84.8	0.1	7.8	0.9	93.7	0.7	1.2	3.1	0	5	0	0.4	0.8	0.1	1.3	100	41285	1703																		
no.of house holds	estd.(00)	35023	54	3215	380	38673	273	493	1290	15	2071	0	1	3	1	5	41285	x	x																		
	sample	1465	3	131	13	1612	12	20	34	2	68	0	1	19	3	23	1703	x	x																		

Table 49: Percentage distribution of households by type of dwelling and tenurial status of the dwelling for each type of structure

Kerala																			Rural + Urban																		
type of structure		type of dwelling															no of households																				
		independent house					flat					others							all																		
		tenurial status of dwelling					tenurial status of dwelling					tenurial status of dwelling																									
		owned	hired		others	all	owned	hired		others	all	owned	hired		others	all	estd.(00)	sample																			
empl. Quarter	others		empl. Quarter	others				empl. Quarter	others				empl. Quarter	others																							
pucca		89.3	0	6	0.7	96.1	0.3	0.7	1.9	0	2.9	0	0.2	0.5	0.4	1.1	100	75122	3035																		
semi-pucca		92.4	0.6	4.7	1	98.8	0.6	0	0	0	0.6	0	0.2	0.4	0	0.7	100	8361	309																		
katcha		100	0	0	0	100	0	0	0	0	0	0	0	0	0	0	100	284	11																		
all		89.6	0.1	5.8	0.8	96.3	0.3	0.6	1.7	0	2.6	0	0.2	0.5	0.3	1	100	83766	3355																		
no.of house holds	estd.(00)	75096	81	4899	633	80709	274	493	1408	15	2190	0	2	4	3	9	83766	x	x																		
	sample	3016	4	189	29	3238	13	20	41	2	76	0	2	22	17	41	3355	x	x																		

Table 50: Average household size (0.0), average number (0.0) of living rooms & other rooms, average floor area (0.00 sq. metre) of the dwelling units of the households and percentage of households with good or satisfactory ventilation of dwelling units by different tenurial status and type of structure of the dwelling

Kerala															Rural														
tenurial status and type of structure of dwelling	avg. hh size (0.0)	average number (0.00) of		average floor area (0.00sq. metre) of the dwelling								percentage of households with good/satisfactory ventilation of dwelling units		number of households															
		living rooms	other rooms	living rooms	other rooms	all room	covered veranda	uncovered veranda	an verand	all	good	satisfactory	estd. (00)	sample															
owned dwelling:																													
pucca	4	3.96	2.94	56.34	24.75	81.1	2.12	5.73	7.86	88.95	71.4	26.5	35756	1396															
semi-pucca	3.8	3.26	2.37	42.5	19.56	62.1	1.39	4.89	6.28	68.34	50	37.7	4136	150															
katcha	3	2.15	1.38	22.16	8.9	31.1	0	2.13	2.13	33.19	0	41.5	182	6															
all	3.9	3.88	2.87	54.75	24.15	78.9	2.04	5.63	7.67	86.57	68.8	27.7	40074	1552															
hired dwelling:																													
pucca	3.3	2.72	2.47	37.72	18.95	56.7	2.31	3.15	5.45	62.12	36.3	56.9	1665	60															
semi-pucca	4.1	3.78	2.01	46.55	15.92	62.5	0.86	4.01	4.87	67.33	37.4	62.6	259	10															
katcha	0	0	0	0	0	0	0	0	0	0	0	0	0	0															
all	3.4	2.86	2.41	38.91	18.54	57.5	2.11	3.26	5.37	62.82	36.5	57.7	1924	70															
other type of dwelling:																													
pucca	3.4	3.24	1.88	43.72	13.21	56.9	0.37	1.47	1.85	58.77	32.6	51.3	444	28															
semi-pucca	2.8	1	1.09	13.52	13.01	26.5	0	0.08	0.08	26.62	0	100	39	2															
katcha	0	0	0	0	0	0	0	0	0	0	0	0	0	0															
all	3.3	3.06	1.82	41.27	13.19	54.5	0.34	1.36	1.7	56.17	29.9	55.3	483	30															
all dwelling:																													
pucca	3.9	3.9	2.9	55.37	24.36	79.7	2.11	5.57	7.68	87.41	69.4	28.1	37865	1484															
semi-pucca	3.8	3.27	2.34	42.48	19.29	61.8	1.35	4.8	6.15	67.91	48.8	39.7	4434	162															
katcha	3	2.15	1.38	22.16	8.9	31.1	0	2.13	2.13	33.19	0	41.5	182	6															
all	3.9	3.83	2.84	53.88	23.77	77.7	2.02	5.47	7.5	85.15	66.9	29.4	42481	1652															
estimated no. (00) of rooms		162596	120505	X	X	X	X	X	X	X	X	X	X	X															
sample no. of rooms		6316	4803	X	X	X	X	X	X	X	X	X	X	X															

Table 50: Average household size (0.0), average number (0.0) of living rooms & other rooms, average floor area (0.00 sq. metre) of the dwelling units of the households and percentage of households with good or satisfactory ventilation of dwelling units by different tenurial status and type of structure of the dwelling

Kerala														
Urban														
tenurial status and type of structure of dwelling	avg. hh size (0.0)	average number (0.00) of		average floor area (0.00sq. metre) of the dwelling							percentage of households with good/satisfactory ventilation of dwelling units		number of households	
		living rooms	other rooms	living rooms	other rooms	all room	covered veranda	uncovered veranda	air veranda	all	good	satisfactory	estd. (00)	sample
owned dwelling:														
pucca	3.9	4.2	3.61	60.54	30.24	90.8	2.72	6.98	9.7	100.5	79.6	19	31552	1338
semi-pucca	3.7	4.11	3.29	60.39	26.83	87.2	1.69	5.13	6.81	94.03	74.8	18.4	3641	134
katcha	3.9	1.8	1.27	25.59	9.14	34.7	2.74	15.93	18.67	53.4	26.4	0	102	5
all	3.9	4.19	3.57	60.42	29.83	90.3	2.61	6.82	9.43	99.69	79	18.9	35296	1477
hired dwelling:														
pucca	3	2.74	2.71	36.27	20.35	56.6	1.04	2.78	3.82	60.45	70.7	27.2	5295	197
semi-pucca	4.2	3.25	2.61	34.74	19.06	53.8	2.67	0.85	3.52	57.33	89.8	0	241	11
katcha	0	0	0	0	0	0	0	0	0	0	0	0	0	0
all	3.1	2.77	2.71	36.21	20.3	56.5	1.11	2.69	3.81	60.31	71.6	26	5536	208
other type of dwelling:														
pucca	2.3	3.11	2.18	34.73	14.51	49.2	0.62	1.68	2.3	51.53	59.5	40.5	409	16
semi-pucca	3.5	3	3.25	38.3	20.89	59.2	3.48	3.49	6.96	66.16	37.4	62.6	44	2
katcha	0	0	0	0	0	0	0	0	0	0	0	0	0	0
all	2.4	3.1	2.29	35.07	15.13	50.2	0.9	1.85	2.75	52.96	57.4	42.6	453	18
all dwelling:														
pucca	3.8	3.98	3.47	56.81	28.67	85.5	2.46	6.33	8.78	94.26	78.2	20.4	37257	1551
semi-pucca	3.8	4.04	3.24	58.57	26.29	84.9	1.77	4.85	6.61	91.46	75.3	17.8	3926	147
katcha	3.9	1.8	1.27	25.59	9.14	34.7	2.74	15.93	18.67	53.4	26.4	0	102	5
all	3.8	3.98	3.44	56.9	28.39	85.3	2.39	6.21	8.6	93.89	77.8	20.1	41285	1703
estimated no. (00) of rooms		164481	142141	X	X	X	X	X	X	X	X	X	X	X
sample no. of rooms		6767	5787	X	X	X	X	X	X	X	X	X	X	X

Table 50: Average household size (0.0), average number (0.0) of living rooms & other rooms, average floor area (0.00 sq. metre) of the dwelling units of the households and percentage of households with good or satisfactory ventilation of dwelling units by different tenurial status and type of structure of the dwelling

		Kerala				Rural + Urban						percentage of households with good/satisfactory ventilation of dwelling units		number of households	
tenurial status and type of structure of dwelling	avg. hh size (0.0)	average number (0.00) of		average floor area (0.00sq. metre) of the dwelling							good	satisfactory	estd. (00)	sample	
		living rooms	other rooms	living rooms	other rooms	all room	covered veranda	uncovered veranda	air veranda	all					
owned dwelling:															
pucca	3.9	4.08	3.25	58.31	27.33	85.6	2.4	6.32	8.72	94.36	75.3	23	67308	2734	
semi-pucca	3.8	3.66	2.8	50.88	22.96	73.8	1.53	5	6.53	80.37	61.6	28.7	7777	284	
katcha	3.3	2.02	1.34	23.39	8.99	32.4	0.99	7.1	8.09	40.47	9.5	26.5	284	11	
all	3.9	4.03	3.2	57.41	26.81	84.2	2.31	6.19	8.49	92.71	73.6	23.6	75370	3029	
hired dwelling:															
pucca	3.1	2.74	2.65	36.62	20.02	56.6	1.34	2.87	4.21	60.85	62.5	34.3	6960	257	
semi-pucca	4.2	3.53	2.3	40.86	17.43	58.3	1.73	2.48	4.22	62.51	62.7	32.4	500	21	
katcha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
all	3.2	2.79	2.63	36.91	19.84	56.8	1.37	2.84	4.21	60.96	62.5	34.2	7460	278	
other type of dwelling:															
pucca	2.8	3.18	2.03	39.41	13.83	53.2	0.49	1.57	2.06	55.3	45.5	46.1	853	44	
semi-pucca	3.2	2.06	2.23	26.64	17.19	43.8	1.84	1.89	3.73	47.56	19.8	80.2	83	4	
katcha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
all	2.9	3.08	2.04	38.27	14.13	52.4	0.61	1.6	2.21	54.61	43.2	49.2	936	48	
all dwelling:															
pucca	3.8	3.94	3.18	56.08	26.5	82.6	2.28	5.95	8.23	90.81	73.7	24.3	75122	3035	
semi-pucca	3.8	3.63	2.76	50.03	22.57	72.6	1.55	4.82	6.37	78.97	61.2	29.4	8361	309	
katcha	3.3	2.02	1.34	23.39	8.99	32.4	0.99	7.1	8.09	40.47	9.5	26.5	284	11	
all	3.8	3.9	3.14	55.37	26.05	81.4	2.21	5.84	8.04	89.46	72.3	24.8	83766	3355	
estimated no. (00) of rooms		327078	262646	X	X	X	X	X	X	X	X	X	X	X	
sample no. of rooms		13083	10590	X	X	X	X	X	X	X	X	X	X	X	

Table 51: Average household size (0.0), average number (0.0) of married couples per household and percentage distribution of households by number of married couple, separately for each quintile class on UMPCE

Kerala											
Rural											
quintile class on UMPCE	average household size(0.0)	average number of married couple per household(0.0)	percentage distribution of households by number of married couples in the household							numer of households	
			zero	one	two	three	four	five or more	all	estd.(00)	sample
										all	all
1	2	3	4	5	6	7	8	9	10	11	13
0-20	4.6	1.1	13.7	63.6	19.3	2.9	0.5	0	100	7240	271
20-40	4.2	1	19.3	65.7	14.4	0.6	0	0	100	7907	326
40-60	4	1	16.5	69.3	12.9	1.3	0	0	100	8183	326
60-80	3.6	0.9	19	71.9	9	0	0	0	100	9095	335
80-100	3.3	0.8	27.2	64.9	7.9	0	0	0	100	10057	394
all	3.9	0.9	19.6	67.2	12.3	0.9	0.1	0	100	42481	1652
no. of	estd (00)		8336	28536	5209	366	34	0	42481	X	X
households	sample		318	1106	208	18	2	0	1652	X	X

Table 51: Average household size (0.0), average number (0.0) of married couples per household and percentage distribution of households by number of married couple, separately for each quintile class on UMPCE

Kerala												Urban											
quintile class on UMPCE		average household size(0.0)	average number of married couple per household(0.0)	percentage distribution of households by number of married couples in the household							numer of households												
				zero	one	two	three	four	five or more	all	estd.(00)	sample											
											all	all											
1	2	3	4	5	6	7	8	9	10	11	13												
0-20	4.9	1	22.2	60.2	14.7	1.3	1.6	0	100	2984	123												
20-40	3.9	0.8	31	57.4	8.7	3	0	0	100	3008	138												
40-60	4	1	18	71.3	7.7	3	0	0	100	2790	127												
60-80	4	0.9	16.2	73.6	9.1	1	0	0	100	2236	79												
80-100	3.6	0.9	23.1	66.3	9.6	1	0	0	100	30266	1236												
all	3.8	0.9	22.9	65.9	9.8	1.3	0.1	0	100	41285	1703												
no. of	estd (00)		9452	27219	4026	541	49	0	41285	X	X												
households	sample		378	1136	162	24	3	0	1703	X	X												

Table 51: Average household size (0.0), average number (0.0) of married couples per household and percentage distribution of households by number of married couple, separately for each quintile class on UMPCE

Kerala												
Rural + Urban												
quintile class on UMPCE		average household size(0.0)	average number of married couple per household(0.0)	percentage distribution of households by number of married couples in the household						numer of households		
				zero	one	two	three	four	five or more	all	estd.(00)	sample
											all	all
1	2	3	4	5	6	7	8	9	10	11	13	
0-20	4.7	1.1	16.2	62.6	18	2.4	0.8	0	100	10224	394	
20-40	4.1	0.9	22.5	63.4	12.9	1.2	0	0	100	10915	464	
40-60	4	1	16.9	69.8	11.6	1.8	0	0	100	10973	453	
60-80	3.7	0.9	18.5	72.3	9	0.2	0	0	100	11331	414	
80-100	3.5	0.9	24.1	65.9	9.2	0.8	0	0	100	40323	1630	
all	3.8	0.9	21.2	66.6	11	1.1	0.1	0	100	83766	3355	
no. of	estd (00)		17787	55754	9235	907	83	0	83766	X	X	
households	sample		696	2242	370	42	5	0	3355	X	X	

Table 52: Percentage of households by number of married couples not getting separate room for different number of married couples of the households for each quintile class on UMPCE

rural

Kerala

quintile class on UMPCE	number of married couples in the household																no. of households		
	1		2		3		4 or more				all household								
	number of married couples not getting separate room																estd. (00)	sample	
	0	1	0	1	2	0	1	2	3	0	1	2	3	4 or more	0	1 or more			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
0-20	95.2	4.8	89.4	3.1	7.5	100	0	0	0	93.2	6.8	0	0	0	94	6	6248	233	
20-40	94.7	5.3	92.7	5.8	1.5	100	0	0	0	0	0	0	0	0	94.4	5.6	6379	264	
40-60	96	4	92.2	4.2	3.6	63.5	36.5	0	0	0	0	0	0	0	94.9	5.1	6831	268	
60-80	98.4	1.6	97	3	0	100	0	0	0	0	0	0	0	0	98.3	1.7	7365	271	
80-100	95.1	4.9	97.4	0.4	2.2	0	0	0	0	0	0	0	0	0	95.4	4.6	7323	298	
all	96	4	93.1	3.5	3.4	89.1	10.9	0	0	93.2	6.8	0	0	0	95.5	4.5	34145	1334	
no. of households	estd (00)	27389	1146	4849	183	177	326	40	0	0	32	2	0	0	0	32597	1548	X	X
	sample	1055	51	189	12	7	17	1	0	0	1	1	0	0	0	1262	72	X	X

Table 52: Percentage of households by number of married couples not getting separate room for different number of married couples of the households for each quintile class on UMPCE

Urban																			Kerala																		
quintile class on UMPCE	number of married couples in the household																		no. of households																		
	1		2			3				4 or more				all household																							
	number of married couples not getting separate room																		estd. (00)	sampl e																	
	0	1	0	1	2	0	1	2	3	0	1	2	3	4 or more	0	1 or more																					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19																			
0-20	87.8	12.2	84.6	15.4	0	100	0	0	0	100	0	0	0	0	87.7	12.3	2323	97																			
20-40	87.2	12.8	82.4	11	6.6	73.2	26.8	0	0	0	0	0	0	0	86	14	2077	99																			
40-60	91.7	8.3	100	0	0	70.4	0	0	29.6	0	0	0	0	0	91.7	8.3	2289	101																			
60-80	86.4	13.6	100	0	0	100	0	0	0	0	0	0	0	0	88.1	11.9	1873	67																			
80-100	94.1	5.9	90.6	6.5	3	100	0	0	0	0	0	0	0	0	93.7	6.3	23272	961																			
all	92.6	7.4	90.4	7.1	2.6	91	4.4	0	4.6	100	0	0	0	0	92.3	7.7	31834	1325																			
no. of households	estd (00)	25198	2020	3638	284	104	492	24	0	25	49	0	0	0	0	29377	2457	X	X																		
	sample	1061	75	145	11	6	22	1	0	1	3	0	0	0	0	1231	94	X	X																		

Table 52: Percentage of households by number of married couples not getting separate room for different number of married couples of the households for each quintile class on UMPCE

Rural + Urban																		Kerala																	
quintile class on UMPCE	number of married couples in the household																	no. of households																	
	1		2			3			4 or more				all household																						
	number of married couples not getting separate room																	estd. (00)	sample																
	0	1	0	1	2	0	1	2	3	0	1	2	3	4 or more	0	1 or more																			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19																	
0-20	93.1	6.9	88.2	6.1	5.7	100	0	0	0	97.2	2.8	0	0	0	92.3	7.7	8571	330																	
20-40	92.8	7.2	90.8	6.8	2.4	82.2	17.8	0	0	0	0	0	0	0	92.3	7.7	8456	363																	
40-60	94.9	5.1	93.5	3.5	3	66.5	20.7	0	12.8	0	0	0	0	0	94.1	5.9	9120	369																	
60-80	96	4	97.6	2.4	0	100	0	0	0	0	0	0	0	0	96.2	3.8	9238	338																	
80-100	94.3	5.7	92	5.2	2.8	100	0	0	0	0	0	0	0	0	94.1	5.9	30595	1259																	
all	94.3	5.7	91.9	5.1	3	90.2	7	0	2.7	97.2	2.8	0	0	0	93.9	6.1	65979	2659																	
no. of households	estd (00)	52588	3167	8487	467	281	818	64	0	25	81	2	0	0	61974	4005	X	X																	
	sample	2116	126	334	23	13	39	2	0	1	4	1	0	0	2493	166	X	X																	

Table 53: Percentage distribution of households by floor area of the dwelling unit and average rent (in Rs.) paid per household for different floor area for each type of structure															
Kerala															
Rural															
type of structure	percentage distn. of households	percentage distribution of households by floor area (sq. m.) of the dwelling unit					average rent (Rs.) paid per household with floor area (sq. meter)					no. of hhs.		no. of hhs. with rent >0	
		less than 25	25-50	50-75	75 or more	all	less than 25	25-50	50-75	75 or more	all	estd. (00)	sample	estd. (00)	sample
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
pucca	86.5	9.8	38.8	24.1	27.3	100	1143.6	2126.3	2536.6	3802.5	2586.9	1665	60	1665	60
semi-pucca	13.5	0	31.3	38	30.7	100	0	1669	3089.7	1277	2087.9	259	10	259	10
serviceable katcha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
unserviceable katcha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
all katcha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
all	100	8.5	37.8	26	27.8	100	1143.6	2075.3	2645.5	3426.4	2519.8	1924	70	1924	70
estd. (00) no. of hhs.	1924	163	727	499	534	1924	X	X	X	X	X	X	X	X	X
sample no. of hhs.	70	6	21	21	22	70	X	X	X	X	X	X	X	X	X
estd. (00) no. of hhs. with rent >0	1924	163	727	499	534	1924	X	X	X	X	X	X	X	X	X
sample no. of hhs. with rent >0	70	6	21	21	22	70	X	X	X	X	X	X	X	X	X

Table 53: Percentage distribution of households by floor area of the dwelling unit and average rent (in Rs.) paid per household for different floor area for each type of structure															
Kerala															
Urban															
type of structure	percentage distn. of households	percentage distribution of households by floor area (sq. m.) of the dwelling unit					average rent (Rs.) paid per household with floor area (sq. meter)					no. of hhs.		no. of hhs. with rent >0	
		less than 25	25-50	50-75	75 or more	all	less than 25	25-50	50-75	75 or more	all	estd. (00)	sample	estd. (00)	sample
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
pucca	95.6	21.4	18.5	30.9	29.1	100	1476.9	3692.4	4271.8	6095.3	4086.7	5295	197	5249	195
semi-pucca	4.4	0	41.4	44.5	14.1	100	0	2759.6	3205.3	4283.7	3172.9	241	11	241	11
serviceable katcha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
unserviceable katcha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
all katcha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
all	100	20.5	19.5	31.5	28.5	100	1476.9	3606.2	4205.5	6055.6	4046.6	5536	208	5490	206
estd. (00) no. of hhs.	5536	1134	1081	1744	1577	5536	X	X	X	X	X	X	X	X	X
sample no. of hhs.	208	30	43	78	57	208	X	X	X	X	X	X	X	X	X
estd. (00) no. of hhs. with rent >0	5490	1134	1081	1723	1551	5490	X	X	X	X	X	X	X	X	X
sample no. of hhs. with rent >0	206	30	43	77	56	206	X	X	X	X	X	X	X	X	X

Table 53: Percentage distribution of households by floor area of the dwelling unit and average rent (in Rs.) paid per household for different floor area for each type of structure															
Kerala Rural + Urban															
type of structure	percentage distn. of households	percentage distribution of households by floor area (sq. m.) of the dwelling unit					average rent (Rs.) paid per household with floor area (sq. meter)					no. of hhs.		no. of hhs. with rent >0	
		less than 25	25-50	50-75	75 or more	all	less than 25	25-50	50-75	75 or more	all	estd. (00)	sample	estd. (00)	sample
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
pucca	93.3	18.6	23.4	29.3	28.7	100	1435.1	3070.7	3926.8	5566.4	3725.5	6960	257	6913	255
semi-pucca	6.7	0	36.2	41.1	22.7	100	0	2271.1	3150	2177.7	2611.1	500	21	500	21
serviceable katcha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
unserviceable katcha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
all katcha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
all	100	17.4	24.2	30.1	28.3	100	1435.1	2990.7	3855	5381.8	3650.4	7460	278	7413	276
estd. (00) no. of hhs.	7460	1297	1808	2244	2111	7460	X	X	X	X	X	X	X	X	X
sample no. of hhs.	278	36	64	99	79	278	X	X	X	X	X	X	X	X	X
estd. (00) no. of hhs. with rent >0	7413	1297	1808	2223	2086	7413	X	X	X	X	X	X	X	X	X
sample no. of hhs. with rent >0	276	36	64	98	78	276	X	X	X	X	X	X	X	X	X

Table 54: Percentage distribution of households by floor area of the dwelling unit and average rent (in Rs) paid per household for different floor area for each type of structure

Kerala																Rural															
type of hired accommodation	percentage distn. of households	percentage distribution of households					average rent (Rs.) paid per household with floor area (sq. meter)					no. of hhs.		no. of hhs. with rent >0																	
		less than 25	25-50	50-75	75 or more	all	less than 25	25-50	50-75	75 or more	all	estd. (00)	sample	estd. (00)	sample																
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)																
1.employer quarter	2.4	0	43.7	56.3	0	100	0	1700	3000	0	2432	47	2	47	2																
2.other hired accommodation																															
2.1 hired accommodation with written contract	70.3	4.2	40.6	30.9	24.3	100	1735	2186	2701	4159	2806	1353	48	1353	48																
2.2 hired accommodation without written contract	27.2	20.3	30	10.4	39.3	100	829.6	1738	2044	2257	1789	524	20	524	20																
3. all hired accommodation (1 & 2)	100	8.5	37.8	26	27.8	100	1144	2075	2646	3426	2520	1924	70	1924	70																
estd. (00) no. of hhs.	1924	163	727	499	534	1924	X	X	X	X	X	X	X	X	X																
sample no. of hhs.	70	6	21	21	22	70	X	X	X	X	X	X	X	X	X																
estd. (00) no. of hhs. with rent>0	1924	163	727	499	534	1924	X	X	X	X	X	X	X	X	X																
sample no. of hhs. with rent>0	70	6	21	21	22	70	X	X	X	X	X	X	X	X	X																

Table 54: Percentage distribution of households by floor area of the dwelling unit and average rent (in Rs) paid per household for different floor area for each type of structure

Kerala																Urban															
type of hired accommodation	percentage distn. of households	percentage distribution of households					average rent (Rs.) paid per household with floor area (sq. meter)					no. of hhs.		no. of hhs. with rent >0																	
		less than 25	25-50	50-75	75 or more	all	less than 25	25-50	50-75	75 or more	all	estd. (00)	sample	estd. (00)	sample																
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)																
1.employer quarter	12.5	39.2	50.2	0.6	9.9	100	1334	3214	1500	2800	2425	693	24	693	24																
2.other hired accommodation																															
2.1 hired accommodation with written contract	68.6	8.6	18.2	38.7	34.5	100	1668	3847	4329	6401	4728	3799	150	3799	150																
2.2 hired accommodation without written contract	18.9	51.3	3.9	26	18.8	100	1433	2859	3533	4705	2578	1044	34	998	32																
3. all hired accommodation (1 & 2)	100	20.5	19.5	31.5	28.5	100	1477	3606	4206	6056	4047	5536	208	5490	206																
estd. (00) no. of hhs.	5536	1134	1081	1744	1577	5536	X	X	X	X	X	X	X	X	X																
sample no. of hhs.	208	30	43	78	57	208	X	X	X	X	X	X	X	X	X																
estd. (00) no. of hhs. with rent>0	5490	1134	1081	1723	1551	5490	X	X	X	X	X	X	X	X	X																
sample no. of hhs. with rent>0	206	30	43	77	56	206	X	X	X	X	X	X	X	X	X																

Table 54: Percentage distribution of households by floor area of the dwelling unit and average rent (in Rs) paid per household for different floor area for each type of structure

		Kerala					Rural + Urban									
type of hired accommodation	percentage distn. of households	percentage distribution of households					average rent (Rs.) paid per household with floor area (sq. meter)					no. of hhs.		no. of hhs. with rent >0		
		less than 25	25-50	50-75	75 or more	all	less than 25	25-50	50-75	75 or more	all	estd. (00)	sample	estd. (00)	sample	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	
1.employer quarter	9.9	36.7	49.8	4.2	9.2	100	1334	3130	2784	2800	2425	740	26	740	26	
2.other hired accommodation																
2.1 hired accommodation with written contract	69.1	7.4	24.1	36.6	31.8	100	1678	3112	3968	5952	4224	5151	198	5151	198	
2.2 hired accommodation without written contract	21	41	12.6	20.8	25.7	100	1333	1966	3266	3366	2306	1568	54	1522	52	
3. all hired accommodation (1 & 2)	100	17.4	24.2	30.1	28.3	100	1435	2991	3855	5382	3650	7460	278	7413	276	
estd. (00) no. of hhs.	7460	1297	1808	2244	2111	7460	X	X	X	X	X	X	X	X	X	
sample no. of hhs.	278	36	64	99	79	278	X	X	X	X	X	X	X	X	X	
estd. (00) no. of hhs. with rent>0	7413	1297	1808	2223	2086	7413	X	X	X	X	X	X	X	X	X	
sample no. of hhs. with rent>0	276	36	64	98	78	276	X	X	X	X	X	X	X	X	X	

Table 55: Percentage distribution of households by type of fuel used for cooking for each quintile class on UMPCE

Kerala																	Rural																
quintile class on UMPCE		type of the fuel used for cooking												no cooking arrangement	all	numer of households																	
		firewood, chips&crop residue	LPG	other natural gas	dung cake	kerosene	coke/coal	gobar gas	other biogas	char-coal	elcetricity	solar cooker	others			estd.(00)	sample																
																		all	all														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17																	
0-20	60.6	38.7	0	0	0.7	0	0	0	0	0	0	0	0	0	100	7240	271																
20-40	55.1	44	0	0	0	0	0	0	0.4	0	0	0	0.5	100	7907	326																	
40-60	51.8	47.2	0	0	0.3	0	0	0.3	0	0.4	0	0	0	100	8183	326																	
60-80	39.8	57.5	0	0	0.4	0	0.1	0.3	0	0	0	0	1.9	100	9095	335																	
80-100	23.7	75	0	0	0	0	0	0.9	0	0	0	0	0.3	100	10057	394																	
all	44.7	54	0	0	0.3	0	0	0.3	0.1	0.1	0	0	0.6	100	42481	1652																	
no. of households	estd (00)	18977	22922	0	0	109	0	14	145	30	34	0	0	251	42481	x	x																
	sample	719	912	0	0	4	0	3	5	1	1	0	0	7	1652	x	x																

Table 55: Percentage distribution of households by type of fuel used for cooking for each quintile class on UMPCE

Table 55: Percentage distribution of households by type of fuel used for cooking for each quintile class on UMPCE																	
Kerala													Urban				
quintile class on UMPCE	type of the fuel used for cooking												no cooking arrangement	all	numer of households		
	firewood, chips&crop residue	LPG	other natural gas	dung cake	kerosene	coke/coal	gobar gas	other biogas	char-coal	elcetricity	solar cooker	others			estd.(00)	sample	
	2	3	4	5	6	7	8	9	10	11	12	13			14	15	16
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
0-20	48.1	51.9	0	0	0	0	0	0	0	0	0	0	0	100	2984	123	
20-40	45.2	46.6	0	0	0	0	0	0	0	0.8	0	0	7.5	100	3008	138	
40-60	28.5	71.5	0	0	0	0	0	0	0	0	0	0	0	100	2790	127	
60-80	13.8	86.2	0	0	0	0	0	0	0	0	0	0	0	100	2236	79	
80-100	17.3	80.7	0.1	0	0	0.1	0.1	0	0	0.1	0	0.1	1.4	100	30266	1236	
all	22.1	75.8	0.1	0	0	0.1	0.1	0	0	0.2	0	0.1	1.6	100	41285	1703	
no. of households	estd (00)	9136	31302	39	0	0	34	31	0	0	65	0	30	649	41285	x	x
	sample	402	1273	1	0	0	2	1	0	0	4	0	2	18	1703	x	x

Table 55: Percentage distribution of households by type of fuel used for cooking for each quintile class on UMPCE

Kerala																	Rural + Urban																
quintile class on UMPCE	type of the fuel used for cooking												no cooking arrangement	all	numer of households																		
	firewood, chips&crop residue	LPG	other natural gas	dung cake	kerosene	coke/coal	gobar gas	other biogas	char-coal	elcetricity	solar cooker	others			estd.(00)	sample																	
	2	3	4	5	6	7	8	9	10	11	12	13			14	15	16	17															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17																	
0-20	56.9	42.6	0	0	0.5	0	0	0	0	0	0	0	0	100	10224	394																	
20-40	52.4	44.7	0	0	0	0	0	0	0.3	0.2	0	0	2.4	100	10915	464																	
40-60	45.9	53.4	0	0	0.2	0	0	0.2	0	0.3	0	0	0	100	10973	453																	
60-80	34.7	63.2	0	0	0.3	0	0.1	0.2	0	0	0	0	1.5	100	11331	414																	
80-100	18.9	79.3	0.1	0	0	0.1	0.1	0.2	0	0.1	0	0.1	1.1	100	40323	1630																	
all	33.6	64.7	0	0	0.1	0	0.1	0.2	0	0.1	0	0	1.1	100	83766	3355																	
no. of households	estd (00)	28113	54224	39	0	109	34	45	145	30	99	0	30	900	83766	x	x																
	sample	1121	2185	1	0	4	2	4	5	1	5	0	2	25	3355	x	x																

Table 56: Percentage distribution of households by duration of stay in the present area, estimated number of households reporting movement of persons into or from the household during the last 365 days and estimated number of persons who moved into or from the household during the last 365 days for each present area of the household

Kerala											Urban								
present area of the household	percentage distribution of households by duration of stay in the present area (years)										estd.(00) no.of households reporting movement of persons during last 365 days		estd.(00) no.of of persons who moved during last 365 days		sample no.of households reporting movement of persons during last 365 days		no.of hhs		
	<1	1-2	2-5	5-10	10-20	20-40	40-60	60 or more	not known	all	into the household	out of the household	into the household	out of the household	into the household	out of the household	estd.(00)	sample	
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	all	all	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
notified slum	0	0	0	0	0	45.1	28.5	26.4	0	100	0	59	0	88	0	2	111	4	
non-notified slum	0	22.3	0	0	77.7	0	0	0	0	100	0	0	0	0	0	0	95	6	
squatter settlement	11.8	0	0	0	9.8	58.7	11.8	7.9	0	100	0	5	0	5	0	1	252	12	
other areas	4.8	4.8	7.8	12.7	19.2	23.1	18.1	9.3	0.2	100	1007	3296	1050	3882	48	142	40828	1681	
all 100	4.8	4.8	7.7	12.5	19.2	23.3	18.1	9.3	0.2	100	1007	3360	1050	3975	48	145	41285	1703	
no. of hhs.	estd. (00)	1998	1996	3174	5174	7941	9635	7456	3838	75	41285	X	X	X	X	X	X	X	X
	sample	66	77	134	219	339	408	300	156	4	1703	X	X	X	X	X	X	X	X

Table 57: Percentage distribution of households with duration of stay in the present area less than 1 year by place of residence before coming to the present area for each present area of the household										
Kerala					Urban					
present area of the household	percentage distribution of households by area type	place of residence before coming to the present area						numer of households		
		slum/squatter settlement of the same town	in other areas of the same town	slum/squatter settlement of the other town	in other areas of the other town	village	all	estd.(00)	sample	
								all	all	
notified slum 100 Reference:	0	0	0	0	0	0	0	0	0	
non-notified slum	0	0	0	0	0	0	0	0	0	
squatter settlement 100	1.5	0	0	0	82.9	17.1	100	30	2	
other areas	98.5	3.5	44.3	2.6	39	10.6	100	1968	64	
all	100	3.4	43.7	2.6	39.7	10.6	100	1998	66	
no. of households	estd. (00)	1998	68	873	51	793	213	1998	X	X
	sample	66	2	33	2	21	8	66	X	X

Table 58: Percentage distribution of households with duration of stay in the present area less than 1 year by type of structure of the dwelling unit in the present area for different types of structure of the accommodation availed of by the household* before coming to the present area

Kerala														urban	
type of structure of the accommodation availed of by the household before coming to the present area	present area of the household												no. of households		
	notified slum				non-notified slum				all				estd (00)	sample	
	type of structures of the dwelling unit in the present area														
	pucca	semi-pucca	katcha	all	pucca	semi-pucca	katcha	all	pucca	semi-pucca	katcha	all			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	
pucca	0	0	0	0	0	0	0	0	98	2	0	100	1706	53	
semi-pucca	0	0	0	0	0	0	0	0	100	0	0	100	274	12	
katcha	1	0	0	0	0	0	0	0	100	0	0	100	18	1	
no dwelling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
all	0	0	0	0	0	0	0	0	98.3	1.7	0	100	1998	66	
no. of households	estd. (00)	0	0	0	0	0	0	0	1964	34	0	1998	X	X	
	sample	0	0	0	0	0	0	0	64	2	0	66	X	X	

Table 59: Percentage distribution of households with duration of stay in the present area less than 1 year by reason for movement to the present area for each present area of the household										
Kerala					Urban					
present area of the household		reason for movement to the present area						no. of households		
		free/low rent	independent accommodation	accommodation in better locality	employment related reasons		others	all	estd.(00)	sample
					proximity to place of work	other employment related reasons			all	all
notified slum		0	0	0	0	0	0	0	0	
non-notified slum		0	0	0	0	0	0	0	0	
squatter settlement		0	0	0	100	0	0	100	30	2
other areas		3.5	16.8	9.3	21.2	1	48.2	100	1968	64
all		3.5	16.5	9.2	22.3	0.9	47.5	100	1998	66
no. of households	estd. (00)	69	330	184	446	19	949	1998	X	X
	sample	4	13	8	10	2	29	66	X	X

Table 60: Percentage distribution of households by possession of documents pertaining to residence status in slum/squatter settlement and by type of benefits received as slum/squatter settlement dweller for each type of slum and squatter settlements and household social group															
Kerala															
urban															
type of slum and squatter settlements/household social group	percentage distribution of households	possession of documents							type of benefits received				no. of households		
		ration card	voter ID card	passport	any combination of ration card / voter ID card/passport	other	none	all	allotment	other	no	all	estd.(00)	sample	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
type of slum and squatter settlements															
notified slum	24.2	26.4	0	0	47.1	0	26.4	100	47.1	0	52.9	100	111	4	
non-notified slum	20.8	55.8	0	0	0	0	44.2	100	0	0	100	100	95	6	
squatter settlement	55	62.8	29.4	0	7.9	0	0	100	0	0	100	100	252	12	
all (slum & squatter)	100	52.5	16.2	0	15.7	0	15.6	100	11.4	0	88.6	100	457	22	
household social group															
SC	13.9	50.3	0	0	49.7	0	0	100	49.7	0	50.3	100	63	2	
ST	3.4	32.6	0	0	0	0	67.4	100	0	0	100	100	16	2	
OBC	67.3	51.1	16	0	13.1	0	19.7	100	6.7	0	93.3	100	308	15	
Others	15.4	65	35	0	0	0	0	100	0	0	100	100	70	3	
all	100	52.5	16.2	0	15.7	0	15.6	100	11.4	0	88.6	100	457	22	
no. of	estd.(00)		240	74	0	72	0	71	457	52	0	405	457	X	X
house- holds	sample		11	3	0	3	0	5	22	2	0	20	22	X	X

Table 61: Percentage of households having (i) exclusive access to improved source of drinking water located in the household premises which is sufficiently available throughout the year and (ii) access to improved source of drinking water within 30 minutes for a round trip collection time for each quintile class on UMPCE

		Kerala					Rural						number of households		
		percentage of households					estd. number of households (00) excluding n. r. for items of block 5								
quintile class on UMPCE		having improved source of drinking water	having improved source of drinking water located in the premises	improved source of drinking water located in the premises	having improved source of drinking water located in the premises which is sufficiently available throughout the year	having exclusive access to improved source of drinking water located in the premises which is sufficiently available throughout the year	having improved source of drinking water within 30 minutes for a round trip collection time	item 1	items 1 & 5	items 1, 4 & 5	items 1, 2 & 5	items 1, 2, 4 & 5	items 1 & 7	estd.(00)	sample
	0-20		44.1	41.1	39.3	35	34.3	14.4	7240	7090	7090	7090	7090	1468	7240
20-40		51.5	43.9	39.3	36.4	33	47.5	7907	7680	7680	7680	7680	1268	7907	326
40-60		56.6	54.2	51.5	41.8	39.9	31.8	8183	7987	7987	7987	7987	617	8183	326
60-80		52	47.9	44.9	40.2	37.9	70.5	9095	8973	8973	8973	8973	503	9095	335
80-100		56.9	54.1	52.6	43.1	41.6	72.9	10057	10057	10057	10057	10057	394	10057	394
all		52.6	48.7	46	39.6	37.7	38.9	42481	41787	41787	41787	41787	4250	42481	1652
no. of households	estd (00)	22347	20349	19240	16554	15741	1651	X	X	X	X	X	X	X	X
	sample	921	823	761	681	634	87	X	X	X	X	X	X	X	X

Table 61: Percentage of households having (i) exclusive access to improved source of drinking water located in the household premises which is sufficiently available throughout the year and (ii) access to improved source of drinking water within 30 minutes for a round trip collection time for each quintile class on UMPCE

		Kerala					Urban								
quintile class on UMPCE		percentage of households					estd. number of households (00) excluding n. r. for items of block 5						number of households		
		having improved source of drinking water	having improved source of drinking water located in the premises	improved source of drinking water located in the premises	having improved source of drinking water located in the premises which is sufficiently available throughout the year	having exclusive access to improved source of drinking water located in the premises which is sufficiently available throughout the year	having improved source of drinking water within 30 minutes for a round trip collection time	item 1	items 1 & 5	items 1, 4 & 5	items 1, 2 & 5	items 1, 2, 4 & 5	items 1 & 7	estd.(00)	sample
0-20		44.1	41.1	39.3	35	34.3	14.4	7240	7090	7090	7090	7090	1468	7240	271
20-40		51.5	43.9	39.3	36.4	33	47.5	7907	7680	7680	7680	7680	1268	7907	326
40-60		56.6	54.2	51.5	41.8	39.9	31.8	8183	7987	7987	7987	7987	617	8183	326
60-80		52	47.9	44.9	40.2	37.9	70.5	9095	8973	8973	8973	8973	503	9095	335
80-100		56.9	54.1	52.6	43.1	41.6	72.9	10057	10057	10057	10057	10057	394	10057	394
all		52.6	48.7	46	39.6	37.7	38.9	42481	41787	41787	41787	41787	4250	42481	1652
no. of households	estd (00)	22347	20349	19240	16554	15741	1651	X	X	X	X	X	X	X	X
no. of households	sample	921	823	761	681	634	87	X	X	X	X	X	X	X	X

Table 61: Percentage of households having (i) exclusive access to improved source of drinking water located in the household premises which is sufficiently available throughout the year and (ii) access to improved source of drinking water within 30 minutes for a round trip collection time for each quintile class on UMPCE

		Kerala					Rural + Urban								
quintile class on UMPCE		percentage of households					estd. number of households (00) excluding n. r. for items of block 5					number of households			
		having improved source of drinking water	having improved source of drinking water located in the premises	improved source of drinking water located in the premises	having improved source of drinking water located in the premises which is sufficiently available throughout the year	having exclusive access to improved source of drinking water located in the premises which is sufficiently available throughout the year	having improved source of drinking water within 30 minutes for a round trip collection time	item 1	items 1 & 5	items 1, 4 & 5	items 1, 2 & 5	items 1, 2, 4 & 5	items 1 & 7	estd.(00)	sample
0-20		50.6	44.7	43.4	38.6	37.9	31.1	13705	13457	13457	13457	13457	2421	13705	553
20-40		51.1	43	38.5	37.2	33.3	54.8	15653	15301	15301	15301	15301	2172	15653	691
40-60		53.1	48.4	46	38.9	36.9	46.3	15979	15770	15770	15770	15770	1589	15979	683
60-80		52.1	46.6	44.2	40.5	38.4	80.7	17938	17816	17816	17816	17816	1183	17938	683
80-100		54	50	44.8	43.9	38.8	78	20491	20472	20472	20472	20472	1048	20491	745
all		52.3	46.8	43.5	40.1	37.2	52.9	83766	82817	82817	82817	82817	8412	83766	3355
no. of	estd (00)	43822	38767	36029	33236	30793	4452	X	X	X	X	X	X	X	X
household	sample	1805	1576	1456	1364	1259	208	X	X	X	X	X	X	X	X

Table 62: Percentage of persons having (i) exclusive access to improved source of drinking water located in the household premises which is sufficiently available throughout the year and (ii) access to improved source of drinking water within 30 minutes for a round trip collection time for each household social group

Kerala															Rural														
household social group UMPCE		percentage of households							estd. number of households(00) excluding n. r. for items of block 5						number of households														
		having improved source of drinking water	having improved source of drinking water located in the premises	having exclusive access to improved source of drinking water located in the premises	having improved source of drinking water located in the premises which is sufficiently available throughout the year	having exclusive access to improved source of drinking water located in the premises which is sufficiently available throughout the year	having improved source of drinking water within 30 minutes for a round trip collection time	item 1	items 1&5	items 1,4&5	items 1,2&5	items 1,2,4&5	items 1&7	estd.(00)	sample														
S T		44.5	38.3	33.4	33.4	33.4	12.9	751	751	751	751	751	358	751	26														
SC		49.8	39.9	35.2	33.3	29.2	33.2	4532	4477	4477	4477	4477	1254	4532	189														
OBC		57.6	53.7	50.6	44.7	42.6	42	24800	24370	24370	24370	24370	2326	24800	986														
Others		44.2	42.5	41.7	32	31.2	67.3	12398	12189	12189	12189	12189	313	12398	451														
all		52.6	48.7	46	39.6	37.7	38.9	42481	41787	41787	41787	41787	4250	42481	1652														
no. of	estd (00)	22347	20349	19240	16554	15741	1651	X	X	X	X	X	X	X	X														
households	sample	921	823	761	681	634	87	X	X	X	X	X	X	X	X														

Table 62: Percentage of persons having (i) exclusive access to improved source of drinking water located in the household premises which is sufficiently available throughout the year and (ii) access to improved source of drinking water within 30 minutes for a round trip collection time for each household social group

Kerala															Urban														
household social group UMPCE		percentage of households							estd. number of households(00) excluding n. r. for items of block 5						number of households														
		having improved source of drinking water	having improved source of drinking water located in the premises	having exclusive access to improved source of drinking water located in the premises	having improved source of drinking water located in the premises which is sufficiently available throughout the year	having exclusive access to improved source of drinking water located in the premises which is sufficiently available throughout the year	having improved source of drinking water within 30 minutes for a round trip collection time	item 1	items 1&5	items 1,4&5	items 1,2&5	items 1,2,4&5	items 1&7	estd.(00)	sample														
S T		55.4	52.5	19.8	52.5	19.8	100	175	175	175	175	175	5	175	8														
SC		54.1	38.7	34.7	36.6	32.6	77.4	3067	3001	3001	3001	3001	560	3067	126														
OBC		52.2	44.2	40.9	40.5	37.2	64.2	25645	25487	25487	25487	25487	3064	25645	1088														
Others		51	47.7	42.8	41.8	36.9	74.3	12398	12367	12367	12367	12367	533	12398	481														
all		52	44.9	40.9	40.7	36.7	67.3	41285	41030	41030	41030	41030	4162	41285	1703														
no. of	estd (00)	21475	18419	16789	16682	15052	2801	X	X	X	X	X	X	X	X														
households	sample	884	753	695	683	625	121	X	X	X	X	X	X	X	X														

Table 62: Percentage of persons having (i) exclusive access to improved source of drinking water located in the household premises which is sufficiently available throughout the year and (ii) access to improved source of drinking water within 30 minutes for a round trip collection time for each household social group

		Kerala					Rural + Urban								
household social group UMPCE		percentage of households					estd. number of households(00) excluding n. r. for items of block 5						number of households		
		having improved source of drinking water	having improved source of drinking water located in the premises	having exclusive access to improved source of drinking water located in the premises	having improved source of drinking water located in the premises which is sufficiently available throughout the year	having exclusive access to improved source of drinking water located in the premises which is sufficiently available throughout the year	having improved source of drinking water within 30 minutes for a round trip collection time	item 1	items 1&5	items 1,4&5	items 1,2&5	items 1,2,4&5	items 1&7	estd.(00)	sample
S T		46.6	41	30.8	37	30.8	14.2	927	927	927	927	927	363	927	34
SC		51.6	39.4	35	34.7	30.6	46.9	7599	7478	7478	7478	7478	1813	7599	315
OBC		54.9	48.9	45.6	42.6	39.8	54.6	50445	49856	49856	49856	49856	5390	50445	2074
Others		47.6	45.1	42.2	36.9	34	71.7	24796	24556	24556	24556	24556	846	24796	932
all		52.3	46.8	43.5	40.1	37.2	52.9	83766	82817	82817	82817	82817	8412	83766	3355
no. of	estd (00)	43822	38767	36029	33236	30793	4452	X	X	X	X	X	X	X	X
households	sample	1805	1576	1456	1364	1259	208	X	X	X	X	X	X	X	X

Table 63: Percentage of households using improved latrine which is for exclusive use of the household for each quintile class on UMPCE

Kerala										Rural									
quintile class on UMPCE		percentage of households														number of households			
		using improved latrine	using improved latrine which is for exclusive use of the household					using 'other type of improved latrine' in which household has exclusive access and from where excreta had ever been emptied	using 'other type of improved latrine' in which household has exclusive access and from where excreta had ever been emptied in treatment plant or buried in covered twin leach pit/single pit	estd. (00)	sample								
			type of improved latrine																
			flush/pour-flush to piped sewer system	other type of improved latrine	all types of improved latrine					all	all								
1	2	3	4	5	6	7	8	9											
0-20	99.5	0	96.5	96.5	3.4	1.9	7240	271											
20-40	99.6	0	98.7	98.7	3.2	1.5	7907	326											
40-60	100	0	98.5	98.5	4.9	1.5	8183	326											
60-80	99.6	0	98.5	98.5	5.9	2.5	9095	335											
80-100	100	0.7	99.3	100	14.4	8.1	10057	394											
all	99.8	0.2	98.4	98.5	6.8	3.3	42481	1652											
no. of households	estd (00)	42378	69	41789	41858	2880	1413	X	X										
households	sample	1647	2	1626	1628	120	53	X	X										

Table 63: Percentage of households using improved latrine which is for exclusive use of the household for each quintile class on UMPCE									
Kerala					Urban				
quintile class on UMPCE		percentage of households						number of households	
		using improved latrine	using improved latrine which is for exclusive use of the household			using 'other type of improved latrine' in which household has exclusive access and from where excreta had ever been emptied	using 'other type of improved latrine' in which household has exclusive access and from where excreta had ever been emptied in treatment plant or buried in covered twin leach pit/single pit	estd. (00)	sample
			type of improved latrine						
		rush/pour-flush to piped sewer system	other type of improved latrine	all types of improved latrine			all	all	
1		2	3	4	5	6	7	8	9
0-20		99.1	0.8	97.3	98	16.5	8.5	6465	282
20-40		100	0.6	98.7	99.4	12.5	6	7746	365
40-60		100	0.3	99.4	99.8	16.5	6	7797	357
60-80		99.9	0	99.3	99.3	18.8	5.5	8843	348
80-100		100	0.2	96.5	96.7	19.6	5.9	10434	351
all		99.8	0.4	98.2	98.5	17	6.3	41285	1703
no. of	estd (00)	41215	148	40538	40686	7028	2581	X	X
households	sample	1700	7	1675	1682	275	103	X	X

Table 63: Percentage of households using improved latrine which is for exclusive use of the household for each quintile class on UMPCE

		Kerala					Rural + Urban		
quintile class on UMPCE		percentage of households						number of households	
		using improved latrine	using improved latrine which is for exclusive use of the household			using 'other type of improved latrine' in which household has exclusive access and from where excreta had ever been emptied	using 'other type of improved latrine' in which household has exclusive access and from where excreta had ever been emptied in treatment plant or buried in covered twin leach pit/single pit	estd. (00)	sample
			type of improved latrine						
		rush/pour-flush to piped sewer system	other type of improved latrine	all types of improved latrine			all	all	
1		2	3	4	5	6	7	8	9
0-20		99.3	0.4	96.9	97.2	9.5	5	13705	553
20-40		99.8	0.3	98.7	99	7.8	3.7	15653	691
40-60		100	0.2	98.9	99.1	10.5	3.7	15979	683
60-80		99.7	0	98.9	98.9	12.2	4	17938	683
80-100		100	0.5	97.9	98.3	17.1	7	20491	745
all		99.8	0.3	98.3	98.5	11.8	4.8	83766	3355
no. of	estd (00)	83592	217	82326	82544	9908	3994	X	X
households	sample	3347	9	3301	3310	395	156	X	X

Table 64: Percentage of households using improved latrine which is for exclusive use of the household for each household social group									
Kerala					Rural				
household social group		percentage of households						number of households	
		using improved latrine	using improved latrine which is for exclusive use of the household			using 'other type of improved latrine' in which household has exclusive access and from where excreta had ever been emptied	using 'other type of improved latrine' in which household has exclusive access and from where excreta had ever been emptied in treatment plant or buried in covered twin leach pit/single pit	estd.(00)	sample
			type of improved latrine						
			flush/pour-flush to piped sewer system	other type of improved latrine	all types of improved latrine			all	all
1	2	3	4	5	6	7	8	9	
S T		99.7	0	80.7	80.7	1.8	1.8	751	26
SC		99.3	0	95.7	95.7	8.2	6.4	4532	189
OBC		99.7	0	99.3	99.3	7.7	3.5	24800	986
Others		100	0.6	98.6	99.2	4.7	2	12398	451
all		99.8	0.2	98.4	98.5	6.8	3.3	42481	1652
no. of households	estd (00) sample	42378	69	41789	41858	2880	1413	X	X
	sample	1647	2	1626	1628	120	53	X	X

Table 64: Percentage of households using improved latrine which is for exclusive use of the household for each household social group									
Kerala					Urban				
household social group	percentage of households						number of households		
	using improved latrine	using improved latrine which is for exclusive use of the household			using 'other type of improved latrine' in which household has exclusive access and from where excreta had ever been emptied	using 'other type of improved latrine' in which household has exclusive access and from where excreta had ever been emptied in treatment plant or buried in covered twin leach pit/single pit	estd.(00)	sample	
		type of improved latrine							
		flush/pour-flush to piped sewer system	other type of improved latrine	all types of improved latrine			all	all	
1	2	3	4	5	6	7	8	9	
ST	100	0	100	100	16.6	2.7	175	8	
SC	98.8	0	96.8	96.8	9.9	6.1	3067	126	
OBC	99.9	0.4	98.6	99	16.8	7.1	25645	1088	
Others	100	0.4	97.7	98.1	19.3	4.6	12398	481	
all	99.8	0.4	98.2	98.5	17	6.3	41285	1703	
no. of households	estd (00) sample	41215 1700	148 7	40538 1675	40686 1682	7028 275	2581 103	X X	X X

Table 64: Percentage of households using improved latrine which is for exclusive use of the household for each household social group									
Kerala					Rural + Urban				
household social group	percentage of households						number of households		
	using improved latrine	using improved latrine which is for exclusive use of the household			using 'other type of improved latrine' in which household has exclusive access and from where excreta had ever been emptied	using 'other type of improved latrine' in which household has exclusive access and from where excreta had ever been emptied in treatment plant or buried in covered twin leach pit/single pit	estd.(00)	sample	
		type of improved latrine							
		flush/pour-flush to piped sewer system	other type of improved latrine	all types of improved latrine			all	all	
1	2	3	4	5	6	7	8	9	
ST	99.7	0	84.3	84.3	4.6	1.9	927	34	
SC	99.1	0	96.2	96.2	8.9	6.3	7599	315	
OBC	99.8	0.2	98.9	99.1	12.3	5.3	50445	2074	
Others	100	0.5	98.1	98.6	12	3.3	24796	932	
all	99.8	0.3	98.3	98.5	11.8	4.8	83766	3355	
no. of households	estd (00) sample	83592 3347	217 9	82326 3301	82544 3310	9908 395	3994 156	X X	X X

Table 65: Percentage of households having access to latrine and percentage of persons (i) regularly used improved latrine, (ii) regularly used improved latrine which is for exclusive use of the household for each type of latrine									
Kerala			Rural				Male		
type of latrine used by the household	percentage distribution of persons of those households having access to latrine by use of latrine				percentage of persons		estd.(00) number of persons in the households having access to latrine	number of persons	
	regularly	occasionally	never	all	regularly used improved latrine	regularly used improved latrine which is for exclusive use of the household		estd.(00)	sample
									all
piped sewer sys.(01)	100	0	0	100	100	100	69	69	2
septic tank(02)	98.7	0	1.3	100	98.7	97.8	10914	10914	400
twin leach pit(03)	94.3	0	5.7	100	94.3	88.6	840	840	29
single pit(04)	99.3	0.1	0.6	100	99.3	98.5	64110	64110	2559
elsewhere(05)	0	0	0	0	0	0	0	0	0
vent. imp. pit lat.(06)	100	0	0	100	100	100	2881	2881	128
pit lat. with slab(07)	96.8	0	3.2	100	96.8	87.3	1460	1460	42
pit lat.witout slab(08)	0	0	0	0	0	0	0	0	0
composting lat.(10)	0	0	0	0	0	0	0	0	0
others(19)	0	0	0	0	0	0	0	0	0
not used(11)	0	0	0	0	0	0	0	0	0
all	99.1	0.1	0.8	100	99.1	98.2	80274	80274	3160

Table 65: Percentage of households having access to latrine and percentage of persons (i) regularly used improved latrine, (ii) regularly used improved latrine which is for exclusive use of the household for each type of latrine									
Kerala			Rural				Female		
type of latrine used by the household	percentage distribution of persons of those households having access to latrine by use of latrine				percentage of persons		estd.(00) number of persons in the households having access to latrine	number of persons	
	regularly	occasionally	never	all	regularly used improved latrine	regularly used improved latrine which is for exclusive use of the household		estd.(00)	sample
									all
piped sewer sys.(01)	100	0	0	100	100	100	69	69	2
septic tank(02)	99.5	0.3	0.2	100	99.5	98.4	13370	13370	480
twin leach pit(03)	100	0	0	100	100	94.7	907	907	27
single pit(04)	99.1	0	0.9	100	99.1	98.5	66195	66195	2632
elsewhere(05)	0	0	0	0	0	0	0	0	0
vent. imp. pit lat.(06)	100	0	0	100	100	100	3107	3107	133
pit lat. with slab(07)	100	0	0	100	100	85.8	1631	1631	48
pit lat.witout slab(08)	0	0	0	0	0	0	0	0	0
composting lat.(10)	0	0	0	0	0	0	0	0	0
others(19)	0	0	0	0	0	0	0	0	0
not used(11)	0	0	0	0	0	0	0	0	0
all	99.2	0.1	0.8	100	99.2	98.2	85278	85278	3322

Table 65: Percentage of households having access to latrine and percentage of persons (i) regularly used improved latrine, (ii) regularly used improved latrine which is for exclusive use of the household for each type of latrine									
Kerala			Rural				Others		
type of latrine used by the household	percentage distribution of persons of those households having access to latrine by use of latrine				percentage of persons		estd.(00) number of persons in the households having access to latrine	number of persons	
	regularly	occasionally	never	all	regularly used improved latrine	regularly used improved latrine which is for exclusive use of the household		estd.(00)	sample
									all
piped sewer sys.(01)	0	0	0	0	0	0	0	0	0
septic tank(02)	0	0	0	0	0	0	0	0	0
twin leach pit(03)	0	0	0	0	0	0	0	0	0
single pit(04)	100	0	0	100	100	100	20	20	2
elsewhere(05)	0	0	0	0	0	0	0	0	0
vent. imp. pit lat.(06)	0	0	0	0	0	0	0	0	0
pit lat. with slab(07)	0	0	0	0	0	0	0	0	0
pit lat.witout slab(08)	0	0	0	0	0	0	0	0	0
composting lat.(10)	0	0	0	0	0	0	0	0	0
others(19)	0	0	0	0	0	0	0	0	0
not used(11)	0	0	0	0	0	0	0	0	0
all	100	0	0	100	100	100	20	20	2

Table 65: Percentage of households having access to latrine and percentage of persons (i) regularly used improved latrine, (ii) regularly used improved latrine which is for exclusive use of the household for each type of latrine										
Kerala			Rural				All			
type of latrine used by the household	percentage distribution of persons of those households having access to latrine by use of latrine				percentage of persons		estd.(00) number of persons in the households having access to latrine	number of persons		
	regularly	occasionally	never	all	regularly used improved latrine	regularly used improved latrine which is for exclusive use of the household		estd.(00)	estd.(00)	sample
									all	all
piped sewer sys.(01)	100	0	0	100	100	100	137	137	4	
septic tank(02)	99.1	0.2	0.7	100	99.1	98.1	24284	24284	880	
twin leach pit(03)	97.3	0	2.7	100	97.3	91.8	1746	1746	56	
single pit(04)	99.2	0	0.8	100	99.2	98.5	130325	130325	5193	
elsewhere(05)	0	0	0	0	0	0	0	0	0	
vent. imp. pit lat.(06)	100	0	0	100	100	100	5988	5988	261	
pit lat. with slab(07)	98.5	0	1.5	100	98.5	86.5	3091	3091	90	
pit lat.witout slab(08)	0	0	0	0	0	0	0	0	0	
composting lat.(10)	0	0	0	0	0	0	0	0	0	
others(19)	0	0	0	0	0	0	0	0	0	
not used(11)	0	0	0	0	0	0	0	0	0	
all	99.2	0.1	0.8	100	99.2	98.2	165572	165572	6484	

Table 65: Percentage of households having access to latrine and percentage of persons (i) regularly used improved latrine, (ii) regularly used improved latrine which is for exclusive use of the household for each type of latrine										
Kerala			Urban				Male			
type of latrine used by the household	percentage distribution of persons of those households having access to latrine by use of latrine				percentage of persons		estd.(00) number of persons in the households having access to latrine	number of persons		
	regularly	occasionally	never	all	regularly used improved latrine	regularly used improved latrine which is for exclusive use of the household		estd.(00)	estd.(00)	sample
									all	all
piped sewer sys.(01)	100	0	0	100	100	100	222	222	10	
septic tank(02)	99.4	0.2	0.3	100	99.4	99.1	19910	19910	785	
twin leach pit(03)	100	0	0	100	100	100	615	615	17	
single pit(04)	99	0.4	0.6	100	99	98.8	50247	50247	2172	
elsewhere(05)	0	0	0	0	0	0	0	0	0	
vent. imp. pit lat.(06)	100	0	0	100	100	100	1864	1864	69	
pit lat. with slab(07)	100	0	0	100	100	100	412	412	37	
pit lat.witout slab(08)	0	0	0	0	0	0	0	0	0	
composting lat.(10)	0	0	0	0	0	0	0	0	0	
others(19)	100	0	0	100	0	0	68	68	2	
not used(11)	0	0	0	0	0	0	0	0	0	
all	99.2	0.3	0.5	100	99.1	98.8	73340	73340	3092	

Table 65: Percentage of households having access to latrine and percentage of persons (i) regularly used improved latrine, (ii) regularly used improved latrine which is for exclusive use of the household for each type of latrine									
Kerala			Urban				Female		
type of latrine used by the household	percentage distribution of persons of those households having access to latrine by use of latrine				percentage of persons		estd.(00) number of persons in the households having access to latrine	number of persons	
	regularly	occasionally	never	all	regularly used improved latrine	regularly used improved latrine which is for exclusive use of the household		estd.(00)	sample
									all
piped sewer sys.(01)	100	0	0	100	100	100	309	309	14
septic tank(02)	99	0.3	0.8	100	99	97.4	22514	22514	907
twin leach pit(03)	100	0	0	100	100	100	895	895	25
single pit(04)	99.3	0.3	0.3	100	99.3	99.1	55248	55248	2396
elsewhere(05)	0	0	0	0	0	0	0	0	0
vent. imp. pit lat.(06)	100	0	0	100	100	100	2454	2454	95
pit lat. with slab(07)	100	0	0	100	100	100	396	396	42
pit lat.witout slab(08)	0	0	0	0	0	0	0	0	0
composting lat.(10)	0	0	0	0	0	0	0	0	0
others(19)	100	0	0	100	0	0	137	137	4
not used(11)	0	0	0	0	0	0	0	0	0
all	99.3	0.3	0.4	100	99.1	98.5	81953	81953	3483

Table 65: Percentage of households having access to latrine and percentage of persons (i) regularly used improved latrine, (ii) regularly used improved latrine which is for exclusive use of the household for each type of latrine										
Kerala			Urban				Others			
type of latrine used by the household	percentage distribution of persons of those households having access to latrine by use of latrine				percentage of persons		estd.(00) number of persons in the households having access to latrine	number of persons		
	regularly	occasionally	never	all	regularly used improved latrine	regularly used improved latrine which is for exclusive use of the household		estd.(00)	estd.(00)	sample
									all	all
piped sewer sys.(01)	0	0	0	0	0	0	0	0	0	
septic tank(02)	0	0	0	0	0	0	0	0	0	
twin leach pit(03)	0	0	0	0	0	0	0	0	0	
single pit(04)	100	0	0	100	100	100	3	3	1	
elsewhere(05)	0	0	0	0	0	0	0	0	0	
vent. imp. pit lat.(06)	0	0	0	0	0	0	0	0	0	
pit lat. with slab(07)	0	0	0	0	0	0	0	0	0	
pit lat.witout slab(08)	0	0	0	0	0	0	0	0	0	
composting lat.(10)	0	0	0	0	0	0	0	0	0	
others(19)	0	0	0	0	0	0	0	0	0	
not used(11)	0	0	0	0	0	0	0	0	0	
all	100	0	0	100	100	100	3	3	1	

Table 65: Percentage of households having access to latrine and percentage of persons (i) regularly used improved latrine, (ii) regularly used improved latrine which is for exclusive use of the household for each type of latrine										
Kerala					Urban		All			
type of latrine used by the household	percentage distribution of persons of those households having access to latrine by use of latrine				percentage of persons		estd.(00) number of persons in the households having access to latrine	number of persons		
	regularly	occasionally	never	all	regularly used improved latrine	regularly used improved latrine which is for exclusive use of the household		estd.(00)	estd.(00)	sample
									all	all
piped sewer sys.(01)	100	0	0	100	100	100	531	531	24	
septic tank(02)	99.2	0.3	0.6	100	99.2	98.2	42425	42425	1692	
twin leach pit(03)	100	0	0	100	100	100	1511	1511	42	
single pit(04)	99.2	0.4	0.5	100	99.2	98.9	105498	105498	4569	
elsewhere(05)	0	0	0	0	0	0	0	0	0	
vent. imp. pit lat.(06)	100	0	0	100	100	100	4319	4319	164	
pit lat. with slab(07)	100	0	0	100	100	100	808	808	79	
pit lat.witout slab(08)	0	0	0	0	0	0	0	0	0	
composting lat.(10)	0	0	0	0	0	0	0	0	0	
others(19)	100	0	0	100	0	0	205	205	6	
not used(11)	0	0	0	0	0	0	0	0	0	
all	99.2	0.3	0.5	100	99.1	98.7	155296	155296	6576	

Table 65: Percentage of households having access to latrine and percentage of persons (i) regularly used improved latrine, (ii) regularly used improved latrine which is for exclusive use of the household for each type of latrine										
Kerala				All			Male			
type of latrine used by the household	percentage distribution of persons of those households having access to latrine by use of latrine				percentage of persons		estd.(00) number of persons in the households having access to latrine	number of persons		
	regularly	occasionally	never	all	regularly used improved latrine	regularly used improved latrine which is for exclusive use of the household		estd.(00)	estd.(00)	sample
									all	all
piped sewer sys.(01)	100	0	0	100	100	100	291	291	12	
septic tank(02)	99.2	0.2	0.7	100	99.2	98.7	30824	30824	1185	
twin leach pit(03)	96.7	0	3.3	100	96.7	93.4	1455	1455	46	
single pit(04)	99.1	0.2	0.6	100	99.1	98.6	114358	114358	4731	
elsewhere(05)	0	0	0	0	0	0	0	0	0	
vent. imp. pit lat.(06)	100	0	0	100	100	100	4746	4746	197	
pit lat. with slab(07)	97.5	0	2.5	100	97.5	90.1	1873	1873	79	
pit lat.witout slab(08)	0	0	0	0	0	0	0	0	0	
composting lat.(10)	0	0	0	0	0	0	0	0	0	
others(19)	100	0	0	100	0	0	68	68	2	
not used(11)	0	0	0	0	0	0	0	0	0	
all	99.1	0.2	0.7	100	99.1	98.5	153615	153615	6252	

Table 65: Percentage of households having access to latrine and percentage of persons (i) regularly used improved latrine, (ii) regularly used improved latrine which is for exclusive use of the household for each type of latrine										
Kerala				All			Female			
type of latrine used by the household	percentage distribution of persons of those households having access to latrine by use of latrine				percentage of persons		estd.(00) number of persons in the households having access to latrine	number of persons		
	regularly	occasionally	never	all	regularly used improved latrine	regularly used improved latrine which is for exclusive use of the household		estd.(00)	estd.(00)	sample
									all	all
piped sewer sys.(01)	100	0	0	100	100	100	378	378	16	
septic tank(02)	99.1	0.3	0.6	100	99.1	97.7	35885	35885	1387	
twin leach pit(03)	100	0	0	100	100	97.4	1802	1802	52	
single pit(04)	99.2	0.2	0.7	100	99.2	98.8	121443	121443	5028	
elsewhere(05)	0	0	0	0	0	0	0	0	0	
vent. imp. pit lat.(06)	100	0	0	100	100	100	5561	5561	228	
pit lat. with slab(07)	100	0	0	100	100	88.5	2026	2026	90	
pit lat.witout slab(08)	0	0	0	0	0	0	0	0	0	
composting lat.(10)	0	0	0	0	0	0	0	0	0	
others(19)	100	0	0	100	0	0	137	137	4	
not used(11)	0	0	0	0	0	0	0	0	0	
all	99.2	0.2	0.6	100	99.1	98.4	167231	167231	6805	

Table 65: Percentage of households having access to latrine and percentage of persons (i) regularly used improved latrine, (ii) regularly used improved latrine which is for exclusive use of the household for each type of latrine									
Kerala				All			Others		
type of latrine used by the household	percentage distribution of persons of those households having access to latrine by use of latrine				percentage of persons		estd.(00) number of persons in the households having access to latrine	number of persons	
	regularly	occasionally	never	all	regularly used improved latrine	regularly used improved latrine which is for exclusive use of the household		estd.(00)	sample
									all
piped sewer sys.(01)	0	0	0	0	0	0	0	0	0
septic tank(02)	0	0	0	0	0	0	0	0	0
twin leach pit(03)	0	0	0	0	0	0	0	0	0
single pit(04)	100	0	0	100	100	100	22	22	3
elsewhere(05)	0	0	0	0	0	0	0	0	0
vent. imp. pit lat.(06)	0	0	0	0	0	0	0	0	0
pit lat. with slab(07)	0	0	0	0	0	0	0	0	0
pit lat.witout slab(08)	0	0	0	0	0	0	0	0	0
composting lat.(10)	0	0	0	0	0	0	0	0	0
others(19)	0	0	0	0	0	0	0	0	0
not used(11)	0	0	0	0	0	0	0	0	0
all	100	0	0	100	100	100	22	22	3

Table 65: Percentage of households having access to latrine and percentage of persons (i) regularly used improved latrine, (ii) regularly used improved latrine which is for exclusive use of the household for each type of latrine									
	Kerala				All		All		
type of latrine used by the household	percentage distribution of persons of those households having access to latrine by use of latrine				percentage of persons		estd.(00) number of persons in the households having access to latrine	number of persons	
	regularly	occasionally	never	all	regularly used improved latrine	regularly used improved latrine which is for exclusive use of the household		estd.(00)	sample
								all	all
piped sewer sys.(01)	100	0	0	100	100	100	669	669	28
septic tank(02)	99.1	0.2	0.6	100	99.1	98.2	66709	66709	2572
twin leach pit(03)	98.5	0	1.5	100	98.5	95.6	3257	3257	98
single pit(04)	99.2	0.2	0.6	100	99.2	98.7	235823	235823	9762
elsewhere(05)	0	0	0	0	0	0	0	0	0
vent. imp. pit lat.(06)	100	0	0	100	100	100	10306	10306	425
pit lat. with slab(07)	98.8	0	1.2	100	98.8	89.3	3899	3899	169
pit lat.witout slab(08)	0	0	0	0	0	0	0	0	0
composting lat.(10)	0	0	0	0	0	0	0	0	0
others(19)	100	0	0	100	0	0	205	205	6
not used(11)	0	0	0	0	0	0	0	0	0
all	99.2	0.2	0.6	100	99.1	98.4	320868	320868	13060

Table 66: Percentage of persons having access to latrine and percentage of persons (i) regularly used improved latrine, (ii) regularly used improved latrine which is for exclusive use of the household for each age interval										
Kerala		Rural				Male				
age interval	percentage of persons having access to latrine	percentage distribution of persons of those households having access to latrine by use of latrine				percentage of persons		estd.(00) number of persons in the households having access to latrine	number of persons	
		regularly	occasionally	never	all	regularly used improved latrine	regularly used improved latrine which is for exclusive use of the household		estd.(00)	sample
									all	all
<15 years	99.8	96.2	0.1	3.6	100	96.2	95.6	17972	18007	715
15-59 years	99.9	100	0	0	100	100	98.9	50832	50867	2011
60 years or more	99.7	99.7	0.3	0	100	99.7	99	11470	11508	440
All	99.9	99.1	0.1	0.8	100	99.1	98.2	80274	80382	3166

Table 66: Percentage of persons having access to latrine and percentage of persons (i) regularly used improved latrine, (ii) regularly used improved latrine which is for exclusive use of the household for each age interval										
Kerala		Rural				female				
age interval	percentage of persons having access to latrine	percentage distribution of persons of those households having access to latrine by use of latrine				percentage of persons		estd.(00) number of persons in the households having access to latrine	number of persons	
		regularly	occasionally	never	all	regularly used improved latrine	regularly used improved latrine which is for exclusive use of the household		estd.(00)	sample
									all	all
<15 years	99.8	96.1	0	3.9	100	96.1	94.7	16658	16693	625
15-59 years	99.9	100	0	0	100	100	99.1	55408	55443	2203
60 years or more	99.5	99.7	0.3	0	100	99.7	99	13212	13280	502
All	99.8	99.2	0.1	0.8	100	99.2	98.2	85278	85416	3330

Table 66: Percentage of persons having access to latrine and percentage of persons (i) regularly used improved latrine, (ii) regularly used improved latrine which is for exclusive use of the household for each age interval										
		Kerala				Rural		Others		
age interval	percentage of persons having access to latrine	percentage distribution of persons of those households having access to latrine by use of latrine				percentage of persons		estd.(00) number of persons in the households having access to latrine	number of persons	
		regularly	occasionally	never	all	regularly used improved latrine	regularly used improved latrine which is for exclusive use of the household		estd.(00)	sample
									all	all
<15 years	0	0	0	0	0	0	0	0	0	0
15-59 years	100	100	0	0	100	100	100	20	20	2
60 years or more	0	0	0	0	0	0	0	0	0	0
All	100	100	0	0	100	100	100	20	20	2

Table 66: Percentage of persons having access to latrine and percentage of persons (i) regularly used improved latrine, (ii) regularly used improved latrine which is for exclusive use of the household for each age interval										
		Kerala				Rural		All		
age interval	percentage of persons having access to latrine	percentage distribution of persons of those households having access to latrine by use of latrine				percentage of persons		estd.(00) number of persons in the households having access to latrine	number of persons	
		regularly	occasionally	never	all	regularly used improved latrine	regularly used improved latrine which is for exclusive use of the household		estd.(00)	sample
									all	all
<15 years	99.8	96.2	0.1	3.8	100	96.2	95.2	34630	34700	1340
15-59 years	99.9	100	0	0	100	100	99	106260	106330	4216
60 years or more	99.6	99.7	0.3	0	100	99.7	99	24682	24787	942
All	99.9	99.2	0.1	0.8	100	99.2	98.2	165572	165818	6498

Table 66: Percentage of persons having access to latrine and percentage of persons (i) regularly used improved latrine, (ii) regularly used improved latrine which is for exclusive use of the household for each age interval										
Kerala						Urban		Male		
age interval	percentage of persons having access to latrine	percentage distribution of persons of those households having access to latrine by use of latrine				percentage of persons		estd.(00) number of persons in the households having access to latrine	number of persons	
		regularly	occasionally	never	all	regularly used improved latrine	regularly used improved latrine which is for exclusive use of the household		estd.(00)	sample
									all	all
<15 years	100	96.1	1.5	2.4	100	96.1	96	15879	15879	706
15-59 years	100	100	0	0	100	99.9	99.6	45978	45978	1919
60 years or more	100	100	0	0	100	99.7	99.6	11483	11483	467
All	100	99.2	0.3	0.5	100	99.1	98.8	73340	73340	3092

Table 66: Percentage of persons having access to latrine and percentage of persons (i) regularly used improved latrine, (ii) regularly used improved latrine which is for exclusive use of the household for each age interval										
Kerala						Urban		Female		
age interval	percentage of persons having access to latrine	percentage distribution of persons of those households having access to latrine by use of latrine				percentage of persons		estd.(00) number of persons in the households having access to latrine	number of persons	
		regularly	occasionally	never	all	regularly used improved latrine	regularly used improved latrine which is for exclusive use of the household		estd.(00)	sample
									all	all
<15 years	100	96	1.6	2.4	100	95.5	95.5	14995	14995	656
15-59 years	100	100	0	0	100	99.9	99.1	54079	54079	2269
60 years or more	99.7	100	0	0	100	99.7	99.6	12880	12916	560
All	100	99.3	0.3	0.4	100	99.1	98.5	81953	81990	3485

Table 66: Percentage of persons having access to latrine and percentage of persons (i) regularly used improved latrine, (ii) regularly used improved latrine which is for exclusive use of the household for each age interval										
Kerala						Urban		Others		
age interval	percentage of persons having access to latrine	percentage distribution of persons of those households having access to latrine by use of latrine				percentage of persons		estd.(00) number of persons in the households having access to latrine	number of persons	
		regularly	occasionally	never	all	regularly used improved latrine	regularly used improved latrine which is for exclusive use of the household		estd.(00)	sample
									all	all
<15 years	100	96	1.6	2.4	100	95.5	95.5	14995	14995	656
15-59 years	100	100	0	0	100	99.9	99.1	54079	54079	2269
60 years or more	99.7	100	0	0	100	99.7	99.6	12880	12916	560
All	100	99.3	0.3	0.4	100	99.1	98.5	81953	81990	3485

Table 66: Percentage of persons having access to latrine and percentage of persons (i) regularly used improved latrine, (ii) regularly used improved latrine which is for exclusive use of the household for each age interval										
Kerala						Urban		All		
age interval	percentage of persons having access to latrine	percentage distribution of persons of those households having access to latrine by use of latrine				percentage of persons		estd.(00) number of persons in the households having access to latrine	number of persons	
		regularly	occasionally	never	all	regularly used improved latrine	regularly used improved latrine which is for exclusive use of the household		estd.(00)	sample
									all	all
<15 years	100	96	1.6	2.4	100	95.8	95.8	30874	30874	1362
15-59 years	100	100	0	0	100	99.9	99.3	100060	100060	4189
60 years or more	99.9	100	0	0	100	99.7	99.6	24363	24399	1027
All	100	99.2	0.3	0.5	100	99.1	98.7	155296	155333	6578

Table 66: Percentage of persons having access to latrine and percentage of persons (i) regularly used improved latrine, (ii) regularly used improved latrine which is for exclusive use of the household for each age interval										
Kerala				All				Male		
age interval	percentage of persons having access to latrine	percentage distribution of persons of those households having access to latrine by use of latrine				percentage of persons		estd.(00) number of persons in the households having access to latrine	number of persons	
		regularly	occasionally	never	all	regularly used improved latrine	regularly used improved latrine which is for exclusive use of the household		estd.(00)	sample
									all	all
<15 years	99.9	96.2	0.8	3	100	96.2	95.8	33851	33886	1421
15-59 years	100	100	0	0	100	100	99.3	96810	96845	3930
60 years or more	99.8	99.9	0.1	0	100	99.7	99.3	22953	22991	907
All	99.9	99.1	0.2	0.7	100	99.1	98.5	153615	153722	6258

Table 66: Percentage of persons having access to latrine and percentage of persons (i) regularly used improved latrine, (ii) regularly used improved latrine which is for exclusive use of the household for each age interval										
Kerala				All				Female		
age interval	percentage of persons having access to latrine	percentage distribution of persons of those households having access to latrine by use of latrine				percentage of persons		estd.(00) number of persons in the households having access to latrine	number of persons	
		regularly	occasionally	never	all	regularly used improved latrine	regularly used improved latrine which is for exclusive use of the household		estd.(00)	sample
									all	all
<15 years	99.9	96	0.8	3.2	100	95.8	95.1	31653	31688	1281
15-59 years	100	100	0	0	100	100	99.1	109487	109522	4472
60 years or more	99.6	99.8	0.2	0	100	99.7	99.3	26091	26196	1062
All	99.9	99.2	0.2	0.6	100	99.1	98.4	167231	167406	6815

Table 66: Percentage of persons having access to latrine and percentage of persons (i) regularly used improved latrine, (ii) regularly used improved latrine which is for exclusive use of the household for each age interval										
		Kerala				All		Others		
age interval	percentage of persons having access to latrine	percentage distribution of persons of those households having access to latrine by use of latrine				percentage of persons		estd.(00) number of persons in the households having access to latrine	number of persons	
		regularly	occasionally	never	all	regularly used improved latrine	regularly used improved latrine which is for exclusive use of the household		estd.(00)	sample
									all	all
<15 years	0	0	0	0	0	0	0	0	0	0
15-59 years	100	100	0	0	100	100	100	22	22	3
60 years or more	0	0	0	0	0	0	0	0	0	0
All	100	100	0	0	100	100	100	22	22	3

Table 66: Percentage of persons having access to latrine and percentage of persons (i) regularly used improved latrine, (ii) regularly used improved latrine which is for exclusive use of the household for each age interval										
		Kerala				All		All		
age interval	percentage of persons having access to latrine	percentage distribution of persons of those households having access to latrine by use of latrine				percentage of persons		estd.(00) number of persons in the households having access to latrine	number of persons	
		regularly	occasionally	never	all	regularly used improved latrine	regularly used improved latrine which is for exclusive use of the household		estd.(00)	sample
									all	all
<15 years	99.9	96.1	0.8	3.1	100	96	95.4	65504	65574	2702
15-59 years	100	100	0	0	100	100	99.2	206320	206390	8405
60 years or more	99.7	99.8	0.2	0	100	99.7	99.3	49045	49187	1969
All	99.9	99.2	0.2	0.6	100	99.1	98.4	320868	321151	13076

Table 67: Percentage distribution of households by nature of access to the principal source of drinking water for each quintile class on UMPCE

Kerala												
access to the principal source of drinking water										rural		
quintile class on UMPCE										no. of households		
	exclusive use of the household	common use of households in the building	neighbour's source	community use				others	all	estd. (00)	sample	
				public source restricted to particular community	public source unrestricted	private source restricted to particular community	private source unrestricted			all	all	
0-20	74.1	1.3	12.3	3.8	4.9	0	0	3.5	100	7240	271	
20-40	75.4	2.4	16.1	0.6	1.5	0.9	0	2.9	100	7907	326	
40-60	86.1	2.1	8.1	0	0.7	0.4	0.4	2.3	100	8183	326	
60-80	86.8	2.5	3.5	0.4	2.8	2.4	0	1.7	100	9095	335	
80-100	93.1	1.3	3.1	0	1.8	0	0	0.6	100	10057	394	
all	83.8	1.9	8.1	0.9	2.3	0.8	0.1	2.1	100	42481	1652	
no. of house holds	estd.(00)	35629	824	3454	362	965	321	37	889	42481	x	x
	sample	1349	41	140	10	55	9	2	46	1652	x	x

Table 67: Percentage distribution of households by nature of access to the principal source of drinking water for each quintile class on UMPCE

Kerala												Urban											
quintile class on UMPCE		access to the principal source of drinking water										no. of households											
		exclusive use of the household	common use of households in the building	neighbour's source	community use				others	all	estd. (00)	sample											
					public source restricted to particular community	public source unrestricted	private source restricted to particular community	private source unrestricted			all	all											
0-20		81.6	0.8	8.5	0	7.7	0	0	1.3	100	6465	282											
20-40		80.3	4.9	8.2	0	5.4	0	0	1.3	100	7746	365											
40-60		82.5	2.2	8	0	5.5	0	0.6	1.2	100	7797	357											
60-80		88.4	2.7	1.8	0	6.1	0	0.3	0.6	100	8843	348											
80-100		75.2	12	2.4	0	4.7	0	0	5.6	100	10434	351											
all		81.3	5.1	5.4	0	5.8	0	0.2	2.2	100	41285	1703											
no. of household	estd.(00)	33597	2098	2228	0	2379	0	67	918	41285	x	x											
	sample	1398	76	102	0	90	0	3	34	1703	x	x											

Table 67: Percentage distribution of households by nature of access to the principal source of drinking water for each quintile class on UMPCE

		Kerala				Rural + Urban						
quintile class on UMPCE		access to the principal source of drinking water								no. of households		
		exclusive use of the household	common use of households in the building	neighbour's source	community use				others	all	estd. (00)	sample
					public source restricted to particular community	public source unrestricted	private source restricted to particular community	private source unrestricted			all	all
0-20		77.7	1.1	10.5	2	6.3	0	0	2.5	100	13705	553
20-40		77.8	3.6	12.2	0.3	3.4	0.5	0	2.1	100	15653	691
40-60		84.3	2.1	8.1	0	3	0.2	0.5	1.7	100	15979	683
60-80		87.6	2.6	2.7	0.2	4.4	1.2	0.1	1.2	100	17938	683
80-100		84	6.8	2.8	0	3.2	0	0	3.2	100	20491	745
all		82.6	3.5	6.8	0.4	4	0.4	0.1	2.2	100	83766	3355
no. of household	estd.(00)	69226	2922	5682	362	3344	321	103	1806	83766	x	x
	sample	2747	117	242	10	145	9	5	80	3355	x	x

Table 68: Percentage distribution of households by access to the principal source of drinking water for different household social group and household religion.

Kerala										rural		
household social group/household religion	access to the principal source of drinking water									no. of households		
	exclusive use of the household	common use of households in the building	neighbour's source	community use				others	all	estd. (00)	sample	
				public source restricted to particular community	public source unrestricted	private source restricted to particular community	private source unrestricted			all	all	
household social group/rural												
S T	42.7	6.6	5.4	33.5	0.3	0	0.5	10.9	100	751	26	
SC	63.6	4.5	19	1.9	7.9	0	0.7	2.3	100	4532	189	
OBC	84.7	1.8	9.1	0.1	2.4	0.3	0	1.7	100	24800	986	
Others	92.1	1	2.5	0	0	2	0	2.3	100	12398	451	
all	83.9	1.9	8.1	0.9	2.3	0.8	0.1	2.1	100	42481	1652	
household religion/rural												
hinduism	81.3	2.2	8.8	1.5	3.4	0.3	0.1	2.4	100	24729	974	
Islam	86.3	1.9	10.8	0	0.7	0	0	0.3	100	8123	328	
christianity	89.6	1	3.1	0	0.2	3	0	3.2	100	8427	297	
Sikhism	50	25.7	24.3	0	0	0	0	0	100	132	3	
Others	85	0.1	9.5	0	5.3	0	0	0	100	1070	50	
all	83.9	1.9	8.1	0.9	2.3	0.8	0.1	2.1	100	42481	1652	
no.of house holds	estd.(00)	35629	824	3454	362	965	321	37	889	42481	x	x
	sample	1349	41	140	10	55	9	2	46	1652	x	x

Table 68: Percentage distribution of households by access to the principal source of drinking water for different household social group and household religion.

Kerala										urban		
household social group/household religion	access to the principal source of drinking water									no. of households		
	exclusive use of the household	common use of households in the building	neighbour's source	community use				others	all	estd. (00)	sample	
				public source restricted to particular community	public source unrestricted	private source restricted to particular community	private source unrestricted			all	all	
household social group/urban												
S T	64.4	32.7	0	0	0	0	0	2.9	100	175	8	
SC	72.5	2.4	8.6	0	13.2	0	0.7	2.7	100	3067	126	
OBC	80	5.3	6.2	0	6.6	0	0.2	1.7	100	25645	1088	
Others	86.6	4.9	3.1	0	2.3	0	0	3.1	100	12398	481	
all	81.4	5.1	5.4	0	5.8	0	0.2	2.2	100	41285	1703	
household religion/urban												
hinduism	81	5.2	6	0	6.5	0	0.1	1.3	100	22865	928	
Islam	83	5.2	5.5	0	4.5	0	0.5	1.3	100	9602	439	
christianity	81.3	4.5	3	0	4.5	0	0	6.7	100	7209	280	
Sikhism	0	91.9	0	0	0	0	0	8.1	100	62	2	
Others	81	2.2	8	0	8.7	0	0	0	100	1546	54	
all	81.4	5.1	5.4	0	5.8	0	0.2	2.2	100	41285	1703	
no. of households	estd.(00)	33597	2098	2228	0	2379	0	67	918	41285	x	x
	sample	1398	76	102	0	90	0	3	34	1703	x	x

Table 68: Percentage distribution of households by access to the principal source of drinking water for different household social group and household religion.

Kerala										rural + urban		
household social group/household religion	access to the principal source of drinking water									no. of households		
	exclusive use of the household	common use of households in the building	neighbour's source	community use				others	all	estd. (00)	sample	
				public source restricted to particular community	public source unrestricted	private source restricted to particular community	private source unrestricted			all	all	
household social group/all												
S T	46.8	11.6	4.4	27.2	0.3	0	0.4	9.4	100	927	34	
SC	67.2	3.7	14.8	1.1	10	0	0.7	2.4	100	7599	315	
OBC	82.3	3.6	7.6	0	4.5	0.1	0.1	1.7	100	50445	2074	
Others	89.4	3	2.8	0	1.1	1	0	2.7	100	24796	932	
all	82.6	3.5	6.8	0.4	4	0.4	0.1	2.2	100	83766	3355	
household religion/all												
hinduism	81.1	3.6	7.5	0.8	4.9	0.1	0.1	1.9	100	47594	1902	
Islam	84.5	3.7	7.9	0	2.8	0	0.3	0.9	100	17725	767	
christianity	85.7	2.6	3.1	0	2.2	1.6	0	4.8	100	15636	577	
Sikhism	34	46.9	16.5	0	0	0	0	2.6	100	194	5	
Others	82.7	1.4	8.6	0	7.4	0	0	0	100	2617	104	
all	82.6	3.5	6.8	0.4	4	0.4	0.1	2.2	100	83766	3355	
no. of households	estd.(00)	69226	2922	5682	362	3344	321	103	1806	83766	X	X
	sample	2747	117	242	10	145	9	5	80	3355	X	X

Table 69: Percentage distribution of households by distance to the principal source of drinking water for each principal source and percentage of households reporting stagnation of water around the principal source of drinking water												
Kerala									rural			
principal sources of drinking water	percentage of households reporting stagnation of water around the principal source of drinking water	distance to the principal source of drinking water							all	no. of households		
		within dwelling	outside dwelling but within premises	outside premises at a distance of						all	estd. (00)	sample
				lessthan 0.2km	0.2- 0.5km	0.5- 1.0km	1.0- 1.5km	1.5km or more				
bottled water	0	0	0	0	0	0	0	0	0	0	0	
piped water into dwelling	1.9	100	0	0	0	0	0	0	100	2512	99	
piped water to yard /plot	2.7	0	98	2	0	0	0	0	100	3191	137	
piped water from neighbour	0	0	0	100	0	0	0	0	100	338	15	
public tap/stand pipe	9.7	0	0	75.3	17	7.8	0	0	100	561	39	
tube well	2.5	55.7	42.7	1.6	0	0	0	0	100	3648	158	
hand pump	53.8	0	53.8	46.2	0	0	0	0	100	98	3	
protected well	2.6	36.5	58.6	4.5	0.5	0	0	0	100	19341	457	
unprotected well	2.9	37.8	48.7	12.3	1	0.2	0	0	100	19341	705	
public tanker-truck	0	0	0	100	0	0	0	0	100	8	1	
private tanker-truck	47.5	0	0	0	0	0	0	0	0	0	0	
protected spring	0	0	0	0	0	0	0	0	0	0	0	
unprotected spring	13	0	0	100	0	0	0	0	100	46	1	
rain water collection	0	100	0	0	0	0	0	0	100	23	1	
tank/pond	0	0	0	12.4	6	0	18.2	63.4	100	394	12	
other surface water	0	0	0	66.7	22.9	10.4	0	0	100	5	5	
others	0	0	0	0	0	0	0	0	0	0	0	
all	3	38.5	50.2	9.4	0.9	0.2	0.2	0.6	100	41787	1633	
no.of house holds	estd.(00)	1277	16106	20973	3943	367	77	72	249	41787	X	X
	sample	43	619	806	174	22	3	2	7	1633	X	X

Table 69: Percentage distribution of households by distance to the principal source of drinking water for each principal source and percentage of households reporting stagnation of water around the principal source of drinking water												
Kerala									urban			
principal sources of drinking water	percentage of households reporting stagnation of water around the principal source of drinking water	distance to the principal source of drinking water							all	no. of households		
		within dwelling	outside dwelling but within premises	outside premises at a distance of						all	estd. (00)	sample
				less than 0.2km	0.2-0.5km	0.5-1.0km	1.0-1.5km	1.5km or more				
bottled water	0	95.8	0	3.5	0	0	0	0.7	100	709	25	
pipd water into dwelling	1	100	0	0	0	0	0	0	100	7127	285	
pipd water to yard /plot	1.8	0	100	0	0	0	0	0	100	1660	66	
pipd water from neighbour	6.1	0	0	100	0	0	0	0	100	284	14	
public tap/stand pipe	4.8	0	0	61.1	32.2	3.5	2.1	1.1	100	2161	83	
tube well	0	62.4	34.9	2.2	0.5	0	0	0	100	2808	116	
hand pump	0	0	0	0	0	0	0	0	0	0	0	
protected well	2.1	34.3	61.9	2.7	1.2	0	0	0	100	19810	285	
unprotected well	2.2	37.9	54.6	7.3	0.2	0	0	0	100	19810	819	
public tanker-truck	0	0	0	0	0	0	0	0	0	0	0	
private tanker-truck	0	0	0	0	0	0	0	0	0	0	0	
protected spring	0	0	0	0	0	0	0	0	0	0	0	
unprotected spring	0	0	0	0	0	0	0	0	0	0	0	
rain water collection	0	0	0	0	0	0	0	0	0	0	0	
tank/pond	0	0	0	0	0	0	0	0	0	0	0	
other surface water	0	0	0	0	0	0	0	0	0	0	0	
others	0	0	0	0	0	0	0	0	0	0	0	
all	1.9	47	42.6	8.1	2	0.2	0.1	0.1	100	41030	1693	
no. of house holds	estd.(00)	802	19290	17466	3306	817	76	46	28	41030	X	X
	sample	36	830	678	141	37	3	2	2	1693	X	X

Table 69: Percentage distribution of households by distance to the principal source of drinking water for each principal source and percentage of households reporting stagnation of water around the principal source of drinking water

Kerala										rural + urban		
principal sources of drinking water	percentage of households reporting stagnation of water around the principal source of drinking water	distance to the principal source of drinking water							all	no. of households		
		within dwelling	outside dwelling but within premises	outside premises at a distance of						all	estd. (00)	sample
				less than 0.2km	0.2-0.5km	0.5-1.0km	1.0-1.5km	1.5km or more				
bottled water	0	95.8	0	3.5	0	0	0	0.7	100	709	25	
pipd water into dwelling	1.2	100	0	0	0	0	0	0	100	9639	384	
pipd water to yard /plot	2.4	0	98.7	1.3	0	0	0	0	100	4851	203	
pipd water from neighbour	3.2	0	0	100	0	0	0	0	100	622	29	
public tap/stand pipe	6	0	0	64	29.1	4.4	1.7	0.9	100	2722	122	
tube well	1.4	58.6	39.3	1.9	0.2	0	0	0	100	6456	274	
hand pump	53.8	0	53.8	46.2	0	0	0	0	100	98	3	
protected well	2.4	35.7	59.8	3.8	0.7	0	0	0	100	39152	742	
unprotected well	2.5	37.8	51.7	9.8	0.6	0.1	0	0	100	39152	1524	
public tanker-truck	0	0	0	100	0	0	0	0	100	8	1	
private tanker-truck	32.5	0	0	0	0	0	0	0	0	0	0	
protected spring	0	0	0	0	0	0	0	0	0	0	0	
unprotected spring	13	0	0	100	0	0	0	0	100	46	1	
rain water collection	0	100	0	0	0	0	0	0	100	23	1	
tank/pond	0	0	0	12.4	6	0	18.2	63.4	100	394	12	
other surface water	0	0	0	66.7	22.9	10.4	0	0	100	5	5	
others	0	0	0	0	0	0	0	0	0	0	0	
all	2.5	42.7	46.4	8.8	1.4	0.2	0.1	0.3	100	82817	3326	
no.of house holds	estd.(00)	2079	35396	38439	7249	1185	153	118	278	82817	X	X
	sample	79	1449	1484	315	59	6	4	9	3326	X	X

Table 70: Percentage distribution of households with principal source of drinking water outside premises by category of person fetching drinking water from principal source, average time taken in a single trip to fetch drinking water and average waiting time required in a single trip at the source separately for households at different distances from the principal source

Kerala								Rural				
distance of the principal source of drinking water which is outside premises(km)	percentage distribution of households by category of person fetching drinking water							average time taken in a single trip to fetch drinking water from principal source (0.0 minutes)	average waiting time required in a single trip at the principal source drinking water (0.0 minutes)	no.of households fetching drinking water from outside premises		
	male of age below 18 years	male of age 18 years or more	female of age below 18 years	female of age 18 years or more	hired labour	others	all			estd. (00)	sample	
										all	all	
less than 0.2	0	13.6	2.1	75.7	0.8	4.3	96.5	7.9	2.8	3806	168	
0.2-0.5	0	19.3	9	50.4	0	21.3	100	9.2	4.7	367	22	
0.5-1.0	0	56.5	0	42.8	0	0.7	100	21.4	3.3	77	3	
1.0-1.5	0	0	0	0	0	0	0	0	0	0	0	
1.5 or more	0	0	0	0	0	0	0	0	0	0	0	
all	0	13.9	2.5	68	0.7	5.3	90.3	8.2	3	4250	193	
no. of households	estd.(00)	0	652	117	3201	32	249	4250	X	X	X	X
	sample	0	30	4	143	1	15	193	X	X	X	X

Table 70: Percentage distribution of households with principal source of drinking water outside premises by category of person fetching drinking water from principal source, average time taken in a single trip to fetch drinking water and average waiting time required in a single trip at the source separately for households at different distances from the principal source

Kerala								Urban				
distance of the principal source of drinking water which is outside premises(km)	percentage distribution of households by category of person fetching drinking water							average time taken in a single trip to fetch drinking water from principal source (0.0 minutes)	average waiting time required in a single trip at the principal source drinking water (0.0 minutes)	no.of households fetching drinking water from outside premises		
	male of age below 18 years	male of age 18 years or more	female of age below 18 years	female of age 18 years or more	hired labour	others	all			estd. (00)	sample	
										all	all	
less than 0.2	0.8	17.6	1.3	76.3	0	3.5	99.6	6.5	2.2	3293	140	
0.2-0.5	2.8	20.5	0	64.6	0	4.5	92.4	12.8	5.5	755	26	
0.5-1.0	0	100	0	0	0	0	100	26.7	13.3	76	3	
1.0-1.5	0	100	0	0	0	0	100	12.5	2.5	46	2	
1.5 or more	0	82	0	0	0	18	100	20	5.9	28	2	
all	1.1	21	1	71.4	0	3.7	98.2	8.1	3	4199	173	
no. of house holds	estd.(00)	48	897	45	3051	0	158	4199	X	X	X	X
	sample	2	34	2	128	0	7	173	X	X	X	X

Table 70: Percentage distribution of households with principal source of drinking water outside premises by category of person fetching drinking water from principal source, average time taken in a single trip to fetch drinking water and average waiting time required in a single trip at the source separately for households at different distances from the principal source

Kerala								Rural + Urban				
distance of the principal source of drinking water which is outside premises(km)	percentage distribution of households by category of person fetching drinking water							average time taken in a single trip to fetch drinking water from principal source (0.0 minutes)	average waiting time required in a single trip at the principal source drinking water (0.0 minutes)	no.of households fetching drinking water from outside premises		
	male of age below 18 years	male of age 18 years or more	female of age below 18 years	female of age 18 years or more	hired labour	others	all			estd. (00)	sample	
										all	all	
less than 0.2	0.3	15.5	1.8	76	0.4	3.9	97.9	7.2	2.6	7099	308	
0.2-0.5	2	20.1	2.8	60.2	0	9.7	94.8	11.6	5.3	1123	48	
0.5-1.0	0	78.2	0	21.5	0	0.4	100	24	8.3	153	6	
1.0-1.5	0	39.3	0	0	0	0	39.3	12.5	2.5	46	2	
1.5 or more	0	8.3	0	0	0	1.8	10.2	20	5.9	28	2	
all	0.5	17.2	1.8	69.6	0.4	4.5	94.1	8.2	3	8449	366	
no. of household	estd.(00)	48	1549	161	6252	32	406	8449	X	X	X	X
	sample	2	64	6	271	1	22	366	X	X	X	X

Table 71: Percentage distribution of households by supplementary sources of drinking water for different principal sources of drinking water																						
Kerala															Rural							
principal sources of drinking water	supplementary sources of drinking water																			no. of households		
	bottled water	piped water into dwelling	piped water to yard/plot	piped water from neighbour	public tap/stand pipe	tube well	hand pump	well		tanker truck		spring		surface water			no supplementary source	all	estd. (00)	sample		
								protected	unprotected	public	private	protected	unprotected	rain water collection	tank/pond	other surface water					others	
bottled water	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
piped water into dwelling	0.3	0	0	0	18.4	5.4	0	4	12.9	0	0.7	0	1.4	1.1	0	0	0	55.8	100	2512	99	
piped water to yard/plot	0	0	0	0.1	8.7	2.1	0	5.8	17.6	0	2.7	0	0	0	0	0	0.1	62.7	100	3191	137	
piped water from neighbour	0	0	0	0	19.8	0	0	0	0	0	0	0	0	0	0	0	0	80.2	100	459	18	
public tap/stand pipe	0	0	0	20	0	4.1	0	0	16.2	0	0	0	0	0	3.7	0	0	56.1	100	733	45	
tube well	0	4.6	0.1	0.4	3.7	0	0	2.5	2.7	1.1	0	0	0.9	4	0	0	1.8	78.1	100	3648	158	
hand pump	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	100	98	3	
protected well	0	6.7	2.9	0.9	2.4	7.7	0	0	2.8	0	3.1	0	0	0.9	0.9	0	0.4	71.4	100	11621	457	
unprotected well	0	8.5	3.7	1.8	2.9	3.3	0	2.1	0	0.5	1	0	0.2	0	0.3	0	2.1	73.2	100	19341	705	
public tanker-truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	100	8	1	
private tanker-truck	0	0	0	0	0	0	0	0	0	0	0	0	0	48	0	0	0	52.5	100	54	2	
protected spring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
unprotected spring	0	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	100	357	8	
rain water collection	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	100	23	1	
tank/pond	0	0	0	6.4	0	0	0	0	0	0	0	0	0	0	0	0	6	87.6	100	394	12	
other surface water	0	0.3	0	0	3.9	0	0	0	87.4	0	0	0	0	0	0	0	0	8.4	100	42	6	
others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
all	0	6.4	2.5	1.5	4.3	4.2	0	1.9	3.4	0.3	1.5	0	0.2	0.7	0.5	0	1.3	71.1	100	42481	1652	
no. of house holds	estd.(00)	8	2727	1052	642	1811	1764	4	789	1462	145	653	0	102	307	194	76	542	30204	42481	X	X
	sample	1	105	43	26	74	73	1	36	55	5	24	0	3	11	6	7	21	1161	1652	X	X

Table 71: Percentage distribution of households by supplementary sources of drinking water for different principal sources of drinking water

Kerala																			Urban				
principal sources of drinking water	supplementary sources of drinking water																		no. of households				
	bottled water	piped water into dwelling	piped water to yard/plot	piped water from	public tap/stand pipe	tube well	hand pump	well		tanker truck		spring		surface water			no supplementary source	all	estd. (00)	sample			
								protected	unprotected	public	private	protected	unprotected	rain water collection	tank/pond	other surface water			others	all	all	all	
bottled water	0	17.3	0	0	0	11.5	0	11.2	15.1	0	0	0	0	0	0	0	0	44.8	100	709	25		
piped water into dwelling	1.4	0	0	0.9	0	7.9	0	6.4	7.6	0	3.9	0	0	0	0	0	0	71.9	100	7127	285		
piped waterto yard /plot	0	1.7	0	2.3	0	1.5	0	6.2	24.3	1.2	1.8	0	0	0	0	0	0	61	100	1660	66		
piped water from neighbour	0	0	0	0	6.2	0	0	0	12.5	6.1	0	0	0	0	0	0	0	75.3	100	514	23		
public tap/stand pipe	1.1	0	0	1.3	0	12	0	3.8	16.1	0	0	0	0	0	0	0	0	65.7	100	2161	83		
tube well	0	1.9	0	0	11.2	0	0	0	5.6	0	0	0	0	0	0	0	0	81.3	100	2808	116		
hand pump	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
protected well	1.1	4.9	3.4	1.4	1.6	4.2	0	0	4.4	0	0.7	0	0	0.2	0	0	0.1	78	100	6471	285		
unprotected well	0.5	7.6	2.5	0.5	2.5	3.7	0	0.4	0	1	1.3	0	0.1	0	0.7	0	0.1	78.9	100	19810	819		
public tanker-truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
private tanker-truck	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	100	25	1		
protected spring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
unprotected spring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
rain water collection	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
tank/pond	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
other surface water	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
all	0.7	4.9	1.7	0.8	2.3	4.7	0	1.9	4.7	0.6	1.5	0	0.1	0	0.3	0	0.1	75.6	100	41285	1703		
no.of house holds	estd.(00)	302	2038	717	320	950	1928	0	802	1933	259	615	0	28	11	134	0	30	31218	41285	X	X	
	sample	11	88	29	12	36	83	0	25	75	10	21	0	1	1	2	0	2	1307	1703	X	X	

Table 71: Percentage distribution of households by supplementary sources of drinking water for different principal sources of drinking water

		Kerala														Rural + Urban						
principal sources of drinking water		supplementary sources of drinking water																		no. of households		
		bottled water	piped water into dwelling	piped water to yard/plot	piped water from neighbour	public tap/stand pipe	tube well	hand pump	well		tanker truck		spring		rain water collection		surface water		no supplementary source	all	estd. (00)	sample
									protected	unprotected	public	private	protected	unprotected	tank/pond	other surface water	others	all			all	all
bottled water	0	17.3	0	0	0	11.5	0	11.2	15.1	0	0	0	0	0	0	0	0	0	44.8	100	709	25
piped water into dwelling	1.1	0	0	0.7	4.8	7.2	0	5.8	9	0	3	0	0.4	0.3	0	0	0	0	67.7	100	9639	384
piped water to yard /plot	0	0.6	0	0.8	5.7	1.9	0	6	19.9	0.4	2.4	0	0	0	0	0	0	0	62.1	100	4851	203
piped water from neighbour	0	0	0	0	12.6	0	0	0	6.6	3.2	0	0	0	0	0	0	0	0	77.6	100	973	41
public tap/stand pipe	0.8	0	0	6	0	10	0	2.9	16.1	0	0	0	0	0	0.9	0	0	0	63.3	100	2894	128
tube well	0	3.5	0.1	0.2	7	0	0	1.4	4	0.6	0	0	0.5	2.2	0	0	1	79.5	100	6456	274	
hand pump	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	100	98	3
protected well	0.4	6	3.1	1.1	2.1	6.4	0	0	3.4	0	2.2	0	0	0.7	0.6	0	0.2	73.7	100	18091	742	
unprotected well	0.3	8.1	3.1	1.2	2.7	3.5	0	1.3	0	0.8	1.2	0	0.2	0	0.5	0	1.1	76.1	100	39152	1524	
public tanker-truck	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	100	8	1	
private tanker-truck	0	0	0	0	0	0	0	0	31.6	0	0	0	0	33	0	0	0	35.9	100	79	3	
protected spring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
unprotected spring	0	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	100	357	8	
rain water collection	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	100	23	1	
tank/pond	0	0	0	6.4	0	0	0	0	0	0	0	0	0	0	0	0	6	87.6	100	394	12	
other surface water	0	0.3	0	0	3.9	0	0	0	87.4	0	0	0	0	0	0	0	0	8.4	100	42	6	
others	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
all	0.4	5.7	2.1	1.1	3.3	4.4	0	1.9	4.1	0.5	1.5	0	0.2	0.4	0.4	0	0.7	73.3	100	83766	3355	
no.of house holds	estd.(00)	310	4764	1769	962	2761	3692	4	1591	3395	404	1268	0	129	317	328	76	572	61422	83766	X	X
	sample	12	193	72	38	110	156	1	61	130	15	45	0	4	12	8	7	23	2468	3355	X	X

Table 72: Percentage distribution of households by method of treatment of drinking water for different principal sources of drinking water												
Kerala						Rural						
principal source of drinking water	method of treatment of drinking water									no.of hhs		
	treated with							not treated	all	estd. (00)	sample	
	electric purifier	boiling	chemicall	chemicall	non-electric purifier	filtered with cloth	others	not treated		all	all	
1	2	3	4	5	6	7	8	9	10	11	12	
bottled water	0	0	0	0	0	0	0	0	0	0	0	
piped water into dwelling	0.3	95	0	0	0	0	0	4.6	100	2512	99	
piped waterto yard /plot	0.8	83.8	0	0	0	0	0	15.4	100	3191	137	
piped water from neighbour	0	66.9	0	0	0	0	0	33.1	100	459	18	
public tap/stand pipe	0	86.4	0	4.6	0	0	0	9	100	733	45	
tube well	0.9	94.2	0	0	0.5	0	0	4.4	100	3648	158	
hand pump	0	100	0	0	0	0	0	0	100	98	3	
protected well	1.4	85	0	0.7	0.4	0	0	12.5	100	11621	457	
unprotected well	1.9	82.5	0.2	0	0.3	0	0	15.1	100	19341	705	
public tanker-truck	100	0	0	0	0	0	0	0	100	8	1	
private tanker-truck	0	100	0	0	0	0	0	0	100	54	2	
protected spring	0	0	0	0	0	0	0	0	0	0	0	
unprotected spring	0	100	0	0	0	0	0	0	100	357	8	
rain water collection	0	100	0	0	0	0	0	0	100	23	1	
tank/pond	0	72.8	0	0	0	0	0	27.2	100	394	12	
other surface water	0	91.6	0	0	0	8.4	0	0	100	42	6	
others	0	0	0	0	0	0	0	0	0	0	0	
all	1.4	85	0.1	0.3	0.3	0	0	12.9	100	42481	1652	
no.of house holds	estd.(00)	606	36128	43	111	116	4	0	5474	42481	X	X
	sample	27	1404	1	4	5	1	0	210	1652	X	X

Table 72: Percentage distribution of households by method of treatment of drinking water for different principal sources of drinking water												
Kerala						Urban						
principal source of drinking water	method of treatment of drinking water									no.of hhs		
	treated with							not treated	all	estd. (00)	sample	
	electric purifier	boiling	chemicall	chemicall	non-electric purifier	filtered with cloth	others	not treated				
1	2	3	4	5	6	7	8	9	10	11	12	
bottled water	0	14.4	0	0	0	0	0.7	84.9	100	709	25	
pipewater into dwelling	8	90.9	0	0	0.8	0	0	0.3	100	7127	285	
pipewaterto yard /plot	0	88.2	0	1.7	0	0	0	10.1	100	1660	66	
pipewater from neighbour	0	66.5	0	8.3	0	0	0	25.3	100	514	23	
public tap/stand pipe	0	81.9	0.7	0	0	0	0	17.4	100	2161	83	
tube well	2	94	0	0	0	0	0	4	100	2808	116	
hand pump	0	0	0	0	0	0	0	0	0	0	0	
protected well	7.1	77.5	0	2.8	0.6	0	0	11.9	100	6471	285	
unprotected well	4.8	87.2	0	0	0.6	0.2	0	7.3	100	19810	819	
public tanker-truck	0	0	0	0	0	0	0	0	0	0	0	
private tanker-truck	0	100	0	0	0	0	0	0	100	25	1	
protected spring	0	0	0	0	0	0	0	0	0	0	0	
unprotected spring	0	0	0	0	0	0	0	0	0	0	0	
rain water collection	0	0	0	0	0	0	0	0	0	0	0	
tank/pond	0	0	0	0	0	0	0	0	0	0	0	
other surface water	0	0	0	0	0	0	0	0	0	0	0	
others	0	0	0	0	0	0	0	0	0	0	0	
all	4.9	85.1	0	0.6	0.5	0.1	0	8.8	100	41285	1703	
no.of house holds	estd.(00)	2030	35101	16	253	215	47	5	3619	41285	X	X
	sample	72	1438	1	14	6	3	1	168	1703	X	X

Table 72: Percentage distribution of households by method of treatment of drinking water for different principal sources of drinking water												
Kerala						Rural + Urban						
principal source of drinking water	method of treatment of drinking water									no.of hhs		
	treated with							not treated	all	estd. (00)	sample	
	electric purifier	boiling	chemicall	chemicall	non-electric purifier	filtered with cloth	others	not treated				
	1	2	3	4	5	6	7	8	9	10	11	12
bottled water	0	14.4	0	0	0	0	0.7	84.9	100	709	25	
pipewater into dwelling	6	92	0	0	0.6	0	0	1.4	100	9639	384	
pipewaterto yard /plot	0.5	85.3	0	0.6	0	0	0	13.6	100	4851	203	
pipewater from neighbour	0	66.7	0	4.4	0	0	0	29	100	973	41	
public tap/stand pipe	0	83	0.5	1.2	0	0	0	15.3	100	2894	128	
tube well	1.4	94.1	0	0	0.3	0	0	4.3	100	6456	274	
hand pump	0	100	0	0	0	0	0	0	100	98	3	
protected well	3.4	82.4	0	1.4	0.5	0	0	12.3	100	18091	742	
unprotected well	3.4	84.8	0.1	0	0.4	0.1	0	11.1	100	39152	1524	
public tanker-truck	100	0	0	0	0	0	0	0	100	8	1	
private tanker-truck	0	100	0	0	0	0	0	0	100	79	3	
protected spring	0	0	0	0	0	0	0	0	0	0	0	
unprotected spring	0	100	0	0	0	0	0	0	100	357	8	
rain water collection	0	100	0	0	0	0	0	0	100	23	1	
tank/pond	0	72.8	0	0	0	0	0	27.2	100	394	12	
other surface water	0	91.6	0	0	0	8.4	0	0	100	42	6	
others	0	0	0	0	0	0	0	0	0	0	0	
all	3.1	85	0.1	0.4	0.4	0.1	0	10.9	100	83766	3355	
no.of house holds	estd.(00)	2636	71229	59	364	331	50	5	9092	83766	X	X
	sample	99	2842	2	18	11	4	1	378	3355	X	X

Table 73: Percentage distribution of households by method of taking out of stored drinking water from main container separately for different material of the main container

Kerala							Rural		
material of the main container	percentage distribution of households storing drinking water by material of main container	method of taking out of stored drinkingwater					all	no.of households	
		through tap	vessel with handle	vessel without handle	poured out	estd. (00)		sample	
								all	all
earthen	2.6	3.6	58.3	5.3	32.8	100	1094	46	
plastic	21.6	33.1	33.8	6	27.1	100	9171	381	
other non-metal	0.6	15.1	17.1	0	67.8	100	268	18	
iron	0	0	0	0	0	0	0	0	
copper	0.1	0	0	0	100	100	44	2	
stainless steel	63.9	2.7	52.5	10.8	34	100	27129	1018	
brass	0.4	0	32.6	15.3	52	100	186	10	
other metal	9.3	0.9	35.7	21.2	42.2	100	3934	152	
no storage	1.5	x	x	x	x	x	x	x	
all	100	9.3	46.6	10.5	33.6	100	41827	1627	
no.of house holds	estd.(00)	42481	3892	19502	4392	14041	41827	X	X
	sample	1652	163	738	177	549	1627	X	X

Table 73: Percentage distribution of households by method of taking out of stored drinking water from main container separately for different material of the main container

		Kerala				Urban			
material of the main container		percentage distribution of households storing drinking water by material of main container	method of taking out of stored drinkingwater				no.of households		
			through tap	vessel with handle	vessel without handle	poured out	all	estd. (00)	sample
								all	all
earthen		1.7	37	18.7	26.8	17.5	100	722	28
plastic		17.7	31.5	39.9	3.5	25.1	100	7318	311
other non-metal		1.9	46.1	7.7	12	34.3	100	788	30
iron		0	0	0	0	0	0	0	0
copper		0.2	0	65	0	35	100	69	3
stainless steel		66	11.1	48.3	12.8	27.8	100	27229	1141
brass		0.1	0	100	0	0	100	35	2
other metal		8.8	1.2	44.7	20.7	33.4	100	3651	136
no storage		3.6	x	x	x	x	x	x	x
all		100	15.1	45.2	12	27.7	100	39812	1651
no.of house holds	estd.(00)	41285	6005	17979	4786	11041	39812	X	X
	sample	1703	226	781	209	435	1651	X	X

Table 73: Percentage distribution of households by method of taking out of stored drinking water from main container separately for different material of the main container

		Kerala	Rural + Urban						
material of the main container		percentage distribution of households storing drinking water by material of main container	method of taking out of stored drinkingwater				no.of households		
			through tap	vessel with handle	vessel without handle	poured out	all	estd. (00)	sample
								all	all
earthen		2.2	16.9	42.5	13.8	26.7	100	1816	74
plastic		19.7	32.4	36.5	4.9	26.2	100	16489	692
other non-metal		1.3	38.2	10.1	8.9	42.8	100	1055	48
iron		0	0	0	0	0	0	0	0
copper		0.1	0	39.6	0	60.4	100	114	5
stainless steel		64.9	6.9	50.4	11.8	30.9	100	54358	2159
brass		0.3	0	43.2	12.9	43.9	100	221	12
other metal		9.1	1	40	21	38	100	7585	288
no storage		2.5	x	x	x	x	x	x	x
all		100	12.1	45.9	11.2	30.7	100	81638	3278
no.of house holds	estd.(00)	83766	9897	37481	9178	25082	81638	X	X
	sample	3355	389	1519	386	984	3278	X	X

Appendix B

Sample Design and Estimation Procedure

Appendix B

Sample Design and Estimation Procedure

1. Introduction

1.1 The National Sample Survey (NSS), set up by the Government of India in 1950 to collect socio-economic data employing scientific sampling methods, conducted its 76th round during July 2018 - December 2018. The 76th round of NSS was earmarked for surveys on Drinking water, Sanitation, Hygiene, Housing conditions and survey of persons on disabilities.

2. Outline of survey programme

2.1 **Geographical coverage:** The survey covered the whole of Indian Union except the villages in Andaman and Nicobar Islands which were difficult to access.

2.2 **Period of survey and work programme:** The field work of the survey was carried out from 1st July, 2018 to 31st December 2018. There was no sub-round restriction in the sample design of this round. However, considering the operational convenience and workload in the field, it was felt that even though sub-round wise allocation was not done in sample design, sub-round assignment is useful for uniform spread of work in field. Hence distribution of sample units was made uniform over two quarters of the survey.

2.3 **Schedules of enquiry:** During this round, three schedules of enquiry were canvassed:

Schedule 0.0 :	list of households
Schedule 1.2 :	drinking water, sanitation, hygiene and housing condition
Schedule 26 :	survey of persons with disabilities

2.4 **Participation of States:** All the States and Union Territories except Andaman & Nicobar Islands, Chandigarh, Dadra & Nagar Haveli and Lakshadweep participated. Following is the matching pattern of the participating States/ UTs.

State/UT	Extent of matching
Nagaland (U)	triple
Manipur, Telangana	double
Maharashtra (U)	one and half
Remaining States/ UTs	equal

3. Sample Design

3.1 Formation of sub-units (SUs):

3.1.1 **Rural areas:** In usual NSS rounds, large sample villages are divided into a number of sub-divisions called hamlet-groups based on population (approximate present population) of the villages during survey. This procedure was modified in this round. During this round, a rural village was notionally divided into a number of sub-units (SU) of more or less equal population during the preparation of frame. Census 2011 population of villages was projected by applying suitable growth rates and the number of SUs were formed in a village apriori.

3.1.2 The above procedure of SU formation was implemented in the villages with population *more than or equal to 1,000 as per Census 2011*. In the remaining villages, no SU was formed.

3.1.3 The number of SUs formed in the villages (with Census 2011 population 1,000 or more) of the frame was decided before selection of the samples following the criteria given below:

projected population of the village	no. of SUs formed
less than 1,200	1
1,200 to 2,399	2
2,400 to 3,599	3
3,600 to 4,799	4
4,800 to 5,999	5
.....and so on

3.1.4 Special case:

3.1.4.1 For rural areas of (i) Himachal Pradesh, (ii) Sikkim, (iii) Andaman & Nicobar Islands, (iv) Uttarakhand (except four districts Dehradun, Nainital, Hardwar and Udham Singh Nagar), (v) Punch, Rajouri, Udhampur, Reasi, Doda, Kishtwar, Ramban, Ladakh region (Leh and Kargil districts) of Jammu and Kashmir and (vi) Idukki district of Kerala, numbers of SUs formed in a village were determined in such a way that each SU contains 600 or less projected population. Further, SUs were not formed in the villages in the above mentioned districts/States with population less than 500 as per Census 2011. In the remaining villages, the number of SUs formed for these States/districts was as follows:

projected population of the village	no. of SUs formed
less than 600	1
600 to 1,199	2
1,200 to 1,799	3
1,800 to 2,399	4
2,400 to 2,999	5
.....and so on

3.1.4.2 For rural parts of Kerala, similar procedure as mentioned in para 3.1.3 above was adopted with the modification that the SUs were formed within Panchayat Wards instead of villages.

3.1.5 **Urban areas:** SUs were formed in urban sector also. The procedure was similar to that adopted in rural areas except that SUs were formed on the basis of households in the UFS frame. Each UFS block with number of households more than or equal to 200 was divided into a number of SUs. In the remaining UFS blocks, no SU was formed.

3.2 Outline of sample design: A stratified two stage design was adopted for the 76th round survey. *The first stage units (FSU) were villages/UFS blocks/sub-units (SUs) as per the situation.* The ultimate stage units (USU) were households in both the sectors.

3.3 Sampling Frame for First Stage Units:

3.3.1 There was no SU formation in uninhabited villages and villages (Panchayat wards for Kerala) with population less than 1,000 as per Census 2011 (less than 500 as per Census 2011 for the areas mentioned in para 3.1.4.1) and entire village was considered as one FSU. All such villages (Panchayat wards for Kerala) were the First Stage Units (FSUs).

3.3.2 In the remaining villages, notional sub-units (SUs) following the procedure as described in para 3.1.1 were formed. Such SUs were considered as First Stage Units (FSUs).

3.3.3 For the UFS blocks with less than 200 households, the entire UFS block was considered as one FSU. In the remaining UFS blocks, the SUs were considered as First Stage Units (FSUs).

3.3.4 List of FSUs as described above was the sampling frame for respective cases.

3.4 Stratification:

- (a) Each district was considered as a stratum. Within each district of a State/UT, generally speaking, two basic strata were formed: (i) rural stratum comprising of all rural areas of the district and (ii) urban stratum comprising of all the urban areas of the district. However, within the urban areas of a district, if there were one or more towns with

population one million or more as per Census 2011, each of them was considered as a separate basic stratum and the remaining urban areas of the district was considered as another basic stratum.

- (b) A special stratum, in the rural areas only, was formed at State/UT level before district level strata were formed in each State/UT. This stratum comprised all the uninhabited villages of the State/UT as per Census 2011. However, this special stratum was formed if at least 50 such villages were available in a State/UT.

3.5 Sub-stratification:

3.5.1 Rural sector: Two groups of villages were formed within each stratum (except special stratum):

Group 1: all villages (Panchayat wards for Kerala) with Census 2011 population less than 1,000 (less than 500 for special cases mentioned in 3.1.4.1)

Group 2: remaining villages

In both the groups, number of sub-strata was formed in the following manner:

The sample size for a rural stratum was allocated among 2 groups in proportion to population. Let r_1 and r_2 be the allocations to Group 1 and Group 2 respectively. The villages within each group were first arranged in ascending order of population. Then ' $r_1/2$ ' and ' $r_2/2$ ' sub-strata were demarcated in Group 1 and Group 2 respectively in such a way that each sub-stratum comprised of a group of villages (all SUs of a village considered together) of the arranged frame and had more or less equal population. Sub-stratum numbers in Group 2 started from 11.

If number of villages in Group 1 was very small, no sub-stratum was formed.

3.5.2 Urban sector: Let ' u ' be the sample size allocated for an urban stratum. For all strata, if ' $u/2$ ' > 1 , implying formation of 2 or more sub-strata, all the UFS blocks within the stratum were first arranged in ascending order of total number of households in the UFS blocks as per urban frame. Then sub-strata were demarcated in such a way that each sub-stratum comprised a group of UFS blocks (all SUs within the block taken together) having more or less equal number of households.

3.6 Total sample size (FSUs): 9,000 FSUs were allocated for the central sample at all-India level. For the state sample, 9,690 FSUs were allocated at the all-India level.

3.7 Allocation of total sample to States and UTs: The total number of sample FSUs was allocated to the States and UTs in proportion to population as per Census 2011 subject to a minimum sample allocation to each State/UT.

3.8 Allocation of State/ UT level sample to rural and urban sectors: State/UT level sample size was allocated between two sectors in proportion to population as per Census 2011 with 1.5 weightage to urban sector. A minimum of 4 FSUs, each for rural and urban sector separately, were allocated to each State/UT. For more urbanised big States like Maharashtra, Tamil Nadu etc., the urban allocation was limited to rural sample size to avoid undue weightage to urban sector.

3.9 Allocation to strata: Within each sector of a State/ UT, the respective sample size was allocated to the different strata in proportion to the population as per Census 2011. Stratum level allocation was adjusted to multiples of 2 with a minimum sample size of 2.

For special stratum formed at state level as mentioned in para 3.4(b), 2 FSUs were allocated.

3.10 Allocation to sub-strata:

3.10.1 Rural: Allocation was 2 for each sub-stratum.

3.10.2 Urban: Allocation was 2 for each sub-stratum for urban sector.

3.11 Selection of FSUs within a stratum/sub-stratum:

3.11.1 From all the sub-strata of Group 1 within each stratum of rural sector, required number of FSUs was selected by Probability Proportional to Size With Replacement (PPSWR) scheme with Census 2011 population as size.

3.11.2 From the remaining sub-strata of a rural stratum, and all sub-strata in urban sector within each stratum, required number of FSUs was selected by Simple Random Sampling With Replacement (SRSWR) scheme.

3.11.3 FSUs were selected by Simple Random Sampling With Replacement (SRSWR) scheme in the special stratum formed in rural sector at the State/UT level.

3.11.4 No sub-sample wise selection was done in this round and FSUs were selected in the form of single sample only.

3.12 Formation of sub-units and listing of households

3.12.1 Procedure of formation of SUs: After identification of the boundaries of the village/ UFS block which contains the sample FSU, the village/ UFS block was divided into the number of SUs (say, D) as given in the sample list by more or less equalising the present population of the village/UFS block in which the sample FSUs was located. It was ensured that SUs formed were clearly identifiable in terms of physical landmarks. For villages/blocks where the number of SUs to be formed was 1 as per the sample list, no SU was formed.

3.12.2 Listing of households: All the households of the sample FSU were listed. Temporarily locked households were also listed after ascertaining the temporariness of locking of households through local enquiry.

3.13 Formation of second stage strata (SSS) and allocation of households in different SSS:

3.13.2A cut-off point 'A' was determined from household's usual monthly consumer expenditure collected in Schedule 21.1: Domestic Tourism Expenditure of NSS 72nd round (July 2014 - June 2015) data (with proper adjustments using price indices) for each NSS region for both rural and urban areas separately, in such a way that top 10% of the population had MPCE more than or equal to 'A'.

3.13.3 Composition of the SSS and number of households surveyed from different SSS for both rural and urban sectors was as follows:

SSS	composition of SSS	number of households allocated
SSS 1:	households having MPCE \geq A	2
SSS 2:	remaining households	10
Total		12

3.14 Selection of households: The sample households from each SSS were selected by SRSWOR.

4. Estimation Procedure

4.1 Notations:

s = subscript for s-th stratum

t = subscript for t-th sub-stratum

i = subscript for i-th FSU [SU/ village (panchayat ward)/ block]

j = subscript for j-th second stage stratum in an FSU

k = subscript for k-th sample household within an FSU

N = total number of FSUs in any rural/urban sub-stratum

Z = total size of villages in a rural sub-stratum (where villages are selected as FSUs i.e. sub-stratum numbers 01 - 10)

z = size of sample FSU used for selection in sub-stratum numbers 01 - 10

n = number of sample FSUs surveyed including 'uninhabited' and 'zero cases' but excluding casualty for a particular sub-stratum

H = total number of households listed in a second-stage stratum of an FSU

h = number of households surveyed in a second-stage stratum of an FSU

x, y = observed value of characteristics x, y under estimation

\hat{X} , \hat{Y} = estimate of population total X, Y for the characteristics x, y

Under the above symbols,

y_{stijk} = observed value of the characteristic y for the k-th household of the j-th second stage stratum of the i-th FSU for the t-th sub-stratum of s-th stratum.

However, for ease of understanding, a few symbols have been suppressed in following paragraphs where they are obvious.

4.2 Formulae for Estimation of Aggregates for a stratum \times sub-stratum:

4.2.1 Schedules 1.2:

4.2.1.1 Rural:

4.2.1.1.1 Case 1: Sub-strata of special Stratum (i.e. stratum = 99 and sub-stratum = 01)

(i) For j-th second-stage:

$$\hat{Y}_j = \frac{N}{n_j} \sum_{i=1}^{n_j} \left[\frac{H_{ij}}{h_{ij}} \sum_{k=1}^{h_{ij}} y_{ijk} \right]$$

4.2.1.1.2 Case 2: Sub-strata of Group 1 villages (Sub-stratum Number: 01, 02, ..., 10)

(i) For j-th second-stage stratum of a stratum \times sub-stratum:

$$\hat{Y}_j = \frac{Z}{n_j} \sum_{i=1}^{n_j} \frac{1}{z_i} \left[\frac{H_{ij}}{h_{ij}} \sum_{k=1}^{h_{ij}} y_{ijk} \right]$$

4.2.1.1.3 Case 3: Sub-strata of Group 2 villages (Sub-stratum Number: 11 onwards)

(i) For j-th second-stage stratum of a stratum \times sub-stratum:

$$\hat{Y}_j = \frac{N}{n_j} \sum_{i=1}^{n_j} \left[\frac{H_{ij}}{h_{ij}} \sum_{k=1}^{h_{ij}} y_{ijk} \right]$$

4.2.1.1.3 For all second-stage strata combined:

$$\hat{Y} = \sum_j \hat{Y}_j$$

4.2.1.2 Urban:

4.2.1.2.1 (i) For j-th second-stage stratum of a stratum \times sub-stratum:

$$\hat{Y}_j = \frac{N}{n_j} \sum_{i=1}^{n_j} \left[\frac{H_{ij}}{h_{ij}} \sum_{k=1}^{h_{ij}} y_{ijk} \right]$$

(ii) For all second-stage strata combined:

$$\hat{Y} = \sum_j \hat{Y}_j$$

4.3 Overall Estimate for Aggregates for a stratum:

Overall estimate for a stratum (\hat{Y}_s) was obtained as

$$\hat{Y}_s = \sum_t \hat{Y}_{st}$$

4.4 Overall Estimate of Aggregates at State/UT/all-India level:

The overall estimate \hat{Y} at the State/ UT/ all-India level was obtained by summing the stratum estimates \hat{Y}_s over all strata belonging to the State/ UT/ all-India.

4.5 Estimates of Ratios:

Let \hat{Y} and \hat{X} be the overall estimates of the aggregates Y and X for two characteristics y and x respectively at the State/ UT/ all-India level.

Then the combined ratio estimate (\hat{R}) of the ratio ($R = \frac{Y}{X}$) was obtained as $\hat{R} = \frac{\hat{Y}}{\hat{X}}$.

4.6 Estimates of Error: The estimated variances of the above estimates are as follows:

4.6.1 For aggregate \hat{Y} :

$$V\hat{a}r(\hat{Y}) = \sum_s V\hat{a}r(\hat{Y}_s) = \sum_s \sum_t V\hat{a}r(\hat{Y}_{st})$$

Rural

(a) Sub-strata of special stratum (i.e. stratum = 99 and sub-stratum = 01):

$$V\hat{a}r(\hat{Y}_{st}) = V\hat{a}r_{srswr}(\hat{Y}_{st}) = \left[\sum_t \frac{1}{n_{st}(n_{st}-1)} \sum_{i=1}^{n_{st}} (N_{st} \hat{Y}_{sti} - \hat{Y}_{st})^2 \right]$$

where $N_{st} \hat{Y}_{sti} = \sum_j \sum_k y_{stijk} \times n_{st} \times multiplier \dots\dots(i)$

(b) Sub-strata of Group 1 villages (Sub-stratum Number: 01, 02, ,10):

$$V\hat{a}r(\hat{Y}_{st}) = V\hat{a}r_{ppswr}(\hat{Y}_{st}) = \left[\sum_t \frac{1}{n_{st}(n_{st}-1)} \sum_{i=1}^{n_{st}} \left(\frac{Z_{st} \hat{Y}_{sti}}{z_{sti}} - \hat{Y}_{st} \right)^2 \right],$$

where $\frac{Z_{st} \hat{Y}_{sti}}{z_{sti}} = \sum_j \sum_k y_{stijk} \times n_{st} \times multiplier \dots\dots(ii)$

(c) Sub-strata of Group 2 villages (Sub-stratum Number: 11 onwards):

$$V\hat{a}r(\hat{Y}_{st}) = V\hat{a}r_{srswr}(\hat{Y}_{st}) = \left[\sum_t \frac{1}{n_{st}(n_{st}-1)} \sum_{i=1}^{n_{st}} (N_{st} \hat{Y}_{sti} - \hat{Y}_{st})^2 \right]$$

where $N_{st} \hat{Y}_{sti}$ is same as given in 4.6.1 a(i)

Urban:

$$V\hat{a}r(\hat{Y}_{st}) = V\hat{a}r_{srswr}(\hat{Y}_{st}) = \left[\sum_t \frac{1}{n_{st}(n_{st}-1)} \sum_{i=1}^{n_{st}} (N_{st} \hat{Y}_{sti} - \hat{Y}_{st})^2 \right]$$

where $N_{st} \hat{Y}_{sti}$ is same as given in 4.6.1 a(i)

4.6.2 For ratio \hat{R} :

$$M\hat{S}E(\hat{R}) = \frac{1}{\hat{X}^2} \sum_s \left[\sum_t M_{st} + \sum_{t'} M_{st'} \right]$$

where t, t' indicate respectively the sub-strata with PPSWR and SRSWR selection at first stage.

Rural:

(a) Sub-strata of special stratum (i.e. stratum = 99 and sub-stratum = 01):

$$M_{st'} = \frac{1}{n_{st'}(n_{st'}-1)} \sum_{i=1}^{n_{st'}} \left[N_{st'} (\hat{Y}_{st'i} - \hat{R} \hat{X}_{st'i}) - (\hat{Y}_{st'} - \hat{R} \hat{X}_{st'}) \right]^2$$

where

$$N_{st'} \hat{Y}_{st'i} = \sum_j \sum_k y_{st'ijk} \times n_{st'} \times multiplier \dots\dots\dots(iii)$$

and $N_{st'} \hat{X}_{st'i} = \sum_j \sum_k x_{st'ijk} \times n_{st'} \times multiplier \dots\dots\dots(iv)$

(b) Sub-strata of Group 1 villages (Sub-stratum Number: 01, 02, ,10):

$$M_{st} = \frac{1}{n_{st}(n_{st} - 1)} \sum_{i=1}^{n_{st}} \left[\frac{Z_{st}}{z_{sti}} (\hat{Y}_{sti} - \hat{R}\hat{X}_{sti}) - (\hat{Y}_{st} - \hat{R}\hat{X}_{st}) \right]^2$$

where

$$\frac{Z_{st}}{z_{sti}} \hat{Y}_{sti} = \sum_j \sum_k y_{stijk} \times n_{st} \times multiplier \quad \text{and}$$

$$\frac{Z_{st}}{z_{sti}} \hat{X}_{sti} = \sum_j \sum_k x_{stijk} \times n_{st} \times multiplier$$

(c) Sub-strata of Group 2 villages (Sub-stratum Number: 11 onwards):

$$M_{st'} = \frac{1}{n_{st'}(n_{st'} - 1)} \sum_{i=1}^{n_{st'}} \left[N_{st'} (\hat{Y}_{st'i} - \hat{R}\hat{X}_{st'i}) - (\hat{Y}_{st'} - \hat{R}\hat{X}_{st'}) \right]^2$$

Where

$N_{st'} \hat{Y}_{st'i}$ and $N_{st'} \hat{X}_{st'i}$ are same as given in 4.6.2 a(iii) and 4.6.2 a(iv) respectively.

Urban:

$$M_{st'} = \frac{1}{n_{st'}(n_{st'} - 1)} \sum_{i=1}^{n_{st'}} \left[N_{st'} (\hat{Y}_{st'i} - \hat{R}\hat{X}_{st'i}) - (\hat{Y}_{st'} - \hat{R}\hat{X}_{st'}) \right]^2$$

Where

$N_{st'} \hat{Y}_{st'i}$ and $N_{st'} \hat{X}_{st'i}$ are same as given in 4.6.2 a(iii) and 4.6.2 a(iv) respectively.

4.6.3 Estimates of Relative Standard Error (RSE):

$$R\hat{S}E(\hat{Y}) = \frac{\sqrt{Var(\hat{Y})}}{\hat{Y}} \times 100$$

$$R\hat{S}E(\hat{R}) = \frac{\sqrt{M\hat{S}E(\hat{R})}}{\hat{R}} \times 100$$

5. Multipliers:

The formulae for multipliers at stratum/sub-stratum/second-stage stratum level for a schedule type are given below:

sch type	sector	multipliers
1.2	rural (sub-strata of special stratum i.e. stratum = 99)	$\frac{N_{st}}{n_{stj}} \times \frac{H_{stij}}{h_{stij}}$
	rural (sub-stratum number: 01, 02, ..., 10)	$\frac{Z_{st}}{n_{stj}} \times \frac{1}{z_{sti}} \times \frac{H_{stij}}{h_{stij}}$
	rural (sub-stratum number: 11 onwards)	$\frac{N_{st}}{n_{stj}} \times \frac{H_{stij}}{h_{stij}}$
	urban	$\frac{N_{st}}{n_{stj}} \times \frac{H_{stij}}{h_{stij}}$
	j = 1, 2 for Schedule 1.2 and j = 1, 2, 3, 4, 5, 6, 7 for Schedule 26	

For estimating any characteristic for any domain not specifically considered in sample design, indicator variable was used. Multipliers were computed on the basis of information available in the listing schedule irrespective of any misclassification observed between the listing schedule and detailed enquiry schedule.

Table 1: Allocation of sample FSUs at state/UT level for central and state sample

State/UT	number of sample FSUs					
	central sample			state sample		
	total	rural	urban	total	rural	urban
(1)	(2)	(3)	(4)	(5)	(6)	(7)
ANDHRA PRADESH	328	200	128	328	200	128
ARUNACHAL PRADESH	98	66	32	98	66	32
ASSAM	300	228	72	300	228	72
BIHAR	586	466	120	586	466	120
CHHATTISGARH	180	114	66	180	114	66
GOA	20	10	10	20	10	10
GUJARAT	406	204	202	406	204	202
HARYANA	184	102	82	184	102	82
HIMACHAL PRADESH	82	56	26	82	56	26
JAMMU & KASHMIR	150	88	62	150	88	62
JHARKHAND	216	134	82	216	134	82
KARNATAKA	410	210	200	410	210	200
KERALA	284	142	142	284	142	142
MADHYA PRADESH	496	314	182	496	314	182
MAHARASHTRA	780	390	390	976	390	586
MANIPUR	188	108	80	376	216	160
MEGHALAYA	110	74	36	110	74	36
MIZORAM	102	52	50	102	52	50
NAGALAND	76	46	30	136	46	90
ODISHA	308	236	72	308	236	72
PUNJAB	200	104	96	200	104	96
RAJASTHAN	440	284	156	440	284	156
SIKKIM	68	44	24	68	44	24
TAMIL NADU	516	258	258	516	258	258
TELANGANA	248	126	122	496	252	244
TRIPURA	188	114	74	188	114	74
UTTAR PRADESH	1042	700	342	1042	700	342
UTTARAKHAND	84	54	30	84	54	30
WEST BENGAL	652	384	268	652	384	268
A & N ISLANDS	24	14	10			
CHANDIGARH	16	4	12			
D & N HAVELI	16	8	8			
DAMAN & DIU	16	8	8	16	8	8
DELHI	140	24	116	210	36	174
LAKSHADWEEP	16	8	8			
PUDUCHERRY	30	10	20	30	10	20
ALL-INDIA	9000	5384	3616	9690	5596	4094



Appendix C
Facsimile of Schedule 1.2

RURAL		*
URBAN		

Appendix C

CENTRAL		*
STATE		

GOVERNMENT OF INDIA
NATIONAL SAMPLE SURVEY OFFICE
SOCIO-ECONOMIC SURVEY
SEVENTY-SIXTH ROUND: JULY 2018 – DECEMBER 2018
SCHEDULE 1.2: DRINKING WATER, SANITATION, HYGIENE
and HOUSING CONDITION

[0] descriptive identification of sample household			
1. state/u.t.:	5. investigator unit number /block number:		
2. district:	6. sample sub-unit (SU) number		
3. sub-district/tehsil/town:*	7. name of head of household:		
4. village name:	8. name of informant:		

[1] identification of sample household							
item no.	item	code			item no.	item	code
1.	srl. no. of sample FSU				6.	serial number of informant (as in column 1 of block 3)	
2.	round number	7		6	7.	response code	
3.	schedule number	1	2	0	8.	survey code	
4.	second-stage stratum number (1/2)				9.	reason for substitution of original household (code)	
5.	sample household number						

Codes for Block 1

item 7: response code: informant: *co-operative and capable - 1, co-operative but not capable - 2, busy - 3, reluctant - 4, others - 9.*

item 8: survey code: household surveyed: *original - 1, substitute - 2; casualty - 3.*

item 9: reason for substitution of original household:

informant busy - 1, members away from home - 2, informant non-cooperative - 3, others - 9.

* tick mark (✓) may be put in the appropriate place.

Codes for Block 3

- col. 3: **relation to head:** self - 1, spouse of head - 2, married child - 3, spouse of married child - 4, unmarried child - 5, grandchild - 6, father/mother/father-in-law/mother-in-law - 7, brother/sister/brother-in-law/sister-in-law/other relatives - 8, servant/employees/other non-relatives - 9.
- col. 4: **gender:** male - 1, female - 2, transgender - 3.
- col. 6: **marital status:** never married - 1, currently married - 2, widowed - 3, divorced/separated - 4.
- col. 7: **highest level of education:** not literate - 01, literate without any schooling - 02, literate without formal schooling: through NFEC - 03, through TLC/ AEC - 04, others - 05; literate with formal schooling: below primary - 06, primary - 07, upper primary/middle - 08, secondary - 10, higher secondary - 11, diploma /certificate course (upto secondary) - 12, diploma/certificate course (higher secondary) - 13, diploma/certificate course (graduation & above) - 14, graduate - 15, post graduate and above - 16.
- col. 8: **usual principal activity status:**
- worked in household enterprise (self-employed): own account worker - 11, employer - 12,*
 - worked as helper in household enterprise (unpaid family worker) - 21;*
 - worked as regular salaried/ wage employee - 31;*
 - worked as casual wage labour: in public works - 41, in other types of work - 51;*
 - did not work but was seeking and/ or available for work - 81,*
 - attended educational institution - 91, attended domestic duties only - 92,*
 - attended domestic duties and was also engaged in free collection of goods (vegetables, roots, firewood, cattle feed, etc.), sewing, tailoring, weaving, etc. for household use - 93,*
 - rentiers, pensioners, remittance recipients, etc. - 94, not able to work due to disability - 95,*
 - others (including begging, prostitution, etc.) - 97.*
- col. 9: **industry:** 2-digit code as per NIC -2008.
- col. 10: **occupation:** 2-digit code as per NCO -2004.
- col. 11: **use of latrine:** regularly - 1, occasionally - 2, never - 3.
- col. 12: **type of latrine used:** flush/pour-flush to: piped sewer system - 01, septic tank - 02, twin leach pit - 03, single pit - 04, elsewhere (open drain, open pit, open field, etc) - 05; ventilated improved pit latrine - 06, pit latrine with slab - 07, pit latrine without slab/ open pit - 08, composting latrine - 10, others - 19.
- col. 14: **reason for not using latrine:** latrine has no superstructure - 1, latrine is not clean/sufficient water is not available in the latrine - 2, malfunctioning of the latrine - 3, shortage of latrine - 4, latrine is used for other purposes - 5, lack of privacy/safety - 6, personal preference - 7, cannot afford charges for paid latrine - 8, others - 9.

[4] household characteristics								
1.	household size			<i>amount spent by the household on construction/first-hand purchase of houses/ flats for residential purpose and sources of finance</i>				
2.	religion (code)		12.	whether spent any amount during last 365 days ? (yes-1, no-2)				
3.	social group (code)		13.	for 1 in item 12	amount spent (Rs.)			
4.	land possessed as on the date of survey (code)		14.		sources of finance (codes)			
<i>household's usual monthly consumer expenditure (Rs.)</i>					(four different sources in descending order of amount financed)			
5.	usual consumer expenditure in a month for household purposes out of purchase (A)							
6.	imputed value of usual consumption in a month from home grown stock (B)		<i>benefit received by the household from government schemes for drinking water, sanitation, housing, electrification, LPG connection facilities</i>					
7.	imputed value of usual consumption in a month from wages in kind, free collection, gifts, etc. (C)			facility	whether ever received any benefit? (yes - 1, no - 2, not known - 3)	if ever received any benefit, whether received benefit during last 3 years (yes - 1, no - 2, not known - 3)	if received any benefit during last 3 years, scheme from which maximum benefit was received (code)	
8.	expenditure on purchase of household durables during last 365 days (D)							
9.	usual monthly consumer expenditure [A + B + C +(D/12)]		15.1	drinking water				
			15.2	sanitation				
			15.3	housing				
			15.4	electrification				
			15.5	LPG connection				
10.	tenurial status of dwelling (code)		<i>maximum distance normally travelled to the place of work:</i>					
			16.1	among the male earners (code)				
11.	for 1 to 5 or 9 in item 10, area type in which the dwelling unit is located (code)		16.2	among the female earners (code)				
			16.3	among the transgender earners (code)				

Codes for Block 4

item 2: **religion:** Hinduism - 1, Islam - 2, Christianity - 3, Sikhism - 4, Jainism - 5, Buddhism - 6, Zoroastrianism - 7, others - 9.

item 3: **social group:** scheduled tribe (ST) - 1, scheduled caste (SC) - 2, other backward class (OBC) - 3, others - 9.

item 4: **land possessed:**

area in hectare	code	area in hectare	code
less than 0.005	01	2.01 – 3.01	07
0.005 - 0.02	02	3.01 - 4.01	08
0.02 - 0.21	03	4.01 - 6.01	10
0.21 - 0.41	04	6.01 - 8.01	11
0.41 - 1.01	05	greater than or equal to 8.01	12
1.01 – 2.01	06		

Note 1: 1 acre = 0.4047 hectare, 1 hectare=10,000 square metre.

Note 2: Entry will be '99' if the sample household does not possess any land.

item 10: **tenurial status of dwelling:** owned: freehold - 1, leasehold - 2; hired: employer quarter -3, hired dwelling unit with written contract -4, hired dwelling unit without written contract -5; others -9, no dwelling -6.

item 11: **area type of dwelling unit:** notified slum - 1, non-notified slum - 2, squatter settlement - 3, other areas -9.

item 14: **sources of finance:**

own source (including own labour)	01		
institutional agencies		non-institutional agencies	
government.....	02	self help group.....	08
bank	03	money lender.....	09
insurance.....	04	friends and relatives.....	10
provident fund (advance/ loan).....	05	other non-institutional agencies	11
financial corporation/ institution.....	06		
other institutional agencies.....	07		

item 15.1: **schemes for drinking water:** National Rural Drinking Water Programme (NRDWP) -1, Atal Mission for Rejuvenation and Urban Transformation (AMRUT) -2, Smart Cities Mission -3, other scheme -9, not known -5.

item 15.2: **schemes for sanitation:** Swachh Bharat Mission (SBM) -1, Atal Mission for Rejuvenation and Urban Transformation (AMRUT) - 2, Smart Cities Mission - 3, other scheme - 9, not known - 5.

item 15.3: **schemes for housing:** Pradhan Mantri Awas Yojana (PMAY) -1, other scheme - 9, not known - 5.

item 15.4: **schemes for electrification:** Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY) -1, other scheme -9, not known - 5.

item 15.5: **schemes for LPG connection:** Pradhan Mantri Ujjwala Yojana (PMUY) - 1, other scheme - 9, not known - 5.

item 16.1-16.3: **distance:** not required to travel - 1; travelled a distance of: less than 1 k.m. - 2, 1 to 5 k.m. - 3, 5 to 10 k.m. - 4, 10 to 15 k.m. - 5, 15 to 30 k.m. - 6, 30 k.m. or more - 7.

[5] particulars of living facilities: drinking water, bathroom, sanitation, etc.							
srl. no.	item						code/entry
(1)	(2)						(3)
A. drinking water							
1.	principal source of drinking water (bottled water - 01, piped water into dwelling - 02, piped water to yard/plot - 03, piped water from neighbour - 04, public tap/standpipe - 05, tube well - 06, hand pump - 07, well: protected - 08, unprotected - 09; tanker-truck: public - 10, private - 11; spring: protected - 12, unprotected - 13; rainwater collection - 14, surface water: tank/pond - 15, other surface water (river, dam, stream, canal, lake, etc.) - 16; others (cart with small tank or drum, etc) - 19)						
2.	whether availability of drinking water from the principal source is sufficient throughout the year? (yes - 1, no - 2)						
3.	for 2 in item 2, during which calendar months of the year availability of drinking water was not sufficient? (record '1' against the applicable month(s) and rest of the months to be left blank)	Jan	Feb	Mar	Apr	May	Jun
		Jul	Aug	Sep	Oct	Nov	Dec
4.	access to the principal source of drinking water (exclusive use of household - 1, common use of households in the building - 2, neighbour's source - 3, community use: public source restricted to particular community - 4, public source unrestricted - 5, private source restricted to particular community - 6, private source unrestricted - 7; others - 9)						
5.	distance to the principal source of drinking water (within dwelling - 1, outside dwelling but within the premises - 2, outside premises: less than 0.2 k.m. - 3, 0.2 to 0.5 k.m. - 4, 0.5 to 1.0 k.m. - 5, 1.0 to 1.5 k.m. - 6, 1.5 k.m. or more - 7)						
6.	who fetches drinking water from principal source? (male members of the household of age: below 18 years - 1, 18 years or more - 2; female members of the household of age: below 18 years - 3, 18 years or more - 4; hired labour - 5, others - 9)						
7.	for 3 to 7 in item 5	time taken for a single trip to reach the principal source of drinking water, obtain water and back to household (in minutes) [no decimal point]					
8.		waiting time at the principal source of drinking water in a single trip (in minutes) [no decimal point]					
9.		number of trips required in a day for fetching drinking water from principal source					
10.	for 02 to 14 in item 1, is there stagnant water around the source of drinking water? (yes - 1, no - 2)						
11.	supplementary source of drinking water (code structure same as item 1: principal source of drinking water)						
12.	method of treatment of drinking water by the household (treated: electric purifier - 1, boiling - 2, chemically treated with alum - 3, chemically treated with bleach/ chlorine tablets - 4, non-electric purifier - 5, filtered with cloth - 6, others - 9; not treated - 7)						
13.	material of the main container in which drinking water is stored (non-metal: earthen - 1, plastic - 2, other non-metal - 3; metal: iron - 4, copper - 5, stainless steel - 6, brass - 7, other metal - 8; no storage - 9)						

continued to next page

[5] particulars of living facilities: drinking water, bathroom, sanitation, etc.			
srl. no.	item		code/entry
(1)	(2)		(3)
14.	for 1 to 8 in item 13	how long drinking water is stored in the main container? <i>(less than 1 day - 1, 1 day or more but less than 3 days - 2, 3 days or more -3)</i>	
15.		whether drinking water stored in the main container is covered? <i>(yes - 1, no - 2)</i>	
16.		how drinking water is taken out from the main container? <i>(through tap - 1, vessel with handle dipped in to take out water - 2, vessel without handle dipped in to take out water - 3, poured out - 4)</i>	
B. water for all household activities			
17.	principal source of water for all household activities excluding drinking (viz., cooking, washing, bathing, etc.) (code structure same as item 1: principal source of drinking water)		
18.	whether the household gets sufficient water throughout the year for all household activities (viz., drinking, cooking, washing, bathing, etc.)? <i>(yes - 1, no - 2)</i>		
19.	for 02 to 05, 10 and 11 in either item 1, 11 or 17 , frequency of supply of water <i>(daily - 1, once in two days - 2, once in three days - 3, once in a week - 4, others - 9)</i>		
20.	for 02 and 03 in either item 1, 11 or 17 , whether water is metered ? <i>(yes - 1, no - 2)</i>		
21.	amount paid (payable) per month for purchase of water/ to the delivery agency, organisation, office etc. for water charges	21.1 whether any amount is usually paid in a month? <i>(yes: information on full amount of payment is available -1, information on some amount of payment is available - 2, no information on amount paid is separately available - 3; not required to pay - 4)</i>	
		21.2 for 1 and 2 in item 21.1 , average amount paid per month (Rs.)	
C. bathroom			
22.	access of the household to bathroom <i>(exclusive use of household - 1, common use of households in the building - 2, public/ community use without payment - 3, public/ community use with payment - 4, others - 9, no bathroom - 5)</i>		
23.	for 1 to 4 and 9 in item 22 , type of bathroom used by the household <i>(used: attached to the dwelling unit - 1, detached to the dwelling unit but within the household premises - 2, others - 9; not used - 3)</i>		
24.	distance from the bathing place <i>(within dwelling - 1, outside dwelling but within the premises - 2, outside premises: less than 0.2 k.m. - 3, 0.2 to 0.5 k.m. - 4, 0.5 to 1.0 k.m. - 5, 1.0 k.m. to 1.5 k.m.- 6, 1.5 k.m. or more - 7)</i>		
D. latrine			
25.	access of the household to latrine <i>(exclusive use of household - 1, common use of households in the building - 2, public/ community latrine without payment - 3, public/ community latrine with payment - 4, others - 9, no latrine - 5)</i>		
26.	for 1 to 4 and 9 in item 25 , type of latrine used by the household <i>(used: flush/pour-flush to: piped sewer system - 01, septic tank - 02, twin leach pit - 03, single pit - 04, elsewhere (open drain, open pit, open field, etc) - 05; ventilated improved pit latrine - 06, pit latrine with slab - 07, pit latrine without slab/ open pit - 08, composting latrine - 10, others - 19; not used - 11)</i>		

[5] particulars of living facilities: drinking water, bathroom, sanitation, etc.		
srl. no.	item	code/entry
(1)	(2)	(3)
27.	whether bathroom and latrine both are within the household premises? <i>(yes - 1, no - 2)</i>	
28.	for 1 in item 25 and 02 to 04, 06, 07 and 10 in item 26 , whether excreta from septic tank/pit/composting latrine have ever been emptied? <i>(yes- 1, no - 2, not known - 3)</i>	
29.	who emptied the excreta last time? <i>(panchayat/ municipality / corporation - 1, private agency - 2, hired labour engaged by the household - 3, member(s) of the household - 4, others - 9, not known - 5)</i>	
30.	place of disposal of excreta last time <i>(treatment plant - 1, buried in covered twin leach pit/ single pit - 2, uncovered pit/ open land/ pond/ river etc. - 3, other places - 9, not known - 4)</i>	
31.	for 1 in item 28 amount paid (payable) for emptying the excreta last time (Rs.)	
32.	how frequently excreta is emptied? <i>(once or more in a year - 1, once in 2 years - 2, once in 5 years - 3, once in 10 years - 4, others - 9, not known - 5)</i>	
33.	disposal of faeces for children of age below 3 years <i>(children used latrine -1, put/ rinsed into latrine - 2, put/ rinsed into drain or ditch - 3, thrown into garbage -4, thrown or left in open area -5, buried - 6, others - 9, not applicable -7)</i>	
34.	for 01 to 08, 10, 19 in item 26 , availability of water in or around the latrine used <i>(water is available with soap/ detergent - 1, water is available with ash/ mud/ sand etc. - 2, only water is available - 3; not available - 4)</i>	
E. practice of hand washing		
35.	whether household members regularly wash their hands before meal? <i>(yes: with water and soap/ detergent - 1, with water and ash/ mud/ sand etc.- 2, with water only - 3; no - 4)</i>	
36.	whether household members regularly wash their hands after defecation? <i>(yes: with water and soap/ detergent - 1, with water and ash/ mud/ sand etc. - 2, with water only - 3; no - 4)</i>	

[6] housing characteristics and micro environment of the households living in houses (i.e., with codes 1, 2, 3, 4, 5 or 9 in item 10 of block 4)					
srl. no.	item	code / entry			
(1)	(2)	(3)			
A. housing characteristics					
1.	plinth level of the house (<i>in feet and in whole numbers</i>) (record '0', if there is no plinth)				
2.	number of floor (s) in the house				
3.	use of house (<i>residential only - 1, residential-cum-commercial - 2, residential-cum-others - 9</i>)				
4.	for 1 or 2 in item 10 of block 4 , period since built (<i>less than 1 year - 01, 1 to 2 years - 02, 2 to 3 years - 03, 3 to 4 years - 04, 4 to 5 years - 05, 5 to 10 years - 06, 10 to 20 years - 07, 20 to 40 years - 08, 40 to 60 years - 10, 60 years or more - 11, not known - 12</i>)				
5.	for 01 to 05 in item 4	year of start	Y	Y	Y
6.		year of completion			
7.	condition of structure (<i>good - 1, satisfactory - 2, bad - 3</i>)				
8.	whether the household has electricity for domestic use? (<i>yes - 1, no - 2</i>)				
9.	for 1 in item 8 , type of electric wiring (<i>conduit wiring - 1, fixed to the walls - 2, temporary - 3</i>)				
10.	drainage system of the household (<i>underground -1, covered pucca -2, open pucca -3, open katcha -4, no drainage -5</i>)				
B. micro environment					
11.	system of disposal of household waste water (<i>safe re-use after treatment -1, disposed off without treatment to: drainage system - 2, open low land areas/streets - 3, ponds - 4, nearby river/nalla - 5; disposed off with or without treatment to other places - 9, not known - 6</i>)				
12.	place of disposal of household garbage (<i>disposed to: bio-gas plant or manure pit - 1, household's individual dumping spot(s) - 2, community dumping spot (vat, container, etc.) - 3, common place other than community dumping spot (open area/street/open drain) - 4, others - 9; not known - 5</i>)				
13.	agency made arrangement for collection of garbage of the household (<i>panchayet/municipality/corporation - 1, resident/group of residents - 2, others - 9, not known - 3; no arrangement - 4</i>)				
14.	for 3 and 4 in item 12 , how frequently garbage is cleared? (<i>daily - 1, not daily but at least once in a week - 2, not even once in a week - 3, not known - 4</i>)				
15.	whether experienced any flood during last 5 years? (<i>yes: from excessive rain during monsoon - 1, from river, sea, etc. - 2; no -3</i>)				

continued to next page

[6] housing characteristics and micro environment of the households living in houses (i.e., with codes 1, 2, 3, 4, 5 or 9 in item 10 of block 4)			
srl. no.	item		code / entry
(1)	(2)		(3)
16.	approach road / lane / constructed path (direct opening to: <i>motorable road / lane / constructed path with street light - 1, motorable road / lane / constructed path without street light - 2, other road / lane / constructed path with street light - 3, other road / lane / constructed path without street light - 4; no direct opening to road / lane / constructed path - 5</i>)		
17.	whether the household faces problem of stagnant water in or around the household premises? (<i>yes - 1, no - 2</i>)		
18.	whether human faeces are visible in or around the household premises? (<i>yes - 1, no - 2</i>)		
19.	animal shed and poultry farm	19.1	existence of animal shed/poultry farm (<i>attached to the house - 1, detached from the house - 2, no animal shed/poultry farm - 3</i>)
		19.2	for 1 or 2 in item 19.1 , disposal of animal/poultry excreta (<i>to biogas plant - 1, manure pit -2, used as fuel - 3, others - 9, not known - 4</i>)
C. problem of flies and mosquitoes			
20.	whether the household faced problem of flies/mosquitoes during last 365 days? (<i>yes: severe - 1, moderate - 2; no - 3</i>)		
21.	whether any effort was made by the Local Bodies/State Government during last 365 days to tackle problem of flies/mosquitoes? (<i>yes - 1, no - 2, not known - 3</i>)		
22.	for 1 or 2 in item 20 , whether any effort was made by the household during last 365 days to tackle problem of flies/mosquitoes? (<i>yes - 1, no - 2</i>)		
D. specific types of illness of the household members during last 365 days			
23.	whether any of the household member(s) suffered from the types of illness specified in items 23.1 to 23.5 during last 365 days?	23.1	stomach problems like diarrhea/dysentery/cholera (<i>yes - 1, no - 2</i>)
		23.2	malaria/dengue/chikungunya/encephalitis (<i>yes - 1, no - 2</i>)
		23.3	skin diseases (<i>yes - 1, no - 2</i>)
		23.4	jaundice (<i>yes - 1, no - 2</i>)
		23.5	other diseases (<i>yes - 1, no - 2</i>)

Note: for items relating to 'house', information will be collected for the whole 'structure' in which the dwelling unit is located.

[7] particulars of the dwelling of the households living in houses (i.e., with codes 1, 2, 3, 4, 5 or 9 in item 10 of block 4)		
srl. no.	item	code / entry
(1)	(2)	(3)
1.	type of the dwelling (<i>independent house - 1, flat - 2, others - 9</i>)	
2.	number of rooms in the dwelling	living rooms
3.		other rooms
4.	floor area of the dwelling <i>[in square feet and in whole numbers]</i>	living rooms
5.		other rooms
6.		covered veranda
7.		uncovered veranda
8.		total (sum of items 4 to 7)
9.	ventilation of the dwelling unit (<i>good - 1, satisfactory - 2, bad - 3</i>)	
10.	total number of married couples in the household	
11.	for entry > 0 in item 10 , number of married couples having separate room	
12.	kitchen type (<i>separate kitchen: with water tap - 1, without water tap - 2; no separate kitchen - 3</i>)	
13.	type of fuel used by household for cooking (<i>firewood, chips & crop residue - 01, LPG - 02, other natural gas - 03, dung cake - 04, kerosene - 05, coke / coal - 06, gohar gas - 07, other biogas - 08, charcoal - 09, electricity (incl. generated by solar or wind power generators) - 10, solar cooker - 11, others - 19, no cooking arrangement - 12</i>)	
14.	floor type (<i>mud - 1, bamboo / log - 2, wood / plank - 3, brick / stone / lime stone - 4, cement - 5, mosaic / tiles - 6, others - 9</i>)	
15.	wall type (<i>grass/ straw/ leaves/ reeds/ bamboo, etc. - 1, mud (with / without bamboo) / unburnt brick - 2, canvas / cloth - 3, other katcha - 4, timber - 5, burnt brick / stone / lime stone - 6, iron or other metal sheet - 7, cement / RBC / RCC - 8, other pucca - 9</i>)	
16.	roof type (<i>grass/ straw/ leaves/ reeds/ bamboo etc. - 1, mud / unburnt brick - 2, canvas / cloth - 3, other katcha - 4, tiles / slate - 5, burnt brick / stone / lime stone - 6, iron / zinc / other metal sheet / asbestos sheet - 7, cement / RBC / RCC - 8, other pucca - 9</i>)	
17.	if hired (i.e., for 3, 4 or 5 in item 10 of block 4)	monthly rent (Rs.) (<i>payable approach</i>)

[8] some general particulars of the households living in houses (i.e., with codes 1, 2, 3, 4, 5 or 9 in item 10 of block 4) in respect of their stay in present area			
srl. no.	item		code / entry
(1)	(2)		(3)
A. for all households			
1.	duration of stay of the household in the present area* <i>(less than 1 year - 01, 1 to 2 years - 02, 2 to 5 years - 03, 5 to 10 years - 04, 10 to 20 years - 05, 20 to 40 years - 06, 40 to 60 years - 07, 60 years or more - 08, not known - 10)</i>		
2.	for 01 in item 1	where the household was residing before coming to the present area? <i>(in slum/squatter settlement of the same town - 1, in other areas of the same town - 2, in slum/squatter settlement of other town - 3, in other areas of other town - 4, village - 5)</i>	
3.		type of structure of the accommodation availed of immediately before coming to the present area <i>(pucca - 1, semi-pucca - 2, katcha - 3, no dwelling - 4)</i>	
4.		reason for movement to the present area <i>(free / low rent - 1, independent accommodation - 2, accommodation in better locality - 3, employment related reasons: proximity to place of work - 4, other employment related reasons - 5; others - 9)</i>	
5.	number of members who moved into the household during the last 365 days		
6.	number of members who moved out of the household during the last 365 days		
B. for households living in slums/squatter settlements (for urban only) (dwellings of area type code 1, 2 or 3 in item 11, block 4)			
7.	does the head of the household possess any of the documents pertaining to the residence status in the present slum/squatter settlement? <i>(possesses: ration card - 1, voter ID card - 2, passport - 3, any combination of codes 1 to 3 - 4, other - 9; none - 5)</i>		
8.	whether the household received any benefit as a dweller of present slum/squatter settlement? <i>(received allotment of land / tenement - 1, received other benefits - 9; received no benefit - 2)</i>		
9.	whether the household tried to move out of the present slum/squatter settlement? <i>(yes - 1, no - 2)</i>		
10.	if 1 in item 9, main reason <i>(better accommodation - 1, proximity to place of work - 2, social / religious factors - 3, others - 9)</i>		
*: The present area is the area in which the household is being enumerated and is identified by the area types as recorded in item 11 of block 4 . Therefore, present area means present village for rural households and for urban households, present area means present notified slum or non-notified slum or squatter settlement or 'other areas' of the town .			

[2] particulars of field operations									
srl. no.	item		Field Investigator (FI)/ Junior Statistical Officer (JSO)			Field Officer (FO)/ Senior Statistical Officer (SSO)			
(1)	(2)		(3)			(4)			
1 (a)	i) name (block letters)								
	ii) code								
	iii) signature								
1 (b)	i) name (block letters)								
	ii) code								
	iii) signature								
2.	date(s) of :		DD	MM	YY	DD	MM	YY	
	(i) survey/ inspection								
	(ii) receipt								
	(iii) scrutiny								
	(iv) despatch								
3.	number of additional sheet(s) attached								
4.	total time taken to canvass the schedule by the team of investigators (FI/JSO) (in minutes) [no decimal point]								
5.	number of investigators (FI/JSO) in the team who canvassed the schedule								
6.	whether remarks have been entered by FI/JSO/ supervisory officer (yes - 1, no - 2)		(i) in block 9/ block 10						
			(ii) elsewhere in the schedule						

[9] remarks by investigator(s) (FI/JSO)

[10] comments by supervisory officer(s)