

THE NATIONAL SAMPLE SURVEY

TWENTYSECOND ROUND (URBAN) : JULY 1967—JUNE 1968

NUMBER 187

PILOT ENQUIRY ON BUILDING CONSTRUCTION—
SOME RESULTS



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Issued By

THE CABINET SECRETARIAT : GOVERNMENT OF INDIA

PRINTED BY THE MANAGER, GOVERNMENT OF INDIA PRESS,
NASIK IN 1970 AND PUBLISHED BY THE MANAGER OF
PUBLICATIONS, CIVIL LINES, DELHI-6.

7.0 M7

D1:7.2.N7
L0
138209

Price : (Inland) Rs. 5.50 (Foreign) 12s. 10d. or \$1 98 Cents.

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*This Report entitled "Pilot Enquiry on Building Construction—Some Results, National Sample Survey twenty-second round (Urban) : July 1967 to June 1968" was prepared by the Indian Statistical Institute, Calcutta. The views contained in the Report are not necessarily those of the Government of India".**

INTRODUCTION

1.1 The Pilot Enquiry on Building Construction which was done by NSS during the 22nd round at the suggestion of NBO, was carried out in 14 towns in all including two in West Bengal. The suggestion for a Pilot Enquiry arose out of the need for implementation of the Fourth Five-Year Plan Schemes of Survey of Investment in and financing of building construction. As an objective of the enquiry it was proposed to throw up information on the location of conspicuous areas of building construction activity in a town through the two sources, municipal sanction list and on-the-spot enquiry. This information was considered to be of advantage in designing a regular enquiry in future. As further objectives it was stated, that the enquiry would examine the two approaches for this type of study, viz. the site approach and the household approach. Thus in the selected areas of a town, listing was done for both houses and households and samples selected from these two lists were the subject of enquiry on the basis of a common schedule detailing various questions on constructions performed. As a comparative study one or two NSS blocks in the selected towns were also taken up for this enquiry.

1.2 In all 10 blocks from each town were selected for listing of all houses, completed or incomplete situated there, along with information on several broad items relating to new construction activity, if any, during the preceding five years. Out of these, 5 blocks were selected from each town where all the households were listed and similar information on new construction activity of the household (irrespective of location of the construction) was collected. Now these sets of blocks for investigation were primarily selected on the basis of information on density of construction obtained from (i) municipal sanction list and (ii) on-the-spot enquiry. The former of these sources was designated as selection code 1 and latter, selection code 2. The NSS blocks constituted the residual component designated by selection code 3.

1.3 Apart from listing and broad information on construction, a schedule on a fairly detailed items of information on construction was canvassed in 8 units out of the total list of houses and households which were obtained from the selected blocks. Thus 4 houses and 4 households from each town were made the units of investigation for the detailed schedule.

1.4 Some of the broad findings of this enquiry are presented in this note. These results are based on 12 towns out of 14. Data from two towns, namely Barauni and Tiruchirapalli showing incompleteness in certain respects arising from non-availability of certain basic information were tabulated separately. In Barauni information was collected only from on-the-spot enquiry while in Tiruchirapalli information for the basic schedule on the listing of blocks from on-the-spot enquiry, schedule C(O), showing density of building construction activity for sample selection was not available. Some results of these two towns, however, have been presented separately in Appendix II. The remaining 12 towns are : 1. Balasore, 2. Calcutta., 3. Chandigarh, 4. Dabhoi, 5. Dwarka, 6. Faridabad, 7. Gwalior, 8. Hospet, 9. Jaipur, 10. Sadabad, 11. Siliguri, 12. Visakhapatnam.

1.5 This Pilot Enquiry started in February 1968 in the fourth sub-round of the NSS 22nd round. Though the field work was expected to be over by the end of the 22nd round, the work extended beyond the expected period in a few towns and all the remaining schedules from the field were received by October 1968. A preliminary note on this survey was, however, submitted to the Government in February, 1969.

Summary of Results

2.1 *Location of concentration of building construction activity.*—The enquiry shows that building construction activity is not evenly spread out over a town. The enquiry has suggested that there are areas with high building construction activity in a town and that these can be located with the help of (i) municipal sanction list and (ii) on-the-spot enquiry. It is found that for the selection code 1 (i.e. blocks chosen from municipal

*The draft report (No. D211) was first submitted by the Indian Statistical Institute, Calcutta, to the Government of India on October, 1969. It was revised subsequently and resubmitted in April 1970.

sanction list), of the total blocks 8% show high density and 14% of medium density. For selection code 2 (blocks chosen from on-the-spot enquiry) it is observed that on the average 7% reported to be of high density and 11% of medium density as seen from table (A) below :

TABLE (A) : PERCENTAGE DISTRIBUTION OF BLOCKS BY DENSITY OF BUILDING CONSTRUCTION FOR SELECTION CODE 1 AND SELECTION CODE 2

	density of building construction			
	high	medium	others	total
(1)	(2)	(3)	(4)	(5)
(i) selection code 1	8.09	14.39	77.52	100.00
(ii) selection code 2	7.37	10.87	81.76	100.00

2.2 *Incidence of new construction.*—From a listing of all houses it has been found that in the sample blocks selected through each of the two selection codes the percentage of new construction is almost the same on the average. The percentage of new construction for selection code 1 is 11.30 and that for selection code 2 is 11.91. But whereas the blocks selected on the basis of information on density of construction had shown the expected incidence of actual construction, the NSS blocks reported a markedly lower incidence of such activity. This can be seen from table (B) below :

TABLE (B) : PERCENTAGE OF NEW CONSTRUCTION, ADDITION AND IMPROVEMENT TO ALL HOUSES BY SELECTION CODE

item/all towns	percentage (0.00)		
	new construction	addition and improvement	total
(1)	(2)	(3)	(4)
1. selection code 1	11.30	6.55	17.85
2. selection code 2	11.91	4.34	16.25
3. NSS sample block	3.19	2.59	5.78

2.3 The municipal sanction list is a necessity for bigger towns and the records of sanction/s are available though not infrequently they are not uniform. The staff are generally cooperative particularly when prior engagements are made with them by the superior officers. In regard to smaller towns where municipal sanction list has been reported to be sometimes irregular and where construction activity is generally a spread-out affair on-the-spot enquiry through the entire township, as has been done in this pilot enquiry, suggests a desirable approach.

2.4 *Purpose of new construction.*—In the pilot enquiry the new buildings in the household sector only have been covered and it has been seen that these are built primarily for residential purposes. Table (4) of the Appendix 1 prepared through house sample unit shows that on the average 92% of the new construction are for residential purposes, 6% for commercial purposes and 1% for non-family dwelling. Table (5) of the Appendix 1 prepared through household sample unit also gives similar results, construction for dwelling purposes being slightly higher and that for commercial purposes slightly lower.

2.5 Again the enquiry shows that for all the centres taken together the total construction activity comprises incomplete construction to the extent of 30 to 35% (table 6 of the Appendix 1).

2.6 *Construction responsibility.*—Construction responsibility is borne mainly by the owners themselves in the matter of new constructions as seen in Table (C) below.

TABLE (C) : PERCENTAGE DISTRIBUTION OF CONSTRUCTION RESPONSIBILITY BY SELECTION CODE

item	percentage of construction responsibility			
	owner	contractor	non-report	total
(1)	(2)	(3)	(4)	(5)
<i>through house unit</i>				
1. selection code 1	90.29	7.51	2.20	100.00
2. selection code 2	95.10	3.79	1.11	100.00
3. NSS blocks (code 3)	69.40	23.28	7.32	100.00
<i>through household unit</i>				
1. selection code 1	88.31	7.46	4.23	100.00
2. selection code 2	90.70	7.36	1.94	100.00
3. NSS blocks (code 3)	95.92	2.04	2.04	100.00

Alike for houses as sample, for household as sample also, a similar predominance of the owner bearing the responsibility of construction has been observed. Table (C) shows that house samples also have a similar pattern for responsibility of construction.

2.7 *Residence of owners.*—These owners of newly constructed buildings mostly resided within the block itself. Having taken all towns together, about 78% and 74% of the owners respectively from selection codes 1 and 2 resided within the block where new construction took place. For the NSS sample block, this percentage is not much different. About 16% of the owners were found to reside outside the block but within the town as seen from Table (D) below.

TABLE (D) : PERCENTAGE DISTRIBUTION OF OWNERS OF NEW BUILDING BY RESIDENCE OF THE OWNER AND BY SELECTION CODE

item	residence of owner (percentage distribution)				
	within block	outside block but within town	outside town	non-report	total
(1)	(2)	(3)	(4)	(5)	(6)
<i>through house unit</i>					
1. selection code 1	77.62	16.07	6.17	0.14	100.00
2. selection code 2	74.36	14.52	11.00	0.12	100.00
3. NSS blocks (code 3)	73.29	16.15	10.56	Nil	100.00
<i>through household unit</i>					
		within block	outside block	not reporting	total
1. selection code 1		88.56	7.21	4.23	100.00
2. selection code 2		86.82	11.24	1.94	100.00
3. NSS blocks (code 3)		83.67	14.29	2.04	100.00

Results through the household unit in Table D also show that percentage of house owners constructing new houses within the block is slightly higher than the situation when the sample unit is a house. The presumption that owner constructor while constructing the house has shifted on to the locality is not a very unnatural one. Moreover, houses under construction where no such shifting of the constructor has taken place have of course been excluded from the household as a sample unit. Thus it is quite likely that a larger number of samples (houses under construction) are likely to come through the house approach particularly in selection methods 1 and 2 than through the household approach.

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2.8 *Informant type.*—In the house approach these owners of the new houses could be contacted by our investigators in 61 and 65 per cent of cases in respect of selection method 1 and selection method 2 respectively as against 53 per cent in the NSS block as can be seen in Table (E) below. The relatives of the houseowners at construction sites and in houses were available in 18, 13, and 16 per cent of cases for selection method 1, selection method 2 and the NSS block respectively. In the household approach, of course, the owners came in larger numbers as informants constituting 74 and 79 per cent from selection method 1 and selection method 2 respectively. The contact with the owners has been greater in selection codes 1 and 2 both in the house and household units than it has been with those of the corresponding units of the NSS blocks (selection code 3).

TABLE (E) : DISTRIBUTION OF INFORMANT TYPE IN HOUSES AT SITES OF CONSTRUCTION AND IN HOUSEHOLD BY SELECTION METHOD

item	informant type (through house unit)						informant type (through household unit)					
	owner	contractor or hired-man	relative of owner	others	non-report	total	owner	contractor or hired-man	relative of owner	others	non-report	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1. selection code 1	60.94	2.81	17.55	12.39	6.31	100.00	73.80	1.09	15.81	5.43	1.86	100.00
2. selection code 2	64.89	3.19	12.90	13.29	5.73	100.00	79.15	1.40	14.99	3.52	2.11	100.00
3. NSS blocks code 3	52.85	4.53	16.43	25.24	0.95	100.00	47.26	0.68	43.15	7.53	6.85	100.00

2.9. *Availability of detailed information.*—It has been seen that as between houses and households as sample units of investigation, the level of availability of information on detailed items is about the same. Information on stage of construction, purpose, month and year of construction, construction responsibility is easily available. The exact answer with respect to date of construction and completion is not so easily obtained. Owner's residence is generally available. Again, items like value of land, area of premises, number of rooms, drinking water and electricity facilities were reported generally. Expenditure for land development was generally unreported probably because land development was not required generally for building construction or these incidental expenditures were included in the cost of building construction (Appendix 1, table no. 15)

TABLE (F) : PERCENTAGE OF REPORTING SAMPLES ON QUANTITY AND COST OF BUILDING CONSTRUCTION MATERIALS TO TOTAL HOUSES/HOUSEHOLDS WITH CONSTRUCTION ACTIVITY (ALL TOWNS COMBINED)

item	quantity unit	construction	
		quantity	cost
(1)	(2)	(3)	(4)
<i>through house sample unit</i>			
1. bricks	1000	72.00	80.00
2. sand	cu.m.	48.00	84.00
3. cement	ton (0.00)	72.00	80.00
4. timber	cu.m.	48.00	76.00
5. iron and steel	m. tonne	40.00	80.00
6. labour : skilled	man-days	56.00	80.00
7. labour : unskilled	man-days	56.00	76.00
<i>through household sample unit</i>			
1. bricks	1000	77.27	81.82
2. sand	cu.m.	68.18	81.82
3. cement	ton (0.00)	72.73	81.84
4. timber	cu.m.	59.09	68.18
5. iron and steel	m. tonne	54.55	68.08
6. labour : skilled	man-days	50.00	81.82
7. labour : unskilled	man-days	40.91	63.64

2.10. Again Table (F) above shows percentage of reporting samples on quantity and cost of building construction materials like bricks, sand, cement, timber, iron and steel and labour charges. Costs on these items have been reported by 80% of cases (except for timber and unskilled labour) both in the house and household sample units. The corresponding quantity figures have been found to be comparatively difficult for the informant to supply. It may be observed, in Table nos. 20 and 21, Appendix 1 that similar difficulty has been the experience of field with regard to separately showing labour charges from the total charges on account of sanitary, plumbing and electrical fittings. Separate charges on account of skilled and unskilled labour have been reported to be sometimes a baffling experience. Apart from this, non-users of specific building materials not having been excluded from the base for percentage of reporting households, percentage reporting other specific items of building materials has to a great extent fallen. The different types of building constructions in the enlarged concept of Pucca Houses for this enquiry have a possibility of lowering the reporting percentages for each cell (table nos. 20 and 21, Appendix 1.)

2.11 The average cost of construction per new house including complete and incomplete houses for all the selected towns together (arrived at from the sample units) comes to about Rs. 18 thousand. This has been reported from both the house and household as investigation units. The costs of additions and improvements per house reporting such expenditure are about Rs. 5 thousand and 4 thousand for house unit and household units respectively (Table G below).

TABLE (G) : (A) AVERAGE COST OF CONSTRUCTION PER NEW HOUSE AND OF ADDITIONS AND IMPROVEMENTS, AND (B) PERCENTAGE DISTRIBUTION OF SOURCES OF FINANCE THROUGH HOUSE UNIT AND HOUSEHOLD UNIT

item	through house unit	through household unit
(1)	(2)	(3)
(a)		
1. average cost of construction per new house (Rs.)	18365	18370
2. average cost of additions and improvements per house (Rs.)	4882	4062
(b)		
percentage distribution of sources of finance (0.00)		
(i) savings	65.89	63.79
(ii) inherited wealth	8.88	0.88
(iii) Provident fund etc.	1.04	2.87
(iv) borrowing	24.19	30.75
(v) others . . . . .	..	1.71
(vi) total	100.00	100.00

2.12 The main source of finance for construction activity has been reported to be savings. About 89% of houses and 83% of households reported savings as the principal source. Savings along with inherited wealth and Provident Fund account for nearly 76 and 68% of the total cost of new constructions in the house and household units respectively.

2.13 The rest is financed by borrowing. Between 36 and 40% of the sample units resort to borrowing. Borrowing from Government sources in the form of house building loan has been reported from big towns like Calcutta and Chandigarh. Nearly 17 to 18 per cent of the sample units engaged in new construction had resorted to loan from individual persons. (Table no. 24 of the Appendix 1).

2.14 *Man hours* : The time required by the field staff for completing listing of wards (Sch. 3-1) along with the number of municipal sanctions for building construction in each of them from the records of municipality varied depending on the size of municipality, growth of the town and the manner of maintaining such records by these municipalities. In the Calcutta city where the sanctions are kept in an orderly way, the time required was smaller than that of Siliguri. The average time in man-hours for this purpose including all classes of towns was nearly 56 man-hours per municipality.

2.15 The identification of blocks and their listing from only two wards with high construction activity selected from municipal sanction list took 38 man-hours on the average. It has been observed that identification and listing of blocks (Sch. C-O) from the newly reorganized wards or divisions in a municipality required a considerable amount of time margin. This happened in Calcutta and also at Siliguri. The listing of blocks through spot enquiry has been reported to be less time consuming with only 29.6 man-hours on the average. It may be recalled in this connection that in bigger towns on the spot enquiry was confined to areas of selected investigator units approximately with a fifty thousand population.

2.16 For listing the house sample units within a block on the average of all the towns (for Schedule C2) the time required was between 22 and 23 man-hours for selection methods 1 and 2. Within the period all the houses both new and old were listed along with some particulars of new houses in one block. But in the NSS blocks corresponding time is less by about 1/3 the average period. May be finding out the appropriate informant in the house sample unit has taken some time including revisits, but a presumption of greater work involvement in the new houses in those areas selected through the approach of density of construction is also not an unnatural one. The listing of households (Sch. C-3) in those with high density of building construction activity also takes much longer time than that in the NSS blocks as seen from Appendix 1, table No. 25.

2.17 The average time devoted to each detailed schedule on costs of building construction materials and sources of finance (Schedule C-4) was 4.4 man-hours. It may be observed from table no. 25, Appendix 1, that average time for filling in this schedule was very high in some towns. In this connection it may be recalled that this detailed schedule on costs and sources of finance was canvassed in both the house and household sample units in each town. Contact with the appropriate informant particularly in the house sample units was possible only through revisits and this has increased average man-hours and work load for this type of enquiry. The National Building Organisation also feels in its observations on field experiences that time requirements at the listing stage as well as at various stages of data collection "will generally be more for this type of survey and as more experience is gained the time taken may be less".

2.18 The results of this Pilot Enquiry suggest that the samples should have adequate representation from among with high incidence of building construction activity. The preliminary work for demarcating conspicuous areas of building construction activity including the fringe areas of development has to precede the actual enquiry.

2.19 Secondly, barring Calcutta, 3 other big cities were not covered in the Pilot Enquiry. Besides each city and bigger town has its own problem. Experience of smaller towns regarding location of conspicuous areas of construction activity, the nature of construction responsibility and the extent of availability of essential information from the household will not be applicable in the case of bigger towns and cities. For example, in bigger towns municipal sanction list is a better source for locating the areas with density of construction whereas in smaller towns because of bad municipal records on-the-spot demarcation is more suitable. Construction responsibility in small towns was mostly with the owner whereas in big towns it is with the contractor which again is likely to pose different problems for obtaining the essential information.

Some experiences of the NSS field and technical staff in data collection in this pilot enquiry

3.1 For purposes of locating concentration of building construction activity through the municipality approach it was found that though sanctions were necessary, the manner of maintaining records was not uniform. Sometimes these sanctions were not kept wardwise. These were found to be also either scattered in different books and files or they were incomplete in regard to location or entry in the records. One or more of such deficiencies in the municipal records and sanctions were experienced by the field staff with respect to the municipalities of Gwalior, Hospet, Tiruchirapalli and Visakhapatnam. Naturally more time had to be devoted to this stage of work than anticipated.

3.2 In Gwalior town the municipal records showed individual cases of sanctions which were not maintained in any single register. A file was maintained for each sanction and it went to the ward office for physical verification in regard to actual construction and then returned to the municipality office after completion of the construction. These files were not kept even wardwise.

3.3 In Tiruchirapalli the records of licences given were kept for 8 municipal divisions and the identification of sanctions in the corresponding NSS blocks was reported to be a heavy work.

3.4 In Vishakhapatnam town the records maintained by the municipality were not found systematic. Identification of municipal blocks became quite difficult from those records.

3.5 In Chandigarh datewise information was available in the Estate Office but not sectorwise. Sanction for Government construction was not available.

3-6 There were repetitions of some buildings in the municipal records in Faridabad due to periodical additions and improvements in the same building.

3-7 In the Hospet town there was an "Assessment Register" for complete buildings and a "Personal Register" for all sanctions for new building constructions, but details were not there, nor were the records up-to-date. For Govt. constructions no sanction was necessary.

3-8 In Sadabad which is a class V town there was a Town Area Committee. Though sanctions were necessary the particulars required could not be satisfactorily obtained. As a result the municipal record could not be satisfactorily used to find out the density of construction. It has been stated in the case of this town that "this approach is not at all alluring. Only spot approach is adequate".

3-9 The split of an old ward into a number of wards as it has come about through the reorganisation of wards in the municipality of Siliguri and in the Corporation of Calcutta posed problems for identification and demarcation of new wards from the old wards and also of the NSS blocks from these new wards for purposes of the enquiry. Again in the Calcutta Corporation the list of sanctions are kept districtwise and the NSS staff had to prepare them wardwise by consulting the Street Directory kept wardwise in the Municipal Office of the Calcutta Corporation.

3-10 In the Siliguri municipality the sanction list does not maintain the appropriate location identification. There is a building construction Plan File for each separate construction. These files had to be matched with the sanction list to determine the location of new construction in the new wards of Siliguri town. The five-year reference period it was reported had increased the workload considerably in the municipalities.

3-11 In the Jaipur town the sanctions registers were maintained for each Chawkli and the high construction areas were selected from these chawklis and the blocks were identified from within them.

3-12 Listing blocks in C(O) schedules for purposes of finding out density of building construction through the spot enquiry and Municipality approaches was reported to be difficult in the matter of maintaining uniformity for assigning density codes to NSS blocks in a town on 'notional' basis.

3-14 It has further been reported that the reference period of 5 years was too long for physical observations of new buildings to be made through the on-the-spot enquiry, more so in the case of additions and improvements.

3-15 In regard to house and household listing it was difficult sometimes to get information on area (floor and covered) and approximate value in the absence of the owner and it increased work load for the revisits it entailed. Exact dates for commencement and completion were difficult items. Month and year were easily supplied by the informant. In the household approach the tenants were not able to furnish necessary information.

3-16 In the detailed schedule on construction particulars contact with the owner or any other knowledgeable person involved considerable time including revisits.

3-17 As the informants had no knowledge of this type of survey it was necessary for the field staff to explain the objectives of the survey. Informants' attitude was sometimes indifferent, evasive for fear of "property evaluation" and "house tax" and sometimes even hostile particularly in the case of unauthorised construction for fear of penal consequences.

3-18 The quantity of building materials used had been found to be difficult for the informant to supply in standard units. Local units were convenient for him.

3-19 Data on separate counts of skilled and unskilled labour and their corresponding man-days could not be furnished in large number of cases. Labour charges for sanitary fittings and water supply were generally found to be included in these items.

3-20 Difficulties in regard to collection of data on each item of building materials were reported from different centres. It has been reported that the informants who were otherwise cooperative found it extremely difficult to report quantity and cost for a few items, though they were willing to furnish figures combining some of these items particularly when construction was done through contractors either wholly or partly. The long reference period of five years is said to have made reporting difficult. It has been reported by the interviewers from the field that except for some broad items like brick, cement, iron and steel other detailed items should be merged in broad groups so as to obtain reliable data on cost and total expenditure.

APPENDIX I

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centre	spot enquiry				municipal record			
	number of blocks by density code of building construction				number of blocks density code of building construction			
	high	medium	rest	total	high	medium	rest	total
1	2	3	4	5	6	7	8	9
1. Balasore	5.26	5.26	89.48	100.00	40.00	40.00	20.00	100.00
2. Calcutta	0.78	11.63	87.59	100.00	7.27	11.21	81.52	100.00
3. Chandigarh	6.25	26.25	67.50	100.00	10.53	84.21	5.26	100.00
4. Dabhoi . . . . .	..	..	100.00	100.00	..	..	100.00	100.00
5. Dwarka	19.05	4.76	76.19	100.00	37.50	12.50	50.00	100.00
6. Faridabad	15.39	26.92	57.69	100.00	20.83	33.34	45.83	100.00
7. Gwalior	3.66	8.53	87.81	100.00	12.20	4.88	82.92	100.00
8. Hospet	3.51	8.77	87.72	100.00	25.00	25.00	50.00	100.00
9. Jaipur . . . . .	..	10.26	89.74	100.00	1.11	10.00	88.89	100.00
10. Sadabad	25.00	25.00	50.00	100.00	25.00	50.00	25.00	100.00
11. Siliguri	6.80	2.91	90.29	100.00	..	9.09	90.91	100.00
12. Visakhapatnam	15.25	9.04	75.71	100.00	..	..	..	..
all centres	7.37	10.87	81.76	100.00	8.09	14.39	77.52	100.00

TABLE (2) : PERCENTAGE OF HOUSES REPORTING NEW CONSTRUCTIONS AND ADDITIONS AND IMPROVEMENTS BY SELECTION CODE TO TOTAL NUMBER OF HOUSES IN THE SELECTED BLOCKS.

towns	selection code	total no. houses	no. of buildings newly constructed	no. of buildings under additions & improvements	total of cols. (4) and (5)
(1)	(2)	(3)	(4)	(5)	(6)
1. Balasore	1	575	8.18	3.13	11.31
	2	533	10.51	5.63	16.14
	3	289	2.77	4.15	6.92
2. Calcutta	1	291	13.40	8.93	22.33
	2	464	21.34	11.85	33.19
	3	89	..	..	..
3. Chandigarh	1	252	50.40	0.79	51.19
	2	738	35.77	0.54	36.31
	3	87	2.40	0.34	2.74
4. Dabhoi	1	639	2.03	4.38	6.41
	2	567	1.94	2.47	4.41
	3	471	11.68	0.85	12.53
5. Dwarka	1	536	14.55	3.36	17.91
	2	549	13.11	2.91	16.02
	3	157	4.46	8.28	12.74
6. Faridabad	1	528	0.57	40.34	40.91
	2	615	9.43	19.51	28.94
	3	169	..	24.85	24.85
7. Gwalior	1	639	14.40	2.66	17.06
	2	662	6.80	4.38	11.18
	3	378	2.90	15.08	17.98
8. Hospet	1	1264	6.17	0.32	6.49
	2	1014	6.01	0.39	6.40
	3	244	0.40	1.23	1.63
9. Jaipur	1	950	11.37	14.63	26.00
	2	321	12.77	11.22	23.99
	3	477	20.33	5.87	26.20
10. Sadabad	1	626	7.67	3.35	11.02
	2	714	7.00	2.24	9.24
	3	312	8.33	3.21	11.54
11. Siliguri	1	373	19.03	2.41	21.44
	2	422	12.56	2.37	14.93
	3	172	3.48	0.58	4.06
12. Visakhapatnam	1	676	10.06	7.25	17.31
	2	1390	6.33	1.73	8.06
	3	157	..	9.55	9.55
all towns	1	7349	11.30	6.55	17.85
	2	7989	11.91	4.34	16.25
	3	3002	3.19	2.59	5.78

TABLE (3) : INFORMATION ON MUNICIPALITIES ABOUT (i) NATURE OF INFORMATION (ii) MANNER OF MAINTAINING RECORDS AND (iii) CO-OPERATION FROM THE MUNICIPAL STAFF

centre	class of town	*information about municipalities in codes		
		nature of information A	manner of maintaining records B	co-operation C
(1)	(2)	(3)	(4)	(5)
1. Balasore . . . . .	..	3	1	2
2. Calcutta	1	1	1	1
3. Chandigarh	1	2	1	1
4. Delhi	3	2	1	1
5. Dwarka	1	2	1	1
6. Faridabad	2	1	1	1
7. Hospet	2	3	2	2
8. Jaipur	1	3	1	2
9. Sadabad	5	2	2	1
10. Siliguri	3	2	1	1
11. Visakhapatnam	1	3	2	2

*information about municipalities

A nature of information	code
(i) in order and easily available	1
(ii) available but not maintained in an orderly way	2
(iii) records not generally available and are very bad	3
B manner of maintaining records	
(i) good	1
(ii) partial	2
C Co-operation	
(i) easily available and staff very cooperative and quick	1
(ii) staff indifferent	2

TABLE(4) : PERCENTAGE DISTRIBUTION OF HOUSES BY CONSTRUCTION TYPE AND BY PURPOSE FOR ALL SELECTION CODES COMBINED [THROUGH HOUSE SAMPLE UNIT]

towns	*new buildings by purpose code							*addition and improvement by purpose code						
	11	12	21	22	23	24	total	11	12	21	22	23	24	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
1. Balasore . . .	91.89	..	0.90	7.21	..	..	100.00	91.66	1.67	1.67	5.00	..	..	100.00
2. Cuttack . . .	100.00	..	..	..	..	..	100.00	93.83	..	..	3.70	..	2.47	100.00
3. Cuttack . . .	93.93	..	..	6.07	..	..	100.00	100.00	..	..	..	..	..	100.00
4. Dabhoi . . .	91.14	..	..	6.33	..	2.53	100.00	..	..	..	..	..	..	..
5. Dwarka . . .	92.99	2.55	0.64	3.82	..	..	100.00	97.88	..	..	2.12	..	..	100.00
6. Faridabad . . .	88.52	..	..	11.48	..	..	100.00	90.13	0.80	..	9.07	..	..	100.00
7. Gwalior . . .	96.62	1.35	2.03	..	..	..	100.00	95.15	0.97	1.94	1.94	..	..	100.00
8. Hospet . . .	95.72	3.57	..	..	..	0.71	100.00	100.00	..	..	..	..	..	100.00
9. Jaipur . . .	100.00	..	..	..	..	..	100.00	100.00	..	..	..	..	..	100.00
10. Sadabad . . .	54.03	4.03	..	38.71	..	3.23	100.00	85.10	..	2.13	12.77	..	..	100.00
11. Siliguri . . .	98.46	..	..	1.54	..	..	100.00	100.00	..	..	..	..	..	100.00
12. Visakhapatnam . . .	89.75	1.92	2.56	4.49	..	1.28	100.00	75.01	14.77	2.27	7.95	..	..	100.00
all towns . . .	92.38	1.00	0.47	5.68	..	0.47	100.00	91.38	1.65	0.55	5.60	0.18	0.64	100.00

National Sample Survey

*code 11 residential—family dwelling
 12 residential—non family dwelling
 21 non-residential—industrial use
 22 non-residential—commercial purpose
 23 non-residential—institutions
 24 non-residential—any other purpose

TABLE (5) : PERCENTAGE DISTRIBUTION OF HOUSES BY CONSTRUCTION TYPE AND BY PURPOSE FOR ALL SELECTION CODES COMBINED
[THROUGH HOUSEHOLD SAMPLE UNIT]

town	*new buildings by purpose code								*addition and improvement to buildings by purposed code							
	11	12	21	22	23	24	non-report	total	11	12	21	22	23	24	non-report	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
1. Balasore	96.23	..	..	3.77	..	..	..	100.00	96.88	..	..	3.12	..	..	..	100.00
2. Calcutta	100.00	..	..	..	..	..	..	100.00	95.65	..	..	..	..	4.35	..	100.00
3. Chandigarh	98.92	..	..	1.28	..	..	..	100.00	100.00	..	..	..	..	..	..	100.00
4. Dabhoi	90.00	..	..	10.00	..	..	..	100.00	84.21	..	..	..	10.53	5.26	..	100.00
5. Dwarka	100.00	..	..	..	..	..	..	100.00	100.00	..	..	..	..	..	..	100.00
6. Faridabad	83.33	..	..	..	..	..	16.67	100.00	93.84	1.42	..	4.74	..	..	..	100.00
7. Gwalior	96.43	1.79	0.89	0.89	..	..	..	100.00	92.42	..	..	4.55	..	..	3.03	100.00
8. Hospet	92.16	..	..	..	..	1.96	5.88	100.00	100.00	..	..	..	..	..	..	100.00
9. Jaipur	100.00	..	..	..	..	..	..	100.00	100.00	..	..	..	..	..	..	100.00
10. Sadabad	67.80	3.39	3.39	20.34	..	5.08	..	100.00	100.00	..	..	..	..	..	..	100.00
11. Siliguri	98.75	..	..	..	..	..	1.25	100.00	100.00	..	..	..	..	..	..	100.00
12. Visakhapatnam	93.75	3.13	..	1.56	..	..	1.56	100.00	78.13	12.50	..	3.12	..	..	6.25	100.00
all	94.78	0.85	0.42	2.54	..	0.56	0.85	100.00	94.05	1.39	..	2.97	0.40	0.40	0.79	100.00

*11—residential—family dwelling
 12—residential—non family dwelling
 21—non-residential—industrial use
 22—non-residential—commercial purpose
 23—non-residential—institutions
 24—non-residential—any other purpose

TABLE (6) : NUMBER OF COMPLETE AND INCOMPLETE NEW HOUSES AND COMPLETE AND INCOMPLETE ADDITIONS AND IMPROVEMENTS FOR EACH SELECTION CODE WITH PERCENTAGE DISTRIBUTION OF THE TOTAL

town	selection code	new building			addition & improvements		
		complete	incomplete	total	complete	incomplete	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1. Balasore	1	14	33	47	5	13	18
	2	22	34	56	9	21	30
	3	3	5	8	3	9	12
2. Calcutta	1	25	14	39	15	11	26
	2	58	41	99	34	21	55
	3	..	..	..	..	..	..
3. Chandigarh	1	85	42	127	1	1	2
	2	190	74	264	3	1	4
	3	20	1	21	3	..	3
4. Dabhoi	1	10	3	13	24	4	28
	2	10	1	11	14	..	14
	3	6	49	55	4	..	4
5. Dwarka	1	66	12	78	18	..	18
	2	61	11	72	16	..	16
	3	6	1	7	13	..	13
6. Faridabad	1	1	2	3	194	19	213
	2	56	2	58	106	14	120
	3	..	..	..	42	..	42
7. Gwalior	1	42	50	92	11	6	17
	2	29	16	45	25	4	29
	3	10	1	11	40	17	57
8. Hospet	1	60	18	78	4	..	4
	2	48	13	61	4	..	4
	3	1	..	1	3	..	3
9. Jaipur	1	74	34	108	111	28	139
	2	31	10	41	34	2	36
	3	86	11	97	24	4	28
10. Sadabad	1	37	11	48	19	2	21
	2	32	18	50	15	1	16
	3	19	7	26	10	..	10
11. Siliguri	1	28	43	71	4	5	9
	2	26	27	53	6	4	10
	3	4	2	6	1	..	1
12. Visakhapatnam	1	57	11	68	32	17	49
	2	65	23	88	20	4	24
	3	..	..	..	14	1	15
13. All towns	1	499	273	772	438	106	544
	2	628	270	898	286	72	358
	3	155	77	232	157	31	188
14. All towns (percentage) distribution.	1	64.64	35.36	100.00	80.51	19.49	100.00
	2	69.93	30.07	100.00	79.89	20.11	100.00
	3	66.81	33.19	100.00	83.51	16.49	100.00

TABLE (7) : NUMBER OF NEW HOUSES AND NUMBER OF HOUSES REPORTING ADDITIONS AND IMPROVEMENTS BY CONSTRUCTION RESPONSIBILITY TYPE FOR EACH SELECTION CODE WITH PERCENTAGE DISTRIBUTION OF THE TOTAL

town	selection code	new buildings by construction responsibility type				addition and improvement by construction responsibility type			
		owner	contractor	non-report	total	owner	contractor	non-report	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1. Balasore	1	46	1	..	47	18	..	..	18
	2	56	..	..	56	30	..	..	30
	3	8	..	..	8	12	..	..	12
2. Calcutta	1	28	11	..	39	23	3	..	26
	2	97	2	..	99	54	1	..	55
	3	..	..	..	..	..	..	..	..
3. Chandigarh	1	127	..	..	127	2	..	..	2
	2	264	..	..	264	4	..	..	4
	3	20	1	..	21	3	..	..	3
4. Dabhoi	1	12	..	1	13	27	..	1	28
	2	10	..	1	11	14	..	..	14
	3	12	42	1	55	3	..	1	4
5. Dwarka	1	76	2	..	78	17	..	1	18
	2	71	1	..	72	16	..	..	16
	3	7	..	..	7	13	..	..	13
6. Faridabad	1	3	..	..	3	213	..	..	213
	2	58	..	..	58	120	..	..	120
	3	..	..	..	..	42	..	..	42
7. Gwalior	1	76	..	16	92	14	..	3	17
	2	43	..	2	45	26	..	3	29
	3	11	..	..	11	56	1	..	57
8. Hospet	1	73	5	..	78	4	..	..	4
	2	56	5	..	61	4	..	..	4
	3	1	..	..	1	3	..	..	3
9. Jaipur	1	99	9	..	168	100	37	2	139
	2	41	..	..	41	35	1	..	36
	3	70	11	16	97	25	2	1	28
10. Sadabad	1	48	..	..	48	21	..	..	21
	2	50	..	..	50	16	..	..	16
	3	26	..	..	26	10	..	..	10
11. Siliguri	1	69	2	..	71	9	..	..	9
	2	47	..	6	53	10	..	..	10
	3	6	..	..	6	1	..	..	1
12. Visakhapatnam	1	40	28	..	68	39	8	2	49
	2	61	26	1	88	18	6	..	24
	3	..	..	..	..	13	2	..	15
13. All towns	1	697	58	17	772	487	49	8	544
	2	854	34	10	898	347	8	3	358
	3	161	54	17	232	181	5	2	188
14. All towns (percentage) distribution	1	90.29	7.51	2.20	100.00	89.52	9.01	1.47	100.00
	2	95.10	3.79	1.11	100.00	96.93	2.23	0.84	100.00
	3	69.40	23.28	7.32	100.00	96.28	2.66	1.06	100.00

TABLE (8) ; PERCENTAGE DISTRIBUTION OF HOUSEHOLDS BY LOCATION OF BUILDING CONSTRUCTION AND BY CONSTRUCTION RESPONSIBILITY FOR SELECTION CODES SEPARATELY FOR NEW BUILDINGS AND FOR ADDITIONS AND IMPROVEMENTS

town	selection code	new building								addition and improvement								
		within block			outside block					total	within block			outside block				
		owner	contractor	owner+contractor	owner	contractor	owner+contractor	non report	owner		contractor	owner+contractor	owner	contractor	owner+contractor	non report		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	
1. Balasore	1	96.00	4.00	100.00	..	..	..	..	..	100.00	100.00	..	100.00	..	..	..	..	100.00
	2	96.55	..	96.65	3.45	..	3.45	..	..	100.00	100.00	..	100.00	..	..	..	..	100.00
	3	100.00	..	100.00	..	..	..	..	..	100.00	100.00	..	100.00	..	..	..	..	100.00
2. Calcutta	1	84.85	12.12	96.97	3.03	..	3.03	..	..	100.00	80.00	20.00	100.00	..	..	..	..	100.00
	2	97.05	..	97.06	2.94	..	2.94	..	..	100.00	92.31	7.69	100.00	..	..	..	..	100.00
	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3. Chandigarh	1	73.91	..	73.91	26.69	..	26.69	..	..	100.00	100.00	..	100.00	..	..	..	..	100.00
	2	64.58	..	64.58	4.17	31.25	35.42	..	..	100.00	..	..	..	100.00	..	100.00	..	100.00
	3	57.14	..	57.14	42.86	..	42.86	..	..	100.00	..	..	..	..	..	..	..	..
4. Dabhoi	1	60.00	..	60.00	20.00	20.00	40.00	..	..	100.00	83.33	..	83.33	16.67	..	16.67	..	100.00
	2	50.00	..	50.00	50.00	..	50.00	..	..	100.00	83.33	..	83.33	16.67	..	16.67	..	100.00
	3	100.00	..	100.00	..	..	..	..	..	100.00	100.00	..	100.00	..	..	..	..	100.00
5. Dwarka	1	95.65	4.35	100.00	..	..	..	..	..	100.00	100.00	..	100.00	..	..	..	..	..
	2	89.48	5.26	94.74	5.26	..	5.26	..	..	100.00	100.00	..	100.00	..	..	..	..	100.00
	3	100.00	..	100.00	..	..	..	..	..	100.00	80.00	20.00	100.00	..	..	..	..	100.00
6. Faridabad	1	100.00	..	100.00	..	..	..	..	..	100.00	100.00	..	100.00	..	..	..	..	100.00
	2	100.00	..	100.00	..	..	..	..	..	100.00	98.77	..	98.77	1.23	..	1.23	..	100.00
	3	..	..	..	..	..	..	..	..	..	100.00	..	100.00	..	..	..	..	100.00
7. Gwalior	1	78.48	..	78.48	..	..	..	21.52	..	100.00	100.00	..	100.00	..	..	..	..	100.00
	2	75.00	..	75.00	..	..	..	25.00	..	100.00	72.73	..	72.73	..	..	..	27.27	100.00
	3	88.24	..	88.24	5.88	..	5.88	5.88	..	100.00	96.08	1.96	98.04	..	..	..	1.96	100.00

8. Hospet	1	90.00	6.67	96.67	3.33	..	3.33	..	100.00	100.00	..	100.00	..	..	..	..	100.00
	2	90.00	10.00	100.00	-	..	..	..	100.00	..	..	..	..	..	..	..	..
	3	100.00	..	100.00	..	..	..	..	100.00	100.00	..	100.00	..	..	..	..	100.00
9. Jaipur	1	88.33	1.67	90.00	5.00	5.00	10.00	..	100.00	80.40	5.88	86.28	9.80	..	9.80	3.92	100.00
	2	92.00	..	92.00	8.00	..	8.00	..	100.00	89.47	..	89.47	10.53	..	10.53	..	100.00
	3	..	100.00	100.00	..	..	..	..	100.00	100.00	..	100.00	..	..	..	..	100.00
10. Sadabad	1	79.17	..	79.17	20.83	..	20.83	..	100.00	100.00	..	100.00	..	..	..	..	100.00
	2	84.00	..	84.00	16.00	..	16.00	..	100.00	100.00	..	100.00	..	..	..	..	100.00
	3	80.00	..	80.00	20.00	..	20.00	..	100.00	100.00	..	100.00	..	..	..	..	100.00
11. Siliguri	1	94.59	5.41	100.00	..	..	..	..	100.00	..	..	..	..	..	..	..	..
	2	94.44	2.78	97.22	..	..	..	2.78	100.00	100.00	..	100.00	..	..	..	..	100.00
	3	85.71	..	85.71	14.29	..	14.29	..	100.00	..	..	..	..	..	..	..	..
12. Visakhapatnam	1	68.75	18.75	87.50	7.81	4.69	12.50	..	100.00	66.67	22.22	88.89	11.11	..	11.11	..	100.00
	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	3	..	..	..	..	..	..	..	..	80.00	20.00	100.00	..	..	..	..	100.00
Alltowns	1	82.84	5.72	88.56	5.47	1.74	7.21	4.23	100.00	90.34	4.62	94.96	4.20	..	4.20	0.84	100.00
	2	85.27	1.55	86.82	5.43	5.81	11.24	1.94	100.00	95.27	0.59	95.86	2.37	..	2.37	1.77	100.00
	3	81.63	2.04	83.67	14.29	..	14.29	2.04	100.00	94.85	3.09	97.94	1.03	..	1.03	1.03	100.00
Alltowns selection codes combined (1+2+3)		83.65	3.95	87.60	6.06	3.10	9.16	3.24	100.00	92.85	2.98	95.83	2.98	..	2.98	1.19	100.00

TABLE (9) : PERCENTAGE DISTRIBUTION OF HOUSES BY CONSTRUCTION TYPE AND BY RESIDENCE OF OWNER FOR DIFFERENT TOWNS (SELECTION CODES COMBINED)

towns	new building by residence type					addition and improvement by residence type				
	with-in block	out-side block but within town	out-side town	non-report	total	with-in block	out-side block but within town	out-side town	non-report	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1. Bangalore	78.18	14.55	7.27	..	100.00	83.33	10.00	6.67	..	100.00
2. Calcutta	85.60	13.60	0.80	..	100.00	92.20	3.90	3.90	..	100.00
3. Chandigarh	42.09	27.25	30.42	0.24	100.00	33.34	33.33	33.33	..	100.00
4. Dabhoi	76.47	11.77	11.76	..	100.00	79.55	13.63	6.82	..	100.00
5. Dwarka	96.10	3.90	..	..	100.00	95.66	2.17	2.17	..	100.00
6. Faridabad	100.00	..	..	..	100.00	100.00	..	..	..	100.00
7. Gwalior	100.00	..	..	..	100.00	96.88	3.12	..	..	100.00
8. Hospet	81.54	18.46	..	..	100.00	81.82	18.18	..	..	100.00
9. Jaipur	82.86	12.86	4.28	..	100.00	93.13	4.38	2.49	..	100.00
10. Sadabad	64.52	32.26	3.22	..	100.00	85.11	14.89	..	..	100.00
11. Siliguri	95.08	4.10	0.82	..	100.00	100.00	..	..	..	100.00
12. Visakhapatnam	86.14	10.89	1.98	0.99	100.00	92.86	7.14	..	..	100.00
13. all towns	75.58	15.30	9.00	0.12	100.00	93.99	4.23	1.78	..	100.00

TABLE (10) : PERCENTAGE DISTRIBUTION OF HOUSES BY CONSTRUCTION TYPE AND BY RESIDENCE OF OWNER BY SELECTION CODE (FOR ALL TOWNS COMBINED)

selection code	new building by residence type					addition and improvement by residence type				
	with-in block	out-side block but within town	out-side town	non-report	total	with-in block	out-side block but within town	out-side town	non-report	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1	77.62	16.07	6.17	0.14	100.00	95.27	3.70	1.03	..	100.00
2	74.36	14.52	11.00	0.12	100.00	93.37	4.61	2.02	..	100.00
3	73.29	16.15	10.56	..	100.00	91.70	4.97	3.33	..	100.00

TABLE(11): PERCENTAGE DISTRIBUTION OF HOUSES BY INFORMANT TYPE AND SELECTION CODE

towns	selection code	*informant type code :							non-report	total
		1	2	3	4	5	6			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
1. Balasore	1	53.85	..	7.69	33.85	4.61	..	..	100.00
	2	70.93	..	3.49	20.93	4.65	..	..	100.00
	3	60.00	..	..	30.00	10.00	..	..	100.00
2. Calcutta	1	78.46	..	7.69	10.77	3.08	..	..	100.00
	2	74.03	..	5.84	16.88	..	3.25	..	100.00	
	3	..	..	..	..	..	..	..	..
3. Chandigarh	1	48.84	2.33	..	17.05	11.63	19.38	0.77	100.00	
	2	49.63	1.12	..	9.33	0.75	38.80	0.37	100.00	
	3	29.17	..	..	29.17	20.83	20.83	..	100.00
4. Dabhoi	1	73.17	..	..	9.75	12.20	4.88	..	100.00
	2	72.00	..	..	..	20.00	8.00	..	100.00
	3	22.03	..	..	3.39	3.39	71.19	..	100.00
5. Dwarka	1	84.38	..	14.58	..	1.04	..	..	100.00
	2	80.68	..	18.18	..	1.14	..	..	100.00
	3	85.00	..	15.00	..	..	..	..	100.00
6. Faridabad	1	100.00	..	..	..	..	..	..	100.00
	2	100.00	..	..	..	..	..	..	100.00
	3	100.00	..	..	..	..	..	..	100.00
7. Gwalior	1	26.60	..	0.92	33.03	28.44	10.09	0.92	100.00	
	2	28.38	..	8.11	45.94	10.81	6.76	..	100.00	
	3	20.59	..	..	55.88	..	23.53	..	100.00
8. Hospet	1	1.23	..	..	..	..	..	98.77	100.00
	2	..	..	..	..	..	..	100.00	100.00
	3	..	..	..	..	..	..	100.00	100.00
9. Jaipur	1	51.01	..	0.40	38.87	2.03	7.69	..	100.00	
	2	79.22	..	..	19.48	..	1.30	..	100.00
	3	66.40	4.80	6.40	8.00	2.40	12.00	..	100.00	
10. Sadabad	1	43.48	1.45	1.45	20.29	..	33.33	..	100.00	
	2	50.00	3.03	1.52	18.18	..	27.27	..	100.00	
	3	44.44	2.78	2.78	11.11	..	38.89	..	100.00	
11. Siliguri	1	52.50	2.50	..	37.50	7.50	..	..	100.00
	2	44.44	..	..	38.10	7.94	..	9.52	100.00
	3	71.43	..	..	28.57	..	..	..	100.00
12. Visakhapatnam	1	83.76	2.57	0.85	..	..	12.82	..	100.00
	2	86.61	..	..	7.14	1.79	4.46	..	100.00
	3	86.67	..	..	..	..	13.33	..	100.00
all towns	1	60.94	0.68	2.13	17.55	5.17	7.22	6.31	100.00	
	2	64.89	0.40	2.79	12.90	2.15	11.14	5.73	100.00	
	3	52.85	1.67	2.86	16.43	2.86	22.38	0.95	100.00	

*Informant type codes—

code 1—owner.

.. 2—contractor or engineer.

.. 3—hiredmen (mistri or darwan) or any other agent.

.. 4—relative of owner.

.. 5—neighbour.

.. 6—others.

TABLE (12) : PERCENTAGE DISTRIBUTION OF HOUSEHOLDS BY INFORMANT TYPE AND SELECTION CODE.

town	selection code	*informant type code						non-report	total
		1	2	3	4	5	6		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1. Balasore	1	60.00	..	3.33	36.67	..	..	..	100.00
	2	77.09	..	..	20.83	2.08	..	..	100.00
	3	57.14	..	..	42.86	..	..	..	100.00
2. Calcutta	1	90.70	..	2.33	6.97	..	..	..	100.00
	2	87.33	..	2.13	8.51	..	2.13	..	100.00
	3	..	..	..	..	..	..	..	..
3. Chandigarh	1	70.83	..	..	20.83	4.17	4.17	..	100.00
	2	72.92	..	..	18.75	..	8.33	..	100.00
	3	75.00	..	..	25.00	..	..	..	100.00
4. Dabhoi	1	88.24	11.76	..	..	..	..	..	100.00
	2	100.00	..	..	..	..	..	..	100.00
	3	100.00	..	..	..	..	..	..	100.00
5. Dwarka	1	100.00	..	..	..	..	..	..	100.00
	2	100.00	..	..	..	..	..	..	100.00
	3	..	..	..	..	..	100.00	..	100.00
6. Faridabad	1	100.00	..	..	..	..	..	..	100.00
	2	100.00	..	..	..	..	..	..	100.00
	3	100.00	..	..	..	..	..	..	100.00
7. Gwalior	1	28.92	..	1.20	37.35	24.10	1.20	7.23	100.00
	2	25.95	..	14.82	40.74	14.81	..	3.70	100.00
	3	14.71	..	..	79.41	..	4.41	1.47	100.00
8. Hospet	1	78.12	..	..	9.38	..	..	12.50	100.00
	2	80.00	..	..	5.00	..	..	15.00	100.00
	3	50.00	..	..	..	25.00	..	25.00	100.00
9. Jaipur	1	72.42	..	..	21.55	0.86	5.17	..	100.00
	2	86.37	..	..	13.63	..	..	..	100.00
	3	50.00	..	..	..	..	50.00	..	100.00
10. Sadabad	1	57.58	..	..	33.33	..	9.09	..	100.00
	2	53.34	3.33	..	30.00	..	13.33	..	100.00
	3	80.00	..	..	20.00	..	..	..	100.00
11. Siliguri	1	62.16	5.41	..	32.43	..	..	..	100.00
	2	67.39	..	..	30.44	2.17	..	..	100.00
	3	85.71	..	..	14.29	..	..	..	100.00
12. Visakhapatnam	1	80.22	..	..	1.10	1.10	1.10	16.48	100.00
	2	..	..	..	..	..	..	..	..
	3	80.00	20.00	..	..	..	..	..	100.00
all towns	1	73.80	0.62	0.47	15.81	3.57	1.86	3.87	100.00
	2	79.15	0.23	1.17	14.99	1.41	2.11	0.94	100.00
	3	47.26	0.68	..	43.15	0.68	6.85	1.38	100.00

*Informant type codes—

- code 1—owner.
 „ 2—contractor or engineer.
 „ 3—hiredmen (mistri or darwan) or any other agent.
 „ 4—relative of owner.
 „ 5—neighbour.
 „ 6—others.

TABLE (13): PERCENTAGE OF NEW HOUSES REPORTING IN COLS. 9—16, BLOCK 6, OF SCHEDULE (C2) BY INFORMANT TYPE CODE AND BY SELECTION CODE TO THE TOTAL NEW HOUSES (ALL TOWNS COMBINED)

selection code	informant type	total no. of new houses	*percentage of entries in cols. 9 to 16 of sch. C(2)							
			9	10	11	12	13	14	15	16
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1	owner	802	100.00	98.63	57.98	93.64	98.38	99.88	97.13	15.21
	contractor	9	100.00	100.00	33.33	44.44	66.67	77.78	66.67	55.56
	hired men	28	100.00	96.43	60.71	78.57	89.29	92.84	96.43	14.29
	relative	231	100.00	92.64	71.43	87.01	87.45	98.70	95.24	22.94
	neighbour	68	100.00	70.59	48.53	83.82	45.59	83.82	88.24	25.00
	others	95	98.95	81.05	83.16	73.68	63.16	89.47	92.63	37.89
	non-report.	83	100.00	93.98	75.90	81.93	87.95	100.00	100.00	1.20
	all	1316	99.92	94.53	62.69	89.13	90.12	97.80	95.97	18.09
2	owner	815	99.88	98.04	62.94	92.39	94.48	99.51	98.28	17.42
	contractor	5	100.00	100.00	60.00	40.00	40.00	100.00	100.00	60.00
	hired men	35	100.00	97.14	68.57	80.00	71.43	91.43	94.29	17.14
	relative	162	100.00	89.51	60.49	82.72	77.78	98.77	98.77	19.14
	neighbour	27	100.00	88.89	48.15	70.37	74.07	100.00	100.00	11.11
	others	140	100.00	83.57	93.57	79.29	44.29	95.72	98.57	78.57
	non-report.	72	100.00	94.44	72.22	93.06	94.44	100.00	98.61	1.39
	all	1256	99.92	94.90	66.40	87.58	86.43	98.81	98.33	23.57
3	owner	222	100.00	97.30	63.96	90.99	95.50	97.75	97.75	4.05
	contractor	7	100.00	85.71	71.43	71.43	71.43	85.71	85.71	71.43
	hired men	12	100.00	75.00	66.67	75.00	66.67	83.33	83.33	..
	relative	69	100.00	91.30	66.67	76.81	72.46	92.75	94.20	10.14
	neighbour	12	100.00	66.67	66.67	66.67	33.33	91.67	100.00	41.67
	others	94	100.00	50.43	38.30	81.91	75.53	94.68	94.68	48.94
	non-report.	4	100.00	100.00	100.00	25.00	100.00	100.00	100.00	..
	all	420	100.00	93.10	59.29	84.52	84.29	97.86	95.95	17.14

* col. no. sch.-C(2)
block 6

items

- 9 purpose
- 10 commencement of building construction
- 11 completion of building construction
- 12 covered area
- 13 approximate value
- 14 construction responsibility
- 15 owners residence
- 16 contractors' residence.

National Sample Survey

TABLE (14) : PERCENTAGE OF HOUSEHOLDS WITH NEW CONSTRUCTION REPORTING IN COLS. 9 TO 15, BLOCK 6 OF THE SCHEDULE (C3) BY INFORMANT TYPE AND BY SELECTION CODE TO TOTAL OF HOUSEHOLDS HAVING UNDERTAKEN NEW CONSTRUCTION (ALL TOWNS COMBINED)

selection code	informant type	total no. of households	*percentage of entries in cols. 9—15 of sch. C(3), bl. 6						
			(9)	(10)	(11)	(12)	(13)	(14)	(15)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1	owner	476	100.00	99.58	92.86	49.37	90.33	96.85	98.94
	contractor	4	100.00	100.00	100.00	50.00	25.00	100.00	100.00
	hired men	3	100.00	100.00	100.00	33.33	66.67	100.00	100.00
	relative	102	100.00	98.04	90.20	65.69	79.41	87.25	95.10
	neighbour	23	95.65	95.65	47.82	30.43	52.15	56.52	65.22
	others	12	91.67	91.67	91.67	58.33	83.33	83.33	75.00
	non-report.	25	96.00	100.00	100.00	68.00	92.00	96.00	96.00
	all	645	100.00	99.07	94.26	52.09	86.67	93.64	96.59
2	owner	338	100.00	100.00	98.22	52.66	91.12	94.08	99.70
	contractor	1	100.00	100.00	100.00	..	..	100.00	100.00
	hired men	5	100.00	100.00	80.00	20.00	40.00	40.00	80.00
	relative	64	100.00	100.00	92.19	60.94	79.69	87.50	100.00
	neighbour	6	100.00	100.00	100.00	33.33	50.00	83.33	100.00
	others	9	100.00	100.00	100.00	77.78	44.44	88.89	100.00
	non-report.	4	100.00	100.00	75.00	75.00	75.00	75.00	100.00
	all	427	100.00	100.00	96.96	53.86	86.89	92.04	99.53
3	owner	69	100.00	100.00	89.85	43.48	79.71	88.40	40.00
	contractor	1	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	hired men . . . . .	..	..	..	..	..	..	..	..
	relative	63	100.00	98.41	93.65	71.43	85.71	77.78	98.41
	neighbour	1	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	others	10	100.00	100.00	90.00	70.00	80.00	80.00	90.00
	non-report.	2	100.00	100.00	100.00	50.00	50.00	100.00	100.00
	all	146	100.00	99.31	91.78	58.22	82.19	83.56	98.63

*col. no. sch. C(3)
block 6

items

9	purpose
10	complete or incomplete
11	commencement of building construction
12	completion of building construction
13	covered area
14	approximate value
15	construction responsibility type

TABLE (15) : PERCENTAGE OF REPORTING SAMPLES FOR ITEMS 5 TO 15 OF BLOCK 4 (SCH. C4) SEPARATELY FOR HOUSE AND HOUSEHOLD AS SAMPLE UNITS TO TOTAL REPORTING HOUSES AND HOUSEHOLDS RESPECTIVELY

town	house/ household	percentage for each item code												
		(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)	
1. Balasore	house	100.00	100.00	66.67	..	..	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	household	100.00	100.00	50.00	25.00	..	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	total	100.00	100.00	57.14	14.29	..	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
2. Calcutta	house	100.00	100.00	100.00	..	..	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	household	100.00	100.00	75.00	..	..	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	total	100.00	100.00	87.50	..	..	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
3. Chandigarh	house	100.00	100.00	100.00	..	..	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	household	100.00	100.00	100.00	..	..	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	total	100.00	100.00	100.00	..	..	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
4. Dabhol	house	100.00	50.00	50.00	..	..	50.00	50.00	100.00	75.00	75.00	75.00	75.00	75.00
	household	100.00	..	25.00	..	..	25.00	25.00	50.00	75.00	75.00	75.00	75.00	75.00
	total	100.00	25.00	37.50	..	..	37.50	37.50	75.00	75.00	75.00	75.00	75.00	75.00
5. Dwarka	house	100.00	100.00	..	..	..	75.00	100.00	100.00	75.00	100.00	100.00	100.00	100.00
	household	100.00	100.00	50.00	25.00	..	75.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	total	100.00	100.00	25.00	12.50	..	75.00	100.00	100.00	87.50	100.00	100.00	100.00	100.00
6. Faridabad	house	100.00	100.00	..	..	..	100.00	75.00	25.00	25.00	100.00	75.00	75.00	75.00
	household	100.00	100.00	..	..	..	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	total	100.00	100.00	..	..	..	100.00	87.50	62.50	62.50	100.00	87.50	87.50	
7. Gwalior	house	100.00	100.00	..	..	..	..	50.00	100.00	100.00	50.00	100.00	100.00	100.00
	household	100.00	75.00	50.00	25.00	25.00	25.00	100.00	75.00	50.00	25.00	100.00	100.00	100.00
	total	100.00	83.33	33.33	16.67	16.67	16.67	83.33	83.33	66.67	33.33	100.00	100.00	

TABLE (15) : PERCENTAGE OF REPORTING SAMPLES FOR ITEMS 5 TO 15 OF BLOCK 4 (SCH. C4) SEPARATELY FOR HOUSE AND HOUSEHOLD AS SAMPLE UNITS TO TOTAL REPORTING HOUSES AND HOUSEHOLDS RESPECTIVELY

town	house/ household	percentage for each item code											
		(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
(1)	(1)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
8. Hospet	house	100.00	75.00	100.00	25.00	..	75.00	75.00	75.00	100.00	100.00	100.00	100.00
	household	100.00	100.00	100.00	..	..	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	total	100.00	87.50	100.00	12.50	..	87.50	87.50	87.50	100.00	100.00	100.00	100.00
9. Jaipur	house	100.00	75.00	50.00	25.00	..	75.00	75.00	75.00	50.00	50.00	100.00	100.00
	household	100.00	100.00	25.00	25.00	..	50.00	50.00	50.00	50.00	50.00	100.00	100.00
	total	100.00	87.50	37.50	25.00	..	62.50	62.50	62.50	50.00	50.00	100.00	100.00
10. Sadabad	house	100.00	100.00	50.00	25.00	25.00	25.00	100.00	100.00	100.00	100.00	100.00	100.00
	household	100.00	..	..	..	..	..	75.00	100.00	100.00	100.00	100.00	100.00
	total	100.00	50.00	25.00	12.50	12.50	12.50	87.50	100.00	100.00	100.00	100.00	100.00
11. Siliguri	house	100.00	100.00	66.67	33.33	..	..	100.00	66.67	66.67	66.67	100.00	100.00
	household	100.00	100.00	100.00	..	..	..	..	..	..	..	100.00	100.00
	total	100.00	100.00	80.00	20.00	..	..	60.00	40.00	40.00	40.00	100.00	100.00
12. Visakhapatnam	house	100.00	60.00	40.00	20.00	..	60.00	60.00	80.00	80.00	60.00	100.00	100.00
	household	100.00	33.33	33.33	33.33	..	33.33	33.33	66.67	66.67	66.67	100.00	100.00
	total	100.00	50.00	37.50	25.00	..	50.00	50.00	75.00	75.00	62.50	100.00	100.00
13. All towns	house	100.00	86.67	53.33	11.11	2.22	66.67	82.22	84.44	80.00	84.44	95.56	95.56
	household	100.00	75.56	48.89	11.11	2.22	62.22	77.78	82.22	82.22	80.00	97.78	97.78
	total	100.00	77.78	51.11	11.11	2.22	64.44	80.00	83.33	81.11	82.22	96.67	96.67

*item

5—sector

6—land area of premises

7—value of item

8—total expenditure for land development

item

9 expenditure for land development within one year

10 total plinth area

11 total floor area

12 covered area

item

13 no. of rooms

14 no. of floors

15 electricity facility

16 drinking water facility.

TABLE (16) : AVERAGE COVERED AREA AND APPROXIMATE COST PER HOUSE BY CONSTRUCTION TYPE FOR COMPLETE AND INCOMPLETE HOUSES (THROUGH HOUSE SAMPLE UNIT)

town	new building				addition and improvement			
	complete		incomplete		complete		incomplete	
	area (sq. m.)	value (Rs.)	area (sq. m.)	value (Rs.)	area (sq. m.)	value (Rs.)	area (sq. m.)	value (Rs.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1 Balasore	73.8	7934	50.6	7033	75.8	8025	41.3	4623
2 Calcutta	176.0	41881	355.9	120490	42.9	9470	75.3	12218
3 Chandigarh	156.8	28621	135.5	19702	76.9	6000	89.5	400
4 Dabhol	150.2	11264	128.8	22760	10.3	1312	22.5	633
5 Dwarka	84.9	5303	69.1	2350	43.1	1556	..	..
6 Faridabad	16.4	2342	13.0	2875	21.0	2852	77.7	2516
7 Gwalior	55.2	7367	41.3	6367	39.9	4635	50.8	4363
8 Hospet	95.9	10256	162.1	9936	69.6	2750	..	..
9 Jaipur	99.8	17288	73.8	10667	33.3	4545	45.4	7108
10 Sadabad	22.7	1880	39.8	4925	17.2	2500	11.2	700
11 Siliguri	28.2	2148	28.8	5180	62.0	6333	..	..
12 Visakhapatnam	104.8	17359	41.4	9080	33.4	2484	65.2	7079
all towns	97.5	15082	107.0	21170	29.5	3616	59.5	6132

TABLE (17) : AVERAGE COVERED AREA AND APPROXIMATE COST PER HOUSE BY CONSTRUCTION TYPE FOR COMPLETE AND INCOMPLETE HOUSES (THROUGH HOUSEHOLD SAMPLE UNIT)

town	new building				addition and improvement			
	complete		incomplete		complete		incomplete	
	area (sq. m.)	value (Rs.)	area (sq. m.)	value (Rs.)	area (sq. m.)	value (Rs.)	area (sq. m.)	value (Rs.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1 Balasore	77.3	12166	47.9	7196	82.5	11200	37.3	7021
2 Calcutta	195.6	49771	182.3	43391	107.2	20577	82.9	4640
3 Chandigarh	144.7	21866	114.3	12676	110.4	14000	..	..
4 Dabhol	166.4	12167	225.4	17026	20.4	1788	7.2	2000
5 Dwarka	77.6	4715	60.6	2643	31.5	1918	..	..
6 Faridabad	39.3	13600	31.8	4000	15.6	2466	13.1	2325
7 Gwalior	27.3	4732	43.8	5297	46.5	5520	13.5	2250
8 Hospet	89.6	8222	71.8	7986	44.9	4000	..	..
9 Jaipur	112.0	21444	56.7	9178	36.6	3579	27.5	1517
10 Sadabad	40.8	2730	32.6	3889	15.2	3222	11.2	700
11 Siliguri	28.9	7298	33.1	5297	..	..	..	..
12 Visakhapatnam	116.6	23924	35.0	11714	25.8	2483	72.3	12625
all towns	97.8	17026	71.2	11781	28.2	3688	33.6	4602

TABLE (18) : PER HOUSE/HOUSEHOLD ESTIMATES OF A FEW ITEMS REGARDING BUILDING CONSTRUCTION

town	house/ household	per house/household estimates for							
		land area of premises (sq. meter)	value of land (Rs.)	expenditure for land development		total plinth area (sq. meter)	total floor area (sq. meter)	covered area (sq. meter)	no. of rooms
				total (Rs.)	within one year (Rs.)				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1. Balasore	house	315	255	..	..	71	56	60	5
	household	1134	550	500	..	58	54	53	3
	total	783	388	500	..	64	54	56	4
2. Calcutta	house	134	2812	..	..	71	76	83	4
	household	112	6467	..	..	80	86	78	4
	total	123	4379	..	..	76	81	81	4
3. Chandigarh	house	261	8275	..	..	104	286	130	4
	household	167	2825	..	..	90	389	188	7
	total	214	5550	..	..	97	338	159	6
4. Dabhoi	house	1032	1532	..	..	128	128	72	5
	household	..	2000	..	..	16	16	25	3
	total	1032	1688	..	..	91	91	57	4
5. Dwarka	house	199	..	..	..	22	199	49	1
	household	170	1250	250	..	81	170	61	2
	total	184	1250	250	..	51	184	87	2
6. Faridabad	house	203	..	..	..	25	14	20	1
	household	194	..	..	..	31	24	5	2
	total	198	..	..	..	28	19	8	1
7. Gwalior	house	67	..	..	..	..	18	14	2
	household	89	5438	150	150	0.5	72	76	8
	total	80	5438	150	150	0.5	61	66	6
8. Hospet	house	199	525	50	..	49	49	49	5
	household	139	809	..	..	58	58	58	5
	total	164	667	50	..	54	54	54	5
9. Jaipur	house	295	2812	4000	..	108	102	90	6
	household	420	5000	4000	..	145	145	124	4
	total	345	3542	4000	..	123	119	104	5
10. Sadabad	house	126	1575	250	250	10	53	42	3
	household	..	..	..	..	..	25	22	1
	total	126	1575	250	250	10	41	32	2
11. Siliguri	house	334	200	200	..	..	19	12	2
	household	502	575	..	..	..	..	..	..
	total	401	388	200	..	..	19	12	2
12. Visakhapatnam	house	471	1100	5000	..	88	82	61	4
	household	338	3000	600	..	100	88	68	2
	total	438	1733	2800	..	91	84	63	3
all towns	house	275	2556	1900	250	69	98	65	4
	household	337	2707	1100	150	69	111	77	4
	total	302	2628	1500	200	69	104	71	4

TABLE (19) : PERCENTAGE DISTRIBUTION OF HOUSE/HOUSEHOLD WITH ELECTRICITY AND DRINKING WATER FACILITIES

town	house/household	type of electricity				type of drinking water				
		with electricity	without electricity	non report	total	tap water	tube well	well	non report	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1. Balasore	house	100·00	..	..	100·00	100·00	..	..	..	100·00
	household	25·00	75·00	..	100·00	50·00	..	50·00	..	100·00
	total	57·14	42·86	..	100·00	71·43	..	28·57	..	100·00
2. Calcutta	house	100·00	..	..	100·00	75·00	25·00	..	..	100·00
	household	100·00	..	..	100·00	100·00	..	..	..	100·00
	total	100·00	..	..	100·00	87·50	12·50	..	..	100·00
3. Chandigarh	house	50·00	50·00	..	100·00	100·00	..	..	..	100·00
	household	100·00	..	..	100·00	100·00	..	..	..	100·00
	total	75·00	25·00	..	100·00	100·00	..	..	..	100·00
4. Dabhoi	house	..	75·00	25·00	100·00	75·00	..	..	25·00	100·00
	household	25·00	50·00	25·00	100·00	75·00	..	..	25·00	100·00
	total	12·50	62·50	25·00	100·00	75·00	..	..	25·00	100·00
5. Dwarka	house	75·00	25·00	..	100·00	..	..	100·00	..	100·00
	household	75·00	25·00	..	100·00	..	..	100·00	..	100·00
	total	75·00	25·00	..	100·00	..	..	100·00	..	100·00
6. Faridabad	house	75·00	..	25·00	100·00	75·00	..	..	25·00	100·00
	household	75·00	25·00	..	100·00	100·00	..	..	..	100·00
	total	75·00	12·50	12·50	100·00	87·50	..	..	12·50	100·00
7. Gwalior	house	80·00	50·00	..	100·00	100·00	..	..	..	100·00
	household	..	100·00	..	100·00	75·00	..	25·00	..	100·00
	total	16·67	83·33	..	100·00	83·33	..	16·67	..	100·00
8. Hospet	house	50·00	50·00	..	100·00	100·00	..	..	..	100·00
	household	75·00	25·00	..	100·00	100·00	..	..	..	100·00
	total	62·50	37·50	..	100·00	100·00	..	..	..	100·00
9. Jaipur	house	100·00	..	..	100·00	100·00	..	..	..	100·00
	household	75·00	25·00	..	100·00	100·00	..	..	..	100·00
	total	87·50	12·50	..	100·00	100·00	..	..	..	100·00
10. Sadabad	house	25·00	75·00	..	100·00	..	25·00	75·00	..	100·00
	household	..	100·00	..	100·00	..	25·00	75·00	..	100·00
	total	12·50	87·50	..	100·00	..	25·00	75·00	..	100·00
11. Siliguri	house	..	100·00	..	100·00	..	..	100·00	..	100·00
	household	..	100·00	..	100·00	..	..	100·00	..	100·00
	total	..	100·00	..	100·00	..	..	100·00	..	100·00
12. Visakhapatnam	house	80·00	20·00	..	100·00	20·00	..	80·00	..	100·00
	household	100·00	..	..	100·00	..	..	100·00	..	100·00
	total	87·50	12·50	..	100·00	12·50	..	87·50	..	100·00
all towns	house	60·00	35·56	4·44	100·00	60·00	4·45	31·11	4·44	100·00
	household	55·56	42·22	2·22	100·00	62·22	2·22	33·34	2·22	100·00
	total	57·78	38·89	3·33	100·00	61·11	3·34	32·22	3·33	100·00

TABLE (20) : PERCENTAGE OF REPORTING SAMPLES ON QUANTITY AND COST OF BUILDING CONSTRUCTION MATERIALS TO TOTAL HOUSES WITH CONSTRUCTION ACTIVITY

(all towns)

[through house sample unit]

item	quantity unit	construction		addition & improvement	
		quantity	cost	quantity	cost
(1)	(2)	(3)	(4)	(5)	(6)
1. Stone blocks	sq. metre	20.00	28.00	11.11	22.22
2. Stone (chips, broken)	cubic m.	28.00	40.00	33.33	33.33
3. Bricks	1000	72.00	80.00	55.56	61.11
4. Sand etc.	cubic m.	48.00	84.00	55.56	72.22
5. Cement	ton (0.00)	72.00	80.00	72.22	77.78
6. Lime	cubic m.	24.00	36.00	22.22	33.33
7. Timber	sq. metre	48.00	76.00	16.67	22.22
8. Tiles	1000	24.00	28.00	16.67	16.67
9. Asbestos sheets	m. tonne	..	..	..	..
10. Corrugated iron sheets . . . . .	..	8.00	8.00	..	..
11. Iron & Steel . . . . .	..	40.00	80.00	50.00	50.00
12. Doors & windows	×	×	36.00	×	33.33
13. Paint & varnish		12.00	48.00	16.67	27.78
14. Sanitary fitting	×	×	28.00	×	16.67
15. Electrical fittings	×	×	52.00	×	44.44
16. Plumbing & water supply arrangements	×	×	40.00	×	11.11
17. Other materials	×	×	52.00	×	27.78
18. Labour :					
(i) skilled	man-days	56.00	80.00	77.78	77.78
(ii) unskilled . . . . .	..	56.00	76.00	66.67	72.22
19. Supplied from home :					
(i) materials	×	×	20.00	×	35.56
(ii) labour	man-days	24.00	28.00	33.33	44.44
20. Municipal fees, taxes, etc. . . . .		..	56.00	..	44.44
21. Contractor's charge for supervision	×	×	12.00	×	16.67

TABLE (21) : PERCENTAGE OF REPORTING SAMPLES ON QUANTITY AND COST OF BUILDING CONSTRUCTION MATERIALS TO TOTAL HOUSEHOLDS WITH CONSTRUCTION ACTIVITY

(all towns)
[through household sample unit]

item	quantity unit	construction		addition & improvement	
		quantity	cost	quantity	cost
(1)	(2)	(3)	(4)	(5)	(6)
1. Stone blocks	sq. metre	31·82	40·91	15·79	31·58
2. Stone (chips, broken)	cubic m.	27·27	40·91	36·84	42·11
3. Bricks	1000	77·27	81·82	68·42	78·95
4. Sand etc.	cubic m.	68·18	81·82	52·63	78·95
5. Cement	ton (0·00)	72·73	81·84	63·16	73·68
6. Lime	cubic m.	45·45	54·55	26·32	57·89
7. Timber	sq. metre	59·09	68·18	15·79	36·84
8. Tiles	1000	27·27	27·27	15·79	15·79
9. Asbestos sheets	m. tonnes	13·64	13·64	..	..
10. Corrugated iron sheets . . . . .	..	4·55	4·55	..	..
11. Iron & steel . . . . .	..	54·55	68·08	36·84	57·98
12. Doors & windows . . . . .	..	×	31·82	×	47·37
13. Paints & varnish . . . . .	..	27·27	59·09	10·53	15·79
14. Sanitary fittings	—	×	31·82	×	15·79
15. Electrical fittings . . . . .	..	×	40·91	×	31·58
16. Plumbing & water supply arrangements . . . . .	..	×	36·36	×	5·26
17. Other materials . . . . .	..	×	59·09	×	52·63
18. Labour :					
(i) skilled	man-days	50·00	81·82	78·95	78·95
(ii) unskilled . . . . .	..	40·91	63·64	84·21	94·74
19. Supplied from home :					
(i) materials . . . . .	..	×	9·09	×	52·63
(ii) labour	man-days	18·18	18·18	47·37	52·63
20. Municipal fees, taxes, etc.	×	..	68·18	..	57·89
21. Contractor's charge for supervision . . . . .	..	×	4·55	×	10·53

TABLE (22) : PER HOUSE EXPENDITURE (IN RUPEES) ON CONSTRUCTIONS AND ADDITION AND IMPROVEMENTS OF BUILDINGS (THROUGH HOUSE SAMPLE UNIT)

(all towns combined)

item	quantity unit	construction		addition and improvement	
		quantity	cost	quantity	cost
(1)	(2)	(3)	(4)	(5)	(6)
1. Stone block	sq. metre	93	637	42	61
2. Stone (chips, broken)	cu. m.	38	573	6	187
3. Bricks	1000	24	1361	9	421
4. Sand	cubic m.	54	422	14	145
5. Cement	ton (0.00)	9.73	2019	1.66	384
6. Lime	cubic m.	24	367	2	71
7. Timber	"	19	1123	1	182
8. Tiles	1000	2	561	7	255
9. Asbestos sheets	m. tonnes	..	..	..	..
10. Corrugated iron sheets	"	..	430	..	..
11. Iron & steel	"	3.01	862	3.38	509
12. Doors and windows . . . . .	..	..	1013	..	444
13. Paints and varnish . . . . .	..	..	93	..	41
14. Sanitary fittings . . . . .	..	..	1057	..	110
15. Electrical fittings . . . . .	..	..	532	..	190
16. Plumbing and water supply . . . . .	..	..	996	..	308
17. Other material . . . . .	..	..	2408	..	7
18. Sub-total (item 1 to 17) . . . . .	..	..	14454	..	3383
19. Labour :					
(i) skilled	man-days	156	1224	24	150
(ii) unskilled	"	244	1076	79	185
20. Supplied from home :					
(i) materials . . . . .	..	..	296	..	152
(ii) labour	man-days	149	454	17	78
21. Sub-total [item 20(i) & 20(ii)] . . . . .	..	..	750	..	230
22. Total (items 18, 19 & 21) . . . . .	..	..	17504	..	3948
23. Municipal fees, taxes . . . . .	..	..	124	..	41
24. Contractor's charge for supervision . . . . .	..	..	737	..	893
25. Total (22+23+24) . . . . .	..	..	18365	..	4882
26. number of sample houses . . . . .	..	46	..	..	..

TABLE (23) : PER HOUSEHOLD EXPENDITURE ON CONSTRUCTIONS AND ADDITIONS (IN RUPEES) AND IMPROVEMENT OF BUILDINGS (THROUGH HOUSEHOLD SAMPLE UNIT)

(all towns combined)

srl. no.	item	quantity unit	construction		addition and improvement	
			quantity	cost	quantity	cost
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	Stone blocks	sq.m.	102	744	14	386
2	Stone (chips, broken)	cubic m.	32	557	6	101
3	Bricks	1000	27	1436	8	636
4	Sand	cubic m.	56	331	12	105
5	Cement	ton (9.00)	9.28	1444	1.15	217
6	Lime	cubic m.	9	305	2	40
7	Timber	„	18	963	2	154
8	Tiles	1000	0.4	274	0.1	27
9	Asbestos sheets	m. tonnes	1	226	..	..
10	Corrugated iron sheets	„	0.08	90	..	..
11	Iron & steel	„	2	943	1	278
12	Doors and windows . . . . .	..	..	1437	..	373
13	Paints & varnish . . . . .	..	..	208	..	160
14	Sanitary fittings . . . . .	..	..	1093	..	223
15	Electrical fittings . . . . .	..	..	876	..	202
16	Plumbing and water supply . . . . .	..	..	725	..	25
17	Other materials . . . . .	..	..	2804	..	106
18	Sub-total : (item 1 to 17) . . . . .	..	..	14456	..	3033
19	Labour					
	(i) skilled	man-days	144	1383	34	210
	(ii) unskilled	„	168	780	56	212
20	Supplied from home					
	(i) materials . . . . .	..	..	125	..	145
	(ii) labour	man-days	98	265	28	93
21	Sub-total : 20(i) & 20(ii) . . . . .	..	..	390	..	238
22	Total (items 18, 19 & 21) . . . . .	..	..	17009	..	3693
23	Municipal fees, taxes . . . . .	..	..	81	..	57
24	Contractor's charge for supervision . . . . .	..	..	1280	..	321
25	Total (22+23+24) . . . . .	..	..	18370	..	4062
26	no. of sample households . . . . .	..	48	..	..	..

TABLE (24) : PERCENTAGE DISTRIBUTION OF AMOUNT OF FINANCE BY SOURCES; AND REPORTING S/ MILE UNITS UNDER EACH SOURCE AS A PERCENTAGE TO THE TOTAL REPORTING UNDER SOURCE SEPARATELY FOR HOUSES AND HOUSEHOLDS

(all towns combined)

srl. no.	sources of finance	percentage (0·00)			
		house		households	
		amount	sample unit	amount	sample unit
(1)	(2)	(3)	(4)	(5)	(6)
1	savings	65·89	88·64	63·79	83·33
2	pension, gratuity etc. & provident fund	1·04	2·27	2·87	9·52
3	inherited wealth	8·88	9·09	0·88	4·76
4	gifts . . . . .	..	..	..	..
5	subsidy and outright grant . . . . .	..	..	..	..
6	others . . . . .	..	..	1·71	7·14
7	sub-total	75·81	..	69·25	..
<i>borrowing</i>					
8	government	6·15	4·55	14·21	14·29
9	co-operative	3·65	4·55	..	..
10	life insurance	1·05	2·27	0·40	4·76
11	provident fund	0·80	2·27	0·31	2·38
12	housing association . . . . .	..	..	..	..
13	bank	2·27	4·55	5·17	2·38
14	housing agencies . . . . .	..	..	..	..
15	personal loan	6·22	18·18	5·97	16·67
16	money lender	1·60	4·55	1·46	4·76
17	others	2·45	6·82	3·23	9·52
18	sub-total (items 8—17)	24·19	36·36	30·75	40·48
19	total	100·00	..	100·00	..
20	number reporting under source of finance . . . . .	..	44	..	42

TABLE(25) : AVERAGE TIME (IN MAN-HOURS) SPENT FOR FILLING IN DIFFERENT SCHEDULES OF ENQUIRY

srl. no.	towns	man-hours spent												detailed schedule on cost and sources of finance (av. man-hour per schedule)
		listing of wards in municipalities [schedule c-1]	listing of blocks through municipality approach selection method-1 [schedule c-o]	listing of blocks through on-the-spot enquiry approach selection method-2 [schedule c-O]	listing of houses within a block (on the average) through				listing of households within a block (on the average) through					
					selection method			total	selection method			total		
					1	2	3		1	2	3			
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	
1	Balasore	88.3	2.0	2.0	14.9	19.5	15.8	17.1	22.5	46.1	12.0	25.8	5.4	
2	Calcutta	70.0	152.5	49.5	31.1	52.1	29.5	39.2	25.5	28.8	N.A.	27.7	9.9	
3	Chandigarh	N.A.	15.0	22.5	18.8	43.3	20.0	27.2	18.0	32.5	20.0	24.2	2.9	
4	Dabhoi	43.0	7.0	14.0	9.1	5.8	7.8	7.5	17.5	18.5	7.0	15.8	6.0	
5	Dwarka	35.0	14.0	21.0	13.2	11.8	7.5	11.5	15.5	11.0	16.0	13.8	4.1	
6	Faridabad	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	27.5	20.5	12.5	21.7	3.8	
7	Gwalior	N.A.	48.0	16.0	23.3	28.3	37.5	28.8	24.0	28.0	30.0	28.0	1.0	
8	Hospet	66.0	1.0	52.0	52.8	15.9	12.0	29.8	49.0	12.0	13.5	27.0	5.6	
9	Jaipur	71.0	110.0	54.0	68.7	30.8	40.0	42.4	84.0	52.5	18.0	58.2	3.3	
10	Sadabad	5.5	3.5	5.0	2.8	3.8	8.5	4.3	2.8	2.8	10.0	4.2	1.8	
11	Siliguri	100.0	30.0	60.0	23.0	20.5	5.0	18.4	25.0	25.0	30.0	26.0	N.A.	
12	Visakhapatnam	21.0	N.A.	N.A.	10.4	19.8	12.5	14.6	26.2	19.0	14.0	22.3	4.6	
13	average per schedule for all towns together	55.5	38.3	29.6	23.5	22.2	15.3	21.7	28.3	23.8	17.7	24.2	4.4	

Pilot Enquiry on Building Construction—Some Results

APPENDIX II

SOME TABLES ON BARAUNI AND TIRUCHIRAPALLI

TABLE (A 2.1) : PERCENTAGE OF HOUSES BY CONSTRUCTION TYPE FOR EACH SELECTION CODE TO TOTAL NUMBER OF HOUSES

town	selection code	total no. of houses	percentage to total house		
			new building	addition and improvement	total-construction
(1)	(2)	(3)	(4)	(5)	(6)
Barauni*	2	1257	6.92	2.78	9.70
Tiruchirapalli	1	2295	8.19	1.83	10.02
	2	1837	6.97	5.12	12.09
	3	331	0.60	3.73	4.53

TABLE (A 2.2) : PERCENTAGE DISTRIBUTION OF HOUSES BY CONSTRUCTION TYPE AND PURPOSE CODE FOR ALL SELECTION CODES COMBINED

town	**new building by purpose code						
	11	12	21	22	23	24	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
through house sample unit							
Barauni*	94.25	..	..	5.75	..	..	100.00
Tiruchirapalli	94.34	..	..	3.46	0.94	1.26	100.00
through household sample unit							
Barauni	97.22	..	..	1.85	..	0.93	100.00
Tiruchirapalli	94.44	..	..	5.56	..	..	100.00
town	**addition and improvement by purpose code						
	11	12	21	22	23	24	total
(1)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
through house sample unit							
Barauni*	97.14	..	..	2.86	..	..	100.00
Tiruchirapalli	83.23	2.68	..	12.75	1.34	..	100.00
through household sample unit							
Barauni	96.66	1.67	..	..	1.67	..	100.00
Tiruchirapalli	100.00	..	..	..	..	..	100.00

TABLE (A 2.3) : NUMBER OF HOUSES BY COMPLETE & INCOMPLETE AND CONSTRUCTION TYPE FOR EACH SELECTION CODE

town	selection code	new building			addition and improvement		
		complete	incomplete	total	complete	incomplete	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Barauni*	2	60	27	87	20	15	35
Tiruchirapalli	1	126	62	188	38	4	42
	2	86	42	118	83	11	94
	3	2	..	2	12	1	13

*all blocks are selected on spot enquiry.

**codes	description	codes	description
11	residential family dwelling	22	non-residential commercial use
12	residential non-family dwelling	23	non-institution
21	non-residential industrial use	24	non-any other use

TABLE (A 2.4) : NUMBER OF HOUSES BY CONSTRUCTION RESPONSIBILITY TYPE AND CONSTRUCTION TYPE FOR EACH SELECTION CODE

town	selection code	new building by construction responsibility type				addition and improvement by construction responsibility type			
		owner	contractor	non-report	total	owner	contractor	non-report	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Barauni*	2	84	3	..	87	34	1	..	35
Tiruchirapalli	1	167	21	..	188	37	5	..	42
	2	107	21	..	128	88	6	..	94
	3	2	..	..	2	13	..	..	13

TABLE (A 2.5) PERCENTAGE DISTRIBUTION OF HOUSES BY INFORMANT TYPE AND BY SELECTION CODE [through house sample unit]

town	selection code	informant type							total
		owner	contractor or engineer	hired men	relative of owner	neighbour	other	non-report	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Barauni	2	82.79	..	..	17.21	..	..	..	100.00
Tiruchirapalli	1	60.87	0.43	9.57	1.30	9.57	17.39	0.87	100.00
	2	54.06	..	8.11	0.45	13.51	23.87	..	100.00
	3	60.00	..	..	..	6.67	33.33	..	100.00
[through household sample unit]									
Barauni	2	91.78	..	..	8.22	..	..	..	100.00
Tiruchirapalli	1	91.67	..	8.33	..	..	..	..	100.00
	2	92.20	..	3.90	..	3.90	..	..	100.00
	3	100.00	..	..	..	..	..	..	100.00

TABLE (A 2.6) : PERCENTAGE DISTRIBUTION OF HOUSES BY CONSTRUCTION TYPE AND BY RESIDENCE OF OWNER FOR ALL SELECTION CODE COMBINED

town	new building by residence type					addition improvement by residence type				
	within block	outside block but within town	outside town	non-report	total	within block	outside block but within town	outside town	non-report	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Barauni	98.81	1.19	..	..	100.00	100.00	..	..	..	100.00
Tiruchirapalli	96.01	3.99	..	..	100.00	97.83	2.17	..	..	100.00

*All blocks selected from only for the spot enquiry.

TABLE (A 2.7) : PERCENTAGE OF REPORTING SAMPLES IN DIFFERENT ITEMS BY HOUSE/HOUSEHOLD TO TOTAL REPORTING SAMPLES

town	house/ household	percentage of entries in different item of block (4)										
		land area of premi- ses	value of land	exp. on land dev.	exp. on land dev. within one year	plinth area	floor area	covered area	no. of rooms	no. of floors	with elec- tricity	drinking water
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Barauni	household	100.00	75.00	25.00	..	100.00	100.00	50.00	75.00	100.00	100.00	75.00
		100.00	100.00	..	..	100.00	100.00	75.00	100.00	100.00	100.00	100.00
	total	100.00	87.50	12.50	..	100.00	100.00	62.50	87.50	100.00	100.00	87.50
Tiruchirapalli	household	50.00	50.00	..	..	50.00	75.00	50.00	50.00	50.00	75.00	100.00
		50.00	25.00	..	..	100.00	100.00	100.00	100.00	100.00	75.00	100.00
	total	50.00	37.50	..	..	75.00	87.50	75.00	75.00	75.00	75.00	100.00

National Sample Survey

TABLE (A2·8) : PER HOUSE/HOUSEHOLD ESTIMATE OF A FEW ITEM REGARDING BUILDING CONSTRUCTION FOR A FEW ITEMS

town	house/ household	per house/household estimates for							
		land area of premises (sq. m.)	value of land (Rs.)	expenditure land development (Rs.)		total plinth area (sq. m.)	total floor area (sq. m.)	covered area (sq. m.)	no. of rooms
				total	within one year				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Barauni	house household	762	217	300	..	48	33	52	2
		3096	894	..	..	87	44	90	2
	total	1929	604	300	..	67	38	75	2
Tiruchirapalli	house household	174	825	..	..	61	79	61	3
		273	1000	..	..	97	74	89	6
	total	224	885	..	..	85	76	80	4

TABLE (A2·9) : PERCENTAGE DISTRIBUTION OF HOUSE/HOUSEHOLD WITH TYPE OF ELECTRICITY AND DRINKING WATER

town	house/ house- hold	type of electricity				type of drinking water				
		with elec- tricity	without electricity	non- report	total	tap water	tube well	well	non- report	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Barauni	house/ house- hold	..	100·00	..	100·00	..	..	100·00	..	100·00
		..	100·00	..	100·00	..	..	100·00	..	100·00
	total	..	100·00	..	100·00	..	..	100·00	..	100·00
Tiruchirapalli	house/ house- hold	66·67	93·33	..	100·00	66·67	..	33·33	..	100·00
		100·00	..	..	100·00	75·00	..	25·00	..	100·00
	total	85·71	14·29	..	100·00	71·43	..	28·57	..	100·00

APPENDIX—III

EXTRACTS FROM INSTRUCTIONS TO FIELD STAFF

Introduction

A3.1.1 The Pilot Enquiry on Building Construction in some selected urban areas of the country is being started at the suggestion of the National Building Organisation (NEO). The survey begins during the fourth sub-round of the 22nd round of NSS and will continue till the end of the sixth sub-round.

A3.1.2 In all 14 towns and cities including Calcutta have been selected for the survey. Towns have been selected so as to represent all size classes of towns spread over all India with larger emphasis on big towns. Care has also been taken to include some areas having some developmental project work and also having at least one NSS sample block during the 22nd round NSS. In bigger towns, a few Investigator units of the UFS frame have been selected at random which only will constitute the area of field operation in the case of these towns. For other towns the entire town-limit will be covered by the investigator. This procedure has been adopted so as to make it possible that any one investigator is not required to cover more than about 50,000 population for spot enquiry.

Objective

A3.1.3 For the purpose of collecting data on building construction it may be useful first to locate and select out such area or areas in a town where incidence of building construction is markedly high. An exploratory survey on construction carried out in an earlier round of NSS also revealed the need for a fuller probe in this direction. Such areas or blocks where actual construction activity is concentrated may be selected either by spot enquiry or with the help of municipal sanction list. The proposed pilot enquiry on building construction will firstly throw up information on the location of conspicuous areas of building activity in a town through the two sources, municipal sanction list and on-the-spot enquiry. This information may be of advantage for designing a regular enquiry in future. Besides the Pilot enquiry will be most importantly a try-out enquiry for examining the two approaches for this type of survey viz. the site approach and the household approach. Thus in the selected areas of a town listing will be made for both houses and households and samples selected from these lists will be the subject of enquiry on the basis of a common schedule detailing various questions on constructions performed. The survey, therefore, expects to reveal how far the site approach can provide contact with relevant informants who would be in a position to supply detailed information on construction and source of finance, to collect which is the ultimate aim of comprehensive survey on the subject.

Scope

A3.1.4 As regards the scope of construction activity that this Pilot Enquiry aims at, only those building constructions which are undertaken by households will be taken up. That is, all government constructions of buildings and those by non-household sector will be excluded from this survey. For the household sector, any building, irrespective of purpose i.e., residential or otherwise, will come under the coverage of this survey. Construction, further will mean 'pucca' construction as per NBO definition to be detailed in subsequent paragraphs, and will include new construction, additions and improvement, and major repairs.

Programme of work

A3.1.5 In terms of work programme, in a selected town or in the selected Investigator units of a selected town the investigator will first mark out by spot visit to the entire area of the town or the Investigator units as the case may be, the conspicuous UFS/census blocks where building construction is relatively intense. In getting at the conspicuous areas through spot visit, it is important to cover fringe or border areas of a town where expansion is likely to occur. So in the programme of spot visit, fringe areas will also be included. From another end also the investigator will try to single out a few conspicuous areas. This will be done by referring to the list of sanctions for building construction maintained by the town municipality or the City Corporation. From this source, two wards with high construction activity will be marked out and from these, 4 UFS/Census blocks will be selected for the purpose of canvassing the schedules. From the source of spot visit, another 4 blocks will be chosen for the enquiry. The NSS sample blocks for the 22nd round constitute the third source from where two more blocks will be taken up for the survey. In the case where a town has only one NSS block, an additional block will be chosen from either of the two sources as compensation.

The Schedules

A3·1·6 Now in the 10 selected blocks in each town, three schedules will generally be canvassed. One schedule, Sch. C(2), will be for listing of sites or plots or houses in each of the ten blocks, and for collection of a few broad items of information in respect of new constructions falling in the list. Another schedule, Sch. C (3) is for listing of households with a few particulars for building construction to be done in 5 blocks selected out of the ten blocks. A third schedule Sch. C(4) will collect detailed information on cost of building constructions and the sources of financing these constructions from a fixed number of sample households and houses [(i.e. based on C(3) and C(2)] in a town. Besides in each town as has been said earlier one schedule Sch. C(1) will be used for collecting the requisite information from the municipal sanction records with the help of which two wards with conspicuous construction activity will be chosen. Schedule C(0) is for listing of blocks from these municipal wards with conspicuous construction activity. Another copy of the same schedule would be used for listing of blocks from whole town or selected Iv. units for on-the-spot enquiry.

A3·1·7 Towns selected for this pilot enquiry are :

1· Balasore 2· Barauni 3· Calcutta, 4· Chandigarh, 5· Dabhoi, 6· Dwarka, 7· Faridabad, 8· Gwalior, 9· Hospet, 10· Jaipur, 11· Sadabad, 12· Siliguri, 13· Tiruchirappalli, 14· Visakhapatnam.

A3·1·8 The Enquiry starts in February, 1968 in the fourth sub-round and is expected to be over by June, 1968, i. e., by the end of the 6th sub-round of the NSS. 22nd round (urban).

The Approach

A3·2·1 This enquiry is to be conducted principally in 10 blocks of a town of which 8 blocks would be chosen by the investigator. These 8 blocks are supposed to represent areas of concentrated building construction activity and the remaining 2 blocks would be generally the NSS blocks. If there happens to exist only one sample NSS block in the 22nd round for the town itself then another additional block would have to be chosen again from any of areas with concentrated building construction activity.

A3·2·2 The reason for selection of blocks from the areas supposed to have a fairly good amount of density of building construction activity apart from the general NSS sample blocks is that it is presumed that quite a high degree of building construction activity might be taking place in areas where population density is not necessarily high.

A3·2·3 For finding out concentration of building construction activity and for selecting these 8 blocks as mentioned, two approaches are to be followed in each town—(i) enquiry through municipal building sanction list, and through (ii) 'on-the-spot' enquiry, briefly called 'spot' enquiry. Of the 8 blocks, 4 blocks would be chosen by the investigator from (i), municipal sanction list and another 4 would be chosen from (ii), 'on-the-spot' enquiry. The remaining 2 blocks are the existing NSS sample blocks of the twenty-second round.

The method for selecting wards from municipal sanction list

A3·2·4 The method for selecting 4 sample blocks from municipal sanction list is as follows.

A3·2·5 The investigator having arrived in a town should go to the municipal office or municipal corporation along with schedule C(1). He would generally require only one copy of the schedule C(1) in a town. There in the municipal office called, sometimes, municipality office, he would fill in the schedule in the manner detailed later. In block 6 of that schedule he would have to enter number of sanctions for new building constructions with breakdown for household, government and others with totals for each ward in cols. 3, 4, 5 and 6 respectively. The ward no. is to be mentioned in col. 2 in the same line. Similarly, he would enter number of sanctions for additions and improvements in col. 7 for the corresponding ward. Thus information for each ward would be collected in a single line of this book.

A3·2·6 This work would involve working out totals in a rough sheet of number of sanctions for new building constructions under three separate heads of household, government and all others put together for the last 5 years. The total for 5 years would have to be built up for additions and improvements also for each ward. This 5-year period would refer to a period from January 1963 to the date of survey.

A3·2·7 Having entered the number of sanctions for new constructions and also additions and improvements wardwise he would select the ward with highest building construction activity as found from col. 3 of block 6 and also the ward with a number next below the highest in the same col. of the block 6. From these two wards he would select 4 blocks through a listing of all the blocks falling within these two wards in schedule C(0). The blocks falling within these two wards with conspicuous building construction activity should be identified and listed in schedule C(0) with a continuous serial number in the same copy of the schedule. The block No. census of UFS should be given as block identification. The investigator should go round all the blocks falling within these wards and should observe intensity of building construction activity and assign appropriate code given below the schedule for each block in col. 4, block 4 of the schedule C(0).

On the spot enquiry

A3-2-8 The second approach for locating areas with high density of building construction activity is through the 'spot' enquiry. For this scheme towns have been divided into (i) those having less than 50 thousand population and, (ii) those having 50 thousand and above.

A3-2-9 In regard to towns below 50 thousand population *i.e.*, upto class III towns, the investigator should go round all the blocks of the town and should physically observe incidence of building construction activity in each block. This part of the work he should do by carrying with him schedule C(0) where he should enter the UFS/Census number of the block and against that he should write code suggesting density of building construction activity as given in the schedule itself for each block in col. 4, bl. 4, Sch. C(0). In regard to towns with 50 thousand population and above the investigator should confine his investigation only to those IV. units selected by the ISI in the town list given in Appendix II. In these IV. units only, he should go round all the blocks and fill in schedule C(0) in the manner shown in the previous paragraph.

A3-2-10 While going round the blocks for listing purposes he should remember that area with comparatively small population particularly in the suburban or fringe areas of a town may have greater intensity of building construction activity. He should therefore give particular attention to this aspect also. He will also enquire if any new area has been included in the municipal area after the UFS had been conducted there. If so, the NSS blocks would be formed and are to be included for this pilot enquiry. Moreover, the matter should be reported to the Design Section of the ISI so that appropriate adjustment for the corresponding area might be made.

The Schedules

A3-2-11 For this enquiry five types of schedules are to be used. Schedules C(0) and C(1) are those for block selection and ward selection from municipal record respectively. Actual information is to be obtained in schedules C(2), C(3) and C(4). Whereas C(2) is a house listing schedule, schedule C(3) is a household listing schedule and both these schedules are to record information on building construction activity, if any, within last 5 years. Schedule C(4) is meant for recording some details on cost and sources of finance for building construction.

Block selection

A3-2-12 Schedule C(0) is meant for block selection through a listing of blocks for purposes of this pilot enquiry. In one town two C(0) schedules are to be used (i) one, blocks falling within the 2 selected wards of municipality and the other (ii) for purpose of spot enquiry. From each of these (i) and (ii) 4 blocks are to be selected in the following manner.

A3-2-13 UFS/Census Blocks having code 1 or 2 in col. 4, bl. 4, sch. C(0) are to be tick marked in col. 5, block 4 of the same schedule. Then a running serial number for these tick marks is to be given and four blocks are to be selected circular systematic. In case codes 1 and 2 together are too inadequate to satisfy the sample size code 3, S should be tick marked and a revised running serial number is to be given for purposes of sample selection.

A3-2-14 Then two NSS blocks should be chosen systematically. If there happens to exist only one NSS block for the town then another block is to be chosen from any of C(0) schedule.

A3-2-15 In this way 10 blocks will be selected. Schedule C(2) will be canvassed in all these 10 blocks. Schedule C(3) will be canvassed in 5 blocks only. Nos. 1 and 3 against item no. 10, bl. 1 within selection code 1 and 2 would be taken up for schedule C(3). Serial no. 1 of sample NSS block (item 10 block 1) within selection code 3 will also be taken up for schedule C(3).

Selection for schedule C(4)

A3-2-16 This schedule would be canvassed in 4 houses from schedule C(2) and 4 households: from schedule C(3) in a town. These 8 sample units in a town will be selected in the following manner :

In schedule C(2) all houses having entry in any of cols. 9 to 13 will be given a tick mark in col. 17 of block 6. Then all these tick marks will be given a running serial number in col. 17 itself taking all the 10 census/UFS blocks together for which C(2) was canvassed in the order of selection codes 1, 2 and 3. From these 10 schedules only 4 houses would be selected systematically. Again following the same procedure in schedule C(3), 4 households would be selected systematically. Thus schedule C(4) would be canvassed in 4 houses from C(2) listing and 4 households from C(3) listing.

Some basic concepts

A3·3·1 Constructions refer to construction of pucca houses either for residential or for non-residential purposes. It includes both complete or incomplete house or any partial structure or any small beginning in that direction.

A3·3·2 Additions and improvements include extension and betterment of existing pucca structure. Generally these works increase usefulness by making additions to floor and covered area or by extending the life of the building. It includes any type of remodelling or renovation works. Very minor repairs which are of regular nature are excluded. Constructions and additions and improvements refer to pucca houses or buildings only.

A3·3·3 A pucca house is one whose walls and roof at least are made either of oven burnt bricks, stone, cement concrete jack board (cement plastered reeds) and timber. Tiles, galvanised iron or asbestos cement sheets used in the construction of roof will be regarded as pucca material.

A3·3·4 These constructions and additions and improvements refer to those made within the last 5 years commencing from 1-1-63 to the date of survey.

A3·3·5 Plinth refers to foundation base of a house. Plinth area includes the entire constructed surface area on the ground over which the structure of the house is erected or planned to be erected. The plinth area refers to either completed plinth area or the area which has already been included for plinth construction work. Planned plinth area over which no construction work has been undertaken will not be included.

A3·3·6 Covered area includes area within rooms, covered veranda covered kitchen and bath. All covered areas of each floor are to be added together.

A3·3·7 Floor area includes covered area as also uncovered constructed area like open veranda etc.

A3·3·8 'Number of floor' would mean storeys within the building including the ground floor. Thus a three storeyed building would have three floors. This is including the ground floor. [Items 2·23 to 2·25 are particularly necessary for block 4, schedule C(4)].

A3·3·9 The NSS concept of household was followed for this enquiry. A group of persons normally living together and ordinarily taking food from the same kitchen was considered to have constituted household.

A3·3·10 A 'house' should have a separate structure, generally with a separate municipal number. It included both completed and incomplete structure or any building construction activity however small or partial its beginning has been. Thus it included also sites having building construction activity. For listing purposes all types of houses including kutcha and also irrespective of ownership, whether owned by householders or nonhouseholders, were included, but information on details of construction and concentration of such building construction activity was obtained for pucca houses only as defined in paragraph no. A.3·3·3 and owned by householders irrespective of the intended use.

A3·3·11 Completion of a house was considered to have taken place when it was physically ready for occupation during the reference time. Otherwise these structures were regarded as incomplete.

CODE LIST

Schedule C (1), block 4

item	code
1. manner of maintaining records (building sanction list by the municipality) :	
(i) in order and easily available	1
(ii) available but not maintained in an orderly way	2
(iii) the records are widely scattered and require a good deal of time for making them available	3
(iv) complete records not available	4
(v) records are not generally available and very bad	5
(vi) no records because no sanction is necessary	6
2. nature of information :	
(The municipalities are expected to record in the sanction list owner's and contractor's name and address with plinth area, covered area, floor space, approximate value of land and approximate value of construction etc.)	
(i) very good	1
(ii) good	2
(iii) partial	3
(iv) irregular	4
(v) very bad	5
3. cooperation :	
(i) easily available and staff very cooperative and quick	1
(ii) staff indifferent	2
(iii) recalcitrant	3
(iv) not cooperative at all	4

Schedule C (2), C(3), block 6

4. informant type	
(i) owner	1
(ii) contractor or engineer	2
(iii) hired men (mistri or darwan) or any other agent	3
(iv) relative of owner	4
(v) neighbour	5
(vi) others	6
5. Sector :	
(i) household	1
(ii) non-household	2
(i) government	3
(ii) institutions (schools, colleges, hospitals, libraries and clubs)	4
(iii) other non-household sector	4
6. construction type :	
(i) construction of new buildings	1
(ii) additions and improvements in existing building (covering additions of floor space to existing buildings and alteration, renovation and major repairs).	2
7. purpose :	
(i) residential	
(a) family dwelling	11
(b) non-family dwelling	12
(ii) non-residential	
(a) industrial use	21
(b) commercial purpose (shops, ware-houses, offices)	22
(c) institutions (schools, colleges, hospitals, libraries)	23
(d) any other purpose	24

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8. construction responsibility type :		
(i) owner undertaking construction with paid labour		1
(ii) completely given to contractor		2
(iii) contractor undertaking partial responsibility		3
9. owner's and contractor's residence		
(i) within block or ward		1
(ii) outside block or ward but in the same town		2
(iii) outside town in the district		3
(iv) outside district		4
(v) outside state		5

Schedule C(3), block 6 and Schedule C(4), blocks 2 and 4

10. building location :		
(i) within block		1
(ii) outside block		2
11. stage of construction :		
(i) complete		1
(ii) incomplete		2

APPENDIX IV
FACSIMILE OF SCHEDULES OF ENQUIRY

*Central
Urban

*Original
Duplicate

Government of India National Sample Survey 1967-1968 Pilot Enquiry on Building Construction

Schedule C(O) : List of blocks with density of building construction activity
Twenty-second Round

[1] identification									
1. state			4. size class of town						
2. district			5. municipal ward (nos.)						
3. town			6. Iv. unit selected by ISI for bigger towns (nos.)						
[2] particulars of field work									
officer		name		roll no.	operation		despatch		
					commencement	completion			
(1)		(2)		(3)	(4)	(5)	(6)		
1. investigator									
2. inspector									
3. scrutiniser				x					
[3] remarks									
1. time required for block listing (hours 0.0)									
2. remarks									
[4] list of blocks with density of building construction activity									
srl. no.	Iv. unit/ circle— charge no.	block no.	density code	sampling srl. no.	srl. no.	Iv. unit/ circle— charge no.	block no.	density code	sampling srl. no.
(1)	(2)	(3)	(4)	(5)	(1)	(2)	(3)	(4)	(5)

density of building construction activity

description	code
1. very high	1
2. high	2
3. medium	3
4. small	4

*delete whichever is inapplicable

***Central
Urban**

***Original
Duplicate**

Government of India National Sample Survey 1967-68 Pilot Enquiry on Building Construction

Schedule C(1) : List of Municipal Wards with density of construction activity from Municipal Building Sanction List

Twenty-second Round

[1] identification particulars				[2] town character				
1. sub-round	2. state	3. district	4. town	1. population (in 000) 2. area (in sq. km.)	year			
5. municipality	6. class of town				1951	1961		
[3] particulars of field work								
officer	name	roll no.	date of			signature	no. of addl. sheets	
			receipt		operation			despatch
(1)	(2)	(3)	(4)		(5)	(6)	(7)	(8)
1. investigator			x					
2. inspector								
3. scrutiniser		x						
[4] particulars of municipal sanctions								
items						code		
(1)						(2)		
1. whether sanctions for building constructions necessary (yes-1,no-2)								
2. period of validity of sanction (years)								
3. nature of information (code)								
4. manner of maintaining records (code)								
5. cooperation (code)								
[5] remarks by investigator								
1. time required for completion of listing so far as this schedule is concerned $\frac{\text{hour}}{0.0}$								
2. remarks								

*delete whichever is inapplicable.

(1)2

[6] list of wards with number of sanction for new construction of buildings and additions and improvements during last 5 years

srl. no.	*ward/dist./mohalla etc. no.	number of sanctions for					additions and improvements	total (cols. 6+7)	population (in '00)	**area (in sq. km.)
		constructions								
		household	govt.	others	total					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	

*delete whichever is inapplicable.
 **if available at the municipal office.

*Central
Urban

*Original
Duplicate

Government of India National Sample Survey : 1967-68 Pilot Enquiry on Building Construction

Schedule C(2) : List of construction sites and completed houses

Twenty-second Round

[1] identification particulars				[2] town character			
1. sub-round		7. ward no.		1. population (000) 1951-1961			
2. state		8. Iv. unit no.		(i) within town			
3. district		9. sample block no.		(ii) within ward			
4. town		10. serial number of sample block		2. area (in sq. km.)			
5. class of town		11. fringe block yes-1, no. 2		(i) within town			
**6. selection code		12. new UFS block yes-1, no - 2		(ii) within ward			
[3] particulars of field work							
officer	name	roll no.	date of			signature	no. of addl. sheets
			receipts	operation	despatch		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1. investigator			x				
2. inspector							
3. scrutiniser		x					
[4] summary information							
item	household	non-household	total				
(1)	(2)	(3)	(4)				
1. number of completed buildings constructed within last 2 years		x	x				
2. number of buildings completed before 2 years but within last 5 years		x	x				
3. number of incomplete buildings under construction							
4. sub-total (1+2+3)							
5. number of buildings under improvements and additions							
6. total (items 4+5)							
[5] remarks by investigator							
1. total time required for completing listing (hours 0.0)							
2. remarks							

*delete whichever is inapplicable.

** (i) selected through municipal report,
(ii) " " " " spot,
(iii) NSS block.

[6] list of houses and particulars of new constructions and additions and improvements within last 5 years.

serial no.	house no.	name of street/ lane or locality	informant type (code)	name of owner	sector (code)	construction type (code)	complete -1 incomplete-2	purpose (code)	date (month & year) of		covered area (in 0-0 sq. m.)	approximate value (in Rs. 00)	construction respon- sibilities type (code)	resident (code)		sampling sri. no. for schedule C(4)
									commence- ment	completion				owner	contractor	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)

[6] list of houses and particulars of new constructions and additions and improvements within last 5 years.

serial no. (1)	house no. (2)	name of street/ lane or locality (3)	informant type (code) (4)	name of owner (5)	sector (code) (6)	construction type (code) (7)	complete—1 incomplete—2 (8)	purpose (code) (9)	Date (month & year) of		covered area (in 0.0 sq. m.) (12)	approximate value (in Rs. 00) (13)	construction respon- sibilities type (code) (14)	residence (code)		sampling ar. no. for schedule C(4) (17)
									concom- ment (10)	completion (11)				owner (15)	contractor (16)	

[6] list of houses and particulars of new constructions and additions and improvements within last 5 years

serial no.	house no.	name of street/ lane or locality	informant type (code)	name of owner	sector (code)	construction type (code)	complete—1 incomplete—2	purpose (code)	Date (month & year) of		covered area (in 0.0 sq. m.)	approximate value (in Rs. 00)	construction respon- sibilities type (code)	residence (code)		sampling str. no. for schedule C(4)
									commen- cement	completion				owner	contractor	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)

Government of India National Sample Survey : 1967-68
Pilot Enquiry on Building Construction
Schedule C (3) : List of households

Twenty-second Round

[1] identification particulars				[2] town character			
1. sub-round		7. ward no.		1951-1961			
2. state		8. Iv. unit no.		1. population (000)			
3. district		9. sample block no.		(i) with in town			
4. town		10. serial no of sample block		(ii) with in ward			
5. size class of town		11. fringe block : yes—1, no—2		2. area (in sq. km.)			
**6. selection code		12. new UFS block : yes—1, no—2		(i) within town			
				(ii) within ward			
[3] particulars of field work							
officer	name	roll no.	date of			signature	no. of addl. sheets
			receipt	operation	despatch		
1	2	3	4	5	6	7	(8)
1. investigator			x				
2. inspector							
3. scrutiner		x					
[4] summary information							
item	number						
	within block	outside block					
(1)	(2)	(3)					
1. number of households with building construction completed before 2 years but within last 5 years							
2. number of households with building construction completed within last 2 years							
3. number of incompletd building							
4. sub-total (1+2+3)							
5. number of additions and improvements							
6. total (4+5)							
[5] remarks by investigator							
1. total time required for completing listing (hours 0.0)							
2. remarks							

*delete whichever is inapplicable

** (i) selected through municipal record—1
(ii) " " spot enquiry—2
(iii) NSS block " " —3

[6] list of households and particulars of building construction activity within last 5 years

srl. no.	house no.	name of street/lane or locality	house hold serial number	name head of household	infor-ment type (code)	name of owner	cons-truction type (code)	purpose (code)	complete-1 incomplete-2	date (month and year) of		covered area (in 0.0 sq. m.)	appro-ximate value (in Rs. 00)	construc-tion responsibility type (code)	building location (code)	sampling serial no. for schedule c (4)
										commen-cement	comple-tion					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)

Government of India, National Sample Survey : 1967-68
Pilot Enquiry on Building Construction

Schedule C (4) : Schedule on detailed information on building construction.

Twenty-second Round

[1] identification particulars				[2] household character	
(1)	(2)	(1)	(2)	(1)	(2)
1. sub-round		9. sample block no.		1. household size (no.)	
2. state		10. serial no. of sample block		2. household industry	
		11. fringe block		occupation (code)	
3. district		(yes—1, no—2)		3. av. monthly expenditure (Rs.)	
		12. new UFS block		4. building location (code)	
4. town		(yes—1, no—2)		5. date of commencement	
		13. sample unit		6. " completion	
5. class of town		(i) household—1		7. name of h. h. head	
6. selection code		(ii) household—2			
7. ward no.		14. serial no of unit		8. name of house owner	
8. Iv. unit/charge/circle					

[3] particulars of field work						
officer	name	date of			signature	addl. sheet no.
		receipt	operation	despatch		
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. Investigator						
2. inspector						
3. scrutiner						

[4] construction particulars (within 5 years)			
(1)	(2)	(1)	(2)
1. construction type (code)		8.1 expenditure for land development within one year	
2. purpose of construction (code)		(in Rs.)	
3. stage of construction work (code)		9. total plinth area (in sq. m.)	
4. construction responsibility type (code)		10. total floor area (in sq. m.)	
5. sector (code)		11. covered area (in sq. m.)	
6. land area of promises (sq. m.)		12. no. of rooms	
7. value of land (in Rs.)		13. no. of floors	
8. total expenditure for land development (in Rs.)		14. with electricity (yes—1, no—2)	
		15. drinking water (code)**	

[5] remarks by investigator
1. time required for filling in this schedule (hours 0.0)
2. remarks

*delete whichever is inapplicable.
**drinking water code : tap water—1, tube well—2, well—3, others—4.

[6] expenditure on construction and additions and improvements of buildings (cost in Rs.)

*residential—1
non-residential—2

srl. no.	item	quantity unit	construction		additions and improvements		total	
			quantity	cost	quantity	cost	quantity	cost
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1	stone blocks	sq. metre						
2	stone (chips, broken)	cubic m.						
3	bricks	1000						
4	sand etc.	cubic m.						
5	cement	ton (0.00)						
6	lime	cubic m.						
7	timber	sq. metre						
8	tiles	1000						
9	asbestos sheets	m. tonne						
10	corrugated iron sheets	..						
11	iron & steel	..						
12	doors & windows	x	x		x		x	
13	paints & varnish	x	x		x		x	
14	sanitary fitting	x	x		x		x	
15	electrical fittings	x	x		x		x	
16	plumbing and water supply arrangements	x	x		x		x	
17	other materials	x	x		x		x	
18	sub-total (item 1 to 17)							
19	labour : (i) skilled	man-days						
	(ii) unskilled	..						
20	supplied from home : (i) materials	x	x		x		x	
	(ii) labour	man-days						
21	sub-total : 20 (i) & 20 (ii)	x	x		x		x	
22	total (items 18, 19 & 21)	x	x		x		x	
23	municipal fees, taxes etc.							
24	contractor's charge for supervision	x	x		x		x	
25	total (22+23+24)	x	x		x		x	

[7] sources of finance

[8] borrowing from employer

sr. no.	item	amount (Rs.)	sr. no.	item	amount (Rs.)
(1)	(2)	(3)	(1)	(2)	(3)
1	savings		1	governments	
2	pension, gratuity etc. & provident fund		2	public undertaking	
3	inherited wealth		3	private	
4	gifts		4	others	
5	borrowing		5	total	
6	subsidy and outright grant				
7	others				
8	total				

[9] sources of borrowing

sr. no.	item	amount in Rs.	rate of interest per annum	period for full repayment in year
(1)	(2)	(3)	(4)	(5)
1	government			
2	co-operatives			
3	life insurance			
4	provident fund			
5	housing association			
6	bank			
7	housing agencies			
8	personal loan			
9	money lender			
10	others			
11	total			

*delete whichever is inapplicable.

NATIONAL SAMPLE SURVEY REPORTS ALREADY PUBLISHED

Sl. No.

- 1 General Report No. 1 on the First Round (October 1950-March 1951)
- 2 Tables with Notes on the Second Round (April-June 1951)
- 3 Tables with Notes on the Third Round (August-November 1951)
- 4 Special Report on the Survey of Persons in the "Live-Register" of Delhi Employment Exchange (August-September 1951)
- 5 Technical Paper on Some Aspects of the Development of the Sample Design
- 6 Survey of Faridabad Township (March-April 1954)
- 7 Couple Fertility (Second Round : April-June, 1951 and Fourth Round : April-September 1952)
- 8 Report on Preliminary Survey of Urban Unemployment (September 1953)
- 9 Report on the Sample Survey of Displaced Persons in the Urban Areas of the Bombay State (July-September 1953)
- 10 First Report on Land Holdings, Rural Sector (Eighth Round : July 1954-March 1955)
- 11 Report on Sample Survey of Manufacturing Industries, 1949-1950
- 12 A Technical Note on Age Grouping, October 1958
- 13 Report on Household Transport Operations (Seventh Round : October 1953-March 1954)
- 14 Report on Some Characteristics of the Economically Active Population (Fourth to Seventh Rounds : April 1952 March 1954)
- 15 Report on Sample Survey of Manufacturing Industries, 1951
- 16 Preliminary Report on Employment and Unemployment (Ninth Round : May-November 1955)
- 17 Report on Sample Survey of Employment in Calcutta, 1953
- 18 Tables with Notes on Consumer Expenditure (Fourth Round : April-September 1952)
- 19 Report on Small Scale Manufacture : Household Enterprises smaller than Registered Factories (Seventh Round: October 1953-March 1954)
- 20 Report on Pattern of Consumer Expenditure (Second to Seventh Rounds : April 1951-March 1954)
- 21 Household Small Scale Manufacturing Establishments smaller than those covered by Industries (Development & Regulations, Act 1951) (Ninth Round : May-November 1955)
- 22 Report on Sample Survey of Manufacturing Industries, 1952
- 23 Report on Sample Survey of Manufacturing Industries, 1953
- 24 Report on Household Retail Trade (Seventh to Ninth Rounds : October 1953-November 1955)
- 25 Sample Verification of Livestock Census : 1956
- 26 A Preliminary Report on Housing Condition (Seventh Round : October 1953-March 1954)
- 27 Technical Records of Sample Design, Instructions to Field Workers and List of Sample Villages and Urban Blocks (Ninth Round : May-November 1955)
- 28 Report on Sample Survey of Manufacturing Industries, 1954 (1)
- 29 Notes on Some Results of the Land Utilisation Survey (Tenth Round : December 1955-May 1956)
- 30 Report on Land Holdings (2) : Operational Holdings in Rural India (Eighth Round : July 1954-April 1955)
- 31 Tables with Notes on Household Transport Operation (Eighth to Tenth Rounds : July 1954-May 1956)
- 32(I) Some Aspects of Costs of Cultivation of Paddy, Wheat, Jowar and Bajra (Fifth to Seventh Rounds : October 1952, March 1954)
- 32(II) Some Aspects of Costs of Cultivation of Barley, Maize, Ragi, Gram, Small Millets, Groundnut, Cotton and Jute (Fifth to Seventh Rounds : October 1952-March 1954)
- 32(III) Some Aspects of Costs of Cultivation of Minor Cereals, Pulses, Sugarcane, Oil Seeds, Potato, Spices and Tobacco (Fifth to Seventh Rounds : October 1952-March 1954)
- 33 Tables with Notes on Wages, Employment, Income and Indebtedness of Agricultural Labour Households in Rural Areas (Eleventh and Twelfth Rounds : August 1956-August 1957)
- 34 Tables with Notes on Employment and Unemployment (Tenth Round : December 1955-May 1956)
- 35 Tables with Notes on Livestock Products (Fifth to Seventh Rounds : April 1952-March 1954)
- 36 Report on Land Holdings (3) : Some Aspects of Ownership Holdings (Eighth Round : July 1954-April 1955)
- 37 Survey of Book Readers' Preference in India (Thirteenth Round : September 1957-May 1958)
- 38 Some Results the Land Utilisation Survey and Crop-cutting Experiments (Thirteenth Round : September 1957-May 1958)
- 39 Tables with Notes on Consumer Expenditure (Eighth Round : July 1954-April 1955)
- 40 Tables with Notes on Consumer Expenditure (Ninth Round : May-November 1955)
- 41 Household Retail Trade (Tenth Round : December 1955-May 1956)
- 42 Report on Small Scale Manufacture & Household Enterprises smaller than Registered Factories (Seventh to Eighth Rounds : October 1953-April 1955)
- 43 Tables with Notes on Small Scale Manufacture ; Household Enterprises smaller than Registered Factories (Ninth and Tenth Rounds : May 1955-May 1956)
- 44 A Note on Profession and Services (Fourth to Eighth Rounds : April 1952-April 1955)
- 45 Report on Indian Village & A Study of Some Social and Economic Aspects (Tenth to Twelfth Rounds : December 1955-August 1957)

NATIONAL SAMPLE SURVEY REPORTS ALREADY PUBLISHED

Sl. No.

- 46 Tables with Notes on Consumer Expenditure of Agricultural Labour Households in Rural Areas (Eleventh and Twelfth Rounds : August 1956-August 1957)
- 47 Tables with Notes on Consumer Expenditure (Tenth Round : December 1955-May 1956)
- 48 Preliminary Estimates of Birth and Death Rates and of the Rate of Growth of Population (Fourteenth Round : July 1958 July 1959)
- 49 Report on Morbidity (Seventh Round : October 1953--March 1954 and Eleventh to Thirteenth Rounds : August 1956 May 1958)
- 50 Tables with Notes on Housing Condition (Tenth Round : December 1955-May 1956)
- 51 Tables with Notes on Housing Condition (Eleventh Round : August 1956-January 1957)
- 52 Tables with Notes on Employment and Unemployment (Eleventh and Twelfth Rounds : August 1956-August 1957)
- 53 Tables with Notes on Internal Migration (Ninth, Eleventh, Twelfth and Thirteenth Rounds : May 1955 May 1958)
- 54 Vital Rates (Seventh Round : October 1953-March 1954)
- 55 Report on Sample Survey of Manufacturing Industries, 1954(2) : Exploratory Survey of Scheduled Industries
- 56 Report on Sample Survey of Manufacturing Industries, 1955 (1) : Survey of Scheduled Industries
- 57 Report on Sample Survey of Manufacturing Industries, 1955 (2)
- 58 Report on Sample Survey of Manufacturing Industries, 1956 (1) : Survey of Scheduled Industries
- 59 Tables with Notes on Pattern of Household Ownership and Possession of Land in Rural Areas, 1950-51 to 1953-54 (Eighth Round : July 1954-April 1955)
- 60 Tables with Notes on Farming Condition and Practices in Rural Areas 1953-54 (Eighth Round: July 1954—April 1955)
- 61 Notes on the Results of the Land Utilisation Survey and Crop-cutting Experiments (Eleventh Round : August 1956-February 1957)
- 62 Supplementary : Report on Employment and Unemployment (Ninth Round : May-November 1955)
- 63 Tables with Notes on Employment and Unemployment in Urban Areas (Thirteenth Round : September 1957-May 1958)
- 64 Indian villages : A study of Some Social and Economic Aspects (Thirteenth Round : September 1957-May 1958)
- 65 Tables with Notes on Animal Husbandry (Eleventh Round : August 1956-January 1957)
- 66 Report on Land Holdings (4) : Rural Sector, (Eighth Round : July 1954-April 1955)
- 67 Tables with Notes on Housing Condition (Twelfth Round : March-August 1957)
- 68 Tables with Notes on Rural Indebtedness (Eighth Round : July 1954-April 1955)
- 69 Tables with Notes on the Results of the Land Utilisation Survey and Crop-cutting Experiments (Twelfth Round : March-August 1957)
- 70 Technical Paper on Sample Design (Fourteenth Round : July 1958-June 1959)
- 71 Consumer Expenditure by Levels of Household Expenditure (Thirteenth Round : September 1957-May 1958)
- 72 Tables with Notes on Milk Production (Twelfth Round : March-August 1957)
- 73 Some Results of the Land Utilisation Survey and Crop-cutting Experiments (Fourteenth Round : July 1958-June 1959)
- 74 Report on Land Holdings (5) : Rural Sector (Some Aspects of Operational Holdings—Population Zones and All India): (Eighth Round : July 1954-April 1955)
- 75 Report on Sample Survey of Manufacturing Industries, 1956 (2)
- 76 Fertility and Mortality Rates in Rural India (Fourteenth Round : July 1958-June 1959)
- 77 Tables with Notes on Consumer Expenditure (Eleventh Round : August 1956-February 1957)
- 78 Tables with Notes on Consumer Expenditure (Twelfth Round : March-August 1957)
- 79 Some Results of the Land Utilisation Survey and Crop-cutting Experiments (Fifteenth Round : July 1959 -June 1960)
- 80 Tables with Notes on Consumer Expenditure (Thirteenth Round : September 1957-May 1958)
- 81 Report on Land Holdings : Urban Sector (Eighth Round : July 1954-April 1955)
- 82 Tables with Notes on Some Aspects of Cost of Cultivation of Paddy, Wheat, Barley, Maize, Millets, Pulses, Oil Seed, and Vegetables, Urban India (Fifth to Seventh Rounds : 1951-53)
- 83 Report on Sample Survey of Manufacturing Industries, 1957(1)
- 84 Tables with Notes on Sample Survey of Manufacturing Industries : Survey of Scheduled Industries 1957(3)
- 85 Tables with Notes on Employment and Unemployment in Urban Areas, (Fourteenth Round : July 1958-June 1959)
- 86 Tables with Notes on Sample Survey of Manufacturing Industries, 1957(2)
- 87 Tables with Notes on Average Budget of Agricultural Labour Households in Rural Areas (Eleventh and Twelfth Rounds : August 1956-August 1957)
- 88 Tables with Notes on Household Receipts and Disbursements in Rural and Urban Areas (Fourteenth Round : July 1958-June 1959)
- 89 Tables with Notes on Dwelling Habits of Occupants of the Two-room Government Residences in New Delhi, July 1960
- 90 Tables with Notes on Survey of Scheduled Industries, 1958 Sample Survey of Manufacturing Industries,
- 91 Tables with Notes on the Annual Survey of Industries, 1959 : Sample Sector : Summary Results
- 92 Some Results of Land Utilisation Survey and Crop-cutting Experiments (Sixteenth Round : July 1960-June 1961)
- 93 Tables with Notes on Sample Survey Manufacturing Industries, 1958, Factory Establishments : Summary Results

NATIONAL SAMPLE SURVEY REPORTS ALREADY PUBLISHED

Sl. No.

- 94 Tables with Notes on Small Scale Manufacture : Rural and Urban (Household Enterprises Smaller than the Registered Factories) (Fourteenth Round : July 1958-June 1959)
- 95 Tables with Notes on Household Indebtedness (Sixteenth Round : July 1960-June 1961)
- 96 Tables with Notes on the Annual Survey of Industries, 1960 : Sample Sector, Summary Results
- 97 Tables with Notes on Capital Formation (Fifteenth Round—Rural : July 1959-June 1960)
- 98 Tables with Notes on Consumer Expenditure (Preliminary) (Fifteenth Round : July 1959-June 1960)
- 99 Tables with Notes on Household Non-Registered Trade (Fifteenth Round : July 1959-June 1960)
- 100 Tables with Notes on Rural Employment and Unemployment (Fourteenth Round : July 1958-June 1959)
- 101 Tables with Notes on Consumer Expenditure (Preliminary) (Sixteenth Round : July 1960-June 1961)
- 102 Tables with Notes on Consumer Expenditure (Fourteenth Round : July 1958-June 1959)
- 103 Tables with Notes on Urban Labour Force (Sixteenth Round : July 1960-June 1961)
- 104 Tables with Notes on Consumer Expenditure (Fifteenth Round : July 1959-June 1960)
- 105 Tables with Notes on Household Non-Mechanised Transport and Utilisation of Working Animals (Fifteenth Round : July 1959-June 1960)
- 106 Tables with Notes of Land Utilisation Survey and Crop-cutting Experiments (Seventeenth Round : July 1961-June 1962)
- 107 Tables with Notes on Consumer Expenditure (Eleventh and Twelfth Rounds : August 1956-August 1957)
- 108 Report on the Type Study on Consumption and Disposal of Cereals and Capital Formation by Households : 1959-60
- 109 Tables with Notes on Indian Villages (Fourteenth Round : July 1958-June 1959)
- 110 Tables with Notes on Rates of Birth, Death and Growth of Rural Population (Fifteenth Round : July 1959-June 1960)
- 111 Tables with Notes on Sample Survey of Manufacturing Industries, 1958 : Factory Establishments : Detailed Results
- 112 Tables with Notes on Land Utilisation Survey and Crop-cutting Experiments (Eighteenth Round : July 1962-June 1963)
- 113 Tables with Notes on Agricultural Holdings in Rural India (Sixteenth Round : July 1960-June 1961)
- 114 Tables with Notes on Employment and Unemployment in Rural Areas (Sixteenth Round : July 1960-June 1961)
- 115 Tables with Notes on Disposal of Cereals by Producer Households in Rural Areas (Fifteenth Round : July 1959-June 1960)
- 116 Tables with Notes on Family Planning (Sixteenth Round : July 1960-June 1961)
- 117 Tables with Notes on the Enquiry of Physically Handicapped Persons (Sixteenth Round : July 1960-August 1961)
- 118 Tables with Notes on the Annual Survey of Industries, 1961 : Sample Sector, Summary Results
- 119 Special study on Morbidity (Sixteenth Round : November 1960-October 1961)
- 120 Tables with Notes on Annual Survey of Industries 1962 : Sample Sector, Summary Results
- 121 Preliminary Estimates of Birth and Death Rates and of the Rates of Growth of Population (Eighteenth Round : February 1963-January 1964)
- 122 Tables with Notes on the Annual Survey of Industries, 1959, Sample Sector, (Detailed Results)
- 123 Tables with Notes on the Annual Survey of Industries, 1963, Sample Sector, (Summary Results)
- 124 Some Results of the Land Utilisation Survey and Crop-cutting Experiments (Eighteenth Round : July 1963-June 1964)
- 125 Technical Paper on Sample Design (Nineteenth Round : July 1964-June 1965)
- 126 Tables with Notes on Internal Migration (Fourteenth Round : July 1958-June 1959 & Fifteenth Round : July 1959-June 1960)
- 127 Tables with Notes on Urban Labour Force (Seventeenth Round : September 1961-July 1962)
- 128 Tables with Notes on Internal Migration (Rural) (Fourteenth Round - July 1958-June 1959)
- 129 Report on Pilot Enquiry on Morbidity (Seventeenth Round : September 1961-July 1962)
- 130 Tables with Notes on Professions and Liberal Arts (Eighteenth Round : February 1963-January 1964)
- 131 Tables with Notes on the Annual Survey of Industries 1960 : Sample Sector (Detailed Results)
- 132 Tables with Notes on the Annual Survey of Industries, 1964 : Sample Sector (Summary Results)
- 133 Some Results of the Land Utilisation Survey and Crop-cutting Experiments (Nineteenth Round : July 1964-June 1965)
- 134 Tables with Notes on Income of Rural Labour Households (Eighteenth Round : February 1963-January 1964)
- 135 Tables with Notes on Consumer Expenditure (Preliminary) (17th Round : September 1961-July 1962)
- 136* Tables with Notes on Capital Formation (Urban) (Seventeenth Round : September 1961-July 1962)
- 137 Tables with Notes on Housing Condition (Sixteenth Round : July 1960-August 1961)
- 138 Tables with Notes on Consumer Expenditure (Sixteenth Round : July 1960-August 1961)
- 139 Tables with Notes on the Annual Survey of Industries, 1961 : Sample Sector (Detailed Results)
- 140 Tables with Notes on Some Aspects of Agriculture in India (Rural) (Eleventh Round : August 1956-February 1957)
- 141 Tables with Notes on Household Consumption of Fuel and Light (Eighteenth Round : February 1963-January 1964)
- 142 Tables with Notes on Consumer Expenditure (Preliminary) (Eighteenth Round : February 1963-January 1964)
- 143 Tables with Notes on Indebtedness of Scheduled Tribe Households (Eighteenth Round : February 1963-January 1964)
- 144 Tables with Notes on some Aspects of Land Holdings in Rural Areas (State and All-India Estimates) (Seventeenth Round : September 1961-July 1962)
- 145 Tables with Notes on Income of Scheduled Tribe Households (Eighteenth Round : February 1963-January 1964)

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- 146 Tables with Notes on Housing Condition (Fifteenth Round : July 1959-June 1960)
- 147 Some Results of the Land Utilisation Survey and Crop-cutting Experiments (20th Round : July 1965-June 1966)
- 148 Report on Special Survey on Household Entrepreneurial Activities in Aligarh Town, 1959-60
- 149 Report on Pilot Study on Non-Household Enterprises (Nineteenth Round : February 1965-June 1965)
- 150 Tables with Notes on Housing Condition (Seventeenth Round : September 1961- July 1962)
- 151 Tables with Notes on Consumer Expenditure (Some Selected Items) (Eighteenth Round : February-June 1964)
- 152 Tables with Notes on Urban Labour Force (Eighteenth Round : February 1963-January 1964)
- 153* Differential Birth, Death and Infant Mortality Rates in Rural Households (Fifteenth Round : July 1959-July 1960)
- 154 Tables with Notes on Couple Fertility (Seventeenth Round : September 1961-July 1962)
- 155 Tables with Notes on Consumer Expenditure (Some Important Items) Eighteenth Round : February 1963-January 1964)
- 156 Tables with Notes on Rural Employment and Unemployment (Fifteenth Round : July 1959-June 1960)
- 157 Tables with Notes on Urban Employment and Unemployment (Fifteenth Round : July 1959-June 1960)
- 158* Tables with Notes on Consumer Expenditure of Scheduled Tribe Households (Eighteenth Round : June 1963-May 1964)
- 159* Tables with Notes on Some Aspects of Land Holdings in Rural India (Sixteenth Round : July 1960-June 1961)
- 160 Some Results the Land Utilisation Survey and Crop-cutting, Experiments, (Twenty-first Round : July 1966-June 1967)
- 161* Tables with Notes on the Annual Survey of Industries 1965: sample sector : Summary Results
- 162* Tables with Notes on Same Results of Land Holdings in Rural India (Seventeenth Round : September 1961— July 1962)
- 163 Tables with Notes on Urban Labour Force (Nineteenth Round : July 1964-June 1965)
- 164 Tables with Notes on A.S.I.—1962 sample Sector : Detailed Results.
- 165 Tables with Notes on Same Aspects of Land Holdings in Urban Areas, (17th Round : September 1961—July 1962)
- 166 Tables with Notes on Urban Labour Force, 20th Round : July 1965—June 1966.
- 167 Tables with Notes on Villages and Towns in India : Some Results, (19th Round : July 1964-June 1965)
- 168 Tables with Notes on the A.S.I.—1963, Sample Sector, : Detailed Results
- 169 Tables with Notes on Housing Condition of Scheduled Tribe Households (18th Round : June 1963-May 1964)
- 170 Tables with Notes on Housing Condition, (18th Round : February 1963-January 1964.)
- 171 Some Results Relating to Construction of Pucca Houses in Rural and Urban Areas (22nd Round July 1967-June 1968).
- 172 Tables with Notes on Indian Villages : Some Important Results (18th Round : February 1963-January 1964)
- 173 Tables with Notes on Employment and Unemployments in Rural and Urban Areas of India : (19th Round : July 1964-June 1966).
- 174 Tables with Notes on the A.S.I. 1966 Sample Sector : Summary Results.
- 175 Tables with Notes on Differential Fertility and Mortality Rates in India, (18th Round : February 1963:-Januray 1964)
- 176 Some Results of the L. U. S. and C. C. E. (22nd Round : July 1967-June 1968)
- 177 Vital Rates in India, (19th Round : July 1964-June 1965)
- 178 Tables with Notes on A.S.I.-1965, Sample Sector : Detailed Results
- 179 Tables with Notes on Consumer Expenditure (Preliminary)(19th Round : July 1964-June 1965)
- 180 Tables with Notes on the Fertility and Mortality Rates in Urban Areas of India, (16th Round : July 1960-August 1961)
- 181 Tables with Notes on Urban Labour Force, (21st Round : July 1966-June 1967)
- 182 Tables with Notes on Internal Migration (18th Round : February 1963-January 1964)
- 183 Tables with Notes on Post Census Survey of Livestock Numbers-1966 Rural Sector.
- 184 Tables with Notes on Consumer Expenditure (17th Round Sept. 1961-July 1962)
- 185 Age Pattern of marriages and Fertility of Couples (19th Round : July 1964-July 1965)
- 186 Tables with Notes on Differential Fertility and Mortality Rates in Rural and Urban Areas of India. (19th Round: July 1964-June 1965) (Integrated Household Survey, Schedule 17).

NOTE.—Report Nos. marked* are under print.