

~~ग्रहण~~  
DRAFT



सत्यमेव जयते

भारत सरकार

GOVERNMENT OF INDIA

राष्ट्रीय प्रतिदर्श सर्वेक्षण संगठन

NATIONAL SAMPLE SURVEY ORGANISATION

चौतीसवां दौर

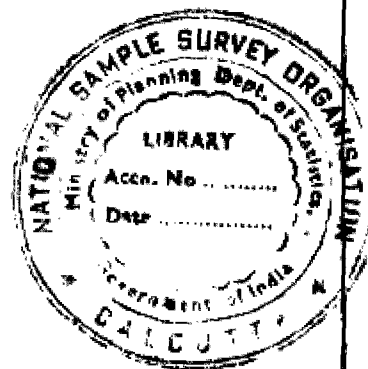
THIRTY FOURTH ROUND

जुलाई 1979—जून 1980

JULY 1979—JUNE 1980

संख्या 316

NUMBER 316



परिवहन-प्रासंगिक सेवाओं में गैर निर्देशिका  
अधिष्ठानों तथा स्वाधिकृत उपक्रमों पर  
टिप्पणियों सहित तालिकाएँ

TABLES WITH NOTES ON NON-DIRECTORY  
ESTABLISHMENTS AND OWN ACCOUNT ENTERPRISES  
IN SERVICES INCIDENTAL TO TRANSPORT

मार्च 1985

MARCH 1985

सांख्यिकी विभाग

DEPARTMENT OF STATISTICS

नई दिल्ली

NEW DELHI

## **Note of Caution**

Being the scanned copy of old NSS report, this document may suffer from following limitations -

- i. Poor Quality of the Scanned images.
- ii. Page(s) missing in between.
- iii. Improper sequencing/arrangement.

भारत सरकार  
GOVERNMENT OF INDIA

राष्ट्रीय प्रतिदर्श सर्वेक्षण संगठन  
NATIONAL SAMPLE SURVEY ORGANISATION

तीसरी दौर  
THIRTY FOURTH ROUND

जुलाई 1979 - जून 1980  
JULY 1979 - JUNE 1980

संख्या 316  
NUMBER 316

परिवहन-प्रासंगिक सेवाओं में गैर निदेशिका  
अधिष्ठानों तथा स्वामित्व उपभोग पर  
टिप्पणियों सहित तालिकाएँ

TABLES WITH NOTES ON NON-DIRECTORY  
ESTABLISHMENTS AND OWN ACCOUNT ENTERPRISES  
IN SERVICES INCIDENTAL TO TRANSPORT

मार्च 1985  
MARCH 1985

सांख्यिकी विभाग  
DEPARTMENT OF STATISTICS  
नई दिल्ली  
NEW DELHI

Errata to NSS Draft No. 316

1. The undernoted corrections to be incorporated as indicated :

Srl. no.	page	para	line	read	for
(1)	(2)	(3)	(4)	(5)	(6)
1	5	2.9	2	were	are
2	5	2.14	5	included	include s
3	8	3.3	3	7327	7574
4	8	<del>3.3</del>	6	5051	5054
5	8	3.3	8	10608	11353

2. The undernoted corrections to be incorporated in Table (3) at page 7 and Table (1 U) at page 12.

Srl. no.	page	table no.	col.	line	read	for
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	7	3	2	2	5051	5054
2	12	1 U	9	4	<b>1120.85</b>	indistinct figure
3	12	1 J	10	5	211.83	"

3. Read 'enterprises' for 'establishments' in (i) description of Table (0) on page 9 and (ii) in Table heading of Table (0) on page 10 and (iii) in column heading of columns (5) and (6) of Table(0) on page 10.

4. Read 'services incidental to transport "in place of ' hotels & restaurants' in the last but one line on page 16 and also in the first line on page 17.

5. Read '2.33B' instead of '2.42B' in the first line of para 11 on page 17 and also in the last but one line of para 11 on page 18.

NATIONAL SAMPLE SURVEY ORGANISATION

THIRTY FOURTH ROUND :

JULY 1979 - JUNE 1980

NUMBER 316

TABLES WITH NOTES ON NON-DIRECTORY ESTABLISH-  
MENTS AND OWN ACCOUNT ENTERPRISES IN SERVICES  
INCIDENTAL TO TRANSPORT

C O N T E N T S

<u>I</u> <u>T</u> <u>E</u> <u>M</u> <u>S</u>	<u>PAGES</u>
Section one : Introduction	1 - 3
Section two : Concepts and definitions	4 - 5
Section three : Summary results	6 - 8
Appendix I : Detailed tables	9 - 12
Appendix II : Sample design and estimation procedure	13 - 18
Appendix III : Facsimile of Schedule of investigation	19 - 23

NATIONAL SAMPLE SURVEY ORGANISATION  
THIRTYFOURTH ROUND : JULY 1979 - JUNE 1980

TABLES WITH NOTES ON NON-DIRECTORY ESTABLISHMENTS  
AND OWN ACCOUNT ENTERPRISES IN SERVICES  
INCIDENTAL TO TRANSPORT

SECTION ONE

INTRODUCTION

1.1 A survey on small scale enterprises in trade, hotels & restaurants, transport, storage & warehousing and service sector was carried out by the National Sample Survey Organisation in the thirtyfourth round of its survey from 1st July 1979 to 30th June 1980. This was a follow-up survey of the first Economic Census which was conducted by the Central Statistical Organisation during the last quarter of 1977. In the Economic Census some broad information about non-agricultural enterprises of the country was collected. As a follow-up of the Economic Census detailed sample surveys of small scale enterprises in (i) manufacture & (ii) trade, hotel & restaurant, transport, storage & warehousing and service sector were conducted by the NSSO respectively in the 33rd and 34th round of the NSS.

1.2 The survey in the 34th round of the NSS covered the entire geographical area of the Indian Union except Sikkim, Andaman & Nicobar Islands, Lakshadweep, Dadra & Nagar Haveli and the rural area of Nagaland. Two tehsils of district Surguja and four tehsils of district Bastar of Madhya Pradesh, three tehsil of district Chandrapur and one tehsil of district Amravati of Maharashtra and Ladakh district of Jammu & Kashmir were also not covered.

1.3 The Governments of all the States and Union Territories participating in the National Sample Survey programme participated in the survey by canvassing samples at least of equal size as the central sample in the respective States and Union Territories.

1.4 In the Economic Census enterprises were classified into two groups namely, (i) own account enterprises (OAE) i.e., enterprises without any hired worker and (ii) establishments i.e. enterprises with at least one hired worker. Establishments having hired workers were further classified into two categories namely, (a) non-directory establishments (NDE) i.e. establishments with total number of workers including household worker, if any, 5 or less and annual output/turnover/receipt less than Rs.1,00,000 and (b) directory establishments (DE) i.e., establishments with 6 or more workers and/or annual output/turnover/receipt Rs.1,00,000 or more. The survey conducted by the NSSO in the thirtyfourth round was restricted to non-directory establishments and own account enterprises in trade, hotel & restaurant, transport, storage & warehousing and service sector. The enquiry for the directory establishments was covered by a separate survey conducted by the C.S.O. during October 1979 to September 1980. Government and public sector enterprises were kept out of the purview of the survey.

1.5 The basic design for the survey was a two-stage stratified one with enumeration block (EB) formed during the Economic Census as the first stage units (f.s.u) and enterprises as the ultimate units of enumeration. In each sample f.s.u. enterprises which had operated for atleast 30 days (or 15 days for seasonal enterprises) during the last 365 days and existed on the date of survey formed the frame for selection of enterprises. A sample of own account enterprises and non-directory establishments in trade, hotel and restaurants, transport, storage & warehousing and service sector was selected for the detailed enquiry in each sample EB.

1.6 Transport enterprise means rendering transport service to others as a business proposition. It includes the act of carrying passengers and/or goods from one place to another. Supporting services incidental to transport such as packing, freighting, travel agency also fall under transport enterprises. All activities covered by NIC <sup>a/</sup> major group 70-73 of NIC division 7

---

a/ National Industrial Classification (NIC)-1970, issued by C.S.O.

constitute transport activities. In this round for the transport sector under survey coverage three different schedules were canvassed namely, Schedule 2.31B for mechanised passenger and goods transport, Schedule 2.32B for non-mechanised passenger and goods transport and Schedule 2.33B for services incidental to transport. NIC group 700 - railway transport and NIC major group 72 - air transport were kept out of the coverage of the Survey.

1.7           The report is based on the data collected in Schedule 2.33B canvassed in the Central Sample for non-directory establishments and own account enterprises engaged in (i) pipeline transport (NIC code 707); (ii) supporting services to land transport like operation of high-way bridges, toll roads, vehicular tunnels, parking lots etc. (NIC code 708); (iii) supporting services to water transport like operation and maintenance of piers, docks, pilotage, light houses, loading and discharging of vessels etc. (NIC code 712) and (iv) services incidental to transport, such as packing, crating, travel agency etc. (NIC code 730). It gives number of non-directory establishments & own-account enterprises, estimated employment, earnings, expenditure and operating surplus at all-India level separately by rural & urban sectors. Section Two gives concepts and definitions used in the survey and Section Three presents summary findings of the survey. Appendix-I gives the statistical tables. A note on sample design and estimation procedure is given in Appendix-II. The facsimile of the schedule of investigation is given in Appendix-III.



## SECTION TWO

### CONCEPTS AND DEFINITIONS

2.1 Some of the important concepts and definitions followed in the survey are given below.

2.2 Enterprise : An enterprise was an undertaking engaged in production and/or distribution of some goods and/or services not for the sole purpose of domestic consumption and carried out by members of a household/institutional body by hiring outside labour or not. An enterprise might be owned and operated by a single household, or by several households jointly on a partnership basis, or by an institutional body.

2.3 Own Account Enterprises : An enterprise which was operated without any hired worker was called an own-account enterprise. Household members, if paid, were treated as hired workers and such enterprises were not treated as own account enterprises.

2.4 Establishment : An enterprise with atleast one hired worker on a fairly regular basis was called an establishments. A directory establishment was one which had six or more workers (including both household and hired) and/or whose annual output/turnover/receipts was Rs. one lakh or more. On the other hand an establishment having less than six workers and annual output/turnover/receipt less than Rs. one lakh was termed a non-directory establishment.

2.5 Services incidental to transport enterprises : This included enterprises engaged in (i) pipeline transport (NIC code 707); (ii) supporting services to land transport like operations of highway bridges, toll roads, vehicular tunnels, parking lots etc. (NIC code 708); (iii) supporting services to water transport like operation and maintenance of piers, docks, pilotage, light-houses, loading and discharging of vessels etc. (NIC code 712) and (iv) services incidental to transport such as packing, crating, travel agency etc. (NIC code 730).

2.6 Proprietary : When an individual was the sole owner of the enterprise type of ownership was proprietary.

2.7 Partnership : Where there were two or more owners of the enterprise on a partnership basis, with or without formal registration, type of ownership of the enterprise was categorised as partnership.

2.8 Institutional Ownership : When the enterprise was owned by a private limited company or a public limited company or a co-operative society, etc., the ownership was called institutional.

2.9 Hired staff : This included primary workers as well as supervisory and clerical staff. Apprentices paid or unpaid are also included.

2.10 Not hired staff : This included working proprietors, unpaid family workers and co-operative members.

2.11 Total emoluments : This comprised of salaries, wages and allowances etc., bonus paid, value of benefits provided to individuals, imputed value of group benefits in kind and employers' contribution to social security and other payments.

2.12 Rent on fixed assets : It was the rent payable for the reference year for assets hired by the enterprise.

2.13 Interest on loan : Interest payable on outstanding loan, if any, for the reference year was taken as interest on loan.

2.14 Total expenditure : This consisted of total emoluments paid, rent on assets not owned by the enterprise, interest on loan and repair and maintenance expenditure incurred on building and other assets like transport equipments, tools and appliances etc. It includes also expenses incurred on services purchased from other concerns and also expenses on stationary, postage, bank and legal charges etc.

2.15 Total receipts : Total earnings from the services offered by the enterprise including fees, commission and other receipts were taken as total receipts.

2.16 Operating surplus : Total receipts minus total expenditure was taken as operating surplus.

2.17 Value added : Total emoluments, rent for assets not owned and interest on loan when added to operating surplus was value added.

SECTION : THREE  
SUMMARY RESULTS

3.1 Table 1 presents estimated number of enterprises by (i) type of ownership of enterprise and (ii) enterprise type at all-India level separately by sectors.

Table (1) : Estimated number of enterprises by (i) type of ownership and (ii) enterprise type by sectors - all India, NSS-34th round : July 1979 - June 1980.

description (1)	estimated number of enterprises		
	rural (2)	urban (3)	total (4)
<u>type of ownership</u>			
1.1 non-institutional (proprietary + partnership)	6957	11691	18648
1.2 institutional	45	241	286
1.3 all	7002	11932	18934
<u>enterprise type</u>			
2.1 OAE	5307	6083	11390
2.2 NDE	1695	5849	7544
2.3 all	7002	11932	18934

From item 1.3 of the table it is seen that at all-India level there were 18934 enterprises of which 7002 were located in rural sector and 11,932 in urban sector i.e. about 37 pc and 63 pc of the enterprises were located respectively in the rural and urban sectors. From columns (2) & (3) it is seen that a small fraction of the enterprises, nearly  $\frac{1}{2}$  of 1 pc of the enterprises, in the rural sector & 2 pc of the enterprises in the urban sector were institutional, the residual being non-institutional. From items 2.1 - 2.3 of the table it is seen that in the rural sector of 7002 enterprises, 5307 were OAE & 1695 were NDE i.e. about 24 pc of the enterprises were nondirectory establishments, the residual being own account enterprises. In the urban sector, however, of the total number of 11932 enterprises, 5849 enterprises, constituting 52 pc of the enterprises were non-directory establishments.

3.2 Table 2 below shows estimated total employment by enterprise type at all India level separately by sectors.

Table (2) : Estimated employment by enterprise type by sectors all-India, NSS-34th round : July 1979 - June 1980.

enterprise type	estimated employment		
	rural	urban	total
(1)	(2)	(3)	(4)
1.1 OAE	5498	9152	14650
1.2 NDE	4618	17259	21877
1.3 all	10116	26411	36527

From item 1.3 of the table it is seen that at all-India level total employment in services incidental to transport was 36,527 of which 10116 was contributed by the rural sector and 26411 by the urban sector. In terms of employment therefore about 72 pc was claimed by the urban sector and residual 28 pc by the rural sector.

3.3 Table 3 below presents annual operating surplus per enterprise by enterprise type at all India separately by sectors.

Table (3) : Annual operating surplus per enterprise by enterprise type by sectors - all India, NSS-34th round, July 1979- June 1980.

enterprise type	annual operating surplus Rs.		
	rural	urban	total
(1)	(2)	(3)	(4)
1.1 OAE	2860	4173	3562
1.2 NDE	5054	10609	9360
1.3 OAE + NDE	3391	7327	5871

From items 1.1 - 1.3 of the table it is seen that operating surplus per establishments in the rural, urban and sectors combined for OAE & NDE combined were Rs.3391, Rs.7574, and Rs.5871 respectively. In the rural sector per enterprise operating surplus for OAE and NDE were respectively Rs.2860 and 5054. Similarly in the urban sector per enterprise operating surplus for OAE and NDE were respectively Rs.4173 and Rs.11353. It is seen that per enterprise operating surplus for OAE in the urban sector was about one and half times the corresponding estimate for the rural sector. Similarly for NDE per enterprise operating surplus in the urban sector was more than double the corresponding estimate for the rural sector. Aggregate annual operating surplus for OAE + NDE combined at all-India level, generated from number of enterprises and per enterprise operating surplus, for the rural, urban and sectors combined were Rs. 2.37 crores, Rs. 8.74 crores and Rs. 11.13 crores respectively. At all-India level the urban sector claimed a major share, viz about 78 pc of total annual operating surplus.

Appendix - I

List of Tables

---

table number	description of tables
(1)	(2)
table (O)	Number of sample enumeration blocks (EBs) and number of sample establishments surveyed in services incidental to transport by rural and urban sectors by states and all India
table (IR)	Per enterprise estimated values of employment, total emoluments, rent on fixed assets, interest on loan, total expenses, total receipts, operating surplus and value added by NIC Groups separately by enterprise type : all-India - rural
table (IU)	Per enterprise estimated values of employment, total emoluments, rent on fixed assets, interest on loan, <del>income</del> total expenses, total receipts operating surplus and value added by NIC Groups separately by enterprise type : all-India - urban

---

Table (9): Number of sample enumeration blocks (EBs) and number of sample establishments surveyed in services incidental to transport by rural and urban sectors by states, NSS 34th round, July 1979 - June 1980.

Srl. no.	state/U.T.	sample EBs surveyed		sample establishments surveyed	
		rural	urban	rural	urban
(1)	(2)	(3)	(4)	(5)	(6)
1.	Andhra Pradesh	424	724	10	42
2.	Assam	323	291	-	14
3.	Bihar	631	902	-	18
4.	Gujarat	267	512	-	16
5.	Haryana	68	216	1	3
6.	Himachal Pradesh	210	135	5	7
7.	Jammu & Kashmir	494	127	2	1
8.	Karnataka	220	577	3	51
9.	Kerala	389	246	5	39
10.	Madhya Pradesh	430	927	3	73
11.	Maharashtra	408	1126	5	123
12.	Manipur	70	92	-	-
13.	Meghalaya	124	116	-	-
14.	Nagaland	-	44	-	-
15.	Orissa	303	247	3	5
16.	Punjab	151	394	1	20
17.	Rajasthan	295	510	2	65
18.	Tamil Nadu	320	987	20	205
19.	Tripura	64	104	-	-
20.	Uttar Pradesh	746	1436	33	30
21.	West Bengal	316	683	1	14
22.	Arunachal Pradesh	120 <sup>a/</sup>	10	1	-
23.	Chandigarh	4	11	-	-
24.	Delhi	8	180	-	3
25.	Goa, Daman & Diu	16	30	-	9
26.	Mizoram	101	19	-	-
27.	Pondicherry	12	36	-	2
28.	All-India	6661	10662	100	787

NR : <sup>a/</sup> Clusters of EBs.

National Sample Survey, 34th Round : July 1970 - June 1980

Table (1.R): Per enterprise estimated values of employment, total emoluments, rent on fixed assets, interest on loan, total expenses, total receipts, operating surplus and value added by NIC groups separately by enterprise type : all-India - rural

NIC Group	type of enterprise	no. of sample enterprises	estimated no. of enterprises	employment per enterprise (0.00)			per enterprise value (0.00) of						
				hired	not hired	total	total emoluments	rent on fixed assets	interest on loan	total expenses	total receipts	operating surplus	value added
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
703	OAE	1	111	-	2.00	2.00	-	900.73	-	992.80	3575.93	2583.09	3483.82
	NDE	9	15	1.13	0.80	1.93	3489.07	322.40	40.53	7810.00	13405.07	5595.07	9247.07
	Comb.	10	126	0.13	1.36	1.99	415.37	891.40	4.83	11004.37	4746.03	2841.66	4253.26
730	OAE	14	5196	-	1.02	1.02	-	1226.21	-	3132.10	5993.14	2066.04	4092.25
	NDE	76	1630	1.51	1.22	2.73	2693.74	1120.90	3.38	6590.53	11836.98	5046.40	6080.42
	Comb.	90	6876	0.37	1.07	1.44	658.15	1200.47	2.05	3977.10	7375.86	3390.76	5259.45
all	OAE	15	5307	-	1.04	1.04	-	1219.40	-	3027.35	5947.43	2380.13	4079.53
	NDE	85	1695	1.51	1.21	2.72	2700.77	1118.25	3.31	6532.25	11534.00	5051.26	6790.93
	Comb.	100	7002	0.37	1.08	1.45	653.78	1194.91	2.10	3933.00	7328.54	3390.54	5241.34

Note : 707 pipeline transport  
708 supporting services to land transport like operations of highway bridges, toll roads, parking lots etc.  
712 supporting services to water transport like operation and maintenance of piers, docks, pilotage etc.  
730 services incidental to transport.



Table (1.V): Per enterprise estimated values of employment, total emoluments, rent on fixed assets, interest on loan, total expenses, total receipts, operating surplus and value added by NIC groups separately by enterprise type : all-India - urban

NIC group	type of enterprise	no. of sample enterprises	estimated no. of enterprises	employment per enterprise (0.00)			per enterprise value (0.00) of						
				hire	not hired	total	total emoluments	rent on fixed assets	interest on loan	total expenses	total receipts	operating surplus	value added
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
707	OAE	-	-	-	-	-	-	-	-	-	-	-	-
	NDE	1	21	1.00	1.95	2.95	1584.76	2377.14	-	4318.48	6834.29	2515.81	6477.71
	Comb.	1	21	1.00	1.95	2.95	1584.76	2377.14	-	4318.48	6834.29	2515.81	6477.71
708	OAE	12	3375	-	1.44	1.44	-	1189.85	-	2043.35	5906.22	3862.87	4992.72
	NDE	116	641	1.80	0.90	2.70	4223.81	1969.15	211.83	11726.50	16749.56	5023.07	11427.86
	Comb.	128	1016	1.74	1.10	2.24	2664.82	1659.37	133.65	8152.50	12747.36	4594.85	9052.69
712	OAE	-	-	-	-	-	-	-	-	-	-	-	-
	NDE	3	81	1.02	1.02	2.04	2962.64	406.83	-	4155.63	13855.43	9699.80	13069.27
	Comb.	3	81	1.02	1.02	2.04	2962.64	406.83	-	4155.63	13855.43	9699.80	13069.27
730	OAE	79	5708	-	1.51	1.51	-	733.55	9.47	2128.81	6322.67	4193.86	4936.88
	NDE	576	5106	1.98	1.02	3.00	4587.62	1806.78	66.78	10164.38	21517.00	11352.62	17813.80
	Comb.	655	10814	0.94	1.28	2.21	2166.12	1240.29	36.53	5922.93	13496.91	7573.98	11016.92
all	OAE	91	6083	-	1.50	1.50	-	757.98	8.89	2123.54	6296.99	4173.45	4940.32
	NDE	696	5849	1.95	1.00	2.95	4516.00	1807.85	81.54	10234.87	20842.84	10607.97	17013.36
	Comb.	787	11932	0.95	1.26	2.22	2213.34	1272.53	44.49	6098.98	13426.04	7327.07	10857.43

APPENDIX - - -

SAMPLE DESIGN AND ESTIMATION PROCEDURE

1. Basic design : The sample design in both rural and urban areas was a stratified two stage one with enumeration blocks (EBs) of economic census being first stage units and enterprises in sample EBs being second stage units.
2. Stratification : There were 73 regions all over India (excluding areas not covered by NSS). These regions were formed within a state/union territory except in Gujarat by grouping contiguous districts of similar agricultural profile. In Gujarat, regions were formed by grouping contiguous tehsils taking into consideration the concentration of tribal population and dry areas of the state. Each district was treated as a stratum except in Gujarat where parts of a district belonging to different regions were treated as different strata.
3. Sampling frame : The enumeration blocks (EB) formed during 1977 Economic Census showing the number of DE and NDE for the different industries for each EB were used as sampling frame for the selection of EBs, the first<sup>stage</sup> units of sampling. However, due to non-availability of EC-frame, NSS frame was used as the sampling frame for the urban areas of Jharkhand and 1971 census list of villages was used as sampling frame for rural areas of Chandigarh.
4. Sub-stratum : All the EBs in each district/stratum were divided into 2 sub-strata. Sub-stratum 1 consisted of all EBs having at least one DE/or NDE in any of the 4 industries namely, (i) trade, (ii) hotel and restaurant, (iii) transport and (iv) storage and warehousing. Residual EBs constituted sub-stratum 2. However, in rural areas of Gujarat, 3 sub-strata were formed by sub-dividing sub-stratum 2 in two parts, viz. EBs not having any DE or NDE in any of the 4 industries specified above but containing at least one DE and/or NDE in any of the remaining industries covered by the Economic Census constituted sub-stratum 2 and the residual EBs constituted sub-stratum 3.

5. Allocation : The total sample size of enumeration blocks for the state/union territory was fixed on the basis of the number of investigators available for the survey in the state. The total number of sample EBs in a state or union territory was allocated to the rural and urban sectors of the districts in proportion to total number of directory and non-directory establishments in the four industries (viz. trade, hotel and restaurant, transport, and storage and warehousing) in the respective districts and sectors. District-wise sample size was distributed between sub-stratum 1 and 2 approximately in the ratio 5 : 1, separately for the rural and urban sectors.

6. Selection of EBs : Sample EBs were selected from sub-stratum 1 with probability proportional to total number of DE + NDE under the industries namely, (i) trade, (ii) hotel and restaurant, (iii) transport, and (iv) storage and warehousing with replacement. From sub-stratum 2 sample EBs were selected at random.

7. Sub-division of EBs : Normally each sample EB was completely surveyed. But where the EB population exceeded 1,000 or number of DE + NDE exceeded 200, the EB was sub-divided into two or more sub-blocks of nearly equal population or DE + NDE content and the survey was confined to one of the sub-blocks selected at random.

8. Sampling of enterprises : There were 11 schedules of enquiry for the different enterprises under survey coverage as :

<u>Schedule type</u>	<u>enterprise type</u>
1. 2.31B	mechanised passenger & goods transport - NDE & OAE
2. 2.32B	non-mechanised passenger & goods transport - NDE & OAE
3. 2.33B	services incidental to transport - NDE & OAE
4. 2.34B	storage & warehousing - NDE & OAE
5. 2.41B	trade - NDE & OAE

<u>Schedule type</u>	<u>enterprise type</u>
6. 2.42B	hotel & restaurant - NDE & OAE
7. 2.51B	OAE in service sector
8. 2.52B	other recognized education non-directory establishment
9. 2.53B	non-Govt. medical and health non-directory establishment.
10. 2.54B	community & non-commercial cultural non-directory establishment
11. 2.55B	non-directory establishment in service sector other than education, medical, health, community & non-commercial cultural services.

In each sample EB all the OAEs eligible for sch. 2.51B were surveyed. Also in each EB a maximum of 12 NDEs were surveyed. Further in each EB 3 OAEs other than OAEs eligible for sch. 2.51B were surveyed. In EBs having no eligible NDEs, OAEs were surveyed.

NDE : When total number of NDE eligible for survey exceeded 12 in an EB, 12 sample NDEs were distributed over different schedule types as follows. First, one NDE was allotted to each schedule type. Next, one more was allotted to each schedule of type in the priority order/schedules 2.51B, 2.52B, 2.53B, 2.54B, 2.55B, 2.53B, 2.55B, 2.41B and 2.42B until the total number of sample NDEs became 12. This procedure was repeated as many times as warranted to arrive at 12 sample NDEs. Circular systematic sample of NDEs was selected independently from each schedule type.

OAE : A circular systematic sample of 3 or 5 OAEs, as required, was selected taking all the schedule types (excepting schedule 2.51B) together.

nd/-

Central sample

9. Sample size : At all-India level in the/6996 rural and 11245 urban EBs were surveyed.

Estimation Procedure

10. Notations : The following notations are used for obtaining various estimates.

- r : subscript for region.
- s : subscript for district/stratum
- s<sub>1</sub> : subscript for sub-stratum 1 of a district/stratum
- s<sub>2</sub> : subscript for sub-stratum 2 of a district/stratum
- s<sub>3</sub> : subscript for sub-stratum 3 of a district/stratum.  
(for Gujarat - rural areas only)
- t : subscript for non-directory enterprises (DAE)
- t<sub>1</sub> : subscript for own-account establishments (OAE)
- i<sub>1</sub> : subscript for sample enumeration block (EB) in sub-stratum 1
- i<sub>2</sub> : subscript for sample enumeration block (EB) in sub-stratum 2
- i<sub>3</sub> : Subscript for sample enumeration block (EB) in sub-stratum 3 (for Gujarat - rural areas only)
- j : subscript for enterprise/establishment.
- z : size of an EB
- Z : total size of a district/stratum
- D : number of sub-blocks actually formed in an EB
- n : number of EBs surveyed
- H : total number of NDEs in the EB/sub-block
- L : total number of OAE other than schedule 2.51B in the EB/sub-block
- a : number of NDEs surveyed in the EB/sub-block
- l : number of OAEs other than schedule 2.51B surveyed in the EB/sub-block
- k : number of districts/strata in a region.

$H_{s_1 i_1 t_1} / H_{s_2 i_2 t_1}$  = no. of NDEs in hotel & restaurants listed in the i-th sample block of sub-stratum 1/sub-stratum-2

- $\frac{h_{s_1 i_1 t_1}}{h_{s_2 i_2 t_2}}$  = no. of NDEs in hotel & restaurants surveyed in the  $i$ -th sample block of sub-stratum 1/sub-stratum 2.
- $\frac{L_{s_1 i_1 t_2}}{L_{s_2 i_2 t_2}}$  = total number of CAEs (other than OAEs eligible for schedule 2.51B) listed in the  $i$ -th sample block of sub-stratum 1/sub-stratum 2
- $\frac{l_{s_1 i_1 t_2}}{l_{s_2 i_2 t_2}}$  = total number of OAEs (other than OAEs eligible for schedule 2.51B) surveyed in the  $i$ -th sample block of sub-stratum 1/sub-stratum 2

11. The estimation procedure adopted for schedule 2.42B is described below. In the following  $Y$  stands for the estimate of the state total of the characteristic  $y$  based on the whole sample. To obtain  $Y$ , the estimates of  $Y_{s_1}$  and  $Y_{s_2}$  of the characteristic  $y$  for sub-stratum 1 and sub-stratum 2 respectively are to be prepared.

$$Y_{s_1} = \frac{Z_{s_1}}{n_{s_1}} \sum_{i_1=1}^{n_{s_1}} \frac{D_{s_1 i_1}}{z_{s_1 i_1}} (l_{s_1 i_1 t_1} + y_{s_1 i_1 t_2})$$

and  $Y_{s_2} = \frac{Z_{s_2}}{n_{s_2}} \sum_{i_2=1}^{n_{s_2}} \frac{D_{s_2 i_2}}{z_{s_2 i_2}} (l_{s_2 i_2 t_1} + y_{s_2 i_2 t_2})$

where  $Y_{s_1 i_1 t_1} = \frac{H_{s_1 i_1 t_1}}{h_{s_1 i_1 t_1}} \sum_{j=1}^{h_{s_1 i_1 t_1}} y_{s_1 i_1 t_1 j}$

$$Y_{s_1 i_1 t_2} = \frac{L_{s_1 i_1 t_2}}{l_{s_1 i_1 t_2}} \sum_{j=1}^{l_{s_1 i_1 t_2}} y_{s_1 i_1 t_2 j}$$

$$Y_{s_2 i_2 t_1} = \frac{L_{s_2 i_2 t_1}}{L_{s_2 i_2 t_1}} \sum_{j=1}^{h_{s_2 i_2 t_1}} Y_{s_2 i_2 t_1 j}$$

and

$$Y_{s_2 i_2 t_2} = \frac{L_{s_2 i_2 t_2}}{L_{s_2 i_2 t_2}} \sum_{j=1}^{h_{s_2 i_2 t_2}} Y_{s_2 i_2 t_2 j}$$

Then,

$$Y_s = Y_{s_1} + Y_{s_2}$$

and

$$Y = \sum_{r=1}^c \sum_{s=1}^c Y_s$$

It may be noted that values of  $h$  and  $h'$  relate to the schedule 2.42B only but the values of  $L$  and  $L'$  are for all the CAE (other than schedule 2.51B) schedules combined.

12. For Gujarat (rural areas only),

$$Y_s = Y_{s_1} + Y_{s_2} + Y_{s_3}$$

and

$$Y = \sum_{r=1}^k \sum_{s=1}^k Y_s$$

The value of  $Y_{s_2}$  is to be obtained using the relation for  $Y_{s_2}$  given in para 11.

13. Estimates of Ratios : Estimates of ratios of two characteristics are given by the ratio of the estimates of aggregates of the items appearing in the numerator and the denominator of the ratio. First the aggregates of the two characteristics are to be estimated at the level required and the ratios are to be computed at the final stage as  $R = \frac{Y}{X}$ , where  $R$ ,  $X$  and  $Y$  are the estimates of the ratio and aggregates of two characters  $x$  and  $y$  respectively.

A P P E N D I X III

FACSIMILE OF SCHEDULE OF INVESTIGATION



CENTRAL-1\*  
STATE-2  
AUGMENTED-3

GOVERNMENT OF INDIA

ORIGINAL\*  
DUPLICATE

NATIONAL SAMPLE SURVEY ORGANISATION

SOCIO-ECONOMIC SURVEY

Schedule 2.33B : Services incidental to transport non-directory establishments and own account enterprises

RURAL-1\*  
URBAN-2

HOUSEHOLD 1/\*  
OTHER 2

THIRTYFOURTH ROUND 79-80

<u>1</u> identification particulars of enterprise/establishment			
1. serial number		12. tehsil	
2. zone-state-region		13. C.D. Block	
3. stratum		14. village/town	
4. sub-stratum		15. E.B. identiy (ward no./E.B. no.)	
5. sub-sample		16. hamlet group / sub-block no.	
6. sample village/E.B.no.		17. house no.	
7. sub-round		18. name of owner/operator	
8. enterprise type (code)		19. name of enterprise	
9. sample enterprise no.		20. name of informant	
10. state		21. informant's relation to owner/operator (code)	
11. district		22. response (code)	

Code list for Block 1.

Item 8 : enterprise type : non-directory establishment-2,  
own account enterprise-3.

Item 21: informant's relation to owner/operator. owner-1, manager-2,  
relative of owner-3, others-4.

Item 22: response code : cooperative respondent-1, difficult respondent-2  
very difficult respondent-3, non-response-4, substitute-5.

\* Delete whichever is not applicable.

tkb/

[2] particulars of field work					
i t e m		inves- tigator	asstt. supdt.		supdt.
			field supervision	table scrutiny	
(1)		(2)	(3)	(4)	(5)
1.	Name				
2.	date(s) of				
(i)	survey/Inspection			x	x
(ii)	receipt				
(iii)	scrutiny	x			
(iv)	duplication		x	x	x
(v)	despatch				
3.	signature				
[3] details of enterprise					
1.1 name of enterprise/owner					
1.2 address					
1.3 if branch enterprise, address of main office					
2.1 description of activity					
2.2 NIC code					
3. type of ownership					
4. accounting year from to					
5. social group code					

CODE LIST FOR BLOCK - 3

Item 2.2 NIC code : pipeline transport-707; Supporting services to land transport like operations of high way bridges; toll roads; vehicular tunnels, parking spots etc, - 708; Supporting services to water transport like operation and maintenance of piers, docks, pilotage light house loading and discharging of vessels etc.-712. Services incidental to transport such as packing, crating travel agency etc.-730.

Item 5. social  
group

Schedule tribe-1, scheduled caste-2, neo-buddhist-3,  
others-4.

Sch. 2.33(B)

[4] average employment during last year			
i t e m		average number of persons per working day	
(1)		(2)	
1.	h i r e d		
2.	not hired		
3.	t o t a l		
[5] receipts and expenditure during last year			
i t e m	amount (Rs.)	i t e m	amount (Rs.)
(1)	(2)	(1)	(2)
		<u>expenditure</u>	
1.	<u>receipts</u> fees and commission	4.	salaries wages, allowances etc. including retirement benefit, social benefit and other benefit of staff
2.	receipts for services provided	5.	rent for assets not owned
3.	t o t a l	6.	interest on loan
		7.	building
		8.	other assets
		9.	other operational expenditure
		10.	total expenditure (items 4 to 9)
		11.	operating surplus (items 3 - item 10)
		12.	value added (items 11+4+5+6)

[6] remarks by Investigator

[7] comments by Supervisory Officer