

## PREFACE

The Employment Market Information Programme of Directorate General of Employment & Training is one of the major sources of the Labour Market Data. As a part of this Programme “Occupational-Educational Profile studies” are conducted in Public and Private Sectors in alternate years. This enquiry covering **Public Sector** is the 26<sup>th</sup> in this series. This report attempts to present a comprehensive study of data on the occupational pattern of employees. It is hoped that information contained in this report will strengthen the data base for the use of manpower planners and functionaries in the fields of Education, Training, Vocational Guidance, Career Planning, and Occupational Research etc.

2. I am grateful to Directors of Employment & their officials of EMI Units at Employment Exchanges in various States/UTs for their cooperation and active involvement in collecting, coding and processing occupational returns for the study.

3. I would wish to Place on record my appreciation of the work accomplished by Shri Yogesh Raizada, Joint Director of Employment Exchanges & the officers & staff of EMI (OP) Section & Data Processing Unit under the over all supervision and guidance of Shri P.K. Ray, Dy. Director General (Employment) in systematic data collection, compilation, analysis and presenting an analytical report in the publication.

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## HIGHLIGHTS

This report presents occupational pattern, its analysis and educational profile of employees in the public sector as on 30<sup>th</sup> September, 2002. It is based on data collected through the occupational and educational pattern enquiry in respect of the public sector establishments coming under the purview of the Employment Market Information (EMI) programme. Of the 1,58,338 public sector establishments borne on the Employers' Register of Employment Exchanges in different states and Union Territories, 1,15,775 i.e. 73.1 percent had responded to this occupational pattern enquiry . Some salient features of the occupational pattern and structure of educational qualifications of employees as observed from this enquiry are as follows: -

- (i) Clerical and related workers constituted the single largest occupational category accounting for 31.6% of the total employment. Professional, technical and related workers had the second largest share of 28.6% of the employees. Production and related workers and transport equipment operators and labourers followed closely claiming 21.1% of the total employment.
- (ii) Amongst the professional, technical and related workers, a major portion 51.3 percent was teachers. The engineering and medical personnel shared 16.7% and 13.8% respectively in respect of this group.
- (iii) Women employment in public sector has been steadily increasing since 1970 and as on 30<sup>th</sup> Sept. 2002 women employees constituted about 15 percent of the total employment in public sector.
- (iv) Most of the women employees were Professional, technical and related workers and among them 59.2% were teachers particularly in Primary and middle schools. Clerical and related workers constituted the second largest group at 24.4%.
- (v) In the States of Karnataka, Kerala, Maharashtra, Rajasthan, Tamilnadu & Uttar Pradesh more than 1 lakh women were employed in each State.
- (vi) Among the Engineers, 56.1 percent of the Civil Engineers, 47.1 percent of the Mechanical Engineers, 63.4 percent of the Electrical & Electronics Engineers and 56.8 percent of the Chemical Engineers were degree holders in engineering.
- (vii) About 98.2 percent of the Allopathic Physicians and Surgeons were possessing a degree in Medicine. Nurses and Mid-wives & Health Visitors mostly had Diploma.

- (viii) Among the production and related workers only 0.1% had degree in Engineering. 83.8 percent of the workers, however, did not have any degree, diploma or Certificates.
- (ix) Industry-wise dispersion of the 97.57 lakh employees revealed that mainly (about 49.8%) the employees were in Community, Social and Personal Services followed by Transport, Storage and Communications (14.2% ) and Financing, Insurance, Real Estates & Business Services (8.5%).
- (x) Among the Administrative, Executive and Managerial workers largest number 44.9% were employed in Financing, Insurance, Real Estate and Business Services, followed by 29.9% in Community, Social and Personal services.
- (xi) 90.8% of Physicians and Surgeons and 94.2 percent of nursing and other medical and health technicians were employed in Community, Social and Personal Services.
- (xii) The community, social and personal services had the largest proportions of all clerical workers also, except book keepers and cashiers, who were dominant in the financing, insurance, real-estate and business services. However, clerks, stenographers and typists were represented in all other industry segments, with varying proportion.
- (xiii) Branch-wise classification of employment showed that 14.9% of employees were in Central Government, 39.6% in State Government, 14.2% in Quasi Government (Central), 20.5% in Quasi Government (State) and 10.8% in Local Bodies.

# CHAPTER 1

## GENERAL INTRODUCTION

### Background

**1.1** Employment Exchanges under the Employment Market Information (EMI) programme have been collecting in a systematic manner, information on the employment market situation in the country for different industries, occupations, and areas in accordance with ILO convention (No.88) concerning the organisation of employment service. The programme covers the organised sector of economy which includes: -

- (i) All establishments in public sector (except Defence establishments and Armed forces);
- (ii) Non-agricultural establishments in private sector employing 25 or more persons on a compulsory basis and establishments having 10-24 workers on a voluntary basis.

**3.10a** (1.10 lakh), Rajasthan (1.13 lakh), Tamil Nadu (3.41 Lakh), and Uttar Pradesh (1.09 Lakh). The data reveals that of the 14.67 lakh women employees, 50.3 percent were holding professional, technical and related jobs.

The data on the public sector establishments and those non agricultural establishments in the private sector employing 25 or more workers are collected under the provisions of Employment Exchanges (Compulsory Notification of Vacancies) Act, 1959.

**1.2** The occupational information is collected from the establishments in the public and private sectors in alternate years for the purpose of studying the occupational pattern of the employees. With the expansion of education and training in the field of science, engineering, technology and allied disciplines, the need for data on educational pattern of the employees has assumed considerable importance. Keeping this in view, a beginning was made in 1966 to collect educational details as an integral part of occupational pattern study. Thus the scope of the Occupational Employment Market Information was enlarged to cater to the growing needs for more detailed data.

**1.3** The Directorate General of Employment & Training (DGET) under the Ministry of Labour and Employment has been bringing out, at the National level, reports on occupational & educational pattern of the employees based on the occupational details collected under the EMI Programme. The present report relating to the public sector 2002 is the 26th in the series of occupational pattern enquiries.

**1.4** The occupational pattern of the employees in the organised sector is considered useful in various ways for Manpower Planners, Researchers, Educational Authorities, Employment Services, Vocational Guidance Officers, Career Counsellors, Training Institutes, Job-seekers, Trade Unions and employers of various industrial establishments.

## **1.5 Objective of the study**

The occupational pattern study concerns the count of persons employed in different occupations into various economic activities. The focus of this enquiry is on: -

- (a) To study the proportion of employment in each category of occupations
- (b) To identify occupational pattern of individual industry and services
- (c) To study the profile of educational and technical qualifications of employees, in each occupation.

## **1.6 Plan of Report**

In the following paragraphs, the concept of occupation and education, the system of occupational and industrial classification (adopted for identification and distribution of occupational spectrum) and distribution between occupation and education are presented. The procedure for collecting the educational and occupational details, and the response to the study are discussed. Chapter II and III deal with the occupational pattern of employees in general and women in particular in the public sector. Chapter IV examines educational pattern of employees in public sector. Chapter V is devoted to the occupational pattern in different industries. The occupational pattern of employees in different branches of public sector is dealt in Chapter VI.

## **1.7 Concept of Occupation**

An Occupation can be defined as a group of jobs having common or closely related duties and responsibilities occurring in representative establishments in the country the performance of which required similar skills, knowledge and abilities. A person performing usual type of work in an economic activity is generally known as white-collar or blue-collar worker. White collar workers include professional, technical, administrative, executive, managerial, clerical and sales workers. Blue-collar workers include craftsmen, production workers, operators and labourers.

**1.8** Occupational pattern studies conducted by DGE&T provide data on occupational distribution of white collar and blue collar workers as well as owners, proprietors, working partners or Directors of Firms, who are engaged on full time basis in the establishments. It does not cover self employed, part-time employees, agricultural and allied occupations in the Private Sector, household establishments, establishment employing less than 10 workers in the private sector and Defence forces.

## **1.9 System of Occupational & Industrial Classification.**

The concept of an occupation is related to what an individual is doing, whereas the concept of an industry is concerned with what all the individuals collectively, in one establishment (or an area) are doing. A common device for identification and distribution of occupations performing various functions in one industry or a cluster of different industries is the system of National Classification of Occupations (NCO) where as identification of economic activity into different kinds of industry is known as the system of National Industrial Classification (NIC). These two classifications i.e NCO and NIC are based on international standard nomenclature and techniques, adopted in the country in the light of local requirements. The numerical codes as listed in these occupational and industrial classification systems (NCO 1968 and NIC 1987) have been widely used in the analysis of occupational data presented in this report.

## **1.10 Distinction between occupation & education**

Employment in any occupation in a specific industry depends upon various parameters. An occupation involves certain range of responsibility in its functions which also requires certain education/training/ experience. There is , therefore, a positive co-relation between occupation and education. There are exceptions where we get imbalances between the educational requirement of an occupation and the actual education possessed by the incumbent in that occupation. For example a person may be trained or educated in one area of speciality, but actually working in another field. Similarly, a person may not have any educational qualification but by virtue of experience or expertise may perform duties of an occupation which requires sufficient educational background. The occupational pattern studies give insight regarding the job held and educational and technical qualification possessed by the employees.

## **1.11 Method of data collection**

The field survey was conducted by the State Directorates of Employment through their network of employment exchanges. The data were collected in ER.II forms through mail enquiry method. Each of the establishments appearing in the employers register maintained by the employment exchanges was sent a request together with a blank form for getting it filled and submitting to the employment exchange. The employment exchanges consolidated the data for the establishments located in their respective jurisdiction and sent the area-wise consolidated statements to the DGE&T through Director of Employment of the State for further State-wise and all India consolidation and for carrying out detailed occupational and educational studies.



### **1.12 Data on Educational Pattern**

In pursuance of the recommendations of the Technical Advisory Committee on Statistics on Employment and Unemployment it was decided to collect educational data in respect of all the employees under this study. It was also recommended by the same Committee that the information on educational qualification of all the employees cross-classified by industries, might be collected once in six years. In the present report, educational/technical profile have been collected in respect of all categories of occupations. In recording the professional and technical qualifications of employees the following criteria was adopted: -

- (i) Employees possessing professional or other technical qualifications were codified according to the highest qualifications and their general qualifications were ignored;
- (ii) If an employee possesses two different types of professional/technical qualifications only the relevant qualification pertaining to his occupation was codified;
- (iii) Employees who did not possess professional/technical qualification, but working in Professional/Technical occupations were codified as per their general qualifications.

### **1.13 Data Processing**

The filled in questionnaires were received in the DGE&T through the State Directorates of Employment after these were scrutinized and coded by the concerned Employment Exchanges. In order to maintain consistency and accuracy in the numerical codes and details, scrutiny and checking of codes etc. were also carried out at the State Directorate level before they were sent to DGE&T. In DGE&T the returns were further scrutinized to make these uniform for all the States and UTs. The returns were processed through Computer Centre of DGE&T and necessary tables generated.

### **1.14 Response**

Despite the statutory provision on the collection of occupational data of all establishments in the public sector, a number of them did not respond. The percentage of non-response was high from the establishments belonging to Central Govt. & State Govt. (Quasi). The total number of establishments on the employers' register who were addressed and their response rates are given below in table 1.1

**TABLE 1.1**  
**Degree of Response in Public Sector 2002**

Classification of establishments							
S No.	Item	Central Govt.	State Govt.	Central Govt. Quasi	State Govt. Quasi	Local Bodies	Total
1	2	3	4	5	6	7	8
1	No. of establishments on Employers' Register (30-09-2002)	7,283	79,413	39,826	18,807	13,009	1,58,338
2	No. of establishments responding to the study	4,590	58,254	29,842	13,253	9,836	1,15,775
3.	Percentage of response	63.0	73.4	74.9	70.5	75.6	73.1
4.*	Employment in the responding establishments as on 30.09.2002 (in lakh)	14.51	38.68	13.87	19.97	10.53	97.57

\* Totals may not necessarily tally due to rounding off.

**1.15** It may be seen that the response rate for the present survey ranged between 63% to 75%. The highest response was from Local Bodies and lowest was in Central Govt. The percentage of response varied from State to State, the details of which are given in APPENDIX II. In Haryana, Rajasthan and Tamil Nadu the response was above 90%. The response in Andhra Pradesh, Chhatisgarh, Himachal Pradesh, Karnataka, Kerala, Manipur, Uttar Pradesh, Uttranchal and Chandigarh was between 70% to 90%. The response from Orissa (34.3%), Naga Land (26.3%), Delhi (23.9%) and Bihar (15.3%) were very poor.

### **1.16 Limitation of the data.**

The non-response factor discussed above is an important limitation of the data besides other factors like:-

- (a) Frame of establishments (employers' register maintained by the Employment Exchange) being not up-to-date.
- (b) Data furnished by some of the establishment might have not been in correct form and contained full details.
- (c) Chances of incorrect classification of data by one or more Classificatory characteristics i.e. industry, occupation and education also affected the quality of the data.

**The analysis of occupational composition and educational profile of employees presented in the subsequent chapters of this report is based on the available data under the enquiry. No secondary data or information has been used with a view to presenting a comparative occupational structure. Readers may evaluate the results of this enquiry keeping in view the above limitations and that of the coverage of the establishments under the EMI Programme. It may also be kept in view that 73.1% of the public sector establishments responded to the present enquiry, and the data presented relate only to these responding establishments. No attempt has been made to estimate the characteristics for the non-responding establishments. However, since the non-responding establishments are distributed at random the occupational composition of the non-responding establishments is not likely to be different from that of the responding establishments.**

## CHAPTER-II

### OCCUPATIONAL PATTERN OF EMPLOYEES

**2.1** The data emanating from this study reflects the occupational pattern of employees in the Public Sector at the end of September, 2002. These occupational data are available in respect of 97.57 Lakh employees (i.e. in respect of employees in the responded establishments) in the Public Sector. Annexure IV presents a detailed distribution of employees by occupations, classified according to 1,2, & 3-digit code of the National Classification of Occupations. The pattern of public sector employment in 2002 by occupational divisions shows that 28.6 percent were professional, technical and related workers, 31.6% were clerical and related workers, 21.1 percent were classified as production and related workers, 12.2 percent as service workers and the remaining were sales workers, farmers, fishermen, hunters, loggers and related workers. Table 2.1 presents a comparative picture of occupational employment in public sector between 1996 and 2002.

**TABLE 2.1**

#### Employment in Public Sector by Broad Occupational Divisions (1996 and 2002)

Sl. No.	NCO Code	Occupational Division	Employment (in lakhs) as on 30 <sup>th</sup> September	
			1996	2002
1	2	3	4	5
1	0-1	Professional, technical and related workers	28.28 (28.5)	27.90 (28.6)
2	2	Administrative, executive & managerial workers	3.91 (3.9)	4.02 (4.1)
3	3	Clerical & related workers	31.26 (31.6)	30.85 (31.6)
4	4	Sales workers	0.40 (0.4)	0.39 (0.4)
5	5	Service workers	11.94 (12.1)	11.91 (12.2)
6	6	Farmers, fishermen, hunters, loggers and related workers	1.87 (1.9)	1.96 (2.0)
7	7,8&9	Production and related workers, transport equipment operators and labourers	21.41 (21.6)	20.54 (21.1)
<b>TOTAL</b>			<b>99.07</b> <b>(100.0)</b>	<b>97.57</b> <b>(100.0)</b>

Note: Figures in brackets are percentages to total against all occupations.

**2.2** The analysis of the data on the distribution of employees within the occupational divisions, is given separately in the following paragraphs with a view to presenting proportionate composition of individual occupations, occupational groups etc.

### **2.2.1 Professional, technical and related workers**

Table 2.2. presents the distribution of some selected categories of professional, technical and related workers in the public sector as on 30<sup>th</sup> September 2002.

**TABLE 2.2**  
**Distribution of Professional, Technical and related workers by different categories**

Sl. No.	Occupational Category	No. of employees (in thousand)	Percentage to total
1	2	3	4
1	Accountants and Auditors	150.9	5.4
2	Engineering personnel	464.2	16.7
3	Life scientists and life science technicians	60.8	2.2
4	Medical personnel	386.2	13.8
5	Physical scientists and physical science technicians	29.6	1.1
6	Social scientists and related workers	167.7	6.0
7	Teachers	1431.5	51.3
8	Others	98.6	3.5
<b>TOTAL</b>		<b>2789.5</b>	<b>100.0</b>

Teachers comprised the largest single group among the professional, technical and related workers followed by Engineering and Medical Personnel. Out of 2789.5 thousand employees under this category, about 51.3 percent were teachers. About 16.7 percent were engineers and about 13.8 percent were medical personnel. About 18.2 percent employees belonged to the other categories like accountants, auditors, life scientists, technicians, physical scientists, physical science technicians, social scientists and related workers and others.

### **2.2.2 Engineering personnel**

Though engineers and engineering technicians are two distinct levels yet they are designated as engineering personnel. The distribution of these personnel by various disciplines is given in Table 2.3

**TABLE 2.3****Distribution of Engineering Personnel by disciplines**

Sl. No.	Description of engineering discipline	No. of employees (in thousands)		Percentage to total	
		Engineers	Technicians	Engineers	Technicians
1	2	3	4	5	6
1	Chemical	2.6	2.3	1.4	0.8
2	Civil	75.9	54.7	41.9	19.3
3	Electrical & Electronics	43.5	42.7	24.0	15.1
4	Mechanical	31.6	54.2	17.4	19.2
5	Metallurgical	0.2	5.8	0.1	2.1
6	Mining	4.1	12.3	2.3	4.3
7	Others (Architects, Technologists, Surveyors etc.)	23.4	110.9	12.9	39.2
<b>TOTAL</b>		<b>181.3</b>	<b>282.9</b>	<b>100.0</b>	<b>100.0</b>

It is observed from the table that highest among the engineers were Civil Engineers followed by Electrical and Electronics Engineers. Architects, Technologists, Surveyors etc. constituted the single largest occupational group amongst the categories of engineering technicians followed by Civil Engineering Technicians.

**2.2.3 Medical, Para Medical Personnel & Health Technicians**

Table 2.4 presents the distribution of medical, para medical personnel and health technicians in the public sector as revealed by 2002 enquiry. It may be seen from the table that out of 386.2 thousand employees, as many as 145.7 thousand (37.7%) were classified as Dental Surgeons, Dieticians, Physiotherapists, Medical & Health Technicians. Nurses and Midwives & Health Visitors constituted the second and third largest groups having percentage distribution as 18.1 and 12.5 respectively.

**TABLE 2.4**  
**Distribution of Medical, Para Medical Personnel and Health Technicians**

Sl. No.	Category of Personnel	No. of employees (in thousand)	Percentage distribution
1	2	3	4
1	Midwives and Health Visitor	48.1	12.5
2	Nurses	69.7	18.1
3	Pharmacists	31.4	8.1
4	Physicians & Surgeons (Allopathic)	36.1	9.4
5	Physicians & Surgeons (Ayurvedic)	7.8	2.0
6	Vaccinators	10.0	2.6
7	Veterinarians	16.7	4.3
8	Veterinary Assistants	16.3	4.2
9	X-Ray Technicians	4.4	1.1
10	Others (Dental Surgeon, Dietician, Physiotherapist, Medical and Health Technicians, Scientific, Medical and Technical persons others)	145.7	37.7
<b>TOTAL</b>		<b>386.2</b>	<b>100.0</b>

#### 2.2.4 Teachers

Table 2.5 presents the distribution of teachers according to level of teaching Institutions. It may be seen that out of 1431.5 thousand employees, 63.9 percent were primary and middle school teachers, 26.3 percent were Higher Secondary and Secondary school teachers and 5.2 percent were University and College teachers. Only 4.6 percent of the employees were pre-primary, craft and other teachers.

**TABLE 2.5**  
**Distribution of Teachers According to Levels of Teaching Institutions**

Sl. No.	Level	No. of employees (in thousand)	Percentage to total
1	2	3	4
1	University and College Teachers	74.0	5.2
2	Higher Secondary /Secondary School Teachers	375.9	26.3
3	Primary and Middle Teachers	915.2	63.9
4	Pre-Primary Teachers	11.3	0.8
5	Craft Teachers	35.1	2.4
6	Others	20.0	1.4
<b>TOTAL</b>		<b>1431.5</b>	<b>100.0</b>

### 2.3 Administrative, Executive and Managerial Workers

Table 2.6 gives the distribution of administrative, executive and managerial workers.

**TABLE 2.6**  
**Distribution of Administrative, Executive and Managerial Workers**

Sl. No.	Occupation	No. of employees (in thousand)	Percentage to total
1	2	3	4
1	Administrative and Executive Officials in Government & Local Bodies	<b>166.7</b>	<b>41.5</b>
	(a) Central Government	13.9	3.5
	(b) State Government	95.2	23.7
	(c) Quasi Government	43.9	10.9
	(d) Local Bodies	12.9	3.2
	(e) Others (Govt. & Local Bodies)	0.8	0.2
2	Directors and Managers in Financial Institutions	<b>171.0</b>	<b>42.6</b>
3	Other Administrative, Executive and Managerial Workers (Mining, Manufacturing, Construction, Trade and Services)	<b>64.1</b>	<b>15.9</b>
<b>TOTAL</b>		<b>401.8</b>	<b>100.0</b>

The data reveal that out of 401.8 thousand employees as many as 166.7 thousand employees were working for the Govt. and Local Bodies and between them about 23.7 percent were employed in the State Govt., 10.9 percent in Quasi Govt., 3.5 percent in Central Government and 3.2 percent in Local Bodies. A micro analysis of occupational composition of this group reveals that 41.5 percent of them were administrative and executive officials in Government & Local Bodies. 42.6 percent were Directors and Managers in the financial institutions and the remaining 15.9 percent were other administrative, executive and managerial workers engaged in mining, manufacturing, construction, trade and services.

### 2.4 Clerical and related workers

There were approximately 30.85 lakh clerical and related workers in public sector in 2002. Their distribution by broad occupational categories is indicated in table 2.7. The data presented in this table reveals that 27.4 percent employees were in the occupational group of office attendants (Peon, Daftry etc.), 24.8 percent were clerical & related workers (Misc.) and 17.2 percent were clerical supervisors, superintendents, head clerks and office assistants.



**TABLE 2.7**  
**Distribution of Clerical and Related Workers**

Sl. No.	Occupation	Number of employees (in thousand)	Percentage to total
1	2	3	4
1	Book Keepers, Cashiers and Related Workers	285.8	9.3
2	Clerical Supervisors, Superintendents, Head Clerks, Office Assistants	530.6	17.2
3	Clerical and related workers (Misc.)	764.4	24.8
4	Computing Machine Operators	16.1	0.5
5	Mail Distributors and related workers	172.2	5.6
6	Office Attendants (Peon, Daftry etc.)	846.5	27.4
7	Stenographers, Typists, Card & Tape Punching Machine Operators	109.6	3.6
8	Telephone and Telegraph Operators	35.5	1.1
9	Transport & Communication Supervisors, Distributors and Village Officials and others	324.5	10.5
<b>TOTAL</b>		<b>3085.2</b>	<b>100.0</b>

## 2.5 Service Workers

In 2002, the service workers in public sector accounted for 12.2 percent. Their further distribution among different categories is presented in Table 2.8.

**TABLE 2.8**  
**Service Workers**

Sl. No.	Occupation	No. of employees (in thousand)	Percentage to total
1	2	3	4
1	Building caretakers, cleaners & sweepers	332.6	27.9
2	Cooks, Waiters, Bartenders & related workers	97.4	8.2
3	Fire fighters	25.0	2.1
4	Maids and other house keeping service workers	39.1	3.3
5	Policemen and Detectives	434.2	36.5
6	Watchmen, Chowkidars	180.3	15.1
7	Other protective service workers	46.6	3.9
8	Other Service workers	35.4	3.0
<b>TOTAL</b>		<b>1190.6</b>	<b>100.0</b>

27.9 percent of the total service workers were classified as building caretakers, cleaners and sweepers, 36.5 percent were policemen and detectives and 15.1 percent were watchmen and chowkidars. The percentages in respect of the remaining categories of service workers were, however, insignificant.

## 2.6 Production Workers

According to the enquiry, there were 20.54 lakh employees in this occupational division. The distribution of these employees according to main occupational groups is presented in table 2.9.

**TABLE 2.9**  
**Production Workers, Transport Equipment Operators and Labourers**

Sl. No.	Occupation	No. of employees (in thousand)	Percentage to total
1	2	3	4
1.	Blacksmiths, tool makers and machine operators	47.7	2.3
2.	Bricklayers and construction workers	47.2	2.3
3.	Electrical fitters and related Electrical & Electronic workers	296.7	14.5
4.	Food and beverage processors	20.5	1.0
5.	Labourers (other)	587.6	28.6
6.	Miners, Quarrymen, Well Drillers & related workers	180.4	8.8
7.	Metal processors	17.0	0.8
8.	Machinery fitters, assemblers and precision instrument makers	183.8	9.0
9.	Material handling equipment operators	38.0	1.9
10.	Plumbers, welders, sheet metal workers etc.	33.4	1.6
11.	Printing and related workers	22.8	1.1
12.	Spinners & Weavers etc.	48.2	2.4
13.	Stationary engine operators, oilers, greasers etc.	97.0	4.7
14.	Transport Equipment operators	356.2	17.3
15.	Carpenters, Cabinet and related wood workers	13.3	0.6
16.	Other production workers	64.1	3.1
<b>TOTAL</b>		<b>2053.9</b>	<b>100.0</b>

Among the production workers, contribution of labourers (others) is the maximum (28.6%). Transport Equipment Operators is the second largest group (17.3%) followed by Electrical Fitters and related Electrical and Electronic Workers (14.5 %).

## CHAPTER-III

### OCCUPATIONAL PATTERN OF WOMEN EMPLOYEES

**3.1** The employment of women respectively in public sector and private sector for the year 1970-2002 and 1969-99 as revealed from the occupational pattern enquiries is given below in Table 3.1

**TABLE 3.1**  
**Employment of women in Public Sector and Private Sector (only occupational data)**

Year	Public Sector		Year	Private Sector	
	Employment of women  (in lakh)	%age change		Employment of women  (in lakh)	%age change
1	2	3	4	5	6
1970	6.16	..	1969	9.01	..
1972	6.53	(+) 6.0	1971	9.04	(+) 0.3
1974	7.92	(+)21.3	1973	9.07	(+) 0.3
1978	9.70	(+)22.5	1977	9.87	(+) 8.8
1982	9.75	(+) 0.5	1979	9.89	(+) 0.2
1984	11.12	(+)14.1	1983	9.22	(-) 6.8
1992	11.62	(+) 4.5	1985	8.22	(-)10.9
1996	14.43	(+)24.2	1991	10.25	(+)24.7
2002	14.67	(+) 1.7	1999	12.81	(+)25.0

It may be observed from the data given in the above table that the employment of women in the public sector has been reflecting an increasing trend and the employment of women in the private sector also maintained such rise except for the occupational pattern enquiries in the year 1983 and 1985.

#### **Women's employment by broad occupational division**

**3.2** Appendix-IV presents details of occupational distribution of all women employees classified as per occupational code classification of NCO at two and three digits. The broad occupational composition of women employees in the **Public Sector** at divisional level is presented in table 3.2.

**TABLE 3.2**  
**Occupational Pattern of Women Employees 2002**

NCO Code	Occupational Division	No. of Women Employees (in '000)	%age to all occupations	Total Employment (in'000)	%age of women to total employment
1	2	3	4	5	6
0&1	Professional, Technical & related workers	738.7	50.3	2789.5	26.5
2	Administrative, executive and managerial workers	21.8	1.5	401.8	5.4
3	Clerical and related workers	358.0	24.4	3085.2	11.6
4	Sales workers	3.3	0.2	39.2	8.4
5	Service workers	231.8	15.8	1190.6	19.5
6	Farmers, fishermen, hunters Loggers and related workers	11.0	0.8	196.5	5.6
7,8&9	Production and related workers, Transport Equipment operators and labourers	102.5	7.0	2053.9	5.0
<b>All Occupations</b>		<b>1467.1</b>	<b>100.0</b>	<b>9756.7</b>	<b>15.0</b>

It may be seen from the above table that the maximum number of women employees (7.39 lakhs) or 50.3 percent were in occupational division comprising of professional, technical and related workers. 3.58 Lakh women employees were clerical and related workers. Service workers constituted 2.32 lakh. 1.03 lakh were production and related workers, transport equipment operators and labourers. The proportion of women in other categories was however, insignificant. In the occupational division consisting of Professional, Technical and related workers, women accounted for 26.5% of total employment in the same Occupational Division.

### **3.3 Professional, technical and related workers**

The distribution of women employees among professional, technical and related workers is presented in table 3.3.

**TABLE 3.3**  
**Women employees in professional and technical occupations**

Sl. No.	Occupational Category	No. of Women employees	Percentage distribution
1	2	3	4
1	Engineering personnel	14,191	1.9
2	Medical personnel	1,62,888	22.1
3	Physical scientists and Physical science technicians	2,217	0.3
4	Social Scientists and other related workers	94,771	12.8
5	Teachers	4,37,117	59.2
6	Others	27,475	3.7
<b>TOTAL</b>		<b>7,38,659</b>	<b>100.0</b>

It may be seen from the above table that most of the women were employed as teachers followed by Medical personnel and social scientists and other related workers. The proportion of employees in other categories were quite less as compared to the total workers employed in the above mentioned three categories. The analysis of data on the distribution of women employees by various occupational categories follows: -

### Teachers

**3.3.1** As a large percentage of women employees was accounted for by teachers, it would be interesting to identify the teaching branches in which women teachers were highly concentrated. Table 3.4 presents the distribution of women teachers according to teaching branches.

**TABLE 3.4**  
**Distribution of Women Teachers by Teaching Branches**

Sl. No.	Teaching Branch	No. of Women Teachers	Percentage to total
1	2	3	4
1	Craft teachers	7,720	1.8
2	Pre-Primary school teachers	10,002	2.3
3	Primary and Middle school teachers	2,92,916	67.0
4	Higher Secondary/Secondary school teachers	1,06,182	24.3
5	University and College teachers	15,802	3.6

6	Others	4,495	1.0
<b>TOTAL</b>		<b>4,37,117</b>	<b>100.0</b>

Data in the above table reveals that 67 percent women were engaged in the primary and middle schools. 24.3 percent were Higher Secondary and Secondary School teachers. The women teachers in other branches were only 8.7 percent.

### Medical Personnel

3.3.2 Table 3.5 shows the distribution of women employees according to medical and para medical occupations.

**TABLE 3. 5**  
**Women employees in Medical and Para Medical occupations**

Sl. No.	Occupational Category	No. of Women employees	Percentage to total
1	2	3	4
1	Midwives and Health Visitors	40,956	25.2
2	Nurses	55,234	33.9
3	Physicians and Surgeons	13,247	8.1
4	Others (Dietician, Pharmacist, Physiotherapist, Medical and health technicians.	53,451	32.8
<b>TOTAL</b>		<b>1,62,888</b>	<b>100.0</b>

Of the 1,62,888 women employees, 33.9 percent were employed as Nurses and 25.2 percent as midwives and Health Visitors. The Physicians and Surgeons constituted only 8.1 percent. 32.8 percent were employed as Dieticians, Pharmacists, Physiotherapists, Medical and health technicians

### Engineering and other professional workers

3.3.3 The distribution of women employees by occupational categories reflects a vary small number of women engineers in the public sector as compared with other categories of women workers. Only 14,191 women employees were enumerated as engineers and engineering technicians. Like wise, the number of Physical Scientists and Physical Science Technicians (2,217) was rather a small representation in total employment in such occupational groups.

### Administrative, Executive and Managerial Workers

**3.4** There were about 21.8 thousand women employees in administrative, executive and managerial occupations in the public sector.

### **Clerical and related workers**

**3.5** The clerical and other related jobs held by women workers is another more obvious feature of women employment as reflected by the data given in table 3.6.

**TABLE 3.6**

#### **Women Clerical Workers**

SL. No.	Occupational Category	No. of Women Employees	Percentage distribution
1	2	3	4
1	Book Keepers, Cashiers and related workers	45,160	12.6
2	Clerical Supervisors and Superintendents, Head Clerks, Office Assistants	61,364	17.1
3	Clerical and related workers (Misc.)	1,12,167	31.3
4	Office Attendants	86,785	24.3
5	Stenographers, Typists, Card and Tape Punching Machine Operators	30,677	8.6
6	Telephone and Telegraph Operators	6,814	1.9
7	Others	14,986	4.2
<b>TOTAL</b>		<b>3,57,953</b>	<b>100.0</b>

The data presented in the above table show that the clerical and related workers (Misc.) contributed 31.3 percent of the total number of women employed under clerical category. 24.3 percent were office attendants, 17.1 percent were clerical supervisors, 12.6 percent were book keepers, cashiers and related workers, and 8.6 percent were engaged as stenographers, typists, card and tape punching machine operators.

### **Sales Workers**

**3.6** The occupational division sales workers comprising 3.3 thousand women is very small in relation to the total employment in public sector. The tabulated data reveals that there has not been any rapid growth in employment of women sales workers, over the years.

## Service Workers

3.7 Service sector is a traditional source of women employment. As would be seen from table 3.7, of the 2,31,850 women service workers, 44.3 percent of them were in the building caretakers and related workers category, 24.7 percent were cooks, waiters, bartenders and related workers. 14.4 percent were maids and house keeping service workers, 8.3 percent were protective service workers.

**TABLE 3.7**

### Women Service Workers

Sl. No.	Occupational Category	No. of women employees	Percentage distribution
1	2	3	4
1	Building caretakers and related workers	1,02,784	44.3
2	Cooks, waiters, bartenders and related workers	57,170	24.7
3	Maids and related house keeping service workers (not elsewhere classified)	33,434	14.4
4	Protective service workers	19,306	8.3
5	Others	19,156	8.3
<b>TOTAL</b>		<b>2,31,850</b>	<b>100.0</b>

## Farm and related workers

3.8 The number of farm and related women employees in public sector was negligible. Of the 10965 thousand women employees, 5,126 were classified as plantation labourers and related workers and 3,127 other farm workers. This indicated that there was not much employment potential for women to work as farmers, fishermen, hunters, loggers and related workers.

## Production and related workers

3.9 In all 102.5 thousand women were classified as production and related workers in public sector as on 30<sup>th</sup> September, 2002. Distribution of these workers according to occupational categories is presented in table 3.8



**TABLE 3. 8**  
**Distribution of women production and related workers**

SL. No.	Occupational category	No. of Women employees	Percent distribution
1	2	3	4
1	Blacksmiths, toolmakers and machine tool workers	1,867	1.8
2	Bricklayers and other construction workers	2,024	2.0
3	Chemical processors and related workers	261	0.3
4	Electrical fitters and related electrical and electronic workers	3,851	3.8
5	Food and beverage processor	1,034	1.0
6	Machinery fitters, machine assemblers and precision instrument makers	2,166	2.1
7	Material handling related equipment operators, loaders and unloaders	720	0.7
8	Miners, quarrymen, well drillers and related workers	2,911	2.8
9	Printing and related workers	1,216	1.2
10	Spinners, weavers, knitters, dyers and related workers	1,990	1.9
11	Tailors, dress makers, sewers, upholsters and related workers	508	0.5
12	Labourers	80,971	79.0
13	Others	3,017	2.9
<b>TOTAL</b>		<b>1,02,536</b>	<b>100.0</b>

It has been observed that 79 percent of women employees were labourers. 3.8 percent were Electrical Fitters & related Electrical and electronic workers.

**3.10** Major occupations in which women were found to have been engaged in large number (5000 or more) are listed in table 3.9 showing against each their total employment and indicating against each proportion of women in total number of employees in the specified occupations.

**TABLE 3.9**  
**Share of women in selected occupations**

SL. No.	Occupational Category	No. of Women (in thousand)	Proportion of women in occupational Category
1	2	3	4
1	Physicians and surgeons allopathic	6.9	19.1
2	Nurses	55.2	79.2
3	Midwives and health visitors	41.0	85.2
4	Nursing, Sanitary and other medical health technicians	50.0	37.4
5	Accountants and auditors	11.6	7.7
6	Labour, social welfare and political workers	90.5	62.0
7	Teachers, University and college	15.8	21.4
8	Teachers, higher secondary and secondary schools	106.2	28.2
9	Teachers, Middle schools	106.8	34.4
10	Teachers, Primary	186.1	30.8
11	Teachers, Pre-Primary	10.0	88.3
12	Teachers Craft	7.7	22.0
13	Athletes, Sportsmen & related workers	5.6	20.1
14	Professional workers n.e.c.	7.2	15.6
15	Administrative & Executive officials State Govt.	7.0	7.3
16	Directors & Managers bank	7.5	5.0
17	Clerical supervisors, office superintendents, head clerks, senior clerks	11.0	8.8
18	Ministerial and office assistants	44.5	14.4
19	Stenographer and steno-typists	13.8	25.1
20	Typists	16.2	31.6
21	Book keepers and accounts clerk	41.9	17.4
22	Clerks General	108.0	16.0
23	Office attendants (peon, daftry etc.)	86.8	10.2
24	House keepers, Matrons & Stewards	17.7	80.1
25	Cooks & cook bearers	56.2	62.4
26	Ayahs, Nurse, Maids	33.0	88.4
27	Sweepers, cleaners and related workers	100.0	31.8
28	Policemen and detectives	8.2	1.9
29	Watchmen, Chowkidars, Gate keepers	6.7	3.7
30	Labourers	81.0	13.8

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**3.11** Appendix – VI presents the State /UT-wise occupational distribution (one digit) of 14.67 lakh women employees in public sector establishments. The States where more than One Lakh women were employed are Karnataka (1.62 Lakh), Kerala (1.25 Lakh), Maharashtra (1.10), Rajasthan (1.13 lakh), Tamil Nadu (3.41 Lakh), and Uttar Prade3sh (1.09 Lakh). The data reveals that of the 14.67 lakh women employees, 50.3 percent were holding professional, technical and related jobs.

## CHAPTER –IV

### EDUCATIONAL PATTERN OF EMPLOYEES

- 4.1** Collection of information on the educational/training levels actually possessed by various employees in organised sector has been an integral part of the occupational pattern study under the EMI Programme. Information on educational, professional and technical qualification of employees in varied nature of fields and in different organisations is considered very useful in developing future plans of education, training and employment for manpower planning. A brief analysis is presented in this chapter to show the structure of education of employees.
- 4.2** The educational data were processed through a system of alphabetic codes. The code structure of educational qualifications may be seen at Appendix-VII. Some important features revealed by the data are described in the following paragraphs.

#### Professional, Technical and related workers

#### 4.3 Engineers

The educational/training levels attained by employees in the four principal branches of engineering are shown in Table 4.1.

**TABLE 4.1**  
**Educational Pattern of Engineering Personnel (in percentages)**

SL. No.	Educational Level	Civil	Mechanical	Electrical & Electronics	Chemical
1	2	3	4	5	6
1	Degree in Engineering	56.1	47.1	63.4	56.8
2	Diploma in Engineering	32.7	38.5	22.6	28.6
3	Graduate and Post graduate in Science	2.2	4.8	4.7	9.0
4	Graduate and Post graduate	3.4	3.6	2.5	1.2

	(others)				
5	Certificate in Engineering trade	5.1	3.7	3.6	3.0
6	Others	0.5	2.3	3.2	1.4
<b>TOTAL</b>		<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

The data indicated in the above table reveal that 56.1 percent Civil Engineers, 47.1 percent Mechanical Engineers, 63.4 percent Electrical and Electronics Engineers and 56.8 percent Chemical Engineers were Degree holders.

#### 4.4 Scientific Personnel

42 percent of the Chemists had general qualification in Science i.e. Graduate or Post Graduate whereas Agronomists and Agricultural scientists in 59.1 percent cases had Graduate or Post-Graduate qualification in Technical or Professional Subjects. The details are given in the following table: -

**TABLE 4.2**  
**Percentage distribution of Chemists and Agronomists by educational level**

Sl. No.	Educational Level	Chemists (excluding Pharmaceutical Chemists)	Agronomists & Agricultural Scientists
1	2	3	4
1	Graduates & Post graduates in technical/professional subjects	39.1	59.1
2	Diploma holders in technical/ professional subjects	6.8	11.1
3	Graduates & post graduates in science	42.0	13.0
4	Graduates & post graduates, others (including law & commerce)	1.6	12.5
5	Certificate holders	2.9	0.9
6	Others	7.6	3.4
<b>TOTAL</b>		<b>100.0</b>	<b>100.0</b>
<b>No. of employees</b>		<b>5,509</b>	<b>33,922</b>

#### 4.5 Medical Personnel

All the Allopathic physicians and surgeons employed in Public sector were possessing graduate or post-graduate degrees in technical/professional subjects. Among the Veterinarians as

many as 64.6 percent were graduate or post-graduate degree holders in technical/professional subjects whereas 32.4 percent were diploma holders . Most of the nurses, mid-wives and health visitors had diploma in the subjects. The percentage distribution of these personnel is shown in table 4.3.

**TABLE 4.3**

**Percentage distribution of Doctors, Veterinarians, Nurses and Midwives by educational level**

Sl. No.	Educational Level	Physicians & Surgeons Allopathic	Veterinarians	Nurses	Mid-wives & Health visitors
1	2	3	4	5	6
1	Graduates & post graduates in Technical/professional subjects	100.0	64.6	-	-
2	Diploma holders in technical/ Professional subjects	-	32.4	91.3	36.0
3	Certificate holders	-	3.0	8.7	28.7
4	Graduates & post graduates in science	-	-	-	9.7
5	Graduates & post graduates, Others (including law & commerce)	-	-	-	-
6	Others	-	-	-	25.6
<b>TOTAL</b>		<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>No. of employees</b>		<b>36,148</b>	<b>16,670</b>	<b>69,726</b>	<b>48,060</b>

**4.6 Administrative, Executive and Managerial workers**

The percentage distribution of administrative, executive and managerial workers by educational qualifications is given in Table 4.4. It may be seen from the table that among the working proprietors, Directors and Managers, mining, construction, manufacturing and related concerns working in Government and other local bodies, 50.1% were possessing degree in technical or professional subjects. Administrative and executive officials, working proprietors, Directors and Managers in wholesale and retail trade had mostly degree in other subjects and Science. Similar is the case for the Directors and Managers of financial Institutions.

**TABLE 4.4****Percentage distribution of Administrative, Executive and Managerial workers by educational level**

Sl. No	Educational level	Administrative & Executive Officials	Working Proprietors Directors & Managers, in wholesale & retail trade	Directors and Managers in financial institutions	Working Proprietors, Directors & Managers Mining, const., mfg & related concerns	Working Proprietors, Directors & Managers & related executive in transport, storage & communication	Working Proprietors, Directors & Managers in other services
1	2	3	4	5	6	7	8
1	Graduates & Post graduates in technical/professional subjects	18.5	20.1	8.8	50.1	10.2	24.9
2	Diploma holders in technical/professional subjects	5.8	6.9	2.3	18.3	5.9	6.4
3	Certificate holders	0.5	1.9	0.2	2.0	1.7	1.2
4	Graduates & post graduates in science	30.1	30.6	25.7	7.2	40.2	24.9
5	Graduates & post graduates others (including law & commerce)	37.5	36.2	50.9	13.7	37.0	31.2
6	Others	7.6	4.3	12.1	8.7	5.0	11.4
<b>TOTAL</b>		<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>No. of employees</b>		<b>1,66,745</b>	<b>4,623</b>	<b>1, 71,001</b>	<b>28,775</b>	<b>18,381</b>	<b>12,210</b>

**4.7 Clerical and related workers**

The percentage distribution of clerical and related workers as per their qualifications is in table 4.5. It is observed that most of the clerical and related workers had only general qualification.

**TABLE 4.5**

**Educational pattern of clerical and related workers (in percentage)**

Sl. No.	Description of occupation	Graduates, Post Graduates in technical/professional subjects	Diploma holders in technical/professional subjects	Certificate holders	Graduates/ Post Graduates in science	Graduates/ Post Graduates, others (including law & commerce)	Others	Total
1	2	3	4	5	6	7	8	9
1	Clerical & other supervisors	1.9	2.7	1.7	49.7	36.9	7.1	100.0
2	Stenographers, typists & Card & tape punching operators	0.3	1.4	4.6	57.4	27.9	8.4	100.0
3	Book keepers, cashiers and related workers	0.4	1.3	0.2	29.0	51.2	17.9	100.0
4	Clerical and related workers n.e.c.(excluding office attendants)	0.3	0.5	0.6	66.8	17.7	14.1	100.0
5	Office attendants (peon, daftries etc.)	-	-	0.8	-	1.1	98.1	100.0
6	Transport and communication supervisors	0.8	2.0	4.1	50.6	13.7	28.8	100.0
7	Mail distributors and related workers	-	-	-	-	5.8	94.2	100.0
8	Telephone and telegraph operators	1.1	0.2	11.4	53.0	13.6	20.7	100.0

**4.8 Service workers**

Table 4.6 gives the percentage distribution of service workers as per their qualifications. It may be seen that 66.6% of the Policemen and Detectives were Graduates and Post Graduates. The workers in other categories were mostly matric and above but below graduates.



**TABLE 4.6****Educational pattern of Service Workers (in percentage)**

Sl. No.	Description of Occupation	Diploma/ Certificate Holders	Graduates/ Post Graduates, Science	Other Graduates/ Post Graduates (including law & commerce)	Matric & above but below Graduates	Below Matric including illiterates	Total
1	2	3	4	5	6	7	8
1	Cooks, Waiters, Bartenders & related workers	1.3	4.2	2.2	91.6	0.7	100.0
2	Building caretakers, sweepers Cleaners and related workers	0.3	-	2.0	91.5	6.2	100.0
3	Policemen and detectives	2.4	13.8	66.6	17.0	0.2	100.0
4	Watchmen, chowkidars and Gate-keepers	-	-	0.9	91.5	7.6	100.0

**4.9 Farm and Forestry Workers**

The percentage distribution of Farm and Forestry workers is given below in Table 4.7.

**TABLE 4.7****Educational pattern of Farm and Forestry workers (in percentage)**

Sl. No.	Description of occupation	Degree holders in agriculture	Diploma holders in agriculture	Certificate holders	Graduates/ Post Gra- duates in science	Graduates/ Post Gra- duates, others (including law & commerce)	Others	Total
1	2	3	4	5	6	7	8	9
1	Farm, Plantation Dairy & other Managers and Supervisors	1.0	1.2	4.7	37.7	9.9	45.5	100.0
2	Forestry Workers	-	0.1	1.2	54.6	9.9	34.2	100.0

3	Other Farm Workers	-	0.1	2.9	8.1	1.6	87.3	100.0
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#### 4.10 Production and related workers

A summary of the distribution of production and related workers according to their educational and technical qualifications is given in Table 4.8. It would be seen from the table that 83.8% of the workers did not have recognised training or qualifications in the trade.

**TABLE 4.8**  
**Educational pattern of production and related workers (excluding labourers)**

Sl. No.	Educational level	Number of workers (in lakh)	Percentage to the total
1	2	3	4
1	Degree in Engineering	0.02	0.1
2	Diploma in Engineering	0.10	0.7
3	ITI certificates/ apprentices	0.18	1.2
	4	Other certificates/diplomas	2.07
	14.2		
5	Others	12.29	83.8
<b>TOTAL</b>		<b>14.66</b>	<b>100.0</b>

## **CHAPTER V**

### **INDUSTRY-WISE OCCUPATIONAL PATTERN IN PUBLIC SECTOR**

**5.1** One of the significant features of the system of data collection under the Employment Market Information (EMI) Programme is that occupational composition of employees in various industries/services can be studied. The advantages of this kind of study are:

- (i) The educational and vocational training schemes can be tailored to meet the manpower requirements of various industries, employing a spectrum of skills.
- (ii) The educated youth can be guided to production oriented employment and self employment.
- (iii) Appropriate measures can be taken to introduce programmes for job-training in order to develop the requisite skills and experience in demand in the labour market.
- (iv) The vocational guidance officers and career counsellors can motivate the job seekers to select those growing occupations in which there is manpower shortage and to dissuade them from selecting old-fashioned and decaying occupations.
- (v) The prospective entrepreneurs can formulate manpower schemes for establishing new enterprises, on the basis of occupational composition (staffing structure) of similar types of industrial units already in operation.
- (vi) Technological innovations in specific industrial fields can be brought about, in view of the availability of employed manpower.

**5.2** In this Chapter, an attempt has been made to study the distribution of employees classified according to various industries. The proportions illustrated in different Tables in this Chapter indicate a distinct pattern of occupations prevailing in each industry.

### **5.3 Industry-Occupational Employment**

According to this Occupational Pattern Study, employment in the Public Sector establishments who responded, was of the order of 97.57 lakhs. The analysis of occupational pattern made in this Chapter, accordingly related to the 97.57 lakh employees. Table 5.1 gives the distribution of occupational employment in major industries.

**TABLE 5.1**

**Industry-wise Employment in Public Sector (as on 30-09-2002)**

Industry Division Code	Description of Industry Division	Employment (in lakhs)	Percentage to total
1	2	3	4
0	Agriculture, Hunting, Forestry & Fishing	3.53	3.6
1	Mining and Quarrying	4.09	4.2
2&3	Manufacturing	6.70	6.9
4	Electricity, Gas and Water	5.32	5.4
5	Construction	6.11	6.3
6	Wholesale and Retail Trade and Restaurants & Hotels	1.10	1.1
7	Transport, Storage and Communications	13.85	14.2
8	Financing, Insurance, Real Estate and Business Services	8.25	8.5
9	Community, Social and Personal Services	48.61	49.8
<b>Total</b>		<b>97.57</b>	<b>100.0</b>

NB. Totals of Employment may not tally due to rounding off.

**5.4** The data in the above table reveal that 49.8 percent employees were in Industry Division-Community, Social and Personal Services, 14.2 percent in Transport, Storage and Communications and 8.5 percent were in Financing, Insurance, Real Estate and Business Services.

## 5.5 Industry Occupational Matrix

Appendix VIII gives the occupational distribution of employees in major industries in the Public Sector. The broad occupational pattern of employees in different industry divisions based on the occupational details in respect of 97.57 lakh employees in the Public Sector is presented in Table 5.2.

**TABLE 5.2**  
**Percentage Distribution of Occupational Pattern in different Industries**

		Occupational Division								
Sl No.	Industry Div.	Description of Industry Division	Professional & related Workers (0&1)	Administrative, Executive & Managerial workers (2)	Clerical & related workers (3)	Sales workers (4)	Service Workers (5)	Farmers Fishermen & related workers (6)	Production workers, Trpt. Equipment Operators. & Labourers (7,8&9)	Total
1	2	3	4	5	6	7	8	9	10	11
1	0	Agriculture, Hunting, Forestry & Fishing	2.1 (16.3)	2.8 (3.2)	2.7 (23.6)	1.5 (0.2)	1.1 (3.6)	68.5 (38.1)	2.6 (15.0)	3.6 (100.0)
2	1	Mining & Quarrying	2.0 (13.9)	1.9 (1.9)	0.9 (7.1)	0.3 (--)	0.6 (1.8)	0.2 (0.1)	15.0 (75.2)	4.2 (100.0)
3	2&3	Manufacturing	3.0 (12.6)	9.5 (5.7)	3.8 (17.3)	9.2 (0.5)	2.3 (4.2)	4.5 (1.3)	19.0 (58.4)	6.9 (100.0)
4	4	Electricity Gas & Water	2.7 (14.0)	1.4 (1.0)	4.3 (24.9)	1.3 (0.1)	1.5 (3.3)	1.3 (0.5)	14.5 (56.2)	5.4 (100.0)
5	5	Construction	4.4 (20.0)	1.8 (1.2)	6.7 (33.6)	0.7 (0.1)	3.1 (6.0)	1.5 (0.5)	11.5 (38.6)	6.3 (100.0)
6	6	Wholesale & Retail Trade & Restaurants & Hotels	0.2 (5.7)	2.4 (8.6)	1.3 (36.7)	43.6 (15.5)	0.9 (9.7)	1.1 (1.9)	1.2 (21.9)	1.1 (100.0)
7	7	Transport, Storage and communications	4.0 (8.0)	5.4 (1.6)	23.1 (51.4)	3.3 (0.1)	6.6 (5.6)	0.7 (0.1)	22.4 (33.2)	14.2 (100.0)
8	8	Financing, Insurance, Real Estate & Busi-	2.7 (9.1)	44.9 (21.9)	16.6 (62.2)	23.5 (1.1)	3.2 (4.7)	0.1 (--)	0.4 (1.0)	8.5 (100.0)

9	9	ness Services Community Social and Personal Services	78.9 (45.3)	29.9 (2.5)	40.6 (25.8)	16.6 (0.1)	80.7 (19.8)	22.1 (0.9)	13.4 (5.6)	49.8 (100.0)
<b>TOTAL</b>			<b>100.0</b> <b>(28.6)</b>	<b>100.0</b> <b>(4.1)</b>	<b>100.0</b> <b>(31.6)</b>	<b>100.0</b> <b>(0.4)</b>	<b>100.0</b> <b>(12.2)</b>	<b>100.0</b> <b>(2.0)</b>	<b>100.0</b> <b>(21.1)</b>	<b>100.0</b> <b>(100.0)</b>
<b>No. of employees (in Lakh)</b>			<b>27.90</b>	<b>4.02</b>	<b>30.85</b>	<b>0.39</b>	<b>11.91</b>	<b>1.96</b>	<b>20.54</b>	<b>97.57</b>

Proportions in the table 5.2 reveal that each industry division had promoted a different occupational pattern, depending upon the nature of activity of industrial establishment. The percentages (horizontally-proportionate distribution of broad occupation in a single industry division, and vertically-proportionate distribution of one occupational division in different industry divisions) have been derived with a view to identifying concentration of occupational categories in industry segments. Industry-wise dispersion of the 97.57 lakh employees revealed that 49.8 percent were in community, social and personal services, 14.2 percent in transport, storage and communications, 6.9 percent in manufacturing, 6.3 percent in construction, 8.5 percent in financing, insurance, real estate and business services, and 5.4 percent in electricity gas and water. The percentages in respect of other industries were less than five.

## 5.6 Employment of Important Occupations in Industries

Industry-occupation matrix exhibit a distinct occupational pattern of employees in different industries. It is found that there is high concentration of employees in certain occupational groups in specific industries. In an industry that is characterized by multiplicity of production and service activities, employment of different occupations is dependent on a set of factors of influences. An attempt has been made in the following paragraphs to analyse the proportionate distribution of workers belonging to selected occupational categories (Occupational groups).

**TABLE 5.3**  
**Industry Division-wise Distribution of Administrative Executive and Managerial Workers**

NIC Code	Description of Industry Division	No. of Employees	Percentage to Total
1	2	3	4
0	Agriculture, Hunting, Forestry and Fishing	11,223	2.8
1	Mining and Quarrying	7,585	1.9
2&3	Manufacturing	38,107	9.5

4	Electricity, Gas & Water	5,469	1.4
5	Construction	7,255	1.8
6	Wholesale and Retail Trade & Restaurants & Hotels	9,484	2.4
7	Transport, Storage & Communications	21,755	5.4
8	Financing, Insurance, Real Estate and Business Services	1,80,603	44.9
9	Community, Social & Personal Services	1,20,313	29.9
<b>TOTAL</b>		<b>4,01,794</b>	<b>100.0</b>

**5.7** Administrative, Executive and Managerial workers are distinctly categorized as prestigious occupations and their employment is represented in all industry divisions. It is seen from the table 5.3 that 29.9 percent of Administrative, Executive and Managerial workers were employed in Community, Social and Personal Services, and 44.9 percent in Financing, Insurance, Real Estate and Business Services. The Proportions of employment of these personnel in other Industry divisions were nominal.

**5.8** Engineers, technologists, surveyors etc. are trained professionals who ensure proper accomplishment of technical tasks including finding solutions to technical problems whereas technicians are trained sub-professionals who carry out technical tasks under the direction and supervision of professionals. They play a very vital role as they are employed to design & execute not only infrastructure plans but also to make constant effort to optimise production of goods/services. Table 5.4 shows the proportionate distribution of employment of this important technical occupational group in various industry divisions.

**TABLE 5.4**  
**Proportionate Distribution of Architects, Engineers, Technologists, Surveyors and Engineering Technicians according to Industry Division**

NIC Code	Description of Industry Division	Percentage of employment of	
		Engineers, Technologists & Surveyors	Engineering technicians
1	2	3	4
0	Agriculture, Hunting, Forestry and Fishing	1.6	2.9
1	Mining and Quarrying	8.1	11.3
2&3	Manufacturing	11.7	12.5
4	Electricity, Gas & Water	15.6	10.3
5	Construction	28.8	21.1

6	Wholesale and Retail Trade & Restaurants & Hotels	0.3	0.4
7	Transport, Storage & Communications	15.8	19.8
8	Financing, Insurance, Real Estate and Business Services	1.5	4.3
9	Community, Social & Personal Services	16.6	17.4
<b>TOTAL</b>		<b>100.0</b>	<b>100.0</b>
<b>No. of employees (in 000)</b>		<b>181.3</b>	<b>282.9</b>

**5.9** It is observed from the above analysis that the proportions of employment differed from industry to industry, mainly because of the different nature of activities undertaken by the public sector establishments. However, the main areas of concentration are construction, community, social and personal services, Transport, Storage & Communications, Electricity, Gas & Water and Manufacturing Industries.

**5.10** Of the 97.57 lakh employees, 100.8 thousand were physicians and surgeons and 285.4 thousand were nursing and other medical technicians. The break up of these groups of employees in different industries is shown in Table 5.5.

**TABLE 5.5**

**Proportionate Distribution of Medical and Health workers in different Industries  
(in percentages)**

NIC Code	Description of Industry Division	Physicians & Surgeons Including Veterinary Surgeons	Nursing, other medical & health technicians
1	2	3	4
0	Agriculture, Hunting, Forestry and Fishing	3.8	1.3
1	Mining and Quarrying		0.9
2&3	Manufacturing	2.0	1.4
4	Electricity, Gas & Water	0.7	0.5
5	Construction	0.5	0.3
6	Wholesale and Retail Trade & Restaurants & Hotels	0.3	-
7	Transport, Storage & Communications	1.0	1.2
8	Financing, Insurance, Real Estate and Business Services	-	-
9	Community, Social & Personal Services	90.8	94.2



<b>TOTAL</b>	<b>100.0</b>	<b>100.0</b>
<b>No of employees (in 000)</b>	<b>100.8</b>	<b>285.4</b>

**5.11** As may be seen from the above table, 90.8 percent of physicians & surgeons and 94.2 percent of nursing, other medical and health technicians were employed in community, social and personal services comprising such establishments as hospitals, dispensaries, maternity centers, health clinics and veterinary service centers.

**TABLE 5.6**  
**Distribution of Accountants and Auditors according to Industry Division.**

NIC Code	Description of Industry Division	No.of Accountants, Auditors & related Workers	Percentage
1	2	3	4
0	Agriculture, Hunting, Forestry and Fishing	3,945	2.6
1	Mining and Quarrying	1,066	0.7
2&3	Manufacturing		5,355
3.6			
4	Electricity, Gas & Water	9,174	6.1
5	Construction	5,140	3.4
6	Wholesale and Retail Trade & Restaurants & Hotels	3,390	2.2
7	Transport, Storage & Communications	8,080	5.4
8	Financing, Insurance, Real Estate and Business Services	48,604	32.2
9	Community, Social & Personal Services	66,111	43.8
<b>TOTAL</b>		<b>1,50,865</b>	<b>100.0</b>

**5.12** Community, Social and Personal Services employed 43.8 percent of accountants, auditors and related workers, followed by 32.2 percent in the Financing, Insurance, Real Estates and Business Services.

**TABLE 5.7**  
**Distribution of Clerks, Stenographers, Assistants according to Industry Division.**

NIC Code	Description of Industry Division	Percentage of workers classified as				
		Clerical & Other Supervisors	Stenographers & Typists	Book Keepers & Cashiers	Computing Machine Operators	Clerical & related workers
1	2	3	4	5	6	7
0	Agriculture, Hunting Forestry and Fishing	4.3	3.9	0.1	0.9	3.3
1	Mining and Quarrying	1.1	1.5	0.1	22.2	1.0
2&3	Manufacturing	4.4	6.5	0.5	13.0	4.9
4	Electricity, Gas & Water	5.8	5.3	0.9	4.1	5.6
5	Construction	7.6	9.1	0.4	4.7	8.5
6	Wholesale & Retail Trade & Restaurants & Hotels	2.4	1.9	0.3	0.2	1.4
7	Transport, Storage & Communications	11.7	9.3	2.5	2.7	13.9
8	Financing, Insurance, Real Estates & Business Services.	10.8	12.4	91.8	17.4	10.1
9	Community, Social and Personal Services	51.9	50.1	3.4	34.8	51.3
<b>All Industries</b>		<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>No of Employees (000)</b>		<b>530.6</b>	<b>109.6</b>	<b>285.8</b>	<b>16.1</b>	<b>1610.9</b>

**5.13** The largest occupations as reflected by the data in the above table, were clerical and related workers. Other workers were employed in specialised clerical occupations. The distribution of employment in clerical occupations in different industries varied. The Community Social and Personal Services had the largest proportion of all clerical workers except book keepers and cashiers who had dominated the financing, insurance, real estate and business services. Because of the need for clerks, stenographers & typists as supporting personnel to the professional and managerial workers the distribution reveals that these workers were employed in all other industry segments in varying proportions.

**TABLE 5.8**  
**Distribution of Service Workers according to Industry Divisions in Public Sector**

NIC Code	Description of Industry Division	Percentage of service workers			
		House Keepers	Cooks, Waiters Keeping Service Workers	Maids/ House Sweepers	Building Caretakers, Service Workers
1	2	3	4	5	6
0	Agriculture, Hunting Forestry and Fishing	-	0.1	0.3	0.6
1	Mining and Quarrying	0.3	1.0	1.7	0.5
2&3	Manufacturing	1.1	3.2	2.7	1.7
4	Electricity, Gas & Water	0.1	0.7	0.1	1.4
5	Construction	0.1	0.6	-	2.1
6	Wholesale & Retail Trade & Restaurants & Hotels	1.8	2.7	1.2	0.6
7	Transport, Storage & Communications	0.5	4.0	1.1	9.9
8	Financing, Insurance, Real Estates & Business Services.	-	0.3	-	4.2
9	Community, Social and Personal Services	96.1	87.4	92.9	79.0

<b>All Industries</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>No of Employees (in 000)</b>	<b>22.1</b>	<b>97.3</b>	<b>39.1</b>	<b>332.6</b>

**5.14** The service workers accounted for varying proportions in different industry divisions. They had, however, concentrated mainly in the community, social and personal services.

**5.15**As could be expected, the Manufacturing Industry contained the highest proportion of production workers as compared, to other industry divisions. The vast majority of production workers are craftsmen and operators. The public sector employed significant number of processors, mechanics, and repairmen because of growing use of machines and instruments . It is imperative to employ a substantial number of production processors and mechanics to assist engineers and technicians in design, installation and maintenance of machines and equipment, Table 5.9 presents the distribution of selected categories of production processors and craftsmen in each industry division.

**TABLE 5.9**  
**Distribution of Production Workers in each Industry Division**

NIC Code	Description of Industry Division	Percentage of Production Workers in Occupational Groups								
		Metal Processors	Chemical Processors & related workers	Food & Beverage processors	Machinery fitters & machine Assemblers	Electrical Fitters	Broadcasting Operators & Cinema Projectionists	Plumbers & Welders	Rubber & Plastic Products makers	Printers & related workers
1	2	3	4	5	6	7	8	9	10	11
0	Agriculture, Hunting Forestry and Fishing	1.1	0.4	2.8	1.0	0.4	2.0	1.1	1.0	0.8
1	Mining and Quarrying	5.3	4.4	-	5.8	2.7	0.3	5.5	5.4	4.1
2&3	Manufacturing	58.9	77.4	88.2	30.2	7.7	8.9	30.2	27.0	71.7
4	Electricity, Gas & Water	25.7	2.4	-	6.3	60.1	5.3	16.4	-	2.0
5	Construction	1.7	0.8	-	6.8	6.5	1.6	11.0	-	3.1
6	Wholesale and Retail Trade and Restaurants and Hotels	0.5	9.6	-	0.6	0.5	0.6	0.4	-	1.4
7	Transport, Storage & Communications	-	0.6	-	36.2	14.5	5.0	20.3	49.4	3.5

8	Financing Insurance Real Estate and Business Services	-	-	-	0.1	0.2	5.4	0.1	-	1.1
9	Community, Social & Personal Services	6.8	4.4	9.0	13.0	7.4	70.9	15.0	17.2	12.3
<b>All Industries</b>		<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>No. of employees (in 000)</b>		<b>17.0</b>	<b>18.8</b>	<b>20.5</b>	<b>183.8</b>	<b>296.7</b>	<b>3.2</b>	<b>33.4</b>	<b>4.0</b>	<b>22.8</b>

**5.16** It is seen from the table 5.9 that manufacturing was the largest single industry in which production workers were concentrated. The broadcasting station operators and cinema projectionists were employed largely in community, social and personal services. More than half of the Electrical Fitters were employed in the Industry Division of Electricity, Gas & Water.

## CHAPTER VI

### OCCUPATIONAL PATTERN OF EMPLOYEES IN DIFFERENT BRANCHES OF PUBLIC SECTOR

**6.1** The public sector consists of Central Govt., State Government, Quasi Government (Central), Quasi-Government (States) and Local Bodies. Each of the components of the public sector has different activities and as a result of distinct functions, the occupational composition and size of employment differ from branch to branch. Appendix -IV presents the distribution of occupational employment in different branches of public sector. As may be seen from the Appendix, there is a long list of occupations in different branches of public sector. To enable a better understanding about the proportionate distribution of significant occupations spread over each branch of public sector, the analysis of data has been made in the following paragraphs.

**6.2** The 2002 Occupational Pattern Study has enumerated 97.57 lakh employees in the public sector. The proportionate distribution of these employees is discussed in Chapter II of the report. A similar analysis of occupational pattern of employees in individual branches of public sector is presented in table 6.1.

**TABLE 6.1**  
**Occupational Pattern in different Branches of Public Sector**

<b>(Fig. in lakhs)</b>								
Sl. No.	N.C.O. Div. Code	Description of occupational Division	Central Govt.	State Govt.	Quasi Govt. Central	Quasi Govt. State	Local Bodies	Total (All employees)
1	2	3	4	5	6	7	8	9
1	0&1	Professional technical & related workers	2.02 (13.9)	15.68 (40.5)	2.09 (15.1)	3.67 (18.4)	4.43 (42.1)	27.90 (28.6)
2	2 (4.1)	Administrative, executive and managerial workers	0.26	1.0 (1.8)	2.02 (2.6)	0.60 (14.6)	0.14 (3.0)	4.02 (1.3)
3	3	Clerical and related	6.58	10.51	5.83	5.64	2.28	30.85

		workers	(45.3)	(27.2)	(42.0)	(28.3)	(21.7)	(31.6)
4	4	Sales workers	0.02	0.02	0.07	0.27	0.01	0.39
			(0.1)	(-)	(0.5)	(1.4)	(0.1)	(0.4)
5	5	Service workers	1.29	6.63	0.73	0.69	2.56	11.91
			(8.9)	(17.1)	(5.3)	(3.4)	(24.3)	(12.2)
6	6	Farmers, Fishermen, hunters, loggers and related workers	0.10	1.26	0.21	0.27	0.12	1.96
			(0.7)	(3.3)	(1.5)	(1.4)	(1.1)	(2.0)
7	7,8&9	Production and related workers, transport equipment operators and labourers	4.24	3.58	2.91	8.82	0.99	20.54
			(29.3)	(9.3)	(21.0)	(44.1)	(9.4)	(21.1)
<b>Total - All Occupations</b>			<b>14.51</b>	<b>38.68</b>	<b>13.87</b>	<b>19.97</b>	<b>10.53</b>	<b>97.57</b>
			<b>(100.0)</b>	<b>(100.0)</b>	<b>(100.0)</b>	<b>(100.0)</b>	<b>(100.0)</b>	<b>(100.0)</b>

- N.B. (1) Totals of employment in each column may not necessarily tally with the total of all occupations due to rounding off.
- (2) Figures in brackets are percentages.

From the analysis made in the table 6.1, the following salient features are observed: -

- (i) In the case of the Central Govt. the pattern reflects that it employed 45.3 percent as clerical & related workers and 29.3 percent Production and related workers. The share of administrative, executive and managerial workers constituted 1.8% and that of professional technical and related workers 13.9%. The share of sales workers in the occupational structure of Central Govt. was quite insignificant.
- (ii) As may be seen from the above table, there were 38.68 lakh employees in State Govt. Of these 40.5% were categorized as professional, technical and related workers and the share of clerical workers was 27.2% whereas the share of production and related workers was 9.3%.
- (iii) The data in respect of Q.G (C) reveals that out of 13.87 lakh employees, 42% were clerical & related workers, 21% were production & related workers and 15.1% were professional, technical & related workers. Administrative, executive and managerial workers constituted 14.6%.
- (iv) In the case of Q.G. (State), the occupational pattern reveals that 44.1% employees were classified as production and related workers and only 28.3% of employees were in the clerical and related workers.
- (v) It is noted that 42.1% of the employees in Local Bodies were classified as professional, technical and related workers. The share of clerical and service workers was 21.7% and 24.3% respectively.

**6.3** Each branch of the public sector has a distinct occupational structure. As a result of different functions performed by the individual branches, the composition of occupational structure is obviously different. Table 6.2 shows the percentage distribution of occupational employment.

**TABLE 6.2**  
**Percentage Distribution of Occupational Employment according to the Branch of Public Sector**

Sl. No.	N.C.O. Div. Code	Description of occupational Division	Central Govt.	State Govt.	Quasi Govt. Central	Quasi Govt. State	Local Bodies	Total (All employees)
1	2	3	4	5	6	7	8	9
1	0&1	Professional technical & related workers	7.2	56.2	7.5	13.2	15.9	100.0
2	2	Administratives, executive and managerial workers	6.4	24.8	50.3	15.0	3.5	100.0
3	3	Clerical and related workers	21.3	34.1	18.9	18.3	7.4	100.0
4	4	Sales workers	3.9	5.1	18.1	70.2	2.7	100.0
5	5	Service workers	10.9	55.7	6.1	5.8	21.5	100.0
6	6	Farmers, Fishermen, hunters, loggers and related workers	5.1	64.4	10.7	13.9	5.9	100.0
7	7,8&9	Production and related workers, transport equipment operators and labourers	20.6	17.5	14.2	42.9	4.8	100.0
<b>Total - All Occupations</b>			<b>14.9</b>	<b>39.6</b>	<b>14.2</b>	<b>20.5</b>	<b>10.8</b>	<b>100.0</b>

The analysis of occupational data in the above table reveals the following: -



- (i) The highest concentration of professional, technical and related workers was in State Govt. (56.2%) followed by local Bodies (15.9%).
- (ii) The Q.G.(Central) had maximum percentage (50.3%) of administrative, executive and managerial workers followed by State Govt. where 24.8% workers were employed in this category.
- (iii) In the case of clerical and related workers State Govt. had the maximum proportion of 34.1%.
- (iv) Sales workers had the maximum share (70.2%) in Quasi Govt. (State) followed by 18.1% in Quasi Govt.(Central). The proportion of sales workers in other branches was quite less.
- (v) The employment of service workers was concentrated in State Govt. and their proportion works out to 55.7%. The proportion of service workers in Central Govt. and Local Bodies was 10.9% & 21.5% respectively.
- (vi) About 64.4% of the farmers and related workers were in State Govt. Quasi Govt. (State) contributed 13.9%. Their proportions in other branches were not much significant.
- (vii) The production and related workers had the maximum share of 42.9% in Quasi Govt.(State) followed by 20.6% in Central Govt. and 17.5% in State Govt. Local bodies, however, employed only 4.8% workers in this category.

**6.4** Table 6.1 gives the distribution of employees classified by broad occupational divisions in different branches of public sector. It will be appropriate to analyse the proportions in selected occupational groups, in individual branches of public sector.

### Professional, Technical and Related Workers

**6.5** There were about 27.90 lakh employees employed in the occupational group of professional, technical and related workers. The proportionate distribution of employees in this important occupational group is given in Table 6.3.

**TABLE 6.3**  
**Proportionate Distribution of Professional, Technical and related workers in Different Branches of Public Sector**

NCO Code	Description of Occupation	Distribution (Percentage)					Total
		Central. Govt.	State Govt.	Quasi Govt. Central	Quasi Govt. State	Local Bodies	
1	2	3	4	5	6	7	8
021	Civil Engineers	6.4	2.2	4.7	3.4	1.3	2.7
031	Civil Engineering, Overseers	1.4	1.9	2.9	2.3	1.6	2.0

	and technicians						
089	Nursing, Sanitary, and other Medical Health technicians, n.e.c.	2.1	6.3	1.4	0.6	5.7	4.8
120	Accountants and Auditors	16.3	2.6	23.0	6.2	1.4	5.4
137	Labour, Social Welfare and related workers	0.1	6.3	0.1	0.7	10.2	5.2
150	Teachers, University and Colleges	0.3	4.1	0.6	2.0	0.1	2.6
151	Teachers Higher Secondary and High School	2.6	20.1	4.8	1.3	9.2	13.5
152	Teachers Middle Schools	0.4	11.5	0.9	17.4	14.3	11.1
153	Teachers Primary Schools	0.6	16.3	1.5	37.8	46.6	21.7
	Others	69.8	28.7	60.1	28.3	9.6	31.0
<b>TOTAL</b>		<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>No. of employees</b>		<b>2,02,114</b>	<b>15,67,589</b>	<b>2,09,179</b>	<b>3,67,422</b>	<b>4,43,234</b>	<b>27,89,538</b>

Analysis of table shows that proportionate distribution of workers in various occupations in the category of Professional, Technical and Related Workers is more or less the same in different branches of Public sector excepting for a few occupations.

### Clerical and Related Workers

**6.6** Clerical employees had uniform pattern of employment in different branches of public sector. This pattern is revealed from the data indicated in Table 6.4 below: -

**TABLE 6.4**

#### **Proportionate Distribution of Clerical and related workers in Different Branches of Public Sector**

NCO Code	Description of Occupation	Distribution (Percentage)					Total
		Central Govt.	State Govt.	Quasi Govt. Central	Quasi Govt. State	Local Bodies	
1	2	3	4	5	6	7	8
300	Clerical Supervisors, Office Superintendents, Head Clerks and Section Heads.	3.9	4.7	2.7	5.1	2.6	4.1
301	Other Supervisors (Inspectors etc.)	1.5	4.4	1.4	3.0	5.8	3.0
2.3	310 Village officials		-	5.7	-	0.2	4.2

320	Stenographers & Steno-Typists	1.8	2.1	1.9	1.5	0.7	1.8
321	Typists	0.7	2.3	1.8	1.6	1.3	1.7
330	Book-Keepers and Accounts Clerks	1.3	0.5	35.3	3.4	0.8	7.8
350	Clerks, General	18.6	25.8	12.5	23.3	33.3	21.9
358	Office Attendants, Peons, Daftries etc.	20.1	37.1	22.3	19.7	36.5	27.4
371	Conductors, Transport	1.4	0.6	-	22.2	0.6	4.6
380	Postmen	12.6	-	-	-	-	2.7
	Others			38.1	16.8	22.1	20.0
	22.7						14.2

<b>TOTAL</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>No. of employees</b>	<b>6,58,018</b>	<b>10,51,172</b>	<b>5,83,343</b>	<b>5,64,292</b>	<b>2,28,382</b>	<b>30,85,207</b>	

It is observed from the above table that 35.3% of book-keepers and accounts clerks were employed in Quasi Govt. (Central) which was the highest proportion in different branches of public sector. The main reason of this high proportion is the concentration of employment in banking industry.

## Service Workers

6.7 Service workers constituted an important part of occupational structure of different branches of public sector. Table 6.5 indicates the proportionate composition of service workers.

**TABLE 6.5**  
**Proportionate Distribution of Service workers in Different Branches of Public Sector**

NCO Code	Description of Occupation	Distribution (Percentage)					
		Central Govt.	State Govt.	Quasi Govt. Central	Quasi Govt. State	Local Bodies	Total
1	2	3	4	5	6	7	8
520	Cooks and Cook-Bearers	5.0	5.6	4.9	4.7	15.5	7.5
541	Sweepers, Cleaners and related workers	33.5	7.7	27.2	22.4	71.9	26.4
542	Watermen	2.7	0.7	0.6	2.0	2.0	1.3
571	Policemen and Detectives	18.4	60.1	13.6	2.7	0.1	36.5

572	Customs Examiners, Patrollers and related workers	5.0	1.6	0.5	0.2	0.1	1.5
574	Watchmen, Chowkidars and Gatekeepers	22.5	9.4	43.5	56.3	7.1	15.1
	Others	12.9	14.9	9.7	11.7	3.3	11.7
<b>TOTAL</b>		<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>No. of employees</b>		<b>1,29,393</b>	<b>6,62,836</b>	<b>73,001</b>	<b>68,947</b>	<b>2,56,416</b>	<b>11,90,593</b>

It is seen from the distribution that local bodies had the maximum number of service workers in the category of Sweepers, Cleaners and related workers followed by the Central Govt.

### Production workers

**6.8** Of the 14.66 lakh production and related workers 6.73 lakhs were employed in Quasi Govt. (State). The significant occupations classified under occupational group of production workers are machinery fitters and machine assemblers, motor vehicle mechanics, electricians, electrical fitters etc. Table 6.6 indicates the proportionate distribution of this category of workers in different branches of public sector.

**TABLE 6.6**

**Proportionate Distribution of Occupational Employment of Production Workers (Craftsmen and Operatives) in Public Sector**

NCO Code	Description of Occupation	Distribution (Percentage)					Total
		Central Govt.	State Govt.	Quasi Govt. Central	Quasi Govt. State	Local Bodies	
1	2	3	4	5	6	7	8
752	Spinners and Winders	0.2	0.3	1.9	2.7	-	1.6
842	Machinery Fitters and Machine Assemblers	7.7	3.7	4.5	3.0	5.0	4.3
843	Motor Vehicle Mechanics	0.9	2.2	1.3	4.1	1.5	2.7

845	Mechanics, Repairmen	3.3	2.7	5.7	2.2	4.1	3.1
851	Electricians, Electrical fitters and related workers	5.5	3.9	4.8	8.9	4.6	6.7
857	Electric Linemen and Cable Jointers	3.6	2.5	0.6	12.3	13.4	7.3
961	Stationary Engine and related equipment operators	1.2	12.4	2.1	2.4	13.2	4.0
986	Tram Car and Motor Vehicle Drivers	8.6	31.2	6.3	22.1	25.8	18.4
	Others	69.0	41.1	72.8	42.3	32.4	51.9
<b>TOTAL</b>		<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>No. of employees</b>		<b>2,80,122</b>	<b>2,18,728</b>	<b>2,41,768</b>	<b>6,73,041</b>	<b>52,626</b>	<b>14,66,285</b>

The analysis of occupational distribution shows that depending upon the nature of activities of the individual branches, the employment by occupations had varied.

#### APPENDIX-1

#### FORM-ER-II

Occupational return to be submitted to the Local Employment Exchange once in two years (on a date to be specified by notification in the Official Gazette).  
(Vide Employment Exchange (Compulsory Notification of Vacancies) Rules, 1960)

Name and address of the employer \_\_\_\_\_

Nature of business \_\_\_\_\_

(Please describe what the establishment makes or does as its principal activity.)

1. Total number of persons on the pay rolls of the establishment on (specified date) \_\_\_\_\_  
(This figure should include every person whose wages or salary is paid by the establishment.)

2. Occupational classification of all employees as given in item-I above. (please give the number of employees in each occupation separately.)

Occupation	No. of employees		
	Men	Women	Total

Use exact terms such as Engineer (Mechanical), Teacher (Domestic/Science), Officer on special Duty (Actuary), Assistant Director (Metallurgist), Scientific Asstt. (Chemist), Research Officer (Economist),

Please give as far as possible approximate number of vacancies in each occupation you are

Instructor (Carpenter), Supervisor (Tailor), Fitter (Internal Combustion Engine), Inspector (Sanitary), Superintendent (Office), Apprentice (Electrician), etc.

likely to fill during the next calendar year due to retirement expansion or reorganization

1	2	3	4	5
Total:				

Dated:

**Signature of Employer**

To

The Employment Exchange  
(Please fill in here the address of your local Employment Exchange)

Note: Total of Col..(4) under item 2 should correspond to the figure given against item 1.

## APPENDIX –II

### State-wise percentage of response to occupational pattern study-Public sector-2002

Sl. No.	Name of States/Union Territories	No. of establishments addressed	No of establishments responded	Percentage of response
1	2	3	4	5
1.	Andhra Pradesh	13,899	9,909	71.3
2.	Assam	5,539	2,651	47.9
3.	Bihar	3,588	548	15.3
4.	Chhatisgarh	2,683	2,121	79.1
5.	Goa	464	224	48.3
6.	Gujarat	7,258	4,582	63.1
7.	Haryana	6,452	6,075	94.2
8.	Himachal Pradesh	2,872	2,512	87.5
9.	Karnataka	13,026	11,485	88.2
10.	Kerala	11,433	9,652	84.4
11.	Madhya Pradesh	9,416	6,023	64.0
12.	Maharashtra	9,758	6,396	65.5
13.	Manipur	899	647	72.0
14.	Nagaland	851	224	26.3

15.	Orissa	8,415	2,884	34.3
16.	Punjab	7,480	4,488	60.0
17.	Rajasthan	13,402	13,322	99.4
18.	Tamil Nadu	12,245	11,604	94.8
19.	Uttar Pradesh	17,081	13,953	81.7
20.	Uttranchal	3,011	2,313	76.8
21.	West Bengal	6,149	3,183	51.8
22.	Chandigarh	596	437	73.3
23.	Delhi	1,501	358	23.9
24.	Pondicherry	320	184	57.5
<b>TOTAL</b>		<b>1,58,338</b>	<b>1,15,775</b>	<b>73.1</b>

### APPENDIX-III

#### Distribution of Establishments (branch-wise) addressed under the 2002 O.P. study

Sl. No.	Name of States/UTs	No. of Establishments addressed					Total
		Central Govt.	State Govt.	Central Govt. Quasi	State Govt. Quasi	Local Bodies	
1	2	3	4	5	6	7	8
1	Andhra Pradesh	537	5,108	3,934	2,671	1,649	13,899
2	Assam	310	3,619	1,011	490	109	5,539
3	Bihar	164	2,396	795	192	41	3,588
4	Chhatisgarh	79	1,744	508	141	211	2,683
5	Goa	43	149	225	33	14	464
6	Gujarat	357	2,490	2,794	790	827	7,258
7	Haryana	140	4,098	1,231	797	186	6,452
8	Himachal Pradesh	109	1788	477	460	38	2872
9	Karnataka	392	8425	2,962	800	447	13,026
10	Kerala	298	5,691	2,310	1,802	1,332	11,433
11	Madhya Pradesh	407	5,389	2,199	614	807	9,416
12	Maharashtra	788	3,941	3,085	959	985	9,758
13	Manipur	46	716	71	54	12	899
14	Nagaland	56	677	77	33	8	851
15	Orissa	318	4,529	1,255	2,180	133	8,415
16	Punjab	237	4,009	2,045	902	287	7,480
17	Rajasthan	516	8,289	2,317	1,770	510	13,402
18	Tamil Nadu	572	4,505	3,040	2,023	2,105	12,245

19	Uttar Pradesh	771	8,204	5,174	1,608	1,324	17,081
20	Uttranchal	159	1833	636	232	151	3011
21	West Bengal	425	1,281	2,484	180	1,779	6,149
22	Chandigarh	92	220	249	12	23	596
23	Delhi	433	132	889	31	16	1,501
24	Pondicherry	34	180	58	33	15	320
<b>TOTAL</b>		<b>7,283</b>	<b>79,413</b>	<b>39,826</b>	<b>18,807</b>	<b>13,009</b>	<b>1,58,338</b>
<b>No. of Estts. Responded</b>		<b>4,590</b>	<b>58,254</b>	<b>29,842</b>	<b>13,253</b>	<b>9,836</b>	<b>1,15,775</b>
<b>Percentage of Response</b>		<b>63.0</b>	<b>73.4</b>	<b>74.9</b>	<b>70.5</b>	<b>75.6</b>	<b>73.1</b>



## Occupational Composition Pattern of Employees in different branches of Public Sector as on 30 Sep 2002

NCO CODE	Description of Occupation	Total Number of Employees in					No. of women employees (included in Total)						
		Central Govt.	State Govt.	Central Govt. Quasi	State Govt. Quasi	Local Body	Total	Central Govt.	State Govt.	Central Govt. Quasi	State Govt. Quasi	Local Body	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14
000	Physicist	817	68	252	1	0	1138	47	4	17	0	0	68
001	Chemists (Excluding Pharmaceutical Chemists)	785	943	1794	1907	80	5509	60	115	147	78	3	403
002	Geologists and Geophysicists	407	1083	1523	242	48	3303	13	22	37	3	0	75
003	Meteorologist	1547	39	7	51	0	1644	165	0	0	1	0	166
009	Physical Scientists, n.e.c.	4013	169	2240	157	8	6587	347	15	205	20	5	592
00	PHYSICAL SCIENTISTS	7569	2302	5816	2358	136	18181	632	156	406	102	8	1304
010	Physical Science Technicians	3486	6257	869	577	230	11419	125	662	89	28	9	913
01	PHYSICAL SCIENCE TECHNICIANS	3486	6257	869	577	230	11419	125	662	89	28	9	913
020	Architects and Town Planners	75	700	277	156	358	1566	10	93	8	36	8	155
021	Civil Engineers	13031	34761	9819	12603	5707	75921	253	542	170	338	98	1401
022	Electrical and Electronic Engineers	10784	2845	8364	21007	460	43460	653	71	412	442	2	1580
023	Mechanical Engineers	7410	2995	14161	6455	563	31584	100	18	525	53	22	718
024	Chemical Engineers	210	168	1898	292	3	2571	2	11	54	1	0	68
025	Metallurgists	47	40	150	18	0	255	0	9	1	1	0	11
026	Mining Engineers	76	192	3717	111	1	4097	0	2	86	6	0	94
027	Industrial Engineers	1035	299	1251	355	41	2981	10	28	43	2	0	83
028	Surveyors	915	3348	406	569	42	5280	57	52	2	2	1	114
029	Architects, Engs, Technologists and Surveyors, n.e.c.	2052	3201	4471	3165	677	13566	42	125	297	42	21	527
02	ARCHITECTS, ENGS., TECHNOLOGISTS AND SURVEYORS	35635	48549	44514	44731	7852	181281	1127	951	1598	923	152	4751
030	Draughtsmen	6217	17405	4936	6009	1709	36276	478	1848	113	569	68	3076
031	Civil Engineering Overseers and Technicians	2906	30163	6149	8613	6829	54660	54	556	105	116	84	915
032	Electrical and Electronic Enging Overseers and Tech	11948	3357	9481	17386	568	42740	625	148	430	437	5	1645
033	Mechanical Engineering Overseers and Technicians	29414	2891	15312	6035	538	54190	501	30	173	16	0	720
034	Chemical Engineering Technicians	966	360	622	375	10	2333	40	29	8	6	2	85
035	Metallurgical Technicians	767	95	4849	98	32	5841	23	35	120	2	9	189
036	Mining Technicians	120	77	11891	210	2	12300	2	0	286	0	0	288
037	Survey Technicians	5884	12865	1093	1425	754	22021	120	508	16	22	15	681
039	Engineering Technicians , n.e.c	22080	9703	4481	15134	1149	52547	474	548	208	540	71	1841

03	ENGINEERING TECHNICIANS	80302	76916	58814	55285	11591	282908	2317	3702	1459	1708	254	9440
040	Aircraft Pilots	5	9	211	13	0	238	0	0	1	0	0	1
041	Flight Engineers	7	10	21	55	0	93	3	2	0	0	0	5
042	Flight Navigators	0	1	5	1	0	7	0	0	0	0	0	0
043	Ship's Deck Officers and Pilots	44	24	630	188	0	886	0	0	0	0	0	0
044	Ships Engineers	50	13	84	19	0	166	2	0	3	0	0	5
049	Aircraft and Ship's Officers,n.e.c	0	0	68	4	0	72	0	0	4	0	0	4
04	AIRCRAFT AND SHIPS OFFICERS	106	57	1019	280	0	1462	5	2	8	0	0	15
050	Biologists,Zoologists,Botanists and Related Scientists	431	4494	422	376	52	5775	22	292	23	28	2	367
051	Bacteriologists,Pharmacologists&Related Scientists	200	800	450	128	529	2107	19	81	25	17	13	155
052	Silviculturists	169	225	80	62	24	560	21	1	1	2	0	25
053	Agronomists and Agricultural Scientists	1537	27104	2369	1677	1235	33922	60	1099	87	36	28	1310
059	Life Scientists, n.e.c	56	269	74	96	118	613	3	42	1	6	21	73
05	LIFE SCIENTISTS	2393	32892	3395	2339	1958	42977	125	1515	137	89	64	1930
060	Life Science Technicians	991	13762	1292	883	959	17887	109	1866	167	86	60	2288
06	LIFE SCIENCE TECHNICIANS	991	13762	1292	883	959	17887	109	1866	167	86	60	2288
070	Physicians and Surgeons,Allopathic	1598	29756	1116	926	2752	36148	209	5744	310	224	417	6904
071	Physicians and Surgeons,Ayurvedic	44	6929	98	95	600	7766	9	508	24	3	49	593
072	Physicians and Surgeons,Homeopathic	97	891	18	43	88	1137	8	201	1	2	14	226
073	Physicians and Surgeons,Unani	30	321	6	5	17	379	1	42	0	1	1	45
074	Dental Surgeons	171	1537	9	7	4	1728	18	411	0	1	2	432
075	Veterinarians	1626	13126	839	365	714	16670	59	434	31	12	2	538
076	Pharmacists	1201	24608	1609	1117	2882	31417	95	2828	178	198	125	3424
077	Dieticians and Nutritionists	53	557	73	11	7	701	1	469	4	9	3	486
078	Public Health Physicians	234	3244	98	75	837	4488	5	385	48	13	87	538
079	Physicians and Surgeons,n.e.c.	12	246	1	14	103	376	5	51	0	0	5	61
07	PHYS & SURGNS(INCLNG DENTAL & VETRNRY SURGEONS)	5066	81215	3867	2658	8004	100810	410	11073	596	463	705	13247
080	Vaccinators, Inoculators and Medical Assistants	505	6020	525	208	2776	10034	53	1039	95	109	213	1509
081	Dental Assistants	7	720	7	17	5	756	3	449	4	8	0	464
082	Veterinary Assistants	378	14684	1027	64	105	16258	21	202	56	0	7	286
083	Pharmaceutical Assistants	65	946	27	27	64	1129	3	343	2	2	9	359
084	Nurses	1767	59722	2411	1536	4290	69726	1257	47307	1635	1303	3732	55234
085	Midwives and Health Visitors	396	38496	1088	225	7855	48060	267	32229	798	152	7510	40956
086	X-Ray technicians	87	3913	206	51	157	4414	2	562	15	5	1	585

087	Optometrists and opticians	0	641	4	18	3	666	0	53	0	4	2	59
088	Physiotherapists and Occupational Therapists	110	503	43	16	19	691	16	165	8	8	11	208
089	Nursing, Sanitary and other Med Health Tech ,n.e.c	4311	98600	2985	2380	25380	133656	1574	38625	668	509	8605	49981
08	NURSES & OTHER MEDICAL & HEALTH TECHNICIANS	7626	224245	8323	4542	40654	285390	3196	120974	3281	2100	20090	149641
090	Scientific, Medical and Technical Persons Other	1964	1613	2374	138	293	6382	142	301	134	8	8	593
09	SCIENTIFIC MEDICAL&TECHNICAL PERSONS OTHER	1964	1613	2374	138	293	6382	142	301	134	8	8	593
100	Mathematicians	137	33	4	10	2	186	5	0	1	0	0	6
101	Statisticians	176	2246	139	185	145	2891	24	149	12	22	6	213
102	Actuaries	97	320	104	43	6	570	2	33	13	3	0	51
103	System Analysts and Programmers	207	1072	1678	658	16	3631	23	80	218	79	0	400
104	Statistical Investigators and Related Workers	1318	7381	884	877	546	11006	140	718	57	38	14	967
109	Mathematicians, Statisticians & Related Workers, n.e	3	52	3	4	1	63	0	5	1	0	0	6
10	MATHEMATICIANS, STATISTICIANS AND RELATED WORKERS	1938	11104	2812	1777	716	18347	194	985	302	142	20	1643
110	Economists	13	57	5	15	0	90	1	5	0	0	0	6
111	Economic Investigator and Related Workers	347	845	25	77	4	1298	22	55	0	1	0	78
119	Economists and Related Workers, n.e.c.	10	28	0	3	0	41	0	3	0	0	0	3
11	ECONOMISTS AND RELATED WORKERS	370	930	30	95	4	1429	23	63	0	1	0	87
120	Accountants and Auditors	32998	40498	48164	22627	6159	150446	5647	2900	1436	1236	389	11608
121	Cost and works Accountants	46	51	29	139	1	266	4	3	2	5	0	14
129	Accountants, Auditors and Related Workers n.e.c.	29	106	1	16	1	153	1	12	0	0	0	13
12	ACCOUNTANTS, AUDITORS AND RELATED WORKERS	33073	40655	48194	22782	6161	150865	5652	2915	1438	1241	389	11635
130	Sociologists and Anthropologists	26	94	56	70	19	265	2	11	20	0	3	36
131	Historians, Archeologists, Pol Scints&Rel Workers	86	79	7	7	5	184	8	10	2	0	0	20
132	Geographers	136	156	1	1	0	294	86	130	0	0	0	216
133	Psychologists	8	91	7	16	78	200	2	41	0	0	0	43
134	Librarians, Archivists and Curators	1009	8794	743	1114	705	12365	178	2236	240	168	137	2959
135	Philologists, Translators and Interpreters	721	868	1401	62	44	3096	164	181	186	6	4	541
136	Personnel and Occupational Specialists	266	1533	2125	1017	164	5105	17	178	196	46	12	449
137	Labour, Social Welfare & Political Workers	201	98037	236	2487	45093	146054	56	66676	63	935	22752	90482
139	Social Scientists and Related Workers, n.e.c.	20	64	13	33	12	142	2	18	3	0	2	25
13	SOCIAL SCIENTISTS AND RELATED WORKERS	2473	109716	4589	4807	46120	167705	515	69481	710	1155	22910	94771
140	Lawyers	33	1379	69	99	0	1580	1	53	3	6	0	63
141	Judges and Magistrates	22	3572	492	28	0	4114	1	208	57	2	0	268

142	Legal Assistants	30	697	97	209	68	1101	3	31	6	20	3	63
149	Jurists,n.e.c.	29	4800	138	75	165	5207	2	299	42	3	1	347
14	JURISTS	114	10448	796	411	233	12002	7	591	108	31	4	741
150	Teachers, University and Colleges	563	64358	1189	7377	509	73996	107	14234	160	1162	139	15802
151	Teachers,Higher Secondary & Secondary Schools	5146	315275	9935	4602	40943	375901	2087	88894	4696	1179	9326	106182
152	Teachers, Middle School	803	180318	1954	63849	63501	310425	370	73921	1162	12352	19022	106827
153	Teachers,Primary	1116	255030	3022	139002	206598	604768	615	94818	1837	28468	60351	186089
154	Teachers,Pre-Primary	14	9740	101	638	833	11326	9	8555	92	618	728	10002
155	Teachers,Special Education	1	764	14	0	0	779	0	138	9	0	0	147
156	Teachers, Craft	1028	29709	1271	1240	1803	35051	65	6217	499	126	813	7720
159	Teachers, n.e.c.	4956	11665	661	557	1398	19237	117	3705	251	43	232	4348
15	TEACHERS	13627	866859	18147	217265	315585	1431483	3370	290482	8706	43948	90611	437117
160	Poets, Authors and Critics	4	27	4	132	0	167	0	4	1	0	0	5
161	Editors and Journalists	134	228	62	23	8	455	24	22	8	2	2	58
169	Poets,Authors,Journalists and Related Workers,n.ec	413	1046	196	134	62	1851	19	106	14	12	4	155
16	POETS,AUTHORS,JOURNALISTS &RELATED WORKERS	551	1301	262	289	70	2473	43	132	23	14	6	218
170	Sculptors,Painters and Related Artists	44	183	7	169	134	537	6	37	0	0	34	77
171	Commercial Artists,Interior Decorators& Designers	336	430	962	4180	6	5914	41	27	135	12	0	215
172	Movie Camera Operators	158	57	2	5	2	224	12	0	0	0	0	12
173	Photographers,Other	197	352	121	25	23	718	4	9	3	1	0	17
179	Sculptors,Painters,Photographers&Related Creative Artists	2	11	2	17	0	32	0	1	0	2	0	3
17	SCULPTORS,PAINTERS,PHOTOGRAPHERS&RELATED CREATIVE ARTISTS	737	1033	1094	4396	165	7425	63	74	138	15	34	324
180	Composers,Musicians and Singers	451	595	84	72	44	1246	58	155	32	6	9	260
181	Choreographers and Dancers	5	60	0	15	0	80	0	10	0	3	0	13
182	Actors	33	177	0	0	82	292	17	16	0	0	21	54
183	Stage & Film Directors & Producers (PerformingArt)	118	106	21	3	2	250	19	9	1	0	1	30
189	Composers and Performing Artists,n.e.c.	808	448	116	43	2	1417	206	260	17	2	0	485
18	COMPOSERS AND PERFORMING ARTISTS	1415	1386	221	133	130	3285	300	450	50	11	31	842
190	Ordained Religious Workers	2	140	3	6	24	175	0	4	0	0	0	4
191	Non-ordained Religious Workers	1	74	1	136	15	227	0	1	0	1	0	2
193	Athletes,Sportsmen and Related Workers	423	23475	1329	506	1976	27709	99	4899	279	61	230	5568
199	Professional Workers n.e.c.	2252	12660	1418	1028	358	17716	87	1279	141	42	36	1585
19	PROFESSIONAL WORKERS,n.e.c.	2678	36349	2751	1676	2373	45827	186	6183	420	104	266	7159
0&1	PROFESSIONAL,TECHNICAL & RELATED WORKERS	202114	1567589	209179	367422	443234	2789538	18541	512558	19770	52169	135621	738659

202	Elected Officials, Local Bodies	0	0	0	0	59	59	0	0	0	0	1	1
20	ELECTED AND LEGISLATIVE OFFICIALS	0	0	0	0	59	59	0	0	0	0	1	1
210	Administrative & Executive Officials, Union Govt	13881	0	0	0	0	13881	910	0	0	0	0	910
211	Administrative&Executive Officials, State Government	0	95241	0	0	0	95241	0	6956	0	0	0	6956
212	Administrative&Executive Officials, Quasi Government	0	0	21724	22182	0	43906	0	0	1440	863	0	2303
213	Administrative&Executive Officials, Local Bodies	0	0	0	0	12869	12869	0	0	0	0	682	682
219	Administrative&Executive, Govt & Local Bodies, n.e.C	5	175	236	113	319	848	0	18	14	5	12	49
21	ADMINISTRATIVE & EXECUTIVE OFFICIALS, GOVT&LOC BODIES	13886	95416	21960	22295	13188	166745	910	6724	1454	868	694	10650
220	Working Proprietors, Dir. & Managers, Wholesale Trade	23	114	2128	897	9	3171	0	5	129	27	0	161
221	Working Proprietors Dirts & Managers, Retail Trade	3	128	117	1165	4	1417	0	15	6	28	0	49
229	Working Prop. Dir. and Managers Wholsl & Rtl Trade	0	0	6	29	0	35	0	0	1	0	0	1
22	WORKING PROPS, DIRTS&MANAGERS, WHOLESALE&RETAIL TRADE	26	242	2251	2091	13	4623	0	20	136	55	0	211
230	Directors and Managers, Bank	0	740	131620	19054	199	151613	0	24	7030	444	10	7508
231	Directors and Managers, Insurance	0	103	15761	244	22	16130	0	9	826	13	3	851
239	Directors and Managers, Financial Institution n.e.c	0	37	1283	1936	2	3258	0	2	67	77	0	146
23	DIRECTORS AND MANAGERS, FINANCIAL INSTITUTIONS	0	880	148664	21234	223	171001	0	35	7923	534	13	8505
240	Working Proprietors, Directors&Managers, Mining, Quar	36	27	1585	1424	2	3074	0	0	33	2	0	35
241	Working Proprietors, Directors&Managers, Construction	24	397	175	250	131	977	2	0	2	17	7	28
242	Working Proprietors, Directors&Managers, Electricity	26	559	716	209	36	1546	0	5	11	5	0	21
243	Working Proprietors, Dirs & Managers, Manufacturing	604	191	15183	4578	99	20655	10	17	343	97	0	467
249	Working Prop., Dir. & Managers, Mining, Conts. mfg. & Rel. Con.	1	21	2468	25	8	2523	0	0	33	0	0	33
24	WORKING PROP., DIR. & MANAGERS, MINING CONST. MFG. & REL. CON	691	1195	20127	6486	276	28775	12	22	422	121	7	584
250	Working Prop Dir, Managers & Rel Executives, Transport	1907	216	1138	3299	18	6578	18	11	105	46	0	180
251	Dir, Managers & Rel Executives, Communication	8087	80	339	317	0	8823	742	5	45	29	0	821
252	Working Prop Dirs, Managers&Rel, Storage, Warehouse	73	7	1610	1194	1	2885	2	0	40	48	0	90
259	Working Prop Dirs, Managers&Rel Exe. Tpt. store&com.nec	4	1	10	80	0	95	0	0	0	1	0	1
25	WORKING PROP DIR MANAGER & REL EXE. TPT, STOR & WAREHOUSE	10071	304	3097	4890	19	18381	762	16	190	124	0	1092
260	Working Props, Dirs & Managers, Lodging&Catering Ser	134	96	607	290	10	1137	12	8	17	21	0	58
261	Working Props, Dirs & Managers, Recreation & Entertai	397	70	66	29	30	592	67	38	5	0	0	110
269	Working Props, Dirs, Managers, & Rel Exe, Other service	476	1379	5139	2559	128	9681	42	160	223	165	7	597
26	WORKING PROP DIRS & MANAGERS, OTHER SERVICES	1007	1545	5812	2878	168	11410	121	206	245	186	7	765
299	Administrative, Executive & Managerial Workers, n.e.c	77	257	266	187	13	800	4	3	7	1	0	15
29	ADMINISTRATIVE, EXECUTIVE & MANAGERIAL WORKERS, n.e.c	77	257	266	187	13	800	4	3	7	1	0	15

2	ADMINISTRATIVE,EXECUTIVE & MANAGERIAL WORKERS	25758	99839	202177	60061	13959	401794	1809	7026	10377	1889	722	21823
300	Clerical Suprs (Off. Supdt) Head Clerk, Sec Head	25581	49146	15841	28778	6044	125390	2433	4689	1709	1521	696	11048
301	Other Supvr (Inspectors, etc)	9637	46322	7885	17000	13323	94167	557	3499	435	954	291	5736
302	Ministerial and Office Assistants	41294	135041	62178	53679	17782	309974	6978	18017	11492	5978	2047	44512
309	Clerical and Other Supervisors, n.e.c	204	140	235	329	209	1117	36	23	1	2	6	68
30	CLERICAL AND OTHER SUPERVISORS	76716	230649	86139	99786	37358	530648	10004	26228	13637	8455	3040	61364
310	Village Officials	0	59476	0	1173	9510	70159	0	621	0	59	416	1096
31	VILLAGE OFFICIALS	0	59476	0	1173	9510	70159	0	621	0	59	416	1096
320	Stenographers and Steno-Typists	11884	22160	11282	8223	1507	55056	2925	5711	2886	1930	369	13821
321	Typists	4407	24262	10417	9079	2980	51145	655	8980	2879	2635	1029	16178
322	Tele-Typists	30	64	1058	46	9	1207	0	12	77	5	3	97
323	Card & Tape punching Machine Operators	1067	323	543	206	24	2163	380	87	82	26	2	577
329	Steno,Typ,Card & Tape Punching Operator n.e.c	12	17	0	1	1	31	3	0	0	1	0	4
32	STENOGRAPHERS,TYPISTS.CARD& TAPE PUNCH OPRS.	17400	46826	23300	17555	4521	109602	3963	14790	5924	4597	1403	30677
330	Book Keepers and Accounts Clerk	8925	4992	205926	19443	1724	241010	1343	461	38385	1428	302	41919
331	Cashiers	1289	1672	24617	14264	753	42595	79	99	2438	334	34	2984
339	Bookkeepers,Cashiers & Related Workers,n.e.c.	128	247	1734	22	57	2188	12	20	219	0	6	257
33	BOOK KEEPERS CASHIERS AND RELATED WORKERS	10342	6911	232277	33729	2534	285793	1434	580	41042	1762	342	45160
340	Book-keeping & Calculating Machine Operators	821	2717	1824	1050	100	6512	213	281	321	51	8	874
341	Automatic Data Processing Machine Operators	686	280	4195	3717	49	8927	181	68	271	47	2	569
349	Computing Machine Operators,n.e.c	180	98	337	26	2	643	37	10	124	7	0	178
34	COMPUTING MACHINE OPERATORS	1687	3095	6356	4793	151	16082	431	359	716	105	10	1621
350	Clerks, General	122229	271754	72770	131706	76058	674517	16451	57818	9745	14441	9499	107954
351	StoreKeeper and Related Workers	14448	7286	8861	10137	1803	42535	336	554	332	261	325	1808
352	Receptionists	140	737	255	663	400	2195	16	94	57	89	13	269
353	Library Clerk	211	462	82	25	148	928	2	113	6	3	19	143
354	Time Keepers	242	594	619	1200	550	3205	25	12	5	19	7	68
355	Coder	0	28	5	67	9	109	0	1	0	2	0	3
356	Ticket Sellers	700	141	75	994	51	1961	25	14	4	59	4	106
357	Ticket Collectors,Checkers and Examiners	3561	922	42	717	35	5277	34	18	0	1	4	57
358	Office Attendants (Peons,Daftries etc)	132027	390234	129944	110886	83414	846505	7958	44964	10788	11944	11131	86785
359	Clerical & Rel Workers(incl Proof Readrs &Copy Holders	2348	13139	5221	3089	9886	33683	169	740	195	109	546	1759
35	CLERICAL AND RELATED WORKERS,	275906	685297	217874	259484	172354	1610915	25016	104328	21132	26928	21548	198952

360	Station Masters and Station Sup, Transport	6526	322	216	794	11	7869	44	9	8	106	1	168
361	Postmasters, Telegraphmasters and Other Supervisors	57471	0	0	0	0	57471	3030	0	0	0	0	3030
369	Transport & Communication Supervisors, n.e.c.	16224	1374	1075	15083	274	34030	737	30	118	32	2	919
36	TRANSPORT & COMMUNICATION SUPERVISORS	80221	1696	1291	15877	285	99370	3811	39	126	138	3	4117
370	Guard. and Breaksmen, Railway	7232	0	0	0	0	7232	0	0	0	0	0	0
371	Conductors, Transport	9320	6733	281	125470	1313	143117	25	87	5	245	27	389
379	Transport Conductors and Guards, n.e.c	4544	48	6	58	3	4659	86	0	0	0	0	86
37	TRANSPORT CONDUCTORS AND GUARDS	21096	6781	287	125528	1316	155008	111	87	5	245	27	475
380	Postmen	83024	0	0	0	0	83024	3200	0	0	0	0	3200
381	Messengers and Despatch Riders	13775	6250	12687	3678	189	36579	322	348	781	137	14	1602
389	Mail Distributor and Related Workers, n.e.c	51784	376	315	90	2	52567	2842	9	1	23	0	2875
38	MAIL DISTRIBUTORS AND RELATED WORKERS	148583	6626	13002	3768	191	172170	6364	357	782	160	14	7677
390	Telephone Operators	13696	2282	1210	1308	162	18658	2376	651	267	432	29	3755
391	Telegraphists and Signallers	8112	258	580	39	0	8989	2497	11	24	11	0	2543
392	Radio Communication and Wireless Operators	1666	1232	724	874	0	4496	200	19	28	25	0	272
399	Telephone and Telegraph Operators, n.e.c.	2593	43	303	378	0	3317	191	5	16	32	0	244
39	TELEPHONE AND TELEGRAPH OPERATORS	26067	3815	2817	2599	162	35460	5264	686	335	500	29	6814
3	CLERICAL AND RELATED WORKERS	658018	1051172	583343	564292	228382	3085207	56398	148075	83699	42949	26832	357953
410	Sales Supervisors	168	728	5512	2583	994	9985	45	27	104	176	33	385
411	Purchasing Agents	20	32	288	197	5	542	1	0	24	21	0	46
412	Selling Agents	56	6	0	112	0	174	6	3	0	22	0	31
419	Manufacturers Agents, n.e.c.	14	0	11	50	0	75	0	0	0	2	0	2
41	MANUFACTURERS AGENTS	258	766	5811	2942	999	10776	52	30	128	221	33	464
420	Technical Salesman and Service Advisors	27	50	166	968	0	1211	0	10	17	20	0	47
421	Commercial Travellers	0	1	3	166	0	170	0	0	0	0	0	0
429	Technical Salesmen & Commercial Travelers n.e.c	33	42	52	755	0	882	3	0	3	286	0	292
42	TECHNICAL SALESMEN AND COMMERCIAL TRAVELLERS	60	93	221	1889	0	2263	3	10	20	306	0	339
430	Salesmen, Shop Assistants and Demonstrators	104	933	719	17292	23	19071	5	137	58	1855	0	2055
439	Salesmen, Shop Assistant & Related Workers, n.e.c.	1013	138	221	3271	1	4644	5	14	49	231	0	299
43	SALESMEN, SHOP ASSISTANTS AND RELATED WORKERS	1117	1071	940	20563	24	23715	10	151	107	2086	0	2354
440	Agents and Salesmen, Insurance	0	0	79	10	0	89	0	0	0	0	0	0
44	INSUR, REAL EST,SECUR & BUSIN SERV SALSMAN & AUCTS	0	0	79	10	0	89	0	0	0	0	0	0
490	Sales Workers, n.e.c.	88	71	61	2134	47	2401	9	3	0	175	1	188
49	SALES WORKERS, n.e.c.	88	71	61	2134	47	2401	9	3	0	175	1	188

4	SALES WORKERS	1523	2001	7112	27538	1070	39244	74	194	255	2788	34	3345
510	House Keepers, Matrons and Stewards	109	20625	474	194	706	22108	10	17280	61	48	314	17713
51	HOUSE KEEPR MATR & STEWRS (DOMESTIC AND INSTITUTIO	109	20625	474	194	706	22108	10	17280	61	48	314	17713
520	Cooks and Cook Bearers	6469	36928	3595	3241	39735	89968	209	18461	197	441	36846	56154
521	Butlers, Bearers and Waiters	1413	526	1068	1247	181	4435	51	51	24	79	121	326
522	Bartenders and Related Workers	25	170	9	63	0	267	0	66	0	3	0	69
529	Cooks, Waiters and Related Workers, n.e.c.	860	434	483	487	414	2678	31	60	36	102	392	621
52	COOKS WAITERS. BARTEN & RELATED WORKS (DOM & INST)	8767	38058	5155	5038	40330	97348	291	18638	257	625	37359	57170
530	Ayahs, Nurse, Maids	116	32741	107	628	3739	37331	71	29299	41	377	3199	32987
539	Maids and Related Housekeeping Service Workrs n.ec	236	478	864	230	0	1808	2	203	238	4	0	447
53	MAIDS & RELATED HOUSE KEEPING SERVICE WORKERS nec	352	33219	971	858	3739	39139	73	29502	279	381	3199	33434
540	Building Caretakers	1576	865	185	286	53	2965	105	63	14	19	3	204
541	Sweepers, Cleaners and Related Workers	43342	51091	19847	15474	184443	314197	6666	14139	5486	4057	69662	100010
542	Waterman	3511	4772	404	1442	5035	15164	612	657	64	337	882	2552
549	Buildg Caretakers, Sweepers, Cleaners & Relt Workers	88	11	4	2	120	225	6	0	0	0	12	18
54	BUILDING CARETAKERS, SWEEPERS CLEANERS & RELD WORKR	48517	56739	20440	17204	189651	332551	7389	14859	5564	4413	70559	102784
550	Laundrymen, Washermen and Dhobis	1665	1682	94	163	354	3958	40	155	2	27	25	249
551	Dry Cleaner and Pressers	127	21	47	2	0	197	8	0	0	0	0	8
559	Launderers, Dry Cleaners and Pressers, n.e.c	0	173	2	0	0	175	0	2	0	0	0	2
55	LAUNDERERS, DRYCLEANERS AND PRESSERS	1792	1876	143	165	354	4330	48	157	2	27	25	259
560	Hair Dressers, Barbers, Beautician & Related works	1116	578	54	98	1	1847	11	13	0	2	0	26
56	HAIR DRESSEERS, BARBERS, BEAUTICIAN & RELT WORKERS	1116	578	54	98	1	1847	11	13	0	2	0	26
570	Fire Fighters	3278	16422	2008	853	2419	24980	7	2903	12	13	320	3255
571	Policemen and Detectives	23804	398436	9901	1844	262	434247	326	7738	124	48	15	8251
572	Customs Examiners Patrollers & Related Workers	6454	10711	403	115	129	17812	311	127	20	0	1	459
573	Protection Force, Home Guard and Security Workers	3097	17979	1427	2235	113	24851	23	497	25	14	1	560
574	Watchmen, Chowkidars and Gate Keepers	29161	62260	31772	38791	18315	180299	395	4282	761	567	730	6735
579	Protective Service Workers, n.e.c.	49	3866	19	42	4	3980	1	45	0	0	0	46
57	PROTECTIVE SERVICE WORKERS	65843	509674	45530	43880	21242	686169	1063	15592	942	642	1067	19306
590	Guides	61	336	5	124	0	526	0	189	2	4	0	195
591	Undertakers And Embalmers	1	382	20	11	0	414	0	40	0	0	0	40
599	Service Workers, n.e.c.	2835	1349	209	1375	393	6161	19	601	10	88	205	923
59	SERVICE WORKERS, n.e.c.	2897	2067	234	1510	393	7101	19	830	12	92	205	1158



5	SERVICE WORKERS	129393	662836	73001	68947	256416	1190593	8904	96871	7117	6230	112728	231850
600	Farm Managers & Supervisors, Crop Production	1085	23355	2756	2469	1460	31125	30	413	49	70	9	571
601	Manager, Plantation	9	339	141	329	10	828	1	5	0	0	0	6
602	Farm Managers, Horticulture	20	1037	30	88	15	1190	1	11	2	7	0	21
603	Farm Managers, Livestock Farm	146	1033	59	33	1017	2288	1	8	11	0	1	21
604	Farm Managers, Dairy Farm	55	370	165	814	130	1534	0	4	1	43	0	48
605	Farm Managers, Poultry Farm	13	97	1	4	0	115	0	3	0	0	0	3
609	Farm Managers and Supervisors, n.e.c.	220	1151	954	772	47	3144	21	72	8	12	2	115
60	FARM, PLANTATION, DAIRY & OTHER MANAGERS & SUPERVISORS	1548	27382	4106	4509	2679	40224	54	516	71	132	12	785
620	Planters	24	171	17	176	3	391	0	4	1	3	0	8
621	Livestock Farmers	108	152	5	6	4	275	26	2	0	0	0	28
622	Dairy Farmers	51	171	1	640	0	863	1	5	0	14	0	20
623	Poultry Farmers	0	47	5	151	0	203	0	6	2	20	0	28
624	Insect Rearers	110	1414	42	60	6	1632	7	136	1	0	0	144
629	Farmers, Other than Cultivators, n.e.c.	53	85	43	4	0	185	2	7	11	0	0	20
62	FARMERS, OTHER THAN CULTIVATORS	346	2040	113	1037	13	3549	36	160	15	37	0	248
630	Agricultural Labourers	1059	5584	1096	1182	597	9518	21	255	39	447	18	780
63	AGRICULTURAL LABOURERS	1059	5584	1096	1182	597	9518	21	255	39	447	18	780
640	Plantation Labourers	29	486	1214	5907	381	8017	0	106	888	3622	141	4757
641	Tappers, (Palm, Rubber Trees, etc.)	0	15	60	1130	0	1205	0	1	14	342	0	357
649	Plantation Labourers and Related Workers, n.e.c.	86	303	46	50	1	486	5	7	0	0	0	12
64	PLANTATION LABOURERS AND RELATED WORKERS	115	804	1320	7087	382	9708	5	114	902	3964	141	5126
650	Farm Machinery Operators	466	1960	189	727	523	3865	0	0	0	0	0	0
651	Farm Workers, Animal, Birds and Insect Rearing	1206	6698	618	3877	528	12927	46	108	26	152	58	390
652	Gardeners and Nursery Workers	4301	19918	1589	3226	6368	35402	214	1249	88	269	690	2510
659	Other Farm Workers, n.e.c.	573	1123	24	50	214	1984	23	81	2	98	23	227
65	OTHER FARM WORKERS	6546	29699	2420	7880	7633	54178	283	1438	116	519	771	3127
660	Foresters and Related Workers	103	55473	9148	3879	243	68846	1	214	237	26	0	478
663	Charcoal Burners & Forest Product Processors	0	18	13	0	0	31	0	0	0	0	0	0
669	Loggers and Other Forestry Workers, n.e.c.	28	255	2112	266	0	2661	0	6	205	0	0	211
66	FORESTRY WORKERS	131	55746	11273	4145	243	71538	1	220	442	26	0	689
670	Hunters	1	28	0	0	0	29	0	0	0	0	0	0
671	Trappers	0	0	0	0	1	1	0	0	0	0	0	0
679	Hunters and Related Workers, n.e.c.	0	2	0	27	2	31	0	0	0	0	0	0

67	HUNTERS AND RELATED WORKERS	1	30	0	27	3	61	0	0	0	0	0	0
680	Fishermen, Deep Sea	5	239	0	20	1	265	0	0	0	0	0	0
681	Fishermen, Inland and Coastal Waters	0	1000	11	922	0	1933	0	10	0	0	0	10
682	Conch & Shell Gatherers Sponge & Pearl Divers	1	13	9	1	0	24	0	2	0	0	0	2
689	Fishermen and Related Workers, n.e.c	225	4056	622	459	123	5485	3	129	1	51	14	198
68	FISHERMEN AND RELATED WORKERS	231	5308	642	1402	124	7707	3	141	1	51	14	210
6	FARMERS,FISHERMEN,HUNTERS,LOGGERS & RELATED WORKERS	9977	126593	20970	27269	11674	196483	403	2844	1586	5176	956	10965
710	Sup & Foremen,Minig,Quarry,Well Drill & Rel Acts.	0	143	12098	3865	0	16106	0	0	44	54	0	98
711	Miners	0	29	8874	60154	0	69057	0	2	355	0	0	357
712	Quarrymen	0	14	416	214	0	644	0	0	9	0	0	9
713	Drillers, Mines and Quarries	0	733	1717	736	0	3186	0	0	219	0	0	219
714	Shot Firers	0	89	1036	3474	0	4599	0	0	24	4	0	28
715	Miners and Quarrymen, Other	0	127	15508	17928	0	33563	0	5	589	107	0	701
716	Well Drillers, Petroleum and Gas	0	308	849	218	0	1375	0	0	2	8	0	10
717	Well Drillers, Other than Petroleum and Gas	0	785	263	38	0	1086	0	0	1	0	0	1
718	Mineral Treaters	0	2	182	1515	0	1699	0	0	30	303	0	333
719	Miners, Quarrymen & Related Workers, n.e.c.	0	58	12708	36349	0	49115	0	0	1043	112	0	1155
71	MINERS, QUARRYMEN,WELL DRILLERS & RELATED WORKERS	0	2288	53651	124491	0	180430	0	7	2316	588	0	2911
720	Supervisor & Foremen,Metal Smeltg Converting Refin	470	249	2328	1865	0	4912	2	11	51	3	0	67
721	Metal Smelting, Converting & Refining Furnacemen	11	49	2007	501	0	2568	3	1	9	0	0	13
722	Metal Rolling Mill Workers	0	5	281	170	0	456	0	1	0	36	0	37
723	Metal Melters and Reheaters	663	43	846	413	0	1965	0	1	0	29	0	30
724	Metal Casters	0	11	359	216	0	586	0	0	0	0	0	0
725	Metal Moulders and Core Makers	564	120	2188	532	0	3404	8	4	39	0	0	51
726	Metal Annealers, Temperers and Case Hardeners	18	6	465	164	0	653	2	1	0	0	0	3
727	Metal Drawers and Extruders	5	26	300	28	0	359	0	1	2	0	0	3
728	Metal Platers and Coaters	332	508	354	78	0	1272	8	28	8	7	0	51
729	Metal Processors, n.ec.	16	4	788	16	0	824	0	0	1	0	0	1
72	METAL PROCESSORS	2079	1021	9916	3983	0	16999	23	48	110	75	0	256
730	Supr & Foremen,Wood Preparation & Paper Making	88	11	11	70	0	980	2	0	0	0	0	2
731	Wood Treaters	0	0	0	3	0	3	0	0	0	0	0	0
732	Sawyers,Plywood Makers & Related Wood Process Work	4	15	17	75	0	111	1	2	0	0	0	3
733	Paper Pulp Preparers	760	63	240	521	0	1184	2	1	9	0	0	12

734	Paper Makers	702	26	51	578	0	957	1	1	4	13	0	19
739	Wood Preparation and Paper Making Workers n.e.c	11	0	0	0	0	11	1	0	0	0	0	1
73	WOOD PREPARATION WORKERS AND PAPER MAKERS	1565	115	319	1247	0	3246	7	4	13	13	0	37
740	Sup & Foremen,Chemical Processing & Rel Activities	459	28	1201	547	1	2236	3	2	27	0	0	32
741	Crushers, Grinders and Mixers	50	90	175	1324	12	1651	1	0	33	2	0	36
742	Cookers, Roasters and Related Heat Treaters	6	13	8	430	0	457	0	2	0	4	0	6
743	Filter and Separator Operator	17	50	1344	172	0	1583	0	0	43	0	0	43
744	Still and Reactor Operators	0	0	325	242	0	567	0	0	1	0	0	1
745	Petroleum Refining Workers,	57	7	4599	282	0	4945	0	0	65	2	0	67
749	Chemical Processors and Related Workers, n.e.c.	3594	478	2689	634	9	7404	0	2	59	15	0	76
74	CHEMICAL PROCESSORS AND RELATED WORKERS	4183	666	10341	3631	22	18843	4	6	228	23	0	261
750	Sups & Foremen,Spinning,Weaving,Knitting Dying & Related Processing	792	144	447	3166	18	4567	44	6	0	74	3	127
751	Fibre Preparers	254	202	879	4339	4	5678	8	49	20	150	0	227
752	Spinners and Winders	406	552	4471	17880	4	23313	50	338	156	479	1	1024
753	Wrappers and Sizers	15	8	29	937	0	989	3	0	0	10	0	13
754	Weaving & Knitting Mach Setters & Pattern Card Pre	13	43	98	429	0	583	0	3	18	26	0	47
755	Weavers and Related Workers	129	52	594	6812	7	7594	5	6	30	183	0	224
756	Carpet Makers and Finishers	6	6	56	118	0	186	1	2	0	92	0	95
757	Knitters	2	12	757	519	0	1290	0	12	15	84	0	111
758	Bleachers Dyers and Textile Product Finishers	128	51	296	843	3	1321	1	9	0	28	0	38
759	Spinners Weavers,Knitters,Dyers & Reld Works n.e.c	36	72	1845	691	12	2656	4	10	60	10	0	84
75	SPINNERS, WEAVERS,KNITTERS DYERS AND RELATED WORKR	1781	1142	9472	35734	48	48177	116	435	299	1136	4	1990
760	Supervisors & Foremen,Tanning & Pelt Dressing	0	4	0	10	0	14	0	0	0	0	0	0
761	Tanners and Fellmongers	2	111	1	126	4	244	0	1	0	4	0	5
762	Pelt Dressers	0	41	30	3	4	78	0	0	0	0	0	0
769	Fellmongers and Pelt Dressers, n.e.c.	0	0	0	2	6	8	0	0	0	0	0	0
76	TANNERS, FELLMONGERS AND PELT DRESSERS	2	156	31	141	14	344	0	1	0	4	0	5
770	Supervisors & Foremen,Food & Beverage Processing	34	259	973	1198	2	2466	0	63	12	31	0	106
771	Grain Millers, Parchers and Related Workers	65	39	53	301	10	468	0	2	5	4	0	11
772	Crushers and Pressers,Oil Seeds	0	87	117	473	2	679	0	0	4	16	0	20
773	Khandsari, Sugar and Gur Makers	256	523	2088	6292	276	9435	15	22	138	257	20	452
774	Butchers and Meat Preparers	8	19	2	65	1	95	0	2	0	5	0	7
775	Food Preservers and Canners	74	150	436	723	33	1416	2	6	42	8	0	58

776	Dairy Product Processors	2	136	673	2554	0	3365	0	1	20	129	0	150
777	Bakers, Confect, Candy & Sweet Meat Maker, & oth Food Pro.	16	36	868	105	0	1025	0	5	9	6	0	20
778	Tea, Coffee & Cocoa Preparers	48	0	35	925	0	1008	0	0	0	176	0	176
779	Brewers & Aerated Water & Beverage Makers	35	23	80	407	0	545	5	0	9	20	0	34
77	FOOD AND BEVERAGE PROCESSORS	538	1272	5325	13043	324	20502	22	101	239	652	20	1034
790	Sup & Foremen, Tailors, Dress Making, Sewing, Upholstry	580	18	70	142	0	810	1	5	0	7	0	13
791	Tailors and Dress Makers	8634	557	66	128	24	9409	223	216	4	5	9	457
792	Fur Tailors and Related Workers	0	3	18	7	3	31	0	0	11	0	0	11
793	Milliners, Hat and Cap Makers	1	0	70	4	1	76	0	0	0	0	0	0
794	Pattern Makers and Cutters	15	15	26	181	0	237	1	2	0	1	0	4
795	Sewers and Embroiders	8	19	291	259	2	579	0	4	6	2	0	12
796	Upholsterers and Related Workers	137	79	5	232	1	454	7	1	0	1	0	9
799	Tailors, Dres maker, Sewers, upholses & Related Workers n.e.c 30	11	19	53	1	114	0	2	0	0	0	0	2
79	TAILORS, DRESS MAKERS, SEWERS, UPHOLSTERERS & RETED WORKS	9405	702	565	1006	32	11710	232	230	21	16	9	508
800	Supervisors & Foremen, Shoe & Leather Goods Making	4	20	1	136	1	162	0	1	0	6	0	7
801	Shoe Makers & Shoe Repairers	268	119	37	353	14	791	35	4	1	6	0	46
802	Shoe Cutters, Lasters, Sewers and Related Workers	11	74	123	1448	11	1667	0	0	25	22	0	47
803	Harness and Saddle Makers	25	3	0	56	6	90	0	0	0	3	0	3
809	Leather Cutter, Lasters & Sewers & Reld Worker n.e.c	5	2	0	37	0	44	0	0	0	0	0	0
80	SHOEMAKERS AND LEATHER GOODS MAKERS	313	218	161	2030	32	2754	35	5	26	37	0	103
810	Sup, Forem, Carp, Cabinet Makg & Rel Wood Work Process	37	4	7	20	31	99	0	0	0	0	0	0
811	Carpenters	4184	2127	1487	3160	576	11534	20	27	5	33	1	86
812	Cabinet Makers	26	19	0	5	0	50	0	2	0	0	0	2
813	Wood Working Machine Operators	87	96	79	165	8	435	0	0	0	0	0	0
814	Cart Builders and Wheel Wrights	0	2	1	6	1	10	0	0	0	0	0	0
815	Coach and Body Builders	27	13	0	866	3	909	0	0	0	0	0	0
816	Shipwrights and Boat Builders	7	15	35	63	6	126	0	0	0	0	0	0
819	Carpenters, Cabinet Makers & Related Workers, n.e.c.	74	22	18	14	5	133	0	0	0	0	0	0
81	CARPENTERS, CABINET AND RELATED WOOD WORKERS	4442	2298	1627	4299	630	13296	20	29	5	33	1	88
820	Supervisors and Foremen, Stone Cutting and Carving	45	1	14	5	0	65	0	0	0	0	0	0
821	Stone Cutters and Carvers	53	107	16	16	22	214	0	0	0	2	1	3
829	Stone Cutters and Carvers, n.e.c.	4	0	59	0	0	63	0	0	0	0	0	0
82	STONE CUTTERS AND CARVERS	102	108	89	21	22	342	0	0	0	2	1	3
830	Suprs & Forem, Blacksmithy, Toolmaking, Mach Tool Opt	114	74	593	239	9	1029	1	0	23	3	0	27

831	Blacksmiths,Hammersmiths & Forging Press Operators	3805	1261	604	2917	342	8929	5	6	42	4	0	57
832	Metal Markers	69	75	84	86	6	320	0	0	3	0	0	3
833	Tool Makers and Metal Pattern Makers	178	295	716	238	7	1434	0	2	26	0	0	28
834	Machine Tool Setters	36	23	18	8	1	86	6	1	0	0	0	7
835	Machine Tool Operators	5814	3182	16910	7466	163	33535	37	35	1514	113	2	1701
836	Metal Grinders, Polishers and Tool Sharpeners	283	21	881	289	9	1483	2	2	0	7	0	11
839	Blacksmiths,Toolmakers,Machine Tool Operators,n.e.c	373	86	329	76	20	884	24	0	3	6	0	33
83	BLACKSMITHS,TOOL-MAKERS AND MACHINE TOOL OPERATORS	10672	5017	20135	11319	557	47700	75	46	1611	133	2	1867
840	Sup & Fore,Mach Fittg,Assem,Rep & Pre Inst Making	13317	565	7785	2185	36	23888	33	13	104	10	0	160
841	Watch,Clock & Precision Instru Makers(Expt Elect)	597	997	2720	1869	410	6593	83	105	109	407	56	760
842	Machinery Fitters and Machine Assemblers	21582	8047	10826	20286	2647	63388	72	32	103	67	34	308
843	Motor Vehicle Mechanics	2514	4893	3235	27297	785	38724	50	25	62	187	48	372
844	Aircraft Engine Mechanics	911	106	1824	397	0	3238	12	5	198	5	0	220
845	Mechanics, Repairmen, Other	9288	5891	13828	14714	2178	45899	69	49	72	67	65	322
849	Mach Fittr,Mach Assem & Preci Instru Makr(E.E)nec	323	178	1382	164	8	2055	6	14	4	0	0	24
84	MACHINERY FITTERS,MACHINE ASSEMBLERS AND PRECISION INSTRUMENT MAKERS (EXCEPT ELECTRICAL)	48532	20677	41600	66912	6064	183785	325	243	652	743	203	2166
850	Sup & Forem,Elect & Electr Equip Fitg Assem & Inst&Rep.	8007	903	4005	12033	111	25059	129	29	374	63	4	599
851	Electricians,Electrical Fitters and Related Workers	15501	8578	11647	60014	2432	98172	112	510	53	178	15	868
852	Electronics Fitters	394	87	2258	927	43	3709	5	3	23	93	0	124
853	Electrical and Electronic Equipment Assemblers	1834	45	1190	1684	89	4842	8	0	53	93	0	154
854	Radio Television Mechanics and Repairmen	815	1326	1696	919	84	4840	18	49	363	237	0	667
855	Electrical Wiremen	4486	1389	2146	16431	2120	26572	50	11	235	141	0	437
856	Telephone and Telegraph Installers and Repairmen	11315	85	1165	585	5	13155	388	1	8	5	0	402
857	Electric Linemen and Cable Jointers	10145	5494	1376	83049	7072	107136	69	26	14	334	0	443
859	Elect Fittr & Rel Electrical & Electronic Workers n.e.c.	2118	387	4068	6440	216	13229	18	3	31	102	3	157
85	ELECTRICAL FITTR & RELD ELECTRICAL & ELECTRONIC WORK	54615	18294	29551	182082	12172	296714	797	632	1154	1246	22	3851
860	Sup,Broadcastg, Audio-Visual Proj & Sound Equ Oprs	180	47	29	13	2	271	21	1	3	0	0	25
861	Radio Broadcasting Television Operators	644	110	33	46	0	833	57	0	0	0	0	57
862	Sound Equip Operators & Cinema Projectionists	235	1091	382	130	32	1870	2	33	27	5	0	67
869	Broadcasg Stat & Sound Equi Opt & Cinema Projectis	9	32	77	64	0	182	3	5	5	0	0	13
86	BROADCASTING STATION AND SOUND EQUIPMENT OPERATORS AND CINEMA PROJECTIONISTS.	1068	1280	521	253	34	3156	83	39	35	5	0	162
870	Sup,Forem,Plumbg,Weldg Struc & Sheet Metal Working	80	196	176	159	150	761	4	10	0	1	0	15
871	Plumbers and Pipe Fitters	811	5291	1073	3878	2595	13648	0	22	20	26	42	110

872	Welders and Flame Cutters	1953	2035	5545	3635	196	13364	5	55	4	4	7	75
873	Sheet Metal Workers	658	170	256	1665	11	2760	0	8	0	1	0	9
874	Metal Plate and Structural Metal Workers	1301	77	586	420	41	2425	5	4	0	6	0	15
879	Plumb,Weld,Sheet Met & Struct Met. Prep & Erec n.e.c	84	30	126	213	1	454	0	0	0	0	0	0
87	PLUMBERS,WELDERS,SHEET METAL AND STRUCTURAL METAL PREPARERS AND ERECTORS.	4887	7799	7762	9970	2994	33412	14	99	24	38	49	224
880	Supervisors,Jewellery,and Precious Metal Working	1	3	1	0	0	5	0	0	0	0	0	0
881	Jewellers,Goldsmiths & Silversmiths	44	10	5	121	6	186	0	0	0	0	0	0
883	Other Metal Engravers (Except Printing)	161	42	40	16	0	259	23	6	0	0	0	29
889	Jewellers & Precious Metal Workers,n.e.c(Ex Print)	25	0	13	1	0	39	0	0	0	0	0	0
88	JEWELLERY AND PRECIOUS METAL WORKERS AND METAL ENGRAVERS (EXCEPT PRINTING)	231	55	59	138	6	489	23	6	0	0	0	29
890	Sup & Foremen,Glass Forming,Pottery & Relat Activ	47	1	4	5	0	57	0	0	0	0	0	0
891	Glass Formers, Cutters,Grinders and Finishers	24	69	22	420	10	545	0	1	8	0	0	9
892	Potters and Related Clay & Abrasive Formers	2	18	23	95	3	141	0	1	1	0	0	2
893	Glass and Ceramic Kilnmen	25	19	49	232	0	325	0	0	7	0	0	7
894	Glass Engravers and Etchers	1	6	2	26	3	38	0	0	0	0	0	0
895	Glass and Ceramics Painters and Decorators	0	27	92	0	0	119	0	0	0	0	0	0
899	Glass Formers,Potters & Related Workers,n.e.c.	4	101	545	589	10	1249	0	17	12	18	0	47
89	GLASS FORMERS,POTTERS AND RELATED WORKERS	103	241	737	1367	26	2474	0	19	28	18	0	65
900	Sup &Foremen,Rubber &Plastics Product Making	37	2	145	29	0	213	2	0	1	0	0	3
901	Plastic Product Makers	12	19	205	157	7	400	0	0	2	38	0	40
902	Rubber Product Makers(Except Tyre mkr & Vulcaniser)	3	24	48	12	0	87	0	2	0	4	0	6
903	Tyre Makers and Vulcanisers	158	285	395	2479	27	3344	1	2	0	7	0	10
909	Rubber and Plastics Product Makers,n.e.c	0	0	0	0	0	0	0	0	0	0	0	0
90	RUBBER & PLASTICS PRODUCTS MAKERS	210	330	793	2677	34	4044	3	4	3	49	0	59
910	Sup & Foremen Paper &Paper Board Product Making	28	12	1	6	2	49	0	0	0	0	0	0
911	Paper and Paper Board Product Makers	4	11	1	107	0	123	0	0	0	40	0	40
919	Paper And Paper Product Makers, n.e.c.	0	1	0	4	0	5	0	0	0	0	0	0
91	PAPER AND PAPER BOARD PRODUCT MAKERS	32	24	2	117	2	177	0	0	0	40	0	40
920	Supervisors & Foremen Printing & Related Work	190	451	103	184	1	929	0	6	1	5	0	12
921	Compositors	991	2709	290	623	23	4636	7	104	10	74	1	196
922	Type Setters and Photo-Type Setters	258	371	37	218	7	891	3	0	0	1	0	4
923	Printing Pressman	1651	2896	250	749	32	5578	0	173	0	10	6	189
924	Stereo-Typers and Electro-Typers	39	44	62	2	4	151	0	0	0	0	0	0

925	Engravers,Printing(Except Photo Engravers)	83	105	8	44	3	243	0	2	0	0	0	2
926	Photo Engravers	828	299	610	737	51	2525	20	35	49	116	19	239
927	Book Binders and Related workers	2484	2657	317	1041	56	6555	61	281	4	105	1	452
928	Photographic Dark Room Workers	100	360	268	211	12	951	3	24	7	82	0	116
929	Printers and Related Workers, n.e.c.	68	88	38	155	9	358	2	4	0	0	0	6
92	PRINTERS AND RELATED WORKERS	6692	9980	1983	3964	198	22817	96	629	71	393	27	1216
930	Supervisors and Foremen,Painting	31	11	9	83	21	155	0	1	2	0	0	3
931	Painters, Construction	812	40	685	382	18	1937	1	0	3	1	0	5
932	Painters, Spray and Sign Writing	2329	800	1134	828	33	5124	34	34	4	45	0	117
939	Painters, n.e.c.	918	12	56	67	1	1054	0	0	22	1	0	23
93	PAINTERS	4090	863	1884	1360	73	8270	35	35	31	47	0	148
940	Supervisors and Foremen Prod & Related Activities	22	43	119	262	0	446	2	1	0	10	0	13
941	Musical Instrument Makers and Tuners	397	81	13	102	39	632	0	1	0	1	0	2
942	Basketry Weavers and Brush Makers	470	88	17	43	3	621	3	32	0	0	0	35
943	Non-Metallic Mineral Product Makers	1633	133	15	403	116	2300	3	1	1	183	2	190
949	Production and Related Workers, n.e.c.	2168	202	1041	859	10	4280	66	38	68	88	0	260
94	PRODUCTION AND RELATEDWORKERS,n.e.c	4690	547	1205	1669	168	8279	74	73	69	282	2	500
950	Sup &Foremen,Bricklaying&Other Construction work	834	7970	680	1744	1572	12800	20	144	1	28	31	224
951	Bricklayers, Stone Masons and Tile Setters	1547	3530	608	1354	1089	8128	5	38	4	13	12	72
952	Reinforced Concreaters, Cement Finishers&Terrazzo workers	35	23	6	870	11	945	0	0	0	0	0	0
953	Roofers	1	12	3	3	0	19	0	0	0	0	0	0
954	Parquetry Workers	1	1	0	16	4	22	0	0	0	0	0	0
955	Plasterers	0	19	3	59	0	81	0	0	0	0	0	0
956	Insulators	130	196	12	19	9	366	0	0	0	0	0	0
957	Glaziers	10	122	21	200	2	355	0	0	0	0	0	0
958	Hut Builders And Thatchers	2	71	0	10	1	84	0	0	0	0	0	0
959	Construction Workers, n.e.c.	3400	16265	2091	1483	1139	24378	148	624	110	680	164	1728
95	BRICKLAYERS AND OTHER CONSTRUCTION WORKERS	5960	28209	3424	5758	3827	47178	173	806	115	721	209	2024
960	Sup&Foremen,Stationary&Related Equipment operator	45	68	509	96	1	719	0	0	1	0	0	1
961	Stationary Engine&Related Equipment Operators	3350	27095	5185	16040	6946	58616	25	110	222	88	66	511
962	Boilermen and Firemen	5191	444	785	1944	467	8831	16	4	4	6	0	30
963	Oilers & Greasers (Inc Cleaners Motor Vehicle)	6596	6075	2729	10760	1906	28066	57	129	105	422	43	756
969	Stationary Engine & Rel Equipment Operators, n.e.c	8	284	312	95	98	797	0	0	0	0	0	0
96	STATIONARY ENGINES&REL EQUIP, OPER &OILERS&GREASERS	15190	33966	9520	28935	9418	97029	98	243	332	516	109	1298

970	Suprs &Foremen Material &Freight Handling&Rel Eqpt opr	47	54	111	24	5	241	0	0	0	0	0	0
971	Loader and Unloaders	134	284	1413	154	150	2135	0	0	0	0	0	0
972	Riggers and Cable Splicers	274	137	1471	560	1	2443	0	0	0	0	0	0
973	Crane and Hoist Operators	420	230	3625	3296	21	7592	0	0	0	0	0	0
974	Earth Moving & Related Machinery Operators	359	1229	3891	3011	299	8789	0	0	0	0	0	0
975	Checkers Testers, Sorters,Weighers and Counters	2884	585	308	2440	223	6440	44	32	3	145	2	226
976	Packers, Labellers and Related Workers	3182	405	354	4490	63	8494	158	15	17	304	0	494
979	Material Handling Equipment Operators, n.e.c.	413	579	415	183	252	1842	0	0	0	0	0	0
97	MATERIAL HANDLING & REL EQUIP OPERS. DOCKERS & FRIEGHT HANDLERS	7713	3503	11588	14158	1014	37976	202	47	20	449	2	720
980	Supervisors &Foremen,Transport Equipment Operation	48	36	13	73	1	171	0	0	0	0	0	0
981	Ships'Deck Ratings,Barge Crews and Boatmen	28091	8471	4149	2956	1268	44935	0	0	0	0	0	0
982	Ships' Engine Room Ratings	57	34	76	160	0	327	0	0	0	0	0	0
983	Drivers, Railways	10709	0	0	0	0	10709	0	0	0	0	0	0
984	Fireman, Railways	4311	0	0	0	0	4311	0	0	0	0	0	0
985	Pointsmen Signalmen and Shunters, Railways	14214	0	0	0	0	14214	0	0	0	0	0	0
986	Tram Car and Motor Vehicle Drivers	24159	68267	15224	149031	13545	270226	0	0	0	0	0	0
987	Drivers, Animal and Animal Drawn Vehicles	22	372	8	16	36	454	0	0	0	0	0	0
988	Cycle Rickshaw Drivers and Rickshaw Pullers	0	44	2	6	13	65	0	0	0	0	0	0
989	Transport Equipment Operators and Drivers,n.e.c.	9416	733	35	494	52	10730	0	0	0	0	0	0
98	TRANSPORT EQUIPMENT OPERATORS	91027	77957	19507	152736	14915	356142	0	0	0	0	0	0
999	Labourers,n.e.c.	144370	139729	49092	208467	45942	587600	11720	22928	9152	25529	11642	80971
99	LABOURERS,n.e.c.	144370	139729	49092	208467	45942	587600	11720	22928	9152	25529	11642	80971
7,&9	PRODUCTION AND RELATED WORKERS TRANSPORT EQUIPMENT OPERAORS AND LABOURERS	424492	358457	290860	881508	98568	2053885	14177	26715	16554	32788	12302	102536
	TOTAL EMPLOYMENT	1451275	3868487	1386642	1997037	1053303	9756744	100306	794283	139358	143989	289195	146713



Sl. No.	Name of States/UTs	Service workers (Div. 5)		Farmers, Fishermen Hunters Loggers and related Workers (Div. 6)		Production and related workers Transport eqpt operators and labourers (Div. 7,8&9)		Total	
		No.	%	No.	%	No.	%	No.	%
		11	12	13	14	15	16	17	18
1	Andhra Pradesh	85901	9.5	12359	1.4	330232	36.6	901375	100.0
2	Assam	22017	11.9	11524	6.2	20100	10.8	185212	100.0
3	Bihar	2088	5.8	807	2.3	4088	11.4	35767	100.0
4	Chhattisgarh	20531	10.5	5813	3.0	30375	15.5	195333	100.0
5	Goa	1498	7.4	465	2.3	5875	29.0	20287	100.0
6	Gujarat	29335	9.1	4947	1.5	62981	19.4	323758	100.0
7	Haryana	56120	15.0	10137	2.7	90182	24.1	374123	100.0
8	Himachal Pradesh	16514	10.4	4080	2.6	46886	29.4	159432	100.0
9	Karnataka	95691	11.3	17467	2.1	135496	16.1	841680	100.0
10	Kerala	51694	9.6	9826	1.8	137506	25.7	535810	100.0
11	Madhya Pradesh	46153	9.5	10809	2.2	77534	16.0	485462	100.0
12	Maharashtra	107741	11.1	39189	4.0	224510	23.1	973654	100.0
13	Manipur	7645	18.2	1598	3.8	3404	8.1	41923	100.0
14	Nagaland	6080	26.9	630	2.8	2553	11.1	22622	100.0
15	Orissa	25537	15.7	5696	3.5	16032	9.8	163116	100.0
16	Punjab	53985	17.6	6123	2.0	55413	18.0	307347	100.0
17	Rajasthan	101177	10.8	12915	1.4	174740	18.7	936070	100.0
18	Tamil Nadu	228741	15.6	15063	1.0	287786	19.6	1469293	100.0
19	Uttar Pradesh	170548	14.7	17270	1.5	187508	16.1	1162014	100.0
20	Uttanchal	23693	11.5	6614	3.2	34274	16.6	206194	100.0
21	West Bengal	21713	8.0	1876	0.7	87520	32.2	272135	100.0
22	Chandigarh	7542	17.4	1085	2.5	6979	16.1	43341	100.0
23	Delhi	4039	5.3	66	0.1	22292	29.3	76011	100.0
24	Pondicherry	4610	18.6	124	0.5	9619	38.8	24785	100.0
	<b>Total</b>	<b>1190593</b>	<b>12.2</b>	<b>196483</b>	<b>2.0</b>	<b>2053885</b>	<b>21.1</b>	<b>9756744</b>	<b>100.0</b>

Sl. No.	Name of States/UTs	Professional Technical and	Administrative Executive and	Clerical and related workers	Sales workers
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		related workers		Managerial workers					
		(Div. 0 &1)		(Div. 2)		(Div. 3)		(Div. 4)	
		=====		=====		=====		=====	
		No.	%	No.	%	No.	%	No.	%
1	2	3	4	5	6	7	8	9	10
1	Andhra Pradesh	44435	45.8	2224	2.3	23694	24.4	169	0.2
2	Assam	15883	51.4	410	1.3	8829	28.6	44	0.1
3	Bihar	427	25.1	49	2.9	728	42.7	—	—
4	Chhattisgarh	14870	60.1	472	1.9	5986	24.2	11	—
5	Goa	1364	29.3	78	1.7	2303	49.5	39	0.8
6	Gujarat	29971	59.3	856	1.7	14161	28.0	24	—
7	Haryana	29515	60.4	413	0.8	10689	21.9	14	—
8	Himachal Pradesh	13842	57.7	247	1.0	6108	25.5	13	0.1
9	Karnataka	74471	46.0	3261	2.0	49680	30.7	304	0.2
10	Kerala	41633	33.4	2266	1.8	41764	33.5	787	0.6
11	Madhya Pradesh	33602	58.3	409	0.7	14895	25.8	63	0.1
12	Maharashtra	58622	53.1	499	0.5	28539	25.8	12	—
13	Manipur	4949	55.5	97	1.1	3146	35.2	13	0.1
14	Nagaland	1505	36.2	102	2.5	1927	46.4	5	0.1
15	Orissa	12358	51.8	555	2.3	4412	18.5	17	—
16	Punjab	41427	65.0	690	1.1	14943	23.4	30	0.1
17	Rajasthan	75756	67.1	859	0.8	21547	19.1	12	—
18	Tamil Nadu	152888	44.8	4751	1.4	58454	17.1	1719	0.5
19	Uttar Pradesh	66083	60.6	1185	1.1	18495	17.0	32	—
20	Uttanchal	14744	60.2	367	1.5	5868	24.0	7	—
21	West Bengal	2516	12.5	675	3.4	12013	59.6	15	0.1
22	Chandigarh	4591	49.8	369	4.0	3217	34.9	2	—
23	Delhi	1885	20.8	947	10.4	5616	61.9	3	—
24	Pondicherry	1322	43.2	42	1.4	939	30.7	10	0.3
<b>Total</b>		<b>738659</b>	<b>50.3</b>	<b>21823</b>	<b>1.5</b>	<b>357953</b>	<b>24.4</b>	<b>3345</b>	<b>0.2</b>

**APPENDIX-VI**

Sl. No.	Name of States/UTs	Professional Technical and related workers (Div. 0 &1)		Administrative Executive and Managerial workers (Div. 2)		Clerical and related workers (Div. 3)		Sales workers (Div. 4)		Service workers (Div. 5)		Farmers, Fishermen Hunters Loggers and related workers (Div. 6)		Production and related workers Transport eqpt operators and Labourers (Div. 7,8&9)	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Andhra Pradesh	44435	45.8	2224	2.3	23694	24.4	169	0.2	15453	15.9	529	0.6	10508	10.8
2	Assam	15883	51.4	410	1.3	8829	28.6	44	0.1	1691	5.5	3502	11.3	557	1.8
3	Bihar	427	25.1	49	2.9	728	42.7	_	_	261	15.3	128	7.5	110	6.5
4	Chhattisgarh	14870	60.1	472	1.9	5986	24.2	11	_	2740	11.1	56	0.2	611	2.5
5	Goa	1364	29.3	78	1.7	2303	49.5	39	0.8	449	9.6	132	2.8	293	6.3
6	Gujarat	29971	59.3	856	1.7	14161	28.0	24	_	4093	8.1	81	0.2	1355	2.7
7	Haryana	29515	60.4	413	0.8	10689	21.9	14	_	5605	11.5	183	0.4	2423	5.0
8	Himachal Pradesh	13842	57.7	247	1.0	6108	25.5	13	0.1	2042	8.5	71	0.3	1646	6.9
9	Karnataka	74471	46.0	3261	2.0	49680	30.7	304	0.2	27377	16.9	724	0.5	6060	3.7
10	Kerala	41633	33.4	2266	1.8	41764	33.5	787	0.6	14545	11.6	328	0.3	23507	18.8
11	Madhya Pradesh	33602	58.3	409	0.7	14895	25.8	63	0.1	6623	11.5	94	0.2	1963	3.4
12	Maharashtra	58622	53.1	499	0.5	28539	25.8	12	_	12508	11.3	1452	1.3	8857	8.0
13	Manipur	4949	55.5	97	1.1	3146	35.2	13	0.1	455	5.1	148	1.7	116	1.3

<b>14</b> Nagaland	1505	36.2	102	2.5	1927 46.4	5 0.1	387	9.3	62	1.5	164	4.0
<b>15</b> Orissa	12358	51.8	555	2.3	4412 18.5	17 _	5725	24.0	352	1.5	448	1.9
<b>16</b> Punjab	41427	65.0	690	1.1	14943 23.4	30 0.1	5285	8.3	208	0.3	1148	1.8
<b>17</b> Rajasthan	75756	67.1	859	0.8	21547 19.1	12 _	11182	9.9	256	0.2	3249	2.9
<b>18</b> Tamil Nadu	152888	44.8	4751	1.4	58454 17.1	1719 0.5	91453	26.8	1430	0.4	30663	9.0
<b>19</b> Uttar Pradesh	66083	60.6	1185	1.1	18495 17.0	32 _	19503	17.9	403	0.4	3310	3.0
<b>20</b> Uttranchal	14744	60.2	367	1.5	5868 24.0	7 _	2016	8.2	180	0.7	1318	5.4
<b>21</b> West Bengal	2516	12.5	675	3.4	12013 59.6	15 0.1	689	3.4	596	3.0	3636	18.0
<b>22</b> Chandigarh	4591	49.8	369	4.0	3217 34.9	2 _	753	8.1	37	0.4	257	2.8
<b>23</b> Delhi	1885	20.8	947	10.4	5616 61.9	3 _	472	5.2	7	0.1	142	1.6
<b>24</b> Pondicherry	1322	43.2	42	1.4	939 30.7	10 0.3	543	17.8	6	0.2	195	6.4
<b>Total</b>	<b>738659</b>	<b>50.3</b>	<b>21823</b>	<b>1.5</b>	<b>357953 24.4</b>	<b>3345 0.2</b>	<b>231850</b>	<b>15.8</b>	<b>10965</b>	<b>0.8</b>	<b>102536</b>	<b>7.0</b>

**Code structure of educational qualifications of employees**

<b>Educational Code</b>	<b>Description of Educational qualification</b>
<b>I. Graduates and Post Graduates in Technical/Professional Subjects</b>	
M	Engineering & Technology
N	Medicine
IN	Veterinary Science
Q	Agriculture
P	Education (Teaching)
R	Management (Business Admn./Personal Management etc.)
S	Chartered/Cost Accountants/Company Secretaries
IS	Other Technical/Professional Fields (excluding Law & Commerce)
<b>II. Diploma Holders in Technical/Professional Subjects</b>	
T	Engineering & Technology
U	Medicine
IU	Veterinary Science
IQ	Agriculture
Y	Education (Teaching)
W	Management
Z	I.T.I Certificates/Apprentices
2U	Nursing Midwifery
IZ	Other Certificates/Diplomas
<b>III. Others (Those with General qualifications only)</b>	
K	Post-Graduates in Science
J	Other Post-Graduates (including Law and Commerce)
G	Graduates in Science
H	Other Graduates (including Law and Commerce)
F	Martic and above but below Graduate
E	Below Matric including illiterates



**APPENDIX-VIII**

**Occupational Pattern of Employees in different Industry Divisions (one digit level) in Public Sector as on 30th Sep.'2002**

Commu nity social and personal services Services	Total										
		Agri culture Hunting Forestry and Fishing	Mining and quarry ing	Manufa cturing	Electri city & Water	Constru ction	Whole sale and retail trade	Transport &communi cation services	Financial insurance Real estate and Business rants & Hotels		
NCO	OCCUPATION	0-Div)	(1-Div)	(2+3Div)	(4-Div)	(5-Div)	(6-Div)	(7-Div)	(8-Div)	(9-Div)	
1	2	3	4	5	6	7	8	9	10	11	12
00	PHYSICAL SCIENTISTS	392	1404	3147	2032	510	42	60	133	10461	18181
01	PHYSICAL SCIENCE TECHNICIANS	284	59	2874	97	179	94	749	16	7067	11419
02	ARCHITECTS, ENGINEERS, TECHNOLOGISTS AND SURVEYORS	2894	14779	21131	28284	52167	636	28569	2652	30169	181281
03	ENGINEERING TECHNICIANS	8152	31934	35400	29273	59764	1069	56001	12049	49266	282908
04	AIRCRAFT AND SHIPS OFFICERS	17	0	66	0	0	162	417	0	800	1462
05	LIFE SCIENTISTS	29372	329	1053	112	782	219	107	412	10591	42977
06	LIFE SCIENCE TECHNICIANS	613	103	1156	136	141	80	236	47	15375	17887
07	PHYS & SURGNS (INCLNG DENTAL & VETRNRY SURGEONS)	3802	868	2057	751	479	273	966	80	91534	100810

08	NURSES & OTHER MEDICAL & HEALTH TECHNICIANS	3745	3211	3950	1245	882	14	3409	75	268859	285390
09	SCIENTIFIC MEDICAL&TECHNICAL PERSONS OTHER	45	32	40	888	83	5	6	0	5283	6382

1	2	3	4	5	6	7	8	9	10	11	12
10	MATHEMATICIANS, STATISTICIANS AND RELATED WORKERS	962	56	705	417	899	119	479	1453	13257	18347
11	ECONOMISTS AND RELATED WORKERS	85	2	78	7	29	3	4	35	1186	1429
12	ACCOUNTANTS, AUDITORS AND RELATED WORKERS	3945	1066	5355	9174	5140	3390	8080	48604	66111	150865
13	SOCIAL SCIENTISTS AND RELATED WORKERS	1932	1246	1304	627	515	112	467	1735	159767	167705
14	JURISTS	22	20	134	75	147	22	149	1263	10170	12002
15	TEACHERS	667	1217	2936	946	373	26	6019	5618	1413681	1431483
16	POETS, AUTHORS, JOURNALIST & RELATED WORKERS	39	2	147	67	14	16	395	145	1648	2473
17	SCULPTORS, PAINTERS, PHOTOGRAPHERS&RELATED ARTISTS	64	14	1100	39	76	5	4222	22	1883	7425
18	COMPOSERS AND PERFORMING ARTISTS	0	95	89	70	0	0	399	33	2599	3285
19	PROFESSIONAL WORKERS, n.e.c.	518	591	1577	199	315	25	123	185	42294	45827
0&1	PROFESSIONAL, TECHNICAL AND RELATED WORKERS	57550	57028	84299	74439	122495	6312	110857	74557	2202001	2789538
20	ELECTED AND LEGISLATIVE OFFICIALS	0	0	0	0	0	0	0	0	59	59
21	ADMINISTRATIVE & EXECUTIVE OFFICIALS, GOVT&LOC BODI	10670	4015	12363	3594	5914	3588	3594	12457	110550	166745
22	WORKING PROTS, DIRTS&MANAGERS, WHOLESALE&RETAIL TRAD	103	57	583	7	19	3248	9	150	447	4623



23	DIRECTORS AND MANAGERS, FINANCIAL INSTITUTIONS	43	25	547	33	231	138	1403	167034	1547	171001
24	WORKING PROPRIETORS, DIRECTOR & MANAGERS, MINING CONST	173	3079	20941	1344	748	270	281	298	1641	28775
-----											
1	2	3	4	5	6	7	8	9	10	11	12
-----											
25	WORKING PROP DIR MANAGER & RTL EXECUTIVES, TRANSPOR	1	54	276	15	193	865	15724	126	1127	18381
26	WORKING PROP DIRS & MANAGERS, OTHER SERVICES	231	355	3248	464	150	1332	744	527	4359	11410
29	ADMINISTRATIVE, EXECUTIVE & MANAGERIAL WORKERS, n.e.c	2	0	149	12	0	43	0	11	583	800
-----											
2	ADMINISTRATIVE, EXECUTIVE & MANAGERIAL WORKERS	11223	7585	38107	5469	7255	9484	21755	180603	120313	401794
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30	CLERICAL AND OTHER SUPERVISORS	22949	5875	23451	31006	40108	12873	62033	57087	275266	530648
31	VILLAGE OFFICIALS	439	35	281	288	9731	68	342	181	58794	70159
32	STENOGRAPHERS AND STENO-TYPISTS	4323	1616	7146	5821	9992	2075	10164	13600	54865	109602
33	BOOK KEEPERS, CASHIERS AND RELATED WORKERS	418	288	1318	2552	1002	928	7023	262457	9807	285793
34	COMPUTING MACHINE OPERATORS	146	3574	2088	656	756	27	429	2804	5602	16082
35	CLERICAL AND RELATED WORKERS, n.e.c	54048	16958	78733	90023	136379	22261	223626	162819	826068	1610915
36	TRANSPORT & COMMUNICATION SUPERVISORS	44	64	700	73	1550	661	91919	24	4335	99370
37	TRANSPORT CONDUCTORS AND GUARDS	10	185	93	67	155	310	149167	30	4991	155008
38	MAIL DISTRIBUTORS AND RELATED WORKERS	1113	56	589	833	2389	665	143278	13769	9478	172170

39	TELEPHONE AND TELEGRAPH OPERATORS	88	287	1214	1099	3259	596	24771	412	3734	35460
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3	CLERICAL AND RELEATED WORKERS	83578	28938	115613	132418	205321	40464	712752	513183	1252940	3085207
<hr/>											
<hr/>											
1	2	3	4	5	6	7	8	9	10	11	12
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41	MANUFACTURERS AGENTS	96	48	1264	16	88	1416	171	4938	2739	10776
42	TECHNICAL SALESMEN AND COMMERCIAL TRAVELLERS	11	12	180	208	36	170	71	1129	446	2263
43	SALESMEN, SHOP ASSISTANTS AND RELATED WORKERS	452	65	1646	155	89	14346	1032	2879	3051	23715
44	INSUR, REAL EST,SECUR & BUSIN SERV SALSMAN & AUCTS	0	0	25	0	0	0	0	44	20	89
49	SALES WORKERS, n.e.c.	16	17	481	126	70	1170	8	244	269	2401
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4	SALES WORKERS	575	142	3596	505	283	17102	1282	9234	6525	39244
<hr/>											
51	HOUSE KEEPR MATR & STEWRS (DOMESTIC AND INSTITUTIO	0	72	252	14	17	388	116	7	21242	22108
52	COOKS WAITERS. BARTEN & RELATED WORKS (DOM &INST)	89	996	3112	644	551	2668	3883	313	85092	97348
53	MAIDS& RELATED HOUSE KEEPING SERVICES WORKERS nec	126	672	1042	36	7	486	419	3	36348	39139
54	BUILDING CARETAKERS, SWEEPERS,CLEANER & RELD WORKR	1935	1773	5786	4818	6896	1890	32845	13839	262769	332551
55	LAUNDERERS, DRYCLEANERS AND PRESSERS	0	38	154	26	235	57	142	32	3646	4330
56	HAIR DRESSERS, BARBERS, BEAUTICIANS& RELATED WORKERS	0	17	25	0	5	2	44	20	1734	1847

57	PROTECTIVE SERVICE WORKERS	10494	3624	16310	11864	29056	5179	38135	23355	548152	686169
59	SERVICE WORKERS, n.e.c.	9	6	1231	1	26	19	2502	1088	2219	7101
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5	SERVICE WORKERS	12653	7198	27912	17403	36793	10689	78086	38657	961202	1190593
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-----											
1	2	3	4	5	6	7	8	9	10	11	12
-----											
60	FARM, PLANTATION, DAIRY, OTHER MANAGERS & SUPERVISOR	28548	0	2529	0	0	409	0	0	8738	40224
62	FARMERS, OTHER THAN CULTIVATORS	2355	0	829	0	0	0	0	0	365	3549
63	AGRICULTURAL LABOURERS	6488	0	146	0	0	0	0	0	2884	9518
64	PLANTATION LABOURERS AND RELATED WORKERS	9099	0	125	0	0	0	0	0	484	9708
65	OTHER FARM WORKERS	16581	377	4398	2548	2783	731	1286	295	25179	54178
66	FORESTRY WORKERS	66053	52	793	0	219	134	0	0	4287	71538
67	HUNTERS AND RELATED WORKERS	6	0	0	0	0	0	0	0	55	61
68	FISHERMEN AND RELATED WORKERS	5424	0	15	0	0	844	0	0	1424	7707
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6	FARMERS, FISHERMEN, HUNTERS LOGGERS & RELATED WORKERS	134554	429	8835	2548	3002	2118	1286	295	43416	196483
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71	MINERS, QUARRYMEN WELL DRILLERS & RELATED WORKERS	10280	163939	2832	424	1749	110	0	0	1096	180430
72	METAL PROCESSORS	185	900	10010	4365	284	95	0	0	1160	16999
73	WOOD PREPARATION WORKERS AND PAPER MAKERS	50	230	2249	0	386	0	60	0	271	3246
74	CHEMICAL PROCESSORS AND RELATED WORKERS	69	838	14578	460	148	1814	117	0	819	18843

75	SPINNERS, WEAVERS,KNITTING DYERS AND RELATED WORKR	188	0	46081	0	0	843	0	0	1065	48177
76	TANNERS, FELLMONGERS AND FELT DRESSERS	0	0	270	0	0	0	0	0	74	344
77	FOOD AND BEVERAGE PROCESSORS	570	0	18084	0	0	0	0	0	1848	20502

1	2	3	4	5	6	7	8	9	10	11	12
79	TAILORS,DRESS MAKERS,SEWERS,UPHOLSTERERS & RET WOR	0	0	9746	0	95	110	450	0	1309	11710
80	SHOEMAKERS AND LEATHER GOODS MAKERS	11	0	307	278	18	17	1606	13	504	2754
81	CARPENTERS CABINET & RELATED WOOD WORKERS	153	664	2892	703	1944	49	3652	27	3212	13296
82	STONE CUTTERS AND CARVERS	0	15	78	55	58	0	84	0	52	342
83	BLACKSMITHS TOOL MAKERS AND MACHINE TOOL OPERATORS	751	3234	23210	1874	3524	262	7276	186	7383	47700
84	MACHINERY FITTERS MACH ASSEMB & PREC INST MAK(E,E)	1827	10668	55462	11662	12549	1162	66493	111	23851	183785
85	ELECTRICAL FITTR & RELD ELECTRICAL,ELECTRONIC WORK	1314	7989	22778	178394	19325	1440	43140	547	21787	296714
86	BROADCASTING STATION & SOUND EQUIPT & CINEMA PROJECT	64	8	280	168	51	19	157	171	2238	3156
87	PLUMBERS,WELDR,SHEET METAL,STRUC MET PREP & ERECTOR	367	1829	10080	5484	3675	134	6769	36	5038	33412
88	JEWEL & PRECIOUS METL WORKR & METL ENGRAVER(EX PR)	0	39	198	0	0	0	0	0	252	489
89	GLASS FORMERS,POTTERS AND RELATED WORKERS	47	574	924	443	133	0	85	0	268	2474
90	RUBBER & PLASTIC PRODUCTS MAKERS	39	218	1095	0	0	0	1997	0	695	4044

91	PAPER AND PAPER BOARD PRODUCT MAKERS	0	0	135	0	0	0	28	0	14	177
92	PRINTERS AND RELATED WORKERS	193	929	16363	463	702	323	791	249	2804	22817
93	PAINTERS	14	476	2328	283	927	198	3061	43	940	8270
94	PRODUCTION AND RELATED WORKERS n.e.c	96	18	4768	133	460	0	2172	0	632	8279

1	2	3	4	5	6	7	8	9	10	11	12
95	BRICKLAYERS AND OTHER CONSTRUCTION WOEKERS	553	1457	2319	2675	32646	300	1979	110	5139	47178
96	STATIONARY ENGINES&RELATED EQUIPMENT OPERATORS&OLE	2381	5022	9515	23905	21844	964	17837	224	15337	97029
97	MATERIAL HANDLING & RTL EQUIPMENT OPERATORS DOCKER	405	9592	8893	2113	2710	3047	4885	554	5777	37976
98	TRANSPORT EQUIPMENT OPERATORS	10437	6162	15284	12507	24558	3032	203468	3135	77559	356142
99	LABOURERS,n.e.c.	23153	92616	110700	52685	108299	10283	93200	2773	93891	587600
7,8&9PRODUCTION AND RELATED WORKERS, TRANSPORT EQUIPMENT OPERATORS AND LABOURERS		53147	307417	390664	299074	236085	24545	459759	8179	275015	2053885
GRAND TOTAL		353280	408737	669821	531856	611234	110371	1385325	824708	4861412	9756744



