## CENSUS OF INDIA, 1951

**VOLUME XI** 

ORISSA

Part I—Report



## CENSUS OF INDIA, 1951

VOLUME XI

# **ORISSA**



## CENSUS OF INDIA, 1951

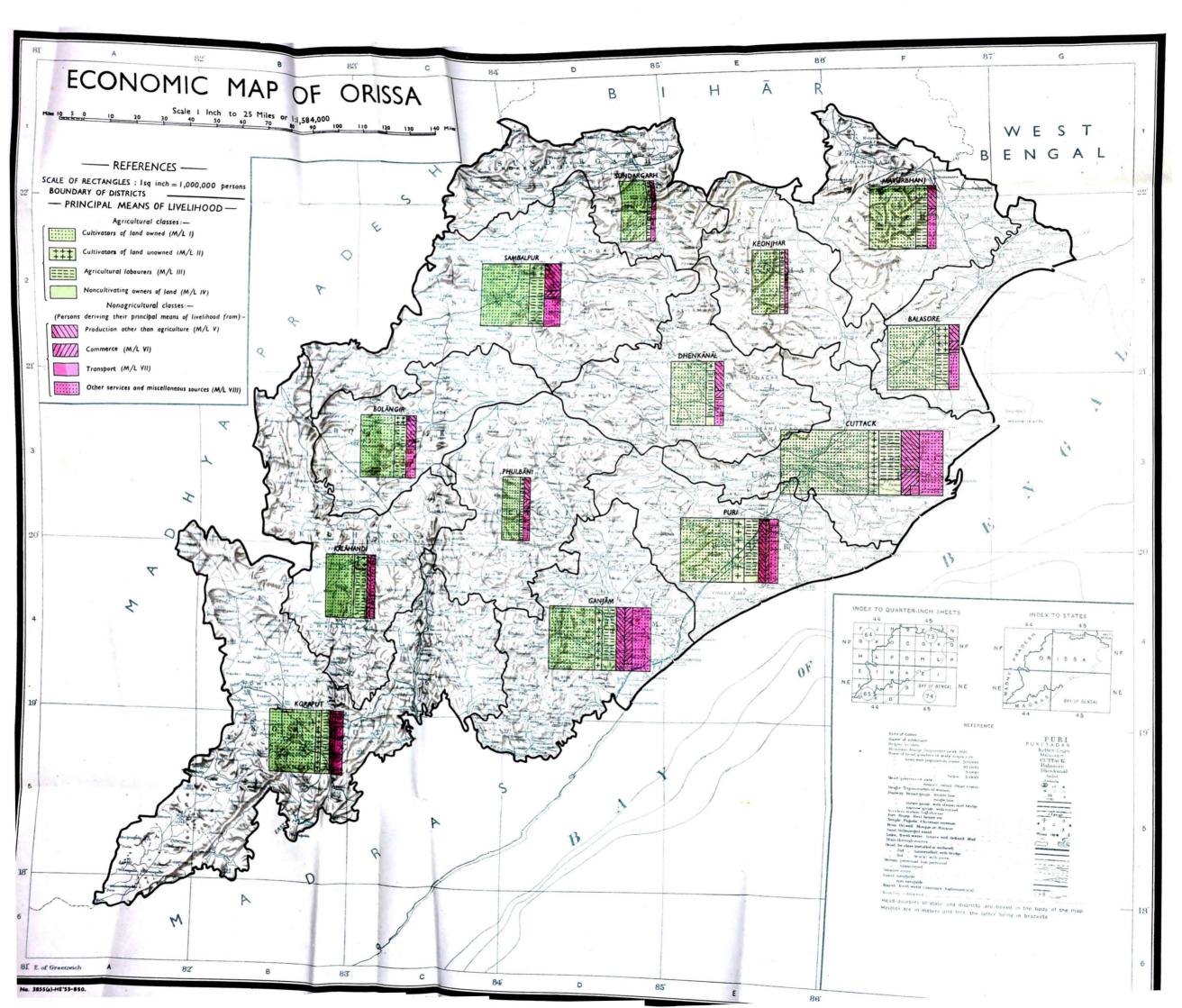
## **VOLUME XI**

## **ORISSA**

## PART I—REPORT

M. AHMED, M.A.
Superintendent of Census Operations
Orissa

CUTTACK
SUPERINTENDENT, ORISSA GOVERNMENT PRESS
1953



# TABLE OF CONTENTS

| INTRODUCTION   | <b>D</b>      |
|--|---------------|
| GENERAL DESCRIPTION OF THE STATE—Geographical Setting—Physical Configuration—Rivers—Cross-Section of Orissa  | Pags<br>1-4   |
| II. BRIEF HISTORY OF THE LAND AND THE PEOPLE   | 4—6           |
| III. CHANGE IN AREA  | 7             |
| IV. POPULATION ZONES AND NATURAL DIVISIONS   | 7-9           |
| V. GEOLOGY AND MINERALS—Geological Outline—Mining: Early History— Slow Unmethodical Development—Mineral Resources—Orissa Inland Division —Orissa Coastal Division—Economic Minerals—Iron—Coal—Manganese— Bauxite—Chromite—Limestone—Mica—Glasss-and—Vanadium—O t h e r Minerals  | 9—15          |
| VI. THE SOIL—Constituents—The Northern Plateau—The Eastern Ghats Region— The Central Tract—The Coastal Division—Soil Erosion   | 15—17         |
| VII. CLIMATE AND RAINFALL—Orissa Inland Division—Orissa Coastal Division—Rainfall Satatistics  | 17—20         |
| VIII. FORESTS—Area—Classification—Districtwise and Forest Produce  | 21—23         |
| CHAPTER I—General Population   | 3             |
| SECTION I—Preliminary Remarks  |               |
| Population—Comparison with Other States—Reference to Statistics—Non-census Data Inadequate and Erroneous—Indispensability of up-to-date Statistics   | 25—27         |
| SECTION II—General Distribution and Density  |               |
| Comparison with India—Comparison with other States—Comparison with other Countries—Average Density—Thinly Populated Areas—Thickly Populated Areas—Orissa Inland Division—Orissa Coastal Division—Disparity in Density between two Natural Divisions—Increase in Density—Distribution by Districts—Distribution by Police-stations  | 28—32         |
| SECTION III—Growth of Population   |               |
| Conditions in Pre-census Days—Earlier Estimates—First Decennial Census—Census of 1881—Decade 1881-91—Decade 1891-1901—Summary of Censuses 1872-1901—Territorial Adjustment since 1901—Decade 1901-11—Decade 1911-21—Decade 1921-31—Decade 1931-41—The Last Decade: Material Condition—Calamities—Public Health—Precarious Food Position—Price of Rice—Economic Crisis: Inflation—Post Office Remittances and Deposits—Increase in Railway Traffic—Summary of Material Condition—The Last Decade: Growth of Population—Mean Decennial Growth Rate—Growth during the last 50 years—Growth in Other States—Foreign Countries—Change in Trend since 1921—Growth in Natural Divisions | <b>33—4</b> 8 |
| Growth of Population in Districts—Cuttack—Balasore—Puri—Sambalpur—Ganjam—<br>Koraput—Dhenkanal—Keonjhar—Phulbani—Bolangir—Sundargarh—Kalahandi—<br>Mayurbhani  | 48—85         |

#### SECTION IV—Movement PAGE Earlier Accounts-Immobility of the Population-Home-born Proportion-Types of Migration, Casual, Temporary, Periodic, Semi-permanent, Permanent-Immigration-Immigration into Natural Divisions—Immigration into Districts—Internal Movement -Direction of Inward Movement—Displaced Persons—Emigration—Distribution of Emigrants—Decline in Emigration: Its Causes—Occupation of Emigrants; West Bengal, Madhya Pradesh, Assam, Bihar, Madras—Direction of Outward Movement— Migration of Muslims—Net Migration—Variation in Natural Population ... 86-96 SECTION V-Natural Increase-Births and Deaths Natural Increase-Defects in Registration System-Wrong basis of Calculation of Birth and Death Rates—Registration Area not Extensive—Omissions in Registration— Procedure of Registration of Vital Statistics—Deterioration in Vital Statistics since War-time—Absence of Estimates of Births and Deaths—Value of Vital Statistics— Birth Rates—Birth Rates of States in India—Cause of High Birth Rate—Decline in Birth Rate—Causes of Decline in Birth Rate—General Causes—Effects of Food Scarcity -Unfavourable Age Structure—Selective Incidence of Influenza Epidemic of 1918-19— Consequences of Industrialization—Influence of Decline in Infantile Mortality—Decline Partially Transitory in Character—Trend of Birth Rate in Natural Divisions—Death Rates—Indian Death Rate—Death Rates Compared—Annual Death Rate—High Death Rate: Fluctuations in Rate—Decline in Death Rate—Unsatisfactory Public Health—Toll of Life from Diseases—Fever—Diarrhoea and Dysentary—Cholera— Smallpox-Trend of Death Rate in Natural Divisions-Natural Increase-Extent of 97 - 112Registration Error SECTION VI-Livelihood Pattern Livelihood Categories and Classes—Agricultural Classes: Livelihood Class I, Livelihood Class II, Livelihood Class III, Livelihood Class IV—Non-agricultural Classes: Livelihood Class V, Livelihood Class VI, Livelihood Class VII, Livelihood Class VIII—Livelihood Classes Summarised—Principal Means of Livelihood—Terminology—Livelihood Pattern of General Population—Comparison with Other States—Livelihood Pattern of Natural Divisions—District Pattern—Distribution by Livelihood Classes—Class I: Cultivators of Land Owned—Class III: Agricultural Labourers—Class II: Cultivators of Land Unowned: Bhag Tenants-Class IV: Non-cultivating Owners of land: Zamindars, etc.—Class VIII: Other Services and Miscellaneous Sources—Class V: Production other than Cultivation—Class VI: Commerce—Class VII: Transport—Poverty of 113 - 120Road, Railway and Water Transport **SECTION VII—Concluding Remarks** Year 1921 A Turning Point—Fast Growth of World Population—Lower Growth Rate in India and Orissa—Public Health: A Matter of Concern—The Primary Problem—Fight against Death—Complexity of Problem—Agricultural Expansion—Industrialization— Birth Control-Official Policy-Decline in Fertility through improved Way of Life-Secondary Importance of Contraceptive Measures—Qualitative Improvement of Popula-

tion—Ultimate Solution—Is Orissa Overpopulated ?—Optimum Population—Poverty

in Plenty-Ability to Support Larger Population-The Future Trend

Subsidiary Table 1 series (Tables 1.1 to 1.8)

121-131

132-139

|   | Page    |
|---|---------|
| CHAPTER II—Rural Population   | •       |
| SECTION I—Preliminary Remarks   |         |
| Indispensability of Rural Statistics—Stability of Rural Life—Definition of Village—Uninhabited Village—Reference to Statistics—District Census Handbooks  | 141—143 |
| SECTION II—General Distribution and Distribution among Villages classified by Size of Rural Population  | •       |
| Comparison with States in India—Rural-Urban Proportion—Countries outside India—Distribution—Distribution by Natural Divisions—Distribution by Districts—Distribution according to Size of Villages—Average Population per Village—Density   | 144147  |
| SECTION III—Growth  |         |
| Importance of the Year 1921—Decreasing Growth Rate—Causes of Decline in the Rate—Decennial Growth—Growth in Natural Divisions—Rural Population of Districts—Villages—Number of Villages—Growth of Villages—Large Villages   | 148—152 |
| SECTION IV—Movement   | •       |
| Limitations of Migration Statistics—Rural-Urban Migration—Inter-village Movement—Extra-State Migration—Classification of Figures available—Extent of Immobility—Immigration from Other Districts—Migration from Other Parts of India—Migration from beyond India—Immigration into Natural Divisions—Districts | 153—156 |
| SECTION V—Natural Increase—Births and Deaths  |         |
| Rural Registration Area—Birth Rates—Birth Rate in Natural Divisions—Birth Rate in Districts—Annual Birth Rates—Death Rates—Death Rate in Natural Divisions—Annual Death Rate—Cause of Death—Health Condition in Districts—Balasore—Cuttack—Other Districts—Natural Increase                                   | 157—162 |
| SECTION VI—Livelihood Pattern   | •       |
| Agricultural Classes—Non-agricultural Classes—Natural Divisions—District Pattern  | 163—165 |
| SECTION VII—Concluding Remarks  |         |
| Density and Distribution—Rate of Growth—Public Health—Economic Outlook—Rural Uplift   | 166—168 |
| Subsidiary Table 2 series (Tables 2:1 to 2:5)   | 169—172 |
| CHAPTER III—Urban Population  |         |
| SECTION 1—Preliminary Remarks   |         |
| Emergence of Towns—Rural Tinge—Causes of Slow Urbanisation—Increasing Tendency—Definition of Town—City—Reference to Statistics  | 173—175 |
|   |         |

| SECTION II—Gen   | ieral Distributi  | on and Distribution Urban Popula                           |   | Towns cla                           | ssified by S   | ize of                         | PAGE    |
|--|---|--|---|-------------------------------------|--|--------------------------------|---------|
| among Towns  | ensity—Classifi<br>Classified by S  | -Urban Density-<br>ication of Towns-<br>Size of Population | Extent o  | of Urbanisa                         | tion—Distri  | bution                         | <b></b> |
| Distribution of  | Sex   | • • •  | • •   | • •                                 | ••   | ••                             | 176—180 |
| •  |   | SECTION III-G  | rowth   | ·                                   | •  |                                |         |
| Other Indian C   | of Towns—Fu   | owth during last 5<br>ture Towns—Grov<br>of Important To   | vth of City   | : Cuttack                           | Compariso  | n with                         | ,       |
| Balasore—Other   | Towns   | ••   | ••  | ••                                  | ••   | • •                            | 181—188 |
|  | ;   | SECTION IV-M   | vement  |                                     |  |                                | •       |
|  | nts from Other  | Composition of U<br>Districts—Migra                        |   |                                     |  |                                | ,       |
| from beyond in   | d1a.  | ••   | ••  | ••                                  | ••   | ••                             | 189—191 |
|  | SECTION V-  | -Naturai Increase  | —Births a   | nd Deaths                           |  |                                |         |
| Urban Registration Rate—Death Rate—Condition of I                          | ites—Annual D   | eath Rate—Urba   |   |                                     |  |                                | 192—198 |
| •  | SFO   | TION VI—Livelil  | hood Patte  | rn                                  |  |                                |         |
| Acmicultural Class   |   |  |   |                                     | Nimialana Di   | -4mi-4m                        | 100 901 |
| Agricultural Classe  | -   |  |   |                                     | IVISIONS—DI  | SUFICUS                        | 199—201 |
|  | SECT  | ION VII—Conclu   | ding Rema   | arks                                |  |                                |         |
| Growth of Populat  | ion—Condition   | of Health—Con  | trolled De  | velopment                           |  | ٠.                             | 202-203 |
| SUBSIDIARY TABLI   | E 3 SERIES (To  | ables 3.1 to 3.8)  | ••  | •                                   | ••   | • •                            | 204210  |
| ,  | •   |  |   |                                     |  | •                              |         |
|  | CHAP  | TER IV—Agric   | cultural (  | Classes                             | •  |                                |         |
|  | SEC   | TION I—Prelimin  | nary Rema   | ırks                                |  |                                |         |
| Antiquated Imp   | Insufficiency of<br>pliments—Unec<br>cultural Develo                                    | f Irrigation—Loss<br>conomic Cattle-ke<br>opment—Agrarian  | of Fertili  | ty—Lack o<br>ther Facto             | f Crop Rota<br>rs—The Ex                                   | tion—<br>ample                 | 211—219 |
| SECTION II-Agr   | icultural Popul<br>Secondary Mea  | ation Ratios ; Se<br>ns of Livelihood o                    | elf-support<br>f Agricultu                            | ing Person<br>Iral Classes          | and Depend   | ants;                          |         |
| Percentage of Agric<br>Livelihood Sub-<br>—Earning Depe<br>Proportion of S | cultural Popula<br>classes—Defini<br>endant—Classif<br>ub-classes—Se<br>s of Livelihood |  | Classes of t<br>ting Perso<br>the Agri<br>f Livelihoo | the Agricul<br>on—Non-edicultural I | tural Populat<br>urning Depe<br>abour Enqu<br>cultural Cla | ndant<br>u <b>ry—</b><br>sses— | 220—226 |

| ${f v}$  |                          |
|--|--------------------------|
| SECTION III—Relative Proportions of different Agricultural Classes; Correlated to Distribution of Land in Agricultural Holdings by Different Sizes   | Pag                      |
| Proportions of Agricultural Classes—Agricultural Classes of 1951 and 1931—Proportion of Agricultural Classes in Natural Divisions and Districts—Agricultural Holdings—Source of Information—Definition of Agricultural Holding—Distribution of 1,000 Holdings according to Size of Holdings—Findings of the Agricultural Labour Enquiry—Distribution of 1,000 Acres according to Size of Holdings—Correlation of Agricultural Population with Holdings by Different Sizes—Districtwise Distribution of Holdings—The Median-quartile Size of Holdings—Fragmentation of Holdings—The Remedy  | 227 <b>-</b> 23 <b>6</b> |
| SECTION IV—Cultivators of Land wholly or mainly Owned and their Dependants   |                          |
| Population—Sub-classes—Self-supporting Persons—Earning Dependants—Non-earning Dependants—Causes of High Incidence of Dependency—Secondary Means of Livelihood  | 237—239                  |
| SECTION V—Cultivators of Land wholly or mainly Unowned and their Dependants  |                          |
| Population—Sub-classes—Secondary Means of Livelihood—General Condition   | 240—241                  |
| SECTION VI—Cultivating Labourers and their Dependants  |                          |
| Population—Working Population and Dependants—Secondary Means of Livelihood—Labour System: Halia System—Shortage of Agricultural Labour   | 242—244                  |
| SECTION VII—Non-cultivating Owners of cultivated Land; Agricultural Rent Receivers and their Dependants  |                          |
| Population—Working Population and Dependants—Secondary Means of Livelihood   | 245—246                  |
| SECTION VIII—Active and Semi-active Workers in Cultivation   |                          |
| Population—Livelihood Class of Workers—Number of Active Workers in Agriculture—Ratio of Workers and Consumers—Surplus and Deficit Districts  | 247—249                  |
| SECTION IX—Progress of Cultivation Correlated to Growth of Population  |                          |
| Disparity in Growth of Population and Cultivation—Classification of Areas—Net Area Sown—Causes of Decrease in the Net Area Sown—Area Sown More than Once—Per Capita Land—Irrigation—Inadequate Irrigation Area—Diminishing Scope—Area Irrigated more than Once—Manuring—Crops—Cash Crops—Dependence on Agriculture—Progress of Cultivation—From 1901 to 1921—From 1921 to 1941—The Last Decade—Correlation with Population Growth—Dangers of Imbalance—Increasing Per Capita Consumption—Actual Production, Consumption and Surplus—Exportable Surplus—Diet—Food Habit of the People—Rice versus Wheat—Food Production to be Increased—Improvement of Yield per Acre—Extension of Cultivation: Fallows and Waste Lands—Preference for Food to Cash or Fodder Crops—Difficulties in Indefinitely Increasing Food Production | 250—266                  |
| SECTION X—Concluding Remarks   | •                        |
| General Backwardness—Abnormal Dependence on Agriculture—Classification of Population—Under-employment of Agriculturists—Other Difficulties—Progress of Cultivation—No Occasion for Complacency   | 267—270                  |
| Subsidiary table 4 series—(Tables 4·1 to 4·9)  | 271—279                  |
|  |                          |

| CHAPTER V—Non-agricultural Classes   | PAGE    |
|--|---------|
| SECTION I—Preliminary Remarks  |         |
| Importance of Non-agricultural Occupations—Their Limitation—The Decline of Handicrafts and the Rise of Modern Industries—Orissa's Resources—The Example of Japan—Unauthenticated Census of Small Scale Industries—Reliability of Non-agricultural Statistics—Reference to Statistics—District Index of Non-agricultural Occupations  | 281—287 |
| SECTION II—Non-Agricultural Population Ratios; Self-supporting Persons and Dependants; Secondary Means of Livelihood of Non-agricultural Classes   |         |
| Ratio of Non-agricultural Population—Distribution—Ratio in Natural Divisions—Districts—Livelihood Classes—Livelihood Sub-classes—Self-supporting Persons and Dependants—Secondary Means of Livelihood—Livelihood Class V—Livelihood Class VI—Livelihood Class VIII—Comparison of Occupational Distribution in 1931 and 1951  | 288—294 |
| SECTION III—Employers, Employees and Independent Workers; and Persons in Unproductive occupations  |         |
| Classification of Economic Activities and Economically Active Persons: Employer, Employee, Independent Worker—Unproductive Occupations—Proportion of Employers, Employees and Independent Workers—Ratio of Independent Workers and Employees—Employers, Employees and Independent Workers in Different Classes of Non-agricultural Occupation—Extent of Unproductive Activities                | 295—297 |
| SECTION IV—Primary Industries other than Cultivation, Mining and Quarrying   |         |
| Primary Industries not Specified—Stock Raising—Fishing—Marine Fishery—Estuarine Fishery—Inland Fishing—Forestry and Wood Cutting—Other Industries  | 298—300 |
| SECTION V—Mining and Quarrying   |         |
| Coal Mining—Iron Ore Mining—Metals Other than Iron Ore—Quarrying of Stone, Clay, etc. —Other Industries  | 301302  |
| SECTION VI—Processing and Manufacture—Foodstuffs, Textiles, Leather and Products thereof   |         |
| Cotton Textiles—Weaving—Handloom—Textile Mills—Textile Industries otherwise Unclassified—Jute—Silk—Wool—Rope Making—Wearing Apparel (Except Footwear) and Made-up Textile Goods—Leather, Leather Products and Footwear—Grains and Pulses—Vegetable Oil and Dairy Products—Unclassified Food Industries—Manufacture of Salt—Other Industries  | 303—309 |
| SECTION VII—Processing and Manufacture—Metals, Chemicals and Products thereof  |         |
| Unclassified Metal Products—Manufacture of Iron and Steel—Non-ferrous Metals—Transport Equipment—Electrical Machinery, Apparatus, Appliances and Supplies—Machinery (other than Electrical Machinery) including Engineering Workshops—Basic Industrial Chemicals, Fertiliser and Power Alcohol—Medical and Pharmaceutical Preparations—Manufacture of Chemical Products otherwise unclassified | 310—311 |

| SECTION VIII—Processing and Manufacture—Not Elsewhere Specified   | PAGE                     |
|---|--------------------------|
| Wood and Wood Products other than Furniture and Fixtures—Furniture and Fixtures—Non-metallic Mineral Products—Bricks, Tiles and Other Structural Clay Products—Cement, Cement Pipes and Other Cement Products—Paper and Paper Products—Manufacturing Industries otherwise Unclassified—Other Industries | 312—31 <b>3</b>          |
| SECTION IX—Construction and Utilities   | •                        |
| Construction and Maintenance of Buildings—Sanitary Services—Construction and Maintenance of Roads, Bridges and Other Transport Works—Construction and Maintenance Operation—Irrigation and other Agricultural Works—Other Subdivisions  | 314                      |
| SECTION X—Commerce  |                          |
| Retail Trade in Foodstuffs (including Beverages and Narcotics)—Retail Trade in Fuel including Petrol—Retail Trade in Cotton Textiles and Leather Goods—Wholesale Trade in Foodstuffs—Wholesale Trade in Commodities other than Foodstuffs—Other Industries  | 315                      |
|   |                          |
| SECTION XI—Transport, Storage and Communications  | •                        |
| Railway Transport—Inadequacy of Railway Transport—Transport by Road—Poor Road Communications—Transport by Water—Ports—Other Transport Services—Postal and Allied Services—Other Services  | 316—319                  |
| SECTION XII—Health, Education and Public Administration   |                          |
| Educational Services and Research—Employees of State Government—Police (excluding Village Watchmen)—Medical and Health Services—Village Officers and Servants including Village Watchmen—Other Employments  | 320—321                  |
| SECTION XIII—Services not elsewhere specified and Miscellaneous Means   |                          |
| Domestic Services—Laundries and Laundry Services—Religious, Charitable and Welfare Services—Legal and Business Services—Recreation Services—Hotels, Restaurants and Eating Houses—Arts, Letters and Journalism—Unclassified Services  | 322 <b>—</b> 32 <b>3</b> |
| SECTION XIV—Concluding Remarks  |                          |
| Non-agricultural Population—Cottage Industries—Medium Industries—Heavy Industries —Mining Industry—List of Factories—Electricity—Balanced Development of Resources  | 324—327                  |
| Subsidiary table 5 series (Tables 5.1 to 5.17a)   | 328—350                  |
|   |                          |
| CHAPTER VI-Families, Sexes and Principal Age Groups   |                          |
| SECTION I—Preliminary Remarks   |                          |
| Interpretation—House—Household—Reference to Statistics—Comparability of Statistics of Previous Censuses   | 35 <b>1—</b> 352         |

| PAGE    | seholds   | of Houses and Hou                      | ial Distribution                | CTION II—Territor                   | \$E                          |
|---------|---|--|---------------------------------|-------------------------------------|------------------------------|
|         | Population in Rural<br>g of Houses in Towns<br>of Houses—Housing                        | tion—Overcrowding                      | ousehold Popu                   | n Households and H                  | Areas—Urbai                  |
| 353—356 |   |  | ••                              | •••                                 | Conditions                   |
|         | holds   | on of Family House                     | and Composit                    | SECTION III—Size                    |                              |
| 357—359 | all-sized Households<br>tion—Sex Ratio in<br>ly Size                                    | Household Popula                       | Distribution of                 |                                     | -Households                  |
|         |   | x Ratio                                | ECTION IV—S                     | SI                                  |                              |
| 360—365 | Rising Female Ratio<br>Declining Female<br>Sex Ratio in Urban<br>a-agricultural Classes | n 1921—Causes of<br>o in Rural Areas—S | nale Ratio fro<br>rity—Sex Rati | 21—Decline in Fenets of Female Mino | during 1901-2<br>Ratio—Pocke |
|         |   | Status Ratios                          | ON V—Marital                    | SECTIO                              | ÷                            |
| 366—372 | arried, Unmarried,<br>Married Males—Age<br>—Fertile Age Group<br>Act                    | Status—Excess of<br>of Early Marriage- | ation by Marit<br>e 1941—Exter  | istribution of Popul                | Widowed—Di<br>and Marital H  |
|         |   | -Infants                               | SECTION VI                      |                                     |                              |
| 373—374 | and Urban—Liveli  | of Females—Rural                       | Freater Surviva                 | rease in Number—C                   | Definition—Inc. hood Classes |
|         |   | g Children                             | ION VII—You                     | SECT                                |                              |
| 375—376 | lihood Classes  | -<br>-Proportion in Livel              | ral and Urban-                  | oportion—Sex—Ru                     | Diminishing Pro              |
|         |   | and Girls                              | ION VIII—Boy                    | SECT                                |                              |
| 377     |   |  | -                               | n—Sex—Rural and                     | Poor Proportion              |
|         |   | n and Women                            | IX—Young m                      | SECTION                             |                              |
| 378     | ••  |  | _                               | x-Rural and Urba                    | Proportion—Sea               |
|         | ·   |  | ON X—Middle-                    |                                     | -                            |
| 379—380 | ••  | lasses                                 | n—Livelihood                    | x-Rural and Urba                    | Proportion—Se                |
| 381—382 | •   |  | FION XI—Elde<br>n—Livelihood    | SECT<br>ex—Rural and Urba           | Proportion—Sea               |
|         |   | ng Remarks                             | N XII—Conclu                    | SECTION                             |                              |
| 383—386 | vanced Countries—   | mparison with Ad                       | e Pyramid—C                     |                                     | Reliability of A             |
| 387—396 | ••  |  | bles 6·1 to 6·1                 | BLE 6 SERIES—(Ta                    | SUBSIDIARY TAX               |
|         |   |  |                                 |                                     |                              |

| ix  |         |
|---|---------|
| CHAPTER VII—Special Topics  | PAGE    |
| SECTION I—Literacy and Education  |         |
| Reference to Statistics—Interpretation—Extent of Literacy based on Total Count of Population—Comparison with Other States—Partly Literate—Extent of Literacy as found on Sample Count—Progress of Literacy between 1941 and 1951—Variation by Ages—Literacy Standard of Livelihood Classes—Educational Services and Research—Educational Institutions and Students—Primary Education—Secondary and Collegiate Education—Technical and Professional Education—General Progress   | 397—404 |
| SECTION II—Language   |         |
| Reference to Statistics—Mother Tongue—Difficulties in Preparing Correct Record—Tribal Languages—Analysis and Comparison with Previous Censuses—Percentage of Speakers—Oriya—Tribal Languages—Telugu—Hindi and Urdu—Bengali—Other Indian Languages—Non-Indian Languages—Bilingualism   | 405—412 |
| SECTION III—Religion  |         |
| Substitution of Economic Classification for Classification Based on Religion—Classification by Religion and Community—Distribution of Population by Religion—Growth—Hindus—Muslims—Christians—Tribal Religions—Sarana—Other Non-tribal Religion: Kumbhipatia—Sikhs—Other Religions  | 413—417 |
| SECTION IV—Backward Classes   | •       |
| Classification—Tribewise or Castewise Figures not Worked out—Specification of Backward Classes not Satisfactory—Scheduled Tribes—List of Tribes—Distribution of Population—Variation in the Composition and Population of Tribes—Important Tribes—Kond—Gond—Santal—Saora—Paroja—Other Important Tribes—Problem of Scheduled Tribes—Scheduled Castes—List of Scheduled Castes—Distribution—Other Backward Classes—List of Other Backward Classes—Total Backward Population—Proportion of Backward and Non-backward Population—Ameliorative Measures: Educational, Health and | 410 400 |
| Sanitation, Economic, Social  | 418—433 |
| SECTION V—Displaced Persons   |         |
| Definition—Volume of Migration and Date of Arrival—Occupation of Displaced Persons—Registration of Displaced Persons—Initial Relief—Rehabilitation Schemes  | 434436  |
| SECTION VI—Anglo-Indians  |         |
| Population—Distribution—Decrease since 1941   | 437     |
| Subsidiary table 7 series—(Table 7·1 to 7·7)  | 438—451 |
| APPENDICES  | ·       |
| APPENDIX I Notes on the procedure of Collection and Registration of Vital Statistics in Orissa (supplied by the D. H. and I. G. Prisons,  | · ·     |
| Orissa)   | 452-453 |
| APPENDIX II Notes on the Progress of Cultivation of Orissa (supplied by the Director of Agriculture and Food Productions)   | 454455  |
| APPENDIX III District Indices of Non-agricultural Occupations   | 456-485 |
| APPENDIX IV List of Registered Factories in Orissa  | 486—489 |

## ERRATA

| Page No. | Column No. | Para No.               | Line No.                              | Por              | Read                 |
|----------|------------|------------------------|---------------------------------------|------------------|----------------------|
| 25       | 1          | 2                      | 6                                     | 6.32             | 63.2                 |
| 65       |            | Table                  | (Column 4)                            | 350              | +350                 |
| 107      | **         | Table                  | (Column 6)                            | 217, 12          | 217,612              |
| 151      | 9.0        | Table                  | (Population against less<br>than 500) | 7,266,033        | 7,265,533            |
| 170      | 20         | (Ganjam Plains)        | Table 2·3                             | 13,933           | 331,589              |
| 171      | 9          | (Sambalpur)            | Table 2·3                             | 120,715          | 129,715              |
| 172      | 4          | <b>(P</b> uri)         | Table 2.5                             | 78.2             | 98.2                 |
| 176      | · 2        | (Table)                | Again <b>st Madhya</b> Bharat         |                  | 12,895               |
|          | ,          | 1                      | Against West Bengal                   | 13,6 2           | 13,636               |
| 185      | 2          | (2nd Table)            | Against Kanpur                        | 705,383          | 636, <del>44</del> 3 |
|          |            |                        | Against Lucknow                       | 496,861          | 444,711              |
| 206      | 4          | (Orissa)               | Table 3·3                             | 386,576-         | 386,756              |
|          | 20         | (Ganjam Plains)        | Table 3·3                             | 25,459           | 15,459               |
| 210      | 2          | (Orissa Inland Divisio | on) Table 3·8                         | 225,932          | 2 <b>25,937</b>      |
|          | <b>5</b> . | (Orissa Coastal Divisi | ion) Table 3.8                        | 29,828           | 29,288               |
|          | • 2        | (Puri)                 | Table 3.8                             | 5,544            | 75,5 <del>44</del>   |
| 220      | 1          | 1                      | 13                                    | 64.5             | 64.7                 |
| 224      | 1          | (Table)                | India (Column 2)                      | 28.7             | 28-5                 |
|          |            | India                  | (Column 3)                            | <b>59·6</b>      | 59-0                 |
|          |            | India                  | (Column 4)                            | 11.7             | 12.5                 |
|          |            | $\mathbf{Punjab}$      | (Column 3)                            | 58.2             | <b>58·4</b>          |
|          |            | Punjab                 | (Column 4)                            | 15.0             | 14-8                 |
| 227      | 1          | (Table)                | Punjab (Column 3)                     | 25.0             | 24.9                 |
|          |            | Punjab                 | (Column 4)                            | 11.9             | 12.0                 |
| 242      | 2          | (2nd Table)            | Assam (E.D.)                          | 12.2             | 14.2                 |
| 265      | Table      | Sambalpur              | (Column 3)                            | 108-2            | 180-2                |
|          |            | Dhenkanal              | (Column 4)                            | 42.7             | 32-7                 |
|          |            | Sambalpur              | (Column 6)                            | <b>79·3</b>      | 75·3                 |
|          |            | Koraput                | (Column 6)                            | 148.5            | 138.5                |
| •        |            | Kalahandi              | (Column 6)                            | 26-9             | 25.9                 |
| 275      | 8          | (Orissa Coastal Divis  | sion) Table 4·5                       | 11               | 14                   |
| 277      | 12         | (Balasore)             | Table 4.7                             | 44,450           | 14,450               |
|          | 10         | (Phulbani)             | Table 4.7                             | 119,595          | 116,595              |
| 340      | 2          | (Orissa Rural)         | Table 5.7 (a)                         | 766,616          | 761,616              |
| 346      | 6          | (Orissa Rural)         | Table 5.13 (a)                        | 143              | 134                  |
| 349      | 2          | (Balasore)             | Table 5·16                            | 911              | 991                  |
| •        | . 8        | (Orissa)               | Table 5-16                            | 2,346            | 2,364                |
| 389      | 13         | (Mayurbhanj)           | Table 6·4                             | 769              | 793                  |
| 393      | 14         | (Ganjam Agency)        | Table 6.7                             | 498              | 494                  |
|          | 14         | (Ganjam Plains)        | Table 6.7                             | <b>364</b>       | 368                  |
| 407      |            | Table (1951)           | ,                                     | 12, 65,272       | 12,065,272           |
| 414      |            | Table 1941 (M          |                                       | Faint impression | 165,661              |
|          |            | Table 1921 (M          |                                       | Faint impression | 138,360              |
|          |            | Table 1921 (B          | -                                     | Faint impression | 1,612                |
| 445      | 36         | -                      | Table 7.5 (Dhenkanal)                 | 0                | 30                   |
| 446      | 6.         | Table 7.6              | (Mayurbhanj)                          |                  | 62                   |
| 447      | 12         | Table 7.6              | (Ganjam Plair                         | 1a)              | 17                   |

#### PREFACE

The Census of 1951 is the ninth Indian Census taken since 1872. This census has high importance for Orissa as it is the first census taken after amalgamation of the major portion of Oriya-speaking tracts into one single political and administrative unit. As a result of integration of the ex-state areas of Orissa with older districts, a new sense of unity and homogeneity developed among the population of both the tracts who were counted as members of a single territorial unit in one single operation for the first time in the history of the Oriya-speaking people. The result of such an important operation has been embodied in this Report. Orissa had no Census Report of its own, for although she was constituted into a Province of India in 1936, and a population census followed in the year 1941, there was no writing of the Report that year due to war conditions. This is thus the first comprehensive review of demographic facts and problems relating to Orissa as one political unit.

- 2. The actual operation of counting began on the 9th February 1951. and continued for 20 days ending at the sunrise of the 1st of March. A vast number of 35,000 enumerators were employed to do this work all over Orissa who were assisted by another large number of 5,000 officers charged with supervision, direction and control of the operation. This large army of workers visited about three million houses scattered over 48 thousand villages and towns of Orissa, and prepared a record of every individual living therein. This record relates principally to the name, nationality, religion and age of the individual, as well as to many other details, such as marital status, mother tongue and other linguistic details, literacy and education, economic status particularly relating to dependency and employment, means of livelihood both principal and secondary, area of land owned and cultivated and so on. This fact-finding mission kept the enumerator engaged till the 28th February 1951. That night he was required to make a special hunt for 'houseless' or 'floating' population, which he finished counting by the next sunrise, the sunrise of the 1st of March. For a final check-up and bringing the enumeration up-to-date with reference to subsequent births and deaths prior to the sunrise of the 1st of March, three days were allowed, namely 1st to 3rd March 1951.
- 3. System of enumeration—The practice of counting the population in course of a single night was abandoned after the Census of 1931. This system was based on the principle of de facto enumeration and aimed at recording, as in England, the actual or de facto population of the country in a particular night. Wherever a person happened to be between the hours of 6 p. m. and mid-night on the 26th February 1931, there was he brought to account in the population of that place. No person was asked to mention his ordinary place of residence. This procedure involved enormous administrative difficulties and was perhaps not fully conducive to accurate enumeration. The system introduced first in 1941 was based on modified de jure principle, the de facto principle being resorted to under certain restrictions. The system adopted in 1951 is the same as in 1941, with some refinements. Under this scheme, a person was enumerated in his normal residence, if (i) he was ordinarily residing there between 9th February and 1st March or (ii) he left such

residence on or after 9th February, irrespective of his date of return or (iii) he returned to the residence before the sunrise of 1st March 1951, irrespective of the period of his absence from the normal place of residence. But if such a person left the house before 9th February and remained absent beyond the sunrise of 1st March, he was not required to be enumerated at his normal residence, but at the place he was actually found during the period. The principle of enumeration adopted in 1951 is thus a compromise between de facto and de jure principles. A full account of the procedure adopted for the enumeration of population and the compilation of results has been given in the Administration Report published separately.

- 4. Reliability of Statistics—Facts and figures appearing in this Report have been drawn chiefly from two sources, census and non-census. Statistics embodied in Parts II-A and II-B of this Report are purely of census origin. but the subsidiary tables displayed at the end of each Chapter of this volume are partly based on census figures and partly on the reports, statements and information made available by various departments of the Government. All statistics of census origin are distinguished by a high degree of reliability. but the same cannot be said in respect of all statistics of non-census origin, as will appear from the comments in the Chapters that follow. There are good reasons why it is now possible to accept the comparative accuracy of census figures. In the past no attempt was made to verify the degree of error, if any, that existed in the enumeration figures. But on the present occasion, a verification of the 1951 Census count was undertaken for the first time through the independent agency of local magistrates of senior rank. The results of this magisterial verification has been summarised in the Administration Report for Orissa as follows:
  - "The results of the sample verification of the 1951 Census count has been very useful for dispelling the notions of the critic that the census enumeration has been vitiated considerably by under enumertaion. The net shortage of 0.54 per cent may be considered to be an error of no considerable magnitude, particularly when it relates to a country-wide administrative operation such as the census."
- 5. It is, however, not pretended that inaccuracies or other types of blemishes contained in this Report are limited to the small and negligible extent of under enumeration as found out by magisterial investigation, or to the incomplete and erroneous character of departmental figures of noncensus origin. There are various stages in which there is the lurking dangre of errors being introduced by inadvertence or ignorance. The sorting and tabulation operations constitute one such stage, because a band of 600 inexperienced youngmen, mostly fresh from schools and colleges, temporarily employed for three or four months on unattractive remuneration and having no immediate prospect for the future, by no means create ideal conditions for patient, accurate and reliable statistical work. The remedy was, however, provided by adoption of a system of checks and counter-checks not only in local offices but also in the headquarters. Finally thanks to the innovation and foresight of the Registrar General, a central tabulation office at New Delhi remained ever vigilant in scrutinising and rectifying defects, if any, in the mass of statistical tables turned out by local offices. The inaccuracies in the final result as now published have thus been reduced to the minimum.

- 6. Outstanding Features—The Census of 1951 is distinguished by number of new features, some of which are described below:—
- (i) Economic Classification—In the past, population was classified on the basis of religion but now this has been done on economic basis. This is one of the most important changes made at this census. The present population has been divided broadly into two categories, namely, agricultural and non-agricultural. The agricultural population has again been divided into four classes according to difference in the status of ownership and in cultivating activities. Similarly the non-agricultural population has been divided into four classes according to the nature of employment or profession. The statistics gathered on the basis of such classification give a useful economic picture of the society.
- (ii) National Register of Citizens—An important gift of the present census is a complete record of all individuals living in Orissa on the 1st March 1951. The names of citizens have been arranged by households, villages, police-stations, taluks (if any) and subdivisions in each district and information relating to their sex, age, education, economic status, means of livelihood, land owned and cultivated, etc., have been recorded therein. The register is useful for various administrative purposes, such as revision of electoral rolls as well as for socio-economic surveys which may be taken up from time to time.
- (iii) District Census Handbooks—Compilation of District Census Handbooks for all districts of the State is a formidable task which was taken up for the first time in Orissa and completed successfully. These Handbooks contain a complete set of population and household statistics for each village in the district and statistics relating to small-scale industries and displaced persons. They also contain General Population Tables and Economic Tables relating to the district. As mentioned elsewhere in this Report, it is regrettable that the Handbooks were not printed by the State Government, so that they could be available to the public on sale. A limited number of sets were cyclostyled at the cost of Government of India and distributed.
- (iv) Census of small-scale Industries—Shortly before the population census was taken, a census of small-scale industries was organised and conducted for the first time in this State. Industrial estalishments engaging less than 20 persons working without the aid of power (electric, gas, etc.) or those engaging less than 10 persons working with the aid of such power have been classed as small-scale industries. The result have been embodied in the District Census Handbooks and have been very briefly referred to in an appropriate place in this Report.
- (v) Caste Tabulation discontinued—Yet another significant change made at this census is the abandonment of the collection and tabulation of data for different castes and communities. The only exception made is with regard to the backward classes and the Anglo-Indians.
- (vi) Verification of the Census Count—The population census, like all other administrative operations of comparable magnitude, is liable to error. In the past, no attempt was made to verify the extent of error that existed in the enumeration figures. But as increasing importance is attached

to population data, it was considered desirable that the degree of error in the census count should be ascertained in order to facilitate correct study and interpretation of the available data. The verification work was entrusted to non-census agencies, namely to magistrates mostly of senior rank under the employment of the State Government. The results of such verification have been discussed in the Administration Report.

- 7. Scope of the Report—Reports of the Indian Census of the past were distinguished as works of great scholarship and erudition, written with a view to lead and guide all thinking men of India in the matter of outstanding problems. But now with the growth of specialized knowledge in different fields of human activities, it was realised that the scope should be limited to collection and presentation of statistical data and to do as little as possible of writing and to leave the figures to speak for themselves. Transition in the object and purpose of report-writing was first noticed in 1941, when Mr. Yeatts, the Census Commissioner of India held the view that the old styled omnibus report was out of date, and proposed to cut down the scope of the Census Report to such materials as were necessary to interpret and understand the tables.
- 8. The scope of the present Report has been defined in a memorandum of Shri R. A. Gopalaswami, Registrar General, India, limiting the comments to the "numbers, life and livelihood of the people". It has been laid down that apart from an Introduction and (if necessary) some Appendices, the subject matter of the 1951 Census Report will be arranged in six Chapters as below:—

Chapter I .. General Population
Chapter II .. Rural Population
Chapter III .. Urban Population
Chapter IV .. Agricultural Classes
Chapter V .. Non-agricultural Classes
Chapter VI .. Families, Sexes and
Principal Age Groups

9. This limitation implied that the Report will exclude detailed treatment of the data relating to a number of subjects, such as literacy and education, language, religion, backward classes, displaced persons, etc. Special permission was, however, secured to include brief narratives of these special topics at the end of prescribed Chapters, which now find place in this Report in the closing Chapter VII. The directions issued by the Registrar General, India also discouraged the display of maps and diagrams except one population map. In practice, however, the limitation had to be relaxed to an extent so that the present volume contains a few diagrams and maps, which though by far smaller in number than those that filled the pages of old series of Census Reports of India, are considered adequate for the present purpose. Lastly, in writing this Report, the ultimate object according to the official instructions was to present such matters as "will be of value mainly as the starting point of more detailed studies (to be undertaken subsequently) of the inter-relationship of population changes and economic changes in the country as a whole

as well as in the different States and natural divisions of the country". In this connection, it is considered necessary to mention that the statements made and conclusions drawn in this Report are wholly the responsibility of the author alone in his personal capacity and do not necessarily represent the views of the Government.

- remains to convey my acknowledgments 10. Acknowledgments—It to those who by their co-operation and assistance made the taking of the present census possible. A census may be as good or as bad as the moral attitude of the people towards it. To begin with, therefore, I must pay tribute to the people of Orissa whose good sense of citizenship was behind the smooth and orderly manner in which the operations were conducted. Conditions prevailing in 1951 were more favourable to the taking of a good and reliable census than ever before in the history of census of the country, for no such difficulty was encountered as the highly disturbed vital occurrences preceding the Census of 1921, or the Civil Disobedience Movement during the Census of 1931, or the uncertain war conditions and embittered communal relations at the time of the Census of 1941. In 1951, however, the material condition of the people was far from satisfactory and if the people in general displayed a sense of civic responsibility and co-operation in a country-wide administrative operation such as the Census, their correct attitude cannot but be admired. Side by side, I must also place on record my gratitude to that great body of nearly 35,000 honorary enumerators who at the cost of their convenience and profits took the trouble of visiting over three million houses to prepare at the spot a record of every individual living therein. Acknowledgments are likewise due to other men and officers included in the census hierarchy, viz., Supervisors, Charge Superintendents, District Census Officers and District Magistrates, connected with the execution, supervision and control of the operation at different levels. Without their active interest and close cooperation, the degree of success achieved in the conduct of the operation would have been impossible.
- 11. I am also grateful to my Tabulation staff, a large body of about 600 paid workers, who turned out immense mass of figures, sitting crosslegged on floor before small pigeon-holes in sombre serious atmosphere from morning to evening day after day. Many of these workers showed admirable zeal and outstanding merit in their work and won the President of India's medals, like so many brilliant workers engaged in the enumeration operations. Their names have been mentioned in the Administration Report. I should, however, like to make special mention of two of my officers, namely, Shri Padmanabha Misra, B.Sc., of the Orissa Administrative Service who as Deputy Superintendent of my office gave me ungrudging help in the preparation of the District Census Handbooks and Shri K. Sriramamurti of the Orissa Subordinate Administrative Service who apart from being useful in his capacity as Assistant Superintendent of the Tabulation Office, was placed in charge of the final stages of the operation at the headquarters.
- 12. I wish to express my obligation to all those persons, institutions and Government departments to whom I am indebted for assistance and information received on various occasions. To the Director of Industries, of Health and of Agriculture of the Government of Orissa, I am obliged for furnishing

facts and figures relating to their departments and to the Surveyor-General of India for preparing the maps and a few diagrams exhibited in this Report. I am under a debt of thanks to Shri S. H. Khan, Superintendent of the Orissa Government Press and his Deputy and Assistant Superintendents for the unbounded patience and the technical resources with which they undertook and completed the printing of all the Parts of the present Report against heavy odds. The printing of the statistical tables is burdened with extremely meticulous instructions and if a congested, over-busy and inadequately equipped Press is able to complete printing neatly and expeditiously, it is a matter of skill and labour not commonly seen.

- 13. I cannot acknowledge too fully the valuable guidance and instructions received by me from Shri R. A. Gopalaswami, Registrar General, India in course of different stages of the operation from preliminary organisation of enumeration work to the writing of the Report. If his imagination and initiative were behind the several new lines of investigation for which the Census of 1951 has earned distinction, his ready appreciation of individual difficulties and his effective and practical method of tackling complicated problems acted as a source of inspiration and strength so much necessary for bringing a stupendous country-wide operation to a satisfactory conclusion. I must also express my keen sense of gratitude to Shri D. Natarajan, Assistant Census Commissioner for his sympathetic and prompt action in all technical and administrative matters and to Shri P. N. Kaul, Central Tabulation Officer, for his ever vigilant eye on the mass of statistics on which the present Report is based, which were checked and verified by him not only thoroughly but also most expeditiously.
- 14. I cannot conclude without paying grateful tribute to the late Mr. Asaf Ali who as the Governor of Orissa when the Census of 1951 was conducted, took keen interest in the result of the operations and more than once called for compiled figures and descriptive report which were mostly in manuscript form at that time. He perused with scholarly zeal whatever material was available till then and was pleased to record a note of appreciation which appears in the following page.

CUTTACK:

M. AHMED

The 30th. April 1953

Superintendent of Census Operations Orissa

#### GOVERNMENT HOUSE, PURI The 26th April, 1952

Modern census operations and the comprehensive preparation of a mass of statistical data for the interpretation of experts in sociology, anthropology and economics in relation to a sub-continent of India's dimensions involve an organised effort of immense magnitude. One has only to look at the bulk of several district handbooks containing facts and figures connected with the Province of Orissa which have emerged from these labours to realise how much of intelligent and mechanical work goes into their presentation. The census of 1951 in India was undertaken with several new lines of investigation, because some of the basic facts and figures concerning the living conditions, economic structure, and the assets and liabilities of the State were not available. Without precise or at least highly approximate data no clear picture of the ascending or descending trends of national life can be formed and no plans for the correction of deficiencies or the pursuit of progressive development can be effectually laid down. If the effort made during the census operations of 1951 has been successful throughout the country, the data made available will be of immense value to statesmen and to all others concerned.

I have had the privilege of looking at the 13 valumes of handbooks and two volumes of maps prepared by the staff of the Census Officer of Orissa (the final report is still in the course of elaboration) and I feel bound to place on record my unstinted appreciation of the work done. In spite of the formidable array of statistical material these volumes are attractive enough by their neat and methodical presentation, even for laymen.

Ever since I have been in charge of Orissa I have been emphasising the urgency of revising the District Gazetteers which in a sense are the Bible of the District Officers and which have long been out of date. Further, since the integration of the 24 Eastern States with Orissa and the reorganisation of the old and new districts, all the maps have become partially obsolete. I am, therefore, particularly pleased to find that up-to-date maps of districts and thana-wise distribution, of population, etc., have been prepared and included in the Census Handbooks. The data supplied in these books with these maps will greatly facilitate the preparation of a supplementary volume of the revised contents of District Gazetteers.

Orissa is almost the richest Province potentially for its size: for it covers 60,000 square miles of territory with 23,000 square miles of forests, nearly 300 miles of sea-board, immense water and hydro-electric power, vast mineral deposits including coal, iron and manganese ores, bauxite, chromite and some 30 other occurrences of industrial value, and immense possibilities of pisci-culture, eri and ceri-culture, poultry farming and cattle breeding, in addition to its existing land produce, which is already enough to permit of an exportable surplus of over 1,00,000 tons of rice, etc. It is the paradise of enterprising industrialists and experienced farmers. But when we look at the existing conditions of life in its 48,000 villages and some five towns of modest size and another 34 of a smaller size, and study the facts and figures of its industrial and commercial output, and further scrutinies the charts of its citizens' health, education and average income, we cannot fail to recognise its heartrending poverty in almost every direction, except the passionate desire of its far-seeing and well-informed citizens for rapid improvement.

The facts and figures supplied in this Report will greatly help to pick out the directions in which improvement is demanded in the highest order of priority.

I congratulate the Census Officer, Mr. M. Ahmed and his colleagues, staff, and casual helpers on their achievement, and commend the Census Report of Orissa to the notice of all who are interested in the welfare of the State.

M. ASAF ALI GOVERNOR OF ORISSA

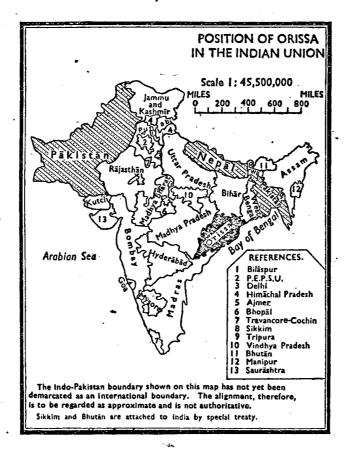
#### INTRODUCTION

#### I. General Description of the State

#### GEOGRAPHICAL SETTING

1. The State of Orissa situated on the east coast of India is bounded by Bihar on the north, Madras on the south,

West Bengal on the east, Madhya Pradesh on the west and faces the Bay of Bengal on the south-east. It lies between 17°50′ and 22°34′ north latitude and between 81°27′ and 87°29′



east longitude. The whole area of the State lies in the tropical zone, its most northerly point being about 1° below the Tropic of Cancer. Physiographically, the territory of the State of Orissa may be divided into four welldefined tracts, each having its own distinguishing characteristics, namely, the Northern Plateau, the Eastern Ghats, the Central Tract and the Coastal Plains.

#### PHYSICAL CONFIGURATION

2. The Northern Plateau covers the districts of Mayurbhanj, Keonjhar, Sundargarh and the Pal-Lahara subdivision of Dhenkanal district. It is an undulating upland tract with general slope from north to south. It is much broken by ragged ranges of hills and is traversed by drainage channels leading

from hill ranges to rivers, viz., the Subarnarekha, the Burabalang, the Salandi, the Baitarani  $\mathbf{and}$ Brahmani. Isolated hills abruptly from the plains are common. Further towards north and occurrence of ranges of hills becomes frequent, finally ascending into table lands and peaks. Maximum height is attained by the peaks Mankadanacha (3,639 feet) and Badamgarh (3,525 feet) of Bonai subdivision in Sundargarh district, Malyagiri (3,895 feet) in Pal-Lahara subdivision of Dhenkanal district and Meghasani (3.824 feet) in the Similipal hills of Mayurbhanj district. These hills are the outer fringes of the Central India mountain ranges. Their slopes are buried in thickly grown large tropical forests. On their foot are frequently seen extensive plains and valleys with cultivation varying from fine cultivated paddy to occasional hill crops.

3. The Eastern Ghats region has upland plateaus, hills and peaks which are the highest in Orissa. The plateaus have wide expanse of open country fringed by forests and hills. The Deomali hills (5,486 feet) whose twin peaks can be clearly seen from Koraput town when the sky is clear, has the highest altitude in Orissa. Turiakonda (5,244 feet) and the Polamokani Parbat (5,201 feet) of Koraput district and the Bankasamo (4,182 feet) and the Karlapat (3,981 feet) of Kalahandi district are among the highest hills of the Eastern Ghats section in Orissa. While the summits of these hills reach sub-temporate altitude, their slopes are covered with thick forest The Eastern Ghats region growth. extends over the districts of Koraput, Kalahandi. Ganjam Agency and extends along the right bank of the Mahanadi from district Phulbani onwards.

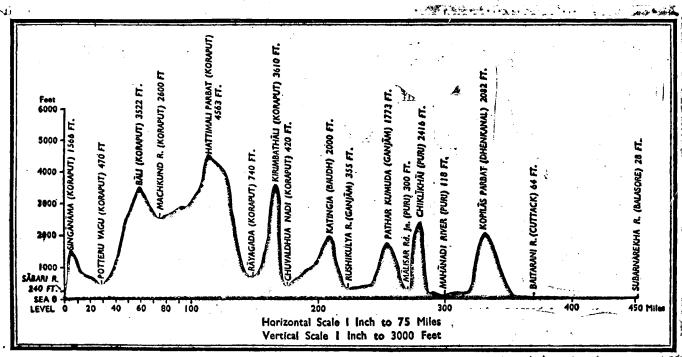
- 4. The Central Tract lies in between the Northern Plateau and the Eastern Ghats region and mainly covers the districts of Bolangir, Sambalpur and Dhenkanal. Isolated hills rising abruptly from the plains are commonly seen in this tract. This tract contains some of the fertile parts of the State, such as the Bargarh plains. It is drained by the river Mahanadi and its tributaries and is nowhere bare of vegetation and the villages are deeply embowered with palm and mango groves.
- 5. The Coastal Plains are principally a maritime tract along the Bay of Bengal and lie between the borders of West Bengal and Madras. The greater part of the region is the outcome of alluvial deltaic formation of the river system of Orissa. It is the most fertile and densely populated region in the State, containing rich mango, cocoanut and palm groves and very extensive rice fields well watered by a network of rivers and irrigation canals. The belt of land nearby the sea coast is marshy and abounds in swamps intersected by innumerable winding creeks and sluggish rivers. Tracts of blown sand are also noticeable along the coast in the shape of sand dunes or ridges. The central portion of the delta, approximately 3,000 square miles in area is subject to damage by floods almost every year.

#### RIVERS

6. The principal rivers are the Mahanadi, the Brahmani and the Baitarani, all running almost parallel from northwest to south-east. There are also some smaller rivers, namely, the Salandi, the Burabalang and the Subarnarekha, flowing over the northern part of the State and the Rushikulya, the Vansadhara, the Nagavali, the Indravati, the Kolab and the Machkund draining the districts of Ganjam and Koraput in the south. The Mahanadi is the largest among them with a total length of 533

miles, about half of which lies in Madhya Pradesh. It drains a basin of 51,000 square miles and discharges during highest floods 1.6 million cusecs, or nearly as much as the Ganges. Rising in Raipur district, it passes through Bilaspur before entering into Orissa in district Sambalpur where its tributaries, the Ib, the Ong and the Tel and numerous minor streams make it a river of the first magnitude with a width of more than a mile. It then passes

through some rapids and deep gorges of the Eastern Ghats and ultimately reaches the deltaic region at Naraj, about seven miles west of Cuttack. It traverses Cuttack district from west to east throwing off numerous branches and falls into the Bay of Bengal through several channels near the False Point. The deltaic region has a net-work of branches and channels due to the inter-mingling of the three principal rivers of Orissa.



#### CROSS-SECTION OF ORISSA

7. The above diagram, drawn to scale, represents the cross-section\* of Orissa. It gives a picture how Orissa will look like if cut along a line running north-east from the Sabari river in Koraput district (Latitude 18°05' and Longitude 81°30') to the mouth of the Subarnarekha river in Balasore district (Latitude 21° 33' and Longitude 87°24').

It shows the great irregularity of contour having steep elevations and abrupt falls all through. There are, however, distinguishing features, one end being the low level flat belt of the deltaic plains next to the sea coast and the other end being a tableland of notable elevation beyond the plains of Rayaghada. It will be seen that over this tableland runs the Machkund river at a height of 2,600 ft. above the sea level leading to

<sup>•</sup> Strictly speaking this is not the cross-section running along a straight line between two points. Such a geometrical method will miss salient physical features of the country. Slight deviations are made with a view to pass over typical elevations and depressions, so as to secure a panoramic view of the hills and dales against the sky-line coinciding with the section line.

the advantage of the great hydro-electric power station at a suitable spot in the course of the river at Duduma, which is now under construction. In between the deltaic plains and the tablelands beyond Rayaghada, lies a tract of uncertain

surface of great heights alternating with low valleys, between the Kapilas Parbat in Dhenkanal district and the Kirimbathali Peak in Koraput district. The general relief of the country offers scope for interesting study.

#### II. Brief History of the Land and the People

- 8. Emerging from pre-historic times with references in the Vedic and Epic literatures, the people of ancient Kalinga distinguished themselves as pioneers in maritime activities and overseas colonisation in early days and took to empiremaking under the Jain king Kharavela before the Christian era. He became the over-lord of the south and the west India and then spread his conquests towards the north. After Kharavela, Kalinga had periods of subjugation by foreigners, viz., by the Kushans and the Guptas, but mostly had dynasties of its own ruling over the land and spreading their sway over neighbouring countries. These dynasties had powerful kings credited not only for military prowess but also for cultural activities of abiding The most noted kings are Lalatendu Kesari, the builder of the Bhubaneswar temple about the middle of the 9th century, Anangabhima Deva II, the builder of the Jagannath temple at Puri towards the close of the 12th century, Narasimha Deva, the builder of the Konarka temple about the middle of the 13th century and Mukunda Deva, the builder of the Barabati Fort in the second half of the 16th century. At the height of their powers, the kings of the mighty kingdom of Kalinga ruled over the territory extending from the banks of the Godavari on the south to the Ganges on the north.
- 9. Orissa came under the Pathan Sultans of Bengal and later under the Mughal Emperors of Delhi from 1568 to 1751 when it was ceded to the Marhattas by Alivardi Khan, Nawab of Bengal. It continued to be under the sway of the

Marhattas for about half a century till 1803 and was then conquered by the British in India.

- 10. Orissa was then attached to the province of Bengal and in 1804 a Board of two Commissioners was appointed to administer the territory. It was constituted into the district of Cuttack in 1805, but in 1823 it was first split up into three regulation districts of Cuttack, Balasore and Puri and 17 non-regulation tributary Mahals administered native chiefs under the responsibility of a Commissioner. Khondmals was ceded in the year 1835 by the tributary chief of Baudh state while Angul was annexed in the year 1847. Ultimately, Sambalpur district was transferred from the Central Provinces to Orissa in 1905. Five tribus states of Patna, Kalahandi. Sonepur, Bamra and Rairakhol were also transferred from the Central Provinces to Orissa and in the same year the two states of Gangpur and Bonai were transferred from Chotanagpur Division.
- Orissa continued to be outlying Commissioner's Division Bengal till 1912 when it was transferred to Bihar. Ultimately it was constituted into a separate province on the 1st of April 1936 by the Government of India (Constitution of Orissa) Order, 1936, when some portions of the Central Provinces and Madras, namely, Nawasubdivision and Ganjam and Koraput districts were added to the bounds of Orissa. This was the result of prolonged and intensive movement for amalgamation of all Oriya-speaking tracts which gradually gathered so much

force that ultimately in January 1936 an Order in Council was promulgated by the British Government creating Orissa as a separate province.

12. The province of Orissa as thus constituted comprised the six districts of Cuttack, Balasore, Puri, Sambalpur, Ganjam and Koraput. Oriya-speaking feudatory states, numbering twenty-four were placed under the Political Agent in charge of the Eastern Zone stationed at Sambalpur. One of the first tasks of the Government of the newly constituted to reconcile different province was systems of administration obtaining in the old districts of Orissa, in the ex-Madras areas now constituted into two districts, and in the portion of the Central Provinces which was added to the district of Sambalpur. The systems were in many respects entirely different in detail and sometimes in underlying principles.

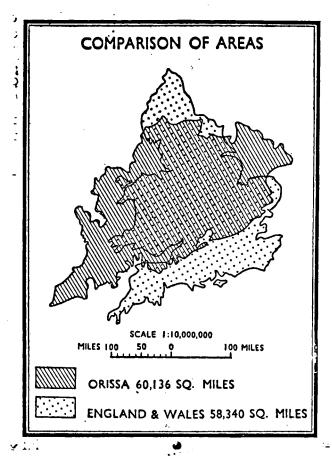
13. The province was in its infancy when signs could be read of a forthcoming change arising from conditions created by the World War in which India was engaged and ultimately culminated in the termination of the British rule in India in the year 1947. The withdrawal of the British resulted in the lapsing of the British sovereignty over the Indian States. Side by side with the rising tide of nationalism in the British India territory, there was a rapid growth of peoples' movement in the state areas. Anticipating troubles, the rulers of Orissa states attempted to form the Eastern States Union in 1947. The idea of creation of a separate province was also an alternative suggestion occurring to many who were opposed to the creation of the Eastern States Union. But ultimately it was the development of events in the small state of Nilgiri which was the basis of an eventful decision. In the month of November 1947, the Adibasi problem

became so acute in the state of Nilgiri that the ruler could not himself control it and the infuriated Adibasis rising up with bows and arrows began to occupy the lands of other people. The situation was out of control and the Government of Orissa apprehended that the repercussions may extend to the neighbouring district. The matter was placed before the National Government of India, with whose permission, the Government of Orissa took charge of the administration of Nilgiri.

14. Within a month of taking over of the administration of Nilgiri, the situation in other states of Orissa called for intervention on the part of the Government of India. This ultimately resulted in the merger of 23 states with Orissa with effect from the 1st January 1948. Conditions existing in another state, namely, Mayurbhanj were somewhat different as the ruler had vested extensive administrative powers on a local body. It, however, took one full year for events to reach a parallel state in Mayurbhanj, which on the 1st January 1949 finally merged with the State of Orissa.

15. The State of Orissa with districts existing since the year 1936 and with 23 ex-state areas merged in 1948 and another in the year 1949, acquired its final territorial shape as it now stands. There was then the reconstitution and delimitation of districts. Some of the ex-states were attached to the adjoining old districts, while others particularly with a reasonable size were given the status of a district of the State. In this way, Orissa ame to have the present number of 13 districts. The State has now an area of 60,136 square miles and a population of 14,645,946. One of the late Governors is of the view that "In respect of its resources in land forests, rivers, waterfalls, mines and maritime potentialities put together,

Orissa is next to none of the major Provinces of India". In territorial extent, Orissa is bigger than England and Wales and is over four times as large as Egypt. It has 23,000 square miles of forests and 300 miles of sea-board, enormous prospect of hydro-electric power, vast mineral deposits, namely, coal, iron, manganese ore, bauxite, chromite, mica, limestone and 30 other occurrences of industrial value and immense possibilities of development of



capital and cottage industries. Even if a part of the immense resources in land, water, minerals and man-power can be explored, Orissa will rise to unprecedented height of prosperity and power. The mineral wealth of the State is lying unexplored and unexploited, the man-power which is admittedly intelligent and industrious is being wasted for want of opportunity. Thus, in spite of tremendous wealth in various forms, it is still in a state of backwardness. Characteristically, the people of Orissa are simple, goodnatured and contented.

They are generally not excitable and they accept the vagaries of nature with philosophic calm, seeing the hand of God in draught, rainfall, flood and pestilence. They are hospitable and so inherently conservative in rural areas that they have deeprooted distrust of any idea which is new. But those that have modern education, have effectively discarded this conventional character and are progressive, ambitious and dynamic.

16. Such is the land of Orissa.

#### III. Change in Area

17. The changes in the area of Orissa since the year 1872 are shown in the statement below:—

|      | Area in square miles |               |        |  |  |
|------|----------------------|---------------|--------|--|--|
| Year | Orissa proper        | Orissa states | Total  |  |  |
| (1)  | (2)                  | (3)           | (4)    |  |  |
| 1872 | 7,717                | 16.184        | 23,901 |  |  |
| 1881 | 9,053                | 15,187        | 24,240 |  |  |
| 1891 | 9,853                | 14,387        | 24,240 |  |  |
| 1901 | 9.841                | 14,387        | 24,228 |  |  |
| 1911 | 13,743               | 28,046        | 41,789 |  |  |
| 1921 | 13,736               | 28,046        | 41,782 |  |  |
| 1931 | 13.706               | 28,046        | 41,752 |  |  |
| 1941 | 32,198               | 25,194        | 57,392 |  |  |
| 1951 | 60,136               | • •           | 60,136 |  |  |

18. As shown above, the area of the province of Orissa in 1941 was 32,198 square miles. The Province was constituted at that time of six districts only, viz., Cuttack, Balasore, Puri, Sambalpur, Ganjam and Koraput. So far as census operations of 1941 were concerned, there was a common authority for these six districts as well as for 23 feudatory states comprising Mayurbhanj, Patna, Kalahandi and all the states in the Orissa States Agency except Gangpur, Kharswan and Saraikela. The area of these 23 feudatory states was 25,194 square miles, so that the total area of the province of Orissa together with the 23 states was 57,392 square miles as shown in the Census Report of 1941.

- 19. The present area of the State as furnished by the Surveyor General, India is 60,135.9 square miles. This area is, however, different from that obtained from local sources which comes to 60,127 square miles. Generally the latter figure has been adopted for purpose of discussion of census statistics, as the Surveyor General, India does not keep a record of areas of administrative units below district level. The areas of smaller units had therefore to be ascertained from local sources, which give a slightly different total.
- 20. The increase in the area of the State from 32,198 square miles in 1941 to 60,136 square miles in 1951 is primarily due to the integration of the ex-state areas with the old area of the province. On the 1st August 1949, 24 ex-states were completely merged with the province under the States Merger (Governor's Provinces) Order, 1949, increasing the area of the State to what it is now. The ex-states which thus merged are Athgarh, Tigiria, Baramba, Narsingpur, Nilgiri, Nayagarh, Daspalla, Khandpara, Ranpur, Bamra, Rairakhol, Dhenkanal, Talcher, Pal-Lahara, Ath-. malik, Hindol, Keonjhar, Baudh, Patna, Sonepur, Gangpur, Bonai, Kalahandi and Mayurbhani.

#### IV. Population Zones and Natural Divisions

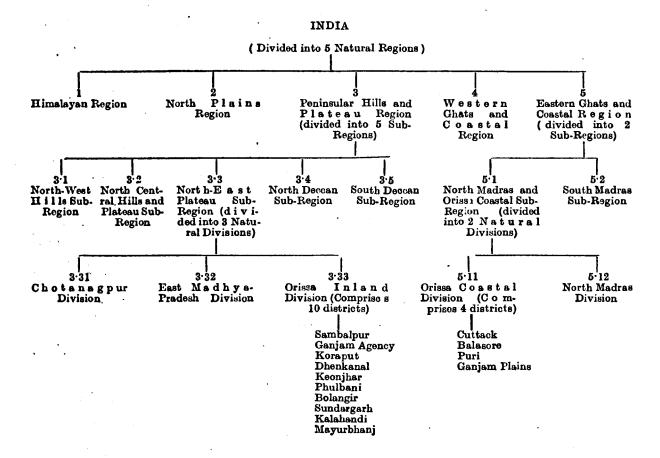
21. For a comprehensive study of the population data, it is necessary to proceed by suitable divisions of the country on the basis of administrative set up or physical features. This practice was in vogue in past censuses but it fell into disuse after 1911 in respect of all-India Report. On the present occasion, however, it was considered necessary to revive the practice and, accordingly, India has been divided into 6 Union Population Zones on the basis primarily of contiguity and

- convenience for purpose of review. Out of these six Zones, namely—(i) North India, (ii) East India, (iii) South India, (iv) West India, (v) Central India and (vi) North-West India Zones, Orissa along with some other States of Eastern India, namely, Bihar, West Bengal, Assam, Manipur, Tripura and Sikkim comes under Zone No. (ii) namely, East India.
- 22. Administrative or political divisions of a country are not wholly

convenient for discussing the results of the census in all its aspects. Therefore a further division of the country becomes indispensable. Such a division of India has been made on the basis of physical features, independent of political or administrative considerations. Accordingly, India has been divided into five 'Natural Regions', based solely on physical features and without reference to the material differences in soil and rainfall conditions. These five Natural Regions have been sub-divided into 15 Natural Sub-Regions

on the basis of substantial difference within each Natural Region in respect primarily of soil or rainfall conditions, and also taking into account differences in the cropping pattern. The 15 Natural Sub-Regions, in turn, have been divided into 52 Natural Divisions on the basis primarily of intersection of Sub-Regions with existing political divisions.

23. The scheme of Natural Divisions, particularly relating to the State of Orissa is shown below:—



24. In accordance with the above scheme, Orissa has two Natural Divisions, namely, Orissa Inland Division (Code No. 3.33) and Orissa Coastal Division (Code No. 5.11).

25. The Orissa Inland Division is formed of an extensive hinterland extending over the three well-defined tracts of Orissa, namely, the Northern Plateau, the Eastern Ghats and the

Central Tract. This natural division comprises the administrative districts of Sambalpur, Ganjam Agency, Koraput, Dhenkanal, Keonjhar, Phulbani, Bolangir, Sundargarh, Kalahandi and Mayurbhanj and has an area of 46,052 square miles. The Orissa Coastal Division

comprises the administrative districts of Cuttack, Balasore, Puri and Ganjam Plains only with an area of 14,075 square miles. The description of physical features of these areas has been given in earlier paragraphs.

#### V. Geology and Minerals

#### GEOLOGICAL OUTLINE

26. The territory covered by the State of Orissa is geologically one of the least known regions of India. There was no regular geological survey, but there were occasional traverses and some amount of mapping made in selected areas during the last 80 years. An attempt to make a systematic geological survey of all reported mineral occurrences was made in the year 1939. The progress of work has been slow indeed, but steady and a preliminary account of the known deposits visited by officers of the Geological Survey of India is now available.

27. In earlier geological times, the portion of Orissa now occupied by the Eastern Ghats was low in level and the main streams, the Mahanadi and the Brahmani which were then in existence flowed eastwards. The whole surface. sloping eastwards, was flat to moderately undulating with occasional hills rising here and there. In the next phase, there was the deposition of Gondwana beds, which led to the uplift of a belt extending from Chotanagpur, through Keonjhar south to Phulbani, Ganjam and Koraput and finally into Madras. This uplift took place in a series of geological events. The first uplift was of the order of about 1,000 feet, creating plateaus and uplands which became covered with extensive capping of laterite as represented by the high hills of the Eastern Ghats and the Koraput plateau. A prolonged erosion of the surface ensued reducing the altitude of the western part. Then came the second uplift elevating the southern portion to a level of 3,000 feet and the much-eroded western portion to 2,000 feet. The western portion was again subjected to erosion but the plateau from Khariar to Jeypore was spared to a considerable extent.

28. East of the uplifted region is a zone of irregular and interspersed hills which can be followed up to a few miles parallel from the coast line. This zone also has attained its final elevation by a succession of uplifts. Lastly, comes . the coastal strip, gradually sloping into the Bay of Bengal. Even this low-lying region is the result not merely of deltaic activity of rivers but of uplift movements, for around the Chilka lake certain deposits of shells of estuarine type occur at a height of 20 to 30 feet above the present high water level indicating recent uplift.

#### MINING: EARLY HISTORY

29. The use of metals is older than the recorded history of mankind. In the past, iron, copper and other metals seem to have been worked extensively in India, as is evident from archaeological finds. The fame of ancient Indian Steel, Wootz, a very high grade of steel exported to Europe even before the Christian era for manufacture of swords and weapons, testifies to the mining and metallurgical skill of Indians. Indian metals also appear to have reached the south-east Asia in those early days. It is conceivable that Orissa must have played a prominent part in the extraction

of iron and other metals, not only for export to foreign countries, but also for military and domestic requirements of the homeland, for of all localities in India, iron is available in enormous quantity and high quality within bounds of Orissa and the adjoining areas of Chotanagpur and Madhya Pradesh. But this is ancient history. Later on, the iron workers of Orissa were content with smelting of low grade iron that could be available by simple quarrying of superficial deposits, lying scattered from Koraput to Mayurbhanj.

30. Notions of modern mining did not originate in India. Since the century when James Watt of England invented the steam engine and Abraham Darby first used coke for smelting iron, the use of minerals has been increasingly associated with day-to-day life. The Industrial Revolution emphasised the value of coal and iron as the most coveted minerals of a country. Since then, the rise of industrial nations in the world has been largely dependent upon their possession or exploitation of adequate quantities of these two valuable minerals. The rapid development in the use of iron and steel led to an everincreasing demand for other metals and minerals. Under these conditions. search for different minerals received great impetus and the Geological Survey started investigations in Indian soil in the last century. Private enterprises gradually appeared in the field of extraction of minerals.

#### SLOW UNMETHODICAL DEVELOPMENT

31. Orissa received rather cursory attention in the past from the Geological Survey of India. This is because, till late nobody knew that a colossal wealth of economic minerals is hidden in her bowels. A survey was made as late as 1939 and even this is not to be regarded as a comprehensive work. Under the circumstances there was no incentive

for mining activity in Orissa. Of course. the discovery of coal in Talcher and Sambalpur is nearly one century old, but these were stray cases, hardly attracting the attention they deserved. Slow, occasional and unmethodical extraction of minerals was started in the present century. At present, the ore-bodies are worked, not for the extraction of metals contained in them, but for the purpose of exporting them in raw condition. The absence of metallurgical enterprise in Orissa has led to the total neglect of mineral deposits except in case of those whose export in raw condition is paying. Even this activity is being done in a restricted manner on account of shipping difficulties, as Orissa has no port of its own worth the name. This is a serious drawback in the exploitation and development of mineral resources of Orissa. Moreover, the haphazard manner and the crude methods which characterise the present day mining in Orissa amount to serious loss of national resources. The ores which are rich in mineral contents are taken out while those containing lesser percentage of minerals are left to waste. It should not be forgotten unlike forest or agricultural products, minerals once extracted mean decrease in the total quantity of that particular wealth. Therefore, as far as possible, even the poorer grade of ores should be utilised to the full. This requires technical knowledge, in which field our mine-owners are so deplorably ignorant. Unless more enlightened types of lessees come in future, there will be justification in considering the controversial issue of nationalization, of at least a few key minerals which are assets of the nation.

#### MINERAL RESOURCES

32. The description of mineral resources of the State may be given, first, on the basis of two Natural Divisions of Orissa separately.\*

Based on information collected from the Geological Survey of India.

#### ORISSA INLAND DIVISION

33. This Natural Division is a part of the Natural Sub-Region 3.3-North-East Plateau, consisting of Chotanagpur division, east Madhya Pradesh division and Orissa Inland division. This Sub-Region is the most highly mineralised region in the whole of the Indian subcontinent and carries large reserves of iron ore, manganese ore, copper, bauxite, coal, limestone and mica, in addition to the other less important minerals like kyanite, chromite, wolfram, tantalite, vanadiferous magnetite, pitchblende, asbestos, graphite, clays, etc. The greater portion of the region is occupied by crystalline schists, gneisses and granites of Archaean age in which occur patches and large basins of sedimentary rocks of Purana group as well as coal-bearing Gondwanas. The Sub-Region is important for the large reserves of lower Gondwana coals estimated at about 4,500 million tons within a depth of 2,000 feet, of which nearly 2,000 million tons are good quality coking coal.

34. The whole of Gangpur, Bonai, Keonjhar, Mayurbhanj and adjoining areas are made up of phyllites schists, limestones, dolomites and other crystalline rocks. The hill masses in Bonai, Keonjhar and parts of Mayurbhanj contain banded hematite quartzites and iron ores. A large region in east Keonjhar and Mayurbhanj extending upto south Singhbhum is composed of intrusive granites called the Singhbhum granites which are traversed by a network of dolerite dykes. The rocks of the iron ore series in South Singhbhum, Bonai, Keonjhar and Mayurbhanj carry large reserves of workable iron ore estimated at 8,000 million tons, and amounting to nearly 60 per cent of the total Indian reserves. The deposits at Badampahar, Gorumahisani and Sulaipat in the district of Mayurbhanj are being worked by Tata Iron and Steel Company

and those at Barabil in Keonjhar by Bird and Company. The total quantity of iron ore produced from these areas is of the order of over  $2\frac{1}{4}$  million tons per annum. In addition to the iron ore, there are large deposits of manganese ore in the iron ore series rocks in South Singhbhum, Bonai and Keonjhar. The annual output of manganese ore from this area has increased in recent years from about 60,000 tons in 1946 to nearly 1,00,000 tons in 1949.

35. Other important minerals from the above mentioned areas are chromite, vanadiferous magnetite, kyanite, steatite, limestone, dolomite, china-clay, asbestos and apatite. The production of chromite from Singhbhum and Keonjhar now is about ten to thirteen thousand tons. The kyanite deposits of Kharswan, Seraikela and Mayurbhanj are the largest in the world with an annual output of 12,000 to 14,000 tons. The reserves of kvanite at Kharswan has been estimated to be over 2 million tons. The production of steatite from Seraikela, Singhbhum, Keonjhar and Mayurbhanj is about 1,000 tons annually. The reserves of limestone and dolomite in Sundargarh district are very large and these supply the entire demands of flux-grade limestone and furance-grade dolomite to the iron and steel factories of eastern India. The annual production is of the order of 8,00,000 tons of limestone and 70,000 tons of dolomite. There are also deposits of china-clay in Singhbhum, Mayurbhanj and Keonjhar which produce 20,000 to 30,000 tons per annum.

36. There is a stretch of coal bearing sand-stones and shales of lower Gondwana age along the valley of the Ib in Sundargarh and the adjoining areas of Madhya Pradesh. There are several small coal fields like Rampur and Hemgiri in this area.

37. The Eastern Ghats south of the Mahanadi in Patna, Kalahandi, Khondmals, Koraput and Ganjam are composed of rock groups called the khondalites and charnockites, and carry untapped reserves of manganese ore, graphite, bauxite, etc., but owing to inaccessibility these areas remain still undeveloped. Numerous small deposits of bauxite estimated to contain over 3,50,000 tons occur in the Karlapat hills in the Kalahandi district and also in the Khariar highlands. The graphite deposits of Athmalik, Patna, Rairakhol, Sambalpur and Koraput are known to be the largest in India, the annual production of the mineral varying from about 500 tons to 1,500 tons. Deposits of manganese ore have recently been located in Kalahandi and adjoining areas and a production of a few thousand tons has been recorded from Koraput. Other important minerals are limestone, marble, clays glass-sands, steatite, etc. A small patch of coal-bearing sandstones covering an area of 200 square miles Talcher. Two occurs in seams of coal are known to occur, but though the field is worked, it has not yet been prospected in detail for proving the reserves. The present production of coal from the field is about 3,00,000 tons annually.

#### ORISSA COASTAL DIVISION

38. This division along with the North Madras Natural Division forms the Eastern Ghats and Coastal Sub-Region extending along the sea from Balasore in the north to Madras City in the south. Balasore, Cuttack and Puri districts are underlain by recent deposits of sands, silts and clays with large patches of laterite extending for a width of 30 to 40 miles from the coast beyond which occur Khondalites and charnockites.  $\mathbf{In}$ Ganjam district, the gneissic rocks approach the coast with only a fringe of recent deposits along the shore and river valleys. The Eastern Ghats of Ganjam and Visakhapatnam extending southwest into the East and the West Godavari districts are made up of charnockites, Khondalites and associated bands of quartzites and marbles.

39. Except for small deposits of steatite, litho-marge, iron ore, fire-clay and pottery clay in the Cuttack district and numerous small occurrences of mica, some china-clay and manganese ore in the Ganjam district, the Orissa Coastal Division is poor in mineral resources.

#### ECONOMIC MINERALS

40. The above review of mineral resources of Orissa has been a little too technical and an attempt is made below to give a simple outline of the economic minerals found in the State. With regard to the industries connected with mining and metals, reference may be made to Sections V and VII of Chapter V of this Report.

#### IRON

41. This mineral is the backbone of modern civilization. It is most fortunate for Orissa that there are immense deposits of high grade iron within its bounds. Iron ores probably not inferior to the best quality in the world are found in Mayurbhanj, Bonai and Keonjhar where the total deposits may exceed 2,000 million tons. In other words, if exploitation is made at the rate of 2 million tons of ore a year, the deposits in Orissa will be sufficient to last 1,000 years. This gives some idea of the colossal quantity of deposits in the State. Another special feature about this mineral in Orissa is that it is capable of being cheaply mined being located in comparatively less inaccessible tracts. Besides there are huge quantities of low grade iron ores spreading over different areas of Orissa from Koraput to

Mayurbhanj. Sambalpur district has several small occurrences of low grade iron estimated at nearly 50 million tons scattered over different localities. In the district of Koraput there are several smaller deposits lying scattered here and there. High grade iron ores have been located at the Hirapur hills, in Umerkote police-station in Koraput district, which though small, being estimated at 10 million tons, have high iron content ranging upto 63 per cent. A small deposit of iron ore, the total quantity of which has not yet been estimated, has been found in Sukinda in Cuttack district. Its iron content is supposed to be very high, namely, 66 per cent to 69 per cent. This may be compared to iron ores of America which contain about 55 per cent of iron and of Lorraine which are smelt and worked in France and Germany containing 35 to 40 per cent of iron. The ores found in England have a still lower iron content. The richness and high commercial value of the iron ores of Orissa are thus evident. At present the annual production of iron ores in Orissa is nearly one and a half million tons, mostly utilized by the Tata Iron and Steel Factory.

#### COAL

42. Coal is the most important of mineral products in Orissa. Knowledge of occurrence of coal in Orissa dates back to 1837, when a small deposit was noticed in Talcher. In 1854 another deposit of coal was discovered in Sambalpur. But active development on modern lines was not commenced in Sambalpur till 1909 and in Talcher till 1919. At present five areas are known to have major coal-bearing rocks, namely, the Talcher Coal Fields, the Rampur Coal Fields in Sambalpur, the Himgir Coal Fields in Sundargarh, the Athgarh basin in Cuttack and the Khondmals basin. The Talcher Coal Fields yielded about 5 thousand tons of coal in 1923, developing to over three and a half lakh tons

in 1933. In the Rampur Coal Fields production began in 1910 with about 100 tons, rising to 61,000 tons in 1914. Since then the production has been fluctuating from year to year between 20 and 30 thousand tons. The Himgir Coal Fields in Sundargarh district yield a good quality of coal though the quantity of production is small. Coal is also reported to occur near the Sidheswar hills, about 7 miles west of Cuttack but this has not been properly investigated. The Athgarh and Khondmals basins however do not hold out much prospect of success in a commercial sense. The total production of coal in Orissa exceeds 4 lakh tons per year at present.

#### MANGANESE

43. India is one of the largest producers of manganese ores in the world, being second only to Russia. Most of such ores in India is being mined in Madhya Pradesh. Orissa may also be able to produce this mineral in large quantity as there is field for extensive extraction. Large deposits of high grade manganese have been recently found at Kutingi nearby the Rayaghada railway station. The present production is between 80 and 90 thousand tons per year. It is estimated that about 4 lakh tons of manganese are available in the Kutingi deposits. Manganese mines are also being worked at present in Keonjhar district.

#### BAUXITE

44. Bauxite which yields the valuable industrial metal aluminium is available in the laterite hill tops of the Eastern Ghats in the northern portion of Koraput district, particularly in the Girliguma hills. High grade aluminiac laterite is to be seen in several hills of the Khariar tableland and in Karlapat hills in Kalahandi district. These deposits are believed to be the best in quality in India. As electricity plays a vital part in aluminium metallurgy, there is good

prospect of development of this industry in Kalahandi and Koraput districts, when cheap electric power from the Machkund Hydro-Electric Project will be available.

#### CHROMITE

45. This is an important industrial mineral which is being mined in the district of Keonjhar. The production ranges between 5 to 6 thousand tons per year at present.

#### LIMESTONE

46. Extensive deposits of limestone and dolomite, suitable for lime burning and cement making as well as for fluxing the iron and steel industry occur in Sundargarh, Sambalpur and Koraput districts. The extent and magnitude of deposits have not been surveyed but it appears that hundreds of million tons of this mineral will be available in these districts. Limestone deposits also occur along the Kolab and the Sabari rivers in Malkangiri in Koraput district. These limestones are of high quality, free from impurities and containing nearly 96 per cent of calcium carbonate and are suitable not only for cement making but also for chemical preparations. In the district of Sambalpur, extensive deposits have been located at Sulai, Padampur, Lakshmanpur, Dungri and in the neighbouring areas. Sundargarh district has very high quality of limestone and dolomite, extensively scattered throughout the district, making possible the establishment of a modern cement factory at Rajgangpur and several lime manufacturing concerns in the country nearabout.

#### MICA

47. India is the largest producer of mica in the world, most of which comes from Bihar. It is also available within Orissa, though in a much smaller extent. A small occurrence was found in village Baghudi about 4 miles from Soro railway station in Balasore district. Occurrence

in some villages of Cuttack, such as, Baideswar and Chhatia and in some localities in Ganjam, Koraput and Sambalpur districts have been reported. Some of these deposits are being surreptitiously exploited.

#### GLASS-SAND

48. Pure quartz-sand, free from all iron impurities and possessing a uniform grain and texture, is of economic value in the manufacture of glass. Such materials are rare. Gondwana sand-stones, however, found near Naraj in Cuttack district as well as in the adjacent village Talgarh on the Mahanadi are sufficiently fine-grained and friable and are used for manufacture of glassware at the glass factory at Barang. Such sand-stones are also available near Dalapur in Koraput.

#### VANADIUM

49. Orissa is the only State in India where vanadium which is an important mineral has been located. This mineral occurs in the district of Mayurbhanj but its production has not been high and has been subjected to fluctuation on account of unsatisfactory management.

#### OTHER MINERALS

50. Orissa abounds in many other ecomonic minerals of lesser importance, scattered over different districts. To mention a few out of them, are abrasives, such as, garnets available in abundance in village Banapur in Koraput district and Mudepala in Nawapara subdivision of Kalahandi district; gondwanas suitable for mill-stones, hones, or grindstones available in Khandagiri and Nayapali in Khurda subdivision of Puri district; white clay available at Naraj in Cuttack district; refractories, such as, Kyanite, sillimanite and fire-clay available over different parts of the country, and building stones, such as, Khondalites, quartzites, garnetiferous granitic gneisses and

THE SOIL 15

charnockites meant for walls and floors of houses, roof-making, bridge-building and even for works of arts, sculpture and carving, which are available extensively throughout the State.

#### VI. The Soil

51. There has been no systematic survey of different types of soil of Orissa. Such a survey will eventually be necessary, primarily for development of forestry and agriculture, both of which play an important part in the economy of the State.

#### CONSTITUENTS

52. The soil derives almost the whole of its constituents from the rocks underlying it, although some organic acids and carbon, being the product of environment get into its formation independently. The classification of the types of soil of Orissa has to be mainly based on the relative silica-clay composition. The other soil constituents, such potash, phosphates, as, manganese, iron, etc., which are born of the rocks below, provide a scope for examination but the present knowledge about them is so scanty that the matter is left out of consideration. Even in respect of calcium which is regarded as the most important constituent of Orissa's soil next to silica and clay adequate knowledge is wanting, except that it is found in the shape of limestones or kankar scattered over or buried in surface soil in all districts of Orissa.

#### THE NORTHERN PLATEAU

53. This tract has a type of soil which is known as red earth. The granite which is so widespread in this region, gives rise to a rather coarse sandy soil with just sufficient clay to hold it together. The soil is comparatively open in texture. Moreover, there are extensive iron ore deposits in this area and the climate is humid. This results in accumulation of plenty of iron hydroxide on the surface, which causes

the uppermost crust of the soil to set as hard as cement in the dry season. The soil is poor in organic matter and plant nutrients and is therefore not particularly fertile and suitable for agricultural operations. These characteristics are most marked in Bamanghaty subdivision of Mayurbhanj district, Bonai subdivision of Sundargarh district and in the basin of Sundargarh subdivision.

#### THE EASTERN GHATS REGION

54. It has mostly lateritic soil, but as the region has varying levels of elevation and abounds in slopes and is subjected to difference in normal rainfall on the lee-ward and wind-ward sides of the Ghats, the natural environment and the action of weather find maximum scope for formation of the soil. The rains wash down the silica and kaolin contents of the soil and bring them to lower beds leaving a preponderance of aluminium and ferric oxides higher on the slope. The existence of higher percentage of iron oxide is the principal characteristic of laterite soil.

55. The covering of laterite soil is generally superficial, being limited to a few inches of thickness, though at times, it may be several feet, particularly at higher level. Laterites may be classified as high level or low level laterites on the basis of elevation at which they are found, resulting in difference in appear- $\mathbf{and}$ properties. High ance laterites are found in the uplands of Ganjam and Koraput and may be divided into sub-classes according to constituents. In consequence of its high iron content, the laterite soil is useless for agricultural purposes and does not permit dense and thickly

developed jungle growth. The hill tribes practice shifting cultivation on this soil.

56. The soil of lower altitudes of the Eastern Ghats has greater silica rather than iron content and is more appropriately called the red earth. Valuable bases which are drained down by water from higher levels, enrich the soil of the lower tracts, but even in the lower tracts, the bases generally remain separate in depressed or hollow spots in the form of solutions ultimately drying into grey earth while sand is left behind to form high crests of red earth.

# THE CENTRAL TRACT

57. This tract has a variety of soils, such as those that are formed out of the parent rock below and those that are transported from a distance and are redistributed. The black cotton soil is found on either side of river Mahanadi, spreading from Angul and Athmalik subdivisions on the left bank to Baudh subdivision on the right, extending far into the districts of Bolangir and Kalahandi along the northern banks of the rivers Suktel and Tel. The black soil is also found in the north-eastern part of district Ganjam. In Angul and Athmalik, the soil has a light black colour and is well-suited for bamboo plantation but elsewhere it is grey in colour, good for scrub jungle. The black soil has a higher content of a clay mineral called montmorillonite, remarkable for swelling properties on wetting. It has usually an admixture of kankar and is therefore limey. The soil cracks during the summer and becomes sticky during the rains. It is not ideal for building purposes but is more productive than red soil. Application of nitrogenous manure renders the soil suitable for growing foodcrops.

58. The soil to the east of the river Ib in Sambalpur district and extending

upto Rairakhol subdivision is known as yellow soil. The colour is the outcome of iron oxide and silicic acid salts which occur in the soil. It is sticky and is poor in fertility for cultivated crop.

59. Over the rest of the area comprised in the central tract, the soil is of distributed type. The innumerable streams of this tract drain granitic and gneissic rocks, so that the sediments are mainly sandy, but proportion of clay increases downstream in consequence of sorting. But at places, there are clay sediments followed in the lower by sand. This is possible courses because where the streams traverse clayey rocks, the sediments contain more of clay and where they pass over siliceous rocks, there will be greater proportion of sand. In the mica-schist area of Sambalpur district, the soil is of the type of potter's clay, while the Gondwana beds lower down in Dhenkanal district contain heavy loam in the soil. Laterite caping is also present to some extent in this tract. On the whole, the central tract is more  $\mathbf{covered}$ redistributed widely  $\mathbf{with}$ surface soils than any other natural tract in Orissa.

# THE COASTAL DIVISION

60. It contains deltaic alluvial soil. It has larger content of clay, but the soil in various parts of the delta may be differentiated according to the claysilica composition. In the northernmost section which lies in district of Balasore and which has been formed by the rivers Subarnarekha, Burabalang and Salandi, the soil is sandy loam, while in the delta of the Baitarani and Brahmani stretching over Bhadrak and Jajpur subdivisions, the soil varies from clay loam to stiff clay. The delta of the Mahanadi which covers portions of Cuttack and Puri districts has a liberal proportion of clay and silt but further south, the Rushikulya delta of Ganjam

is remarkably sandy. There is a narrow stretch of saline soil along the sea board and also marshy and swampy patches of land here and there. Sand dunes are noticeable along the surfbeaten coast.

#### Soil Erosion

61. As in the case of soil distribution. there has been no survey of soil erosion in Orissa. No information is available regarding the extent of scouring of the soil, the extent of erosion by action of wind, the loss of tonnage of soil per acre of cultivated area, the acreage of ravine lands formed due to erosion and so on. Even in the absence of such information, there is no difficulty in coming to the conclusion that soil erosion has been going on on account of such reasons as formation of fissures or nallahs, over-grazing and extension of cultivation. The extraction of stumps and roots and the destruction of forests and scrub jungle done in the interest of Intensive Cultivation Scheme or Grow More Food Campaign expose the bare land to the quick work of water and wind with the result that the top soil, which is generally fertile, is lost. Nothing has been done to

prevent or retard the pace of this loss by blocking the fissures, strengthening embankments and bunds, planting of suitable trees, grass or fodder crops or by stopping indiscriminate grazing and destruction of jungle growth. The consequences are felt in the tragedy of loss in the yield of crops, silting of anicuts and dams and rising up of the beds of rivers, particularly in the coastal division, which in turn, has been causing devastating floods in the country at frequent intervals.

62. In the coastal division, soil erosion does not appear to have become a serious problem. Some extent of erosion, caused by over-grazing and opening of land for cultivation purposes in this division is mostly counter-balanced by the slow but steady deltaic activity of its rivers. The problem, however, is the inland division. different in particularly in the Eastern Ghats Region, where the steeply inclined hill slopes and the undulating surface soils are subjected to rapid erosion due to heavy rainfall and stream activity. This again is aggravated by deforestation. The problem calls for early preventive measures.

# VII. Climate and Rainfall

63. As characteristic of maritime tropical countries. Orissa may be roughly said to have three seasons, the cold weather, the hot weather and the rains. The cold weather lasts from November to February. The hot weather commences in March terminates with the setting in of the rains in June. Thereafter the rains continue till the month of October. The climatological particulars of the two natural divisions are mentioned below separately.

# ORISSA INLAND DIVISION

64. This division consists of mountains, peaks, low hills, valleys and plains,

interspersed among one another and varying in altitude upto nearly 4,000 feet. In an area of such varying orography and physical features, the climatic conditions are expected to vary considerably.

65. December is the coldest month of the year when the mean maximum temperature is 80°F at Sambalpur (500 feet above sea level) and 77°F at Koraput (3,000 feet above sea level). The mean minimum is 54°F and 48°F respectively. The lowest minimum temperature recorded is 40°F at Sambalpur and 37°F at Koraput. December is the driest month of the year, when

little or no rain is recorded. In January and February, however, some rain amounting to half an inch or one inch occurs, generally as thundershowers.

66. The weather starts getting hot by March and continues so upto the onset of the monsoon in June. In May, the hottest month of the year, the mean maximum temperature is 107°F at Sambalpur, but very much lower, 94°F at Koraput. In the hilly areas, the temperature is expected to be appreciably lower than in the valleys or plains. Sambalpur has recorded the highest maximum temperature of 117°F in May and 116°F in June, whreas at Koraput it has been only 104°F. Thunderstorms are fairly frequent during the hot season and some of them are accompanied by showers and squalls.

67. The onset of the monsoon which takes place by about the 10th or 15th of June is preceded by the pre-monsoon thunderstorms which are very frequent. Even during the monsoon season, there is very pronounced thunderstorm acti-vity. The period June to September is the rainiest part of the year and July and August are the wettest months. Nearly 60 per cent of the annual rainfall is recorded during these two months. The division lies in the path of the cyclonic storms or depressions which pass accross north India from the Bay of Bengal and in association with their formation and movement' very heavy rain is sometimes experienced. Sambalpur has thus recorded in a single day 10 inches of rain in June, 15.8 inches in July, 10.5 inches in August and 6.8 inches in September and October. The rainfall in this division is mainly controlled by the formation and movement of these monsoon depressions. In those years when these are few or are not of sufficient intensity, rainfall is much below normal and in other years when monsoon depressions form one after another in succession, there is an abundance of rainfall sometimes leading Thus, Sambalpur, which floods. receives on an average 20.56 inches of rain in July had 41.96 inches of rain in that month in 1892, but on y 7.43 inches in 1911. Similarly in August, when the average rainfall is 19.04 inches, a quantity of 35.83 inches of rain was recorded in 1907 but only 4.75 inches in 1892. The rainfall in the wettest year at Sambalpur was 91 inches and that during the driest year 37 inches compared to an average annual of 66 inches. The monsoon generally withdraws from the division by about the 15th October. The weather starts cooling by November.

# ORISSA COASTAL DIVISION

68. This division is directly in the track of storms which frequently cross inland from the Bay of Bengal during the south-west monsoon. Rainfall is more in the northern districts than in the southern. On an average, about 60 inches of rain falls in the northern districts while in the southern districts, it is about 50 inches. In the rainiest year the northern districts have received as much as 100 inches while in the southern districts the maximum was about 80 inches. Another important feature of the division is that the rainfall has never fallen below 50 per cent of the normal. In the plains, the south-west monsoon rains are heavier inland than on the coast while the north-east monsoon gives more rain on the coast than in the interior. Data of over 50 rain recording station; and of the observatories at Balasore, Cuttack, Puri and Gopalpur illustrate the climatic features.

69. December to February has a fine weather except occasionally when the weather is slightly disturbed and light rainfall for about one or two days each month occur near the coast. Two to five days of thunder each month have

The early been recorded near the hills. mornings are cool and misty. For about five to ten days in December and January, thick mist persists till about 10 A.M. in the Mahanadi delta. The early morning temperature is of the order of 60°F and the afternoon temperature ranges between 83°F to 88°F. The lowest temperature of 44°F has been recorded at Balasore and 46°F at Cuttack. Winds are mainly N-NW. In the afternoons, winds near the coast become easterly in December changing to southerly in February.

70. March to May is the hottest season with the average maximum temperature in the northern districts of Balasore and Cuttack about 100°F and in the southern about 90°F. In May, districts temperature of 116°F has been recorded at Balasore and Cuttack. Gopalpur has once recorded 110°F in May, Puri having never recorded more than 103°F. Skies get more clouded with the advance of the season and together with it, rainfall associated with thundershowers. occur. On the average, about 5-6 inches of rain falls, the northern districts getting more than the southern ones. The frequency thunderstorms  $\mathbf{of}$ increases from 6 days in March to 12 days in May. Winds are south-westerly but change to southerly in the evenings.

71. June to September is the main rainy season when the south-west monsoon contributes nearly three-quarters of the annual rainfall. Monsoon advances in the first week of June usually ushered in by depressions which form at the head of the Bay of Bengal. A series of such depressions which move west or north-west cross the Orissa coast

in July and August giving widespread and heavy rain. Associated with cyclonic storms, Balasore and Cuttack have recorded rainfalls of 13.67 inches and 12.63 inchs respectively in a day. The atmosphere becomes hazy and visibility is reduced to less than 2 miles on many days. Winds are SW-S. The monsoon generally withdraws in the last week of September or first week of October. But in October, a few storms which form in the Bay of Bengal recurve near Madras coast and move north north-east affecting weather over the Orissa coast. They cause very heavy rain near the coast. On one single day in October, a rainfall of 12.48 inches and 10.09 inches have been recorded at Puri and Gopalpur respectively. On average, about 11-12 inches of rain falls in the southern districts and about 7-8 inches in the northern districts during the months of October and November.

## RAINFALL STATISTICS

72. The monthly rainfall during the year 1950 in the districts of Orissa is given in the following page together with the annual normal rainfall for each district. \* The annual normal is the arithmatical mean computed by the usual method of dividing the sums of the appropriate rainfall amounts for the district by the number of years to which the date relates. The period on the basis of which the normals are calculated for any station or district is not fixed, nor is it the ame for all stations or districts. As much of the available data as possible are utilised for computing the normals for each locality. Normals are, however, not worked out with less than five years data.

<sup>\*</sup> Figures obtained from Deputy Director-General of Observatories, Poona.

# INTRODUCTION

Monthly Rainfall (in inches) in Orissa in 1950

| District   |            | January | Febru- | March        | April | May  | June  | July          | August | Septem-<br>ber | Octo-<br>ber         | Novem-<br>ber | Decem-<br>ber | Annual<br>normal<br>rainfall |
|------------|------------|---------|--------|--------------|-------|------|-------|---------------|--------|----------------|----------------------|---------------|---------------|------------------------------|
| Cuttack    | ••         | 0       | 0-60   | <b>2</b> ·50 | 0-97  | 2.39 | 8-91  | 13-19         | 14.24  | 12.93          | 2.49                 | 8.40          | 0             | 59-51                        |
| Balasore   | <b>-</b> . | 0       | 0.52   | 2.95         | 0-42  | 3.79 | 8.68  | 12.35         | 8.32   | 11.83          | <b>3</b> ·2 <b>5</b> | 7-47          | 0             | 59.41                        |
| Puri       | •,•        | 0       | 0-33   | 3.83         | 1.05  | 2.31 | 10.46 | 12.59         | 9-59   | 7.75           | 2.66                 | 9.31          | 0             | <b>57·3</b> 8                |
| Sambalpur  | ••         | . 0     | 1.27   | 2.62         | 0     | 0.06 | 8.08  | <b>15</b> ⋅09 | 21.23  | 7.42           | 0.38                 | 1.09          | 0             | 60.56                        |
| Ganjam     | ·          | 0       | 1.01   | 3.14         | 0.45  | 1.21 | 6.61  | 10.25         | 7.33   | 5.92           | 3.03                 | 6.31          | 0             | 51.93                        |
| Koraput    | ••         | 0       | 0-73   | 1.16         | 0-39  | 1.92 | 7.46  | 11.45         | 13.03  | 6.22           | 2.97                 | 4.71          | 0             | 59.58                        |
| Dhenkanal  | ••         | 0       | 1.33   | ¥·90         | 0.08  | 1.40 | 5.52  | 8.82          | 13.96  | 7.00           | 1.46                 | 3.49          | 0             | 55.91                        |
| Kconjhar   |            | 0       | 0-69   | 2.90         | 0.27  | 6.07 | 7.59  | 15.32         | 11.25  | 9.90           | 0.78                 | 4.98          | 0             | 62.13                        |
| Phulbani   | ••         | 0       | 1.37   | 4.91         | 0.13  | 1.60 | 12.66 | 13.00         | 15.77  | 8.35           | 0.77                 | 5.86          | 0             | 63.65                        |
| Bolangir   | -          | 0       | 1.09   | 3.51         | 0     | 0    | 9.81  | 13.69         | 13.52  | 7.55           | 1.42                 | 1.26          | 0             | 58·16                        |
| Sundargarh | ••         | 0       | 1.42   | 3.13         | 0     | • •  | 10.36 | 20.21         | 14.69  | 6.85           | ••                   | 1.25          | 0             | €5.65                        |
| Kalahandi  |            | 0       | 1.27   | 2.11         | 0     |      | • •   | 10.32         | 10.85  | 9.46           | 0.24                 | 2.43          | 0             | 54.76                        |
| Mayurbhanj | ••         | 0       | 0.98   | <b>3</b> ·36 | 0.51  | 1.31 | ••    | ••            | • •    | ••             | 3.44                 | 3.26          | 0             | 63.46                        |

73. The following statement shows the annual rainfall of all districts from 1931 to 1950.

Annual Rainfall (in inches) of Districts of Orissa (1931-1950)

|                      |     |                       |               |               | Annua         | l rainfall     | for the       | year                  |                       |                |               |
|----------------------|-----|-----------------------|---------------|---------------|---------------|----------------|---------------|-----------------------|-----------------------|----------------|---------------|
| Name of the district | )   | 1931                  | 1932          | 1933          | 1934          | 1935           | 1936          | 1937                  | 1938                  | 1939           | 1940          |
| Cuttack              |     | 59.01                 | 56.35         | 75.89         | 57.80         | 48.86          | 81.14         | 60.53                 | 51.38                 | 47.81          | 65.01         |
| Balasore             | ••  | 67.09                 | 58.55         | 83.20         | 58.36         | 47.47          | 75·5 <b>5</b> | 63.69                 | 56.54                 | 51.29          | 73.36         |
| Puri                 | ••  | <b>54</b> ·2 <b>3</b> | 58.78         | 65.57         | <b>52·58</b>  | 48.04          | 82.04         | 59.62                 | 60.62                 | 48.51          | 67.43         |
| Sambalpur            | ••  | 60-61                 | 54-29         | 74.64         | 61.84         | 51.48          | 74.48         | 71.01                 | 56.80                 | 75.51          | 62.23         |
| Ganjam               | • • | 49.79                 | 50.99         | <b>72</b> ·00 | 44·70         | 35·5 <b>3</b>  | 61.65         | 47.99                 | 50.32                 | 46.32          | 62.59         |
| Koraput              | ••  | 65.87                 | 53.56         | 66.30         | 64.81         | 48.92          | 73.20         | 57.84                 | 65.70                 | 58.97          | 60.46         |
| Dhenkanal            | ••  | 58-45                 | 58.14         | 73.75         | <b>54·18</b>  | 44.49          | 70.09         | 56.65                 | 47.65                 | 65.16          | 60.66         |
| Keonjhar             |     | 66:07                 | $63 \cdot 21$ | 63.54         | <b>59·05</b>  | 49.82          | 66.06         | 71.51                 | 58.40                 | $62 \cdot 93$  | 81.46         |
| Phulbani             | ••  | 51.21                 | 61.96         | 91.98         | 65·5 <b>3</b> | 53.64          | 88.68         | 69.31                 | 53.89                 | 80.46          | 69-90         |
| Bolangir             | ••  | 50-57                 | 66.72         | 80.92         | <b>57</b> ·29 | 39.34          | 74.18         | 64.16                 | 45.57                 | 69.68          | 65.08         |
| Sundargarh           | ••  | 61.08                 | 51.77         | 63.99         | <b>74</b> ·20 | 56.46          | 82·3 <b>9</b> | 67.50                 | <b>57·04</b>          | $72 \cdot 26$  | 60.80         |
| Kalahandi            | • • | 38.34                 | <b>59·05</b>  | 67.92         | 59.39         | 42.77          | 71.35         | 63.76                 | <b>57</b> ·69         | 58· <b>4</b> 1 | 58.70         |
| Mayurbhanj           | ••  | 64.62                 | 60.92         | 78.63         | 51.90         | 56· <b>9</b> 2 | 65.93         | 70.45                 | 52.18                 | 74.58          | 83.97         |
|                      |     |                       |               |               | Annue         | al rainfal     | l for the     | year                  |                       |                |               |
| Name of the district | •   | 1941                  | 1942          | 1943          | 1944          | 1945           | 1946          | 1947                  | 1948                  | 1949           | 1950          |
| Cuttack              | • • | 60.39                 | 53.92         | 57·21         | 67-97         | 51-13          | 66.39         | 64.73                 | 58.64                 | 46.21          | 66.62         |
| Balasore             |     | 70.32                 | 54.33         | 60.28         | 59.62         | 63.35          | 77.28         | 51.03                 | 56.66                 | 61.91          | 59.58         |
| Puri                 | ••  | 49.23                 | 49.50         | 68-41         | 70-69         | <b>57·04</b>   | 67.31         | 56.42                 | <b>57</b> ·6 <b>3</b> | 52.04          | 59.88         |
| Sambalpur            | ••  | 64-81                 | 57.25         | 76.88         | 67.71         | 60.86          | 67.79         | 52.61                 | 48.91                 | 62.88          | 57.24         |
| Ganjam               | • • | 44.12                 | 41.74         |               | 58.46         | 47.91          | <b>54·32</b>  | <b>5</b> 1·5 <b>3</b> | <b>45·45</b>          | <b>50.62</b>   | 45.26         |
| Koraput .            | ••  | 51.79                 | 47.57         | 57.51         | 63.59         | 39.07          | 72.17         | 63.28                 | 55.15                 | 101-24         | 50.34         |
| Dhenkanal            | ••  | 54.66                 | 49.07         | 65.65         | 68.51         | 51.09          | 64.93         | 47.96                 | 50.34                 | • •            | 45.96         |
| Keonjhar             | • • | <b>72</b> ·91         | 58-33         | 63-97         | $62 \cdot 17$ | 61.90          | 77:18         | <b>57</b> ·0 <b>3</b> | 57.51                 |                | <b>59</b> ·75 |
| Phulbani             | ••  | 59· <b>93</b>         | 56.13         | 77.50         | <b>74</b> ·75 | 64.57          | 57.68         | 63.66                 | 41.53                 | 59.72          | 64.42         |
| Bolangir             | ••  | 46.37                 | 58.92         | 61-61         | 60.34         | 52.77          | 45.40         | 48.18                 | 52.07                 | 52.92          | 51.85         |
| Sundargarh           | ••  | 70-37                 | 63·3 <b>4</b> | 83.59         | <b>59</b> ·89 | 62.01          | 74.91         | 49.38                 | 63.97                 | • •            | ••            |
| Kalahandi            | • • | 38-49                 | 49-40         | <b>70</b> ·51 | 68.82         | 59·1 <b>1</b>  | 48-93         | 58·8 <b>3</b>         | •• '                  |                | • •           |
| Mayurbhan            | j   | 74.75                 | 70.33         | 83.22         | 69-29         | 64.62          | 81.40         | 56.62                 | 69·10                 | <b>52·83</b>   | ••            |

## VIII. Forests

## AREA

- 74. Orissa has extensive and rich forests. The total area under forests is approximately 23,000 square miles, comprising—
  - (i) Demarcated forests 10,256 square miles out of which 8,524 square miles are reserved and the rest protected forests.
  - (ii) Undemarcated forests 6,534 square miles containing protected forests and Khasra forests.
  - (iii) Privately owned forests exceeding 6,000 square miles, which may completely come under the Government after abolition of Zamindaries.

75. The demarcated and undemarcated forests, with a total area of 16,790 square miles as mentioned above, are under the direct control of the State Forest Department. Besides, a small extent of privately owned forests has also been taken under departmental control with a view to put an end to the indiscriminate and excessive exploitation of such forests for personal ends.

## CLASSIFICATION

76. The control and management of the forests hitherto do not appear to be the result of a vigorous constructive policy. Forests have been classified under the Forest Act on the basis of the degree of departmental control exercisable over them. Such a classification does not help to focus attention on the object of management from the point of view of national well-being. As early as 1894\* the Government of India enunciated the general policy of

management of forests by recommending classification of forests on functional basis, which 34 years later was reiterated by the Royal Commission on Agriculture in India. It appears that the policy enunciated was not put into execution till 1952, when the needs of reconstruction schemes and development of industries and communications heavily demanding all categories of forest produce led to the re-orientation of the forest policy afresh.† Accordingly, forests are to be classified on functional basis as follows:—

- (i) Protection forests, i.e., those forests which might be preserved or created for physical and climatic considerations;
- (ii) National forests, i.e., those which have to be maintained and managed to meet the needs of defence, communications, industry and other general purposes of public importance;
- (iii) Village forests, i.e., those which have to be maintained to provide firewood to release cowdung for manure, and to yield small timber for agricultural implements and other forest produce for local requirements and to provide grazing for cattle;
  - (iv) Tree-lands, i.e., those areas which though outside the scope of the ordinary forest management are essential for the amelioration of the physical conditions of the country.
- 77. The functional classification, rather than the classification based on the degree of departmental control, will

<sup>\*</sup>Resolution No. 22-F., dated the 19th October 1894 of the Government of India in the Department of Revenue and Agriculture.

Resolution No. 13-1/52-F., dated the 12th May 1952 of the Ministry of Food and Agriculture, Government of India.

help to indicate if the utility of a particular forest is of local, commercial or national significance. The area of Orissa's forests classified on functional basis is not available and so the study of the part which the forests will play in the economy of the State will be restricted. There can hardly be any doubt, however, that the forests of Orissa, if properly developed, will be a source of wealth and strength for the country.

# DISTRICTWISE DISTRIBUTION

78. The distribution of the demarcated and undemarcated forests in different districts is shown below:—

| State and d        |            | Total area of<br>demarcated,<br>undemarcated<br>forests | Demarcated forests | Undemar-<br>cated<br>forests |
|--------------------|------------|---|--------------------|------------------------------|
| ORIS               | 3A         | 16,790  | 10,256             | 6,534                        |
| Orissa<br>Division | Inland     | 14,364  | 8,499              | 5,865                        |
|                    | Coastal    | 2,426   | 1,757              | 669                          |
| Cuttack            |            | 252   | 200                | 52                           |
| Balason            | re         | 375   | 75                 | 300                          |
| Puri               | ••         | 1,076   | 759                | 317                          |
| Sambal             | bur        | 1,990   | 1.530              | 460                          |
| Ganjan             |            | 870   | 870                |                              |
| Agen               |            | 147   | 147                | • • •                        |
| Plair              |            | 723   | 723                | ••                           |
| Korapu             | t          |   |                    |                              |
| Dhenka             |            | 2,029   | 1.288              | 741                          |
| Keonjh             |            | 1,500   | 700                | 800                          |
| Phulba             |            | 1.316   | 1.016              | 300                          |
| * H4108            |            | 1,510   | 1,010              | 300                          |
| Bolangi            | i <b>r</b> | 732   | 463                | 269                          |
| Sundar             | zarh       | 2.423   | 1.513              | 910                          |
| Kalaha             | ndi .      | 1,991   | 691                | 1,300                        |
| Mayurb             |            | 2,236   | 1,151              | 1.085                        |
|                    |            | _,,   | 2,101              | 1,000                        |

79. In addition to the demarcated and undemarcated forests, the Anual Administration Report of the Forest Department for 1949-50 approximately shows the area of privately owned forests as 6,000 square miles as follows:—

| Kalahandi  |    | 400 square miles   |
|------------|----|--------------------|
| Sundargarh | •• | 500 square miles   |
| Cuttack    | •• | 250 square miles   |
| Ganjam     | •• | 750 square miles   |
| Korsput    | •• | 4,100 square miles |

## EXTENT

80. The Director of Forests, Orissa agrees that the figures shown above may be much less than the correct extent of Zamindary forests. In fact, the above total of 6,000 square miles does not include any Zamindary forests in many districts, namely, Sambalpur, Puri, Balasore, etc., although these districts are known to have some extent of Zamindary forests. It is also likely that the area of Zamindary forests in the districts named in the Annual Administration Report may be less than the correct figure. Under the circumstances, it may be reasonable to hold that the total extent of Zamindary forests exceeds 6,000 square miles. Accordingly, Orissa may be shown to possess 23,000 square miles of forest area in round figure, of which an extent of 16,790 square miles constitute Government Controlled forests and the rest privately owned forests. These private forests will be soon forming part of the State forests when abolition of Zamindari is achieved. As the State has an area of 60,136 square miles, the extent of forests works out to 38.2 per cent of the area of the State. According to the present National Forest Policy, India aims to maintain one-third of its total land area under forests. Orissa has thus more than this proportion. Correct information regarding the extent of forests in other States is not available. but it is likely that Assam and Madhya Pradesh of all States in India may have a larger proportion of forest areas than Orissa while other States have a lower percentage.

# INCOME AND FOREST PRODUCE

81. The gross income from forest revenue exceeded Rs. 86 lakhs in the year 1949-50. When the undemarcated forests are demarcated, and the privately owned forests are brought under control, the revenue will improve considerably.

FORESTS 23

82. Among the forest produce, the most important items are timber and fuel which yielded an income of about Rs. 41 lakhs and Rs. 13 lakhs respectively in the year 1949-50. Bamboo is under extensive exploitation in Angul, Athmalik, Hindol, Daspalla, Narsingpur, Sambalpur, Rairakhol and Bamra for manufacture of paper pulp. Short

term leases of three years are given in respect of minor forest products, such as, Sabaigrass, Mohua flower, lac, cane, catechu, honey, charcoal, hide, tamarind and broom grass. Kendu leaves are generally leased out for a term of five years, yielding more than 14 lakhs as revenue per year.

#### APPENDIX I

No. 3482-P.H.

FROM

LT.-Col. P. PAPATLA, B.A., M.B., B.S. (Madras), F.B.C.S. (Edin.), D.O.M.S., D.L.O., D.P.H. (Lond.), DIRECTOR OF HEALTH AND INSPECTOR-GENERAL OF PRISONS, ORISSA.

To

THE SUPERINTENDENT OF CENSUS OPERATIONS, ORISSA, CUTTACK.

Dated Bhubaneswar, the 29th May 1952

Subject—Collection and Registration of Vital Statistics

SIR.

In continuation of this office letter No. 244-P.H., dated the 10th January 1952 on the subject indicated above, I forward herewith a note giving details of the system of collection and registration of vital occurrences in the State of Orissa as discussed in my office on the 12th May 1952.

Yours faithfully

P. PAPATLA

Director of Health and Inspector-General of Prisons, Orissa

#### Collection and Registration of Vital Statistics in the State of Orissa

Vital occurrences are collected according to the Madras and Bengal Births and Deaths Registration Acts in South and North Orissa districts respectively.

South Orissa—The Madras Births and Deaths Registration Act (Act III of 1899) is extended to the rural and urban areas of the districts of Ganjam and Koraput, vide Government of Madras Orders No. 912-P.H., dated the 29th June 1922 and No. 2448-P.H., dated the 1st December 1925 respectively.

It is compulsory in municipal towns of Berhampur, Parlakimedi, Panchayat Boards and villages having a population of 2,000 and over in Ganjam Plains.

It is extended to the entire Ganjam Plains, 3,634 villages in Ganjam Agency and Union Board areas of Jeypore, Koraput, Nawrangpur, Gunupur, Rayaghada, Kotpad and Gudari in the district of Koraput.

In municipal areas, the figures are collected by the municipal staff and a monthly statement of vital statistics is submitted to the office of the Director of Health and Inspector-General of Prisons by the Chairman.

A-regards the rural areas, the figures are collected by village Headmen and a monthly return is sent to the Taluk Officers every month. The Taluk Officers submit them to the office of the Director of Health and Inspector-General of Prisons where they are consolidated into taluk and district figures.

In the Union Board areas of Koraput district vital occurrences are collected by the staff of the Board and a monthly return is submitted to the Health Directorate by the President of the Board.

North Orissa—The Bengal Births and Deaths Registration Act (Act IV of 1873) is extended to North Orissa Districts (ex-Bihar and Orissa and ex-C. P. area).

It is compulsory in 6 municipalities of Cuttack, Kendrapara and Jajpur in Cuttack district; Balasore, Puri and Sambalpur. It is extended to the rural areas of the districts of Cuttack, Balasore, Puri, Sambalpur including Nawapara subdivision now transferred to Kalahandi district, Angul and Khondmals subdivisions now merged in Dhenkanal and Phulbani districts respectively.

According to rule 127 of the Orissa Police Manual, Vol. I, collection of vital occurrences in municipalities has been transferred from Police Department to the municipal authorities who collect the figures by their staff and furnish a monthly statement to the Civil Surgeon concerned for inclusion of the same in the monthly district figures compiled in his office.

APPENDIX I 453

According to rule 126 of the Orissa Police Manual, Vol. I, the vital statistics of rural areas are collected by the village chawkidars and reported to the Thana Officers concerned who, after registering the same furnish a consolidated monthly report to the office of the Civil Surgeons for compilation of district return.

The work of compiling district vital statistical figures has since been transferred to the District Health Officer from the Civil Surgeon. Monthly returns received from the village Headmen through Taluk Officers; Chairmen, Municipalities; and Presidents of Union Boards in respect of South Orisma districts are consolidated in district figures in the Health Directorate.

The district figures received from the offices of the Civil Surgeons in respect of old North Orissa districts are consolidated into Provincial figures in the office of the Director of Health and Inspector-General of Prisons, Orissa.

The provincial area of the State is divided into 9 rural and 14 urban units for the purpose of reporting of vital statistics as detailed below:—

#### Rural Unit ( District )

#### Urban Unit (Town)

| <ol> <li>Cuttack</li> <li>Balasore</li> <li>Puri</li> <li>Sambalpur</li> <li>Angul</li> </ol> | 6. Khondmals 7. Ganjam Plains 8. Ganjam Agency 9. Koraput | 1. Cuttack 2. Kendrapara 3. Jajpur 4. Bhadrak 5. Puri 6. Khurda | 8. Bargarh 9. Angul 10. Phulbani 11. Balasore 12. Berhampur 13. Parlakimedi |
|---|---|---|---|
|   |   | 7. Sambalpur  | 14. Jeypore   |

An advance manuscript copy of the monthly vital statistical return compiled in the Health Directorate is sent to the Director-General of Health Services, India, New Delhi as first hand information and another copy to Government Press for publication in the State Gazette. Printed copies are also supplied to the Director-General of Health Services, New Delhi, Secretary to Government of Orissa, Health Department, Senior Statistician of the Cabinet Department of Government.

Annual statistical datas required for the Public Health Report of the State are collected from the registers of vital statistics maintained in the Directorate. 21,894 square miles having a population of 7,588,473 according to the Census, 1941, are brought under registration.

The population of non-registered area is not taken for the purpose of the report. The figures are also not available.

Although the above system of collecting vital statistics is in vogue in most of the States of the Indian Union, it is very defective with regard to correct classification of causes of deaths as the Chawkidars and village Headmen are mostly uneducated and entirely depend on the reports of the villagers. In the circumstances the classification of deaths based on such diagnosis is not all accurate. Sometimes omissions occur and as the collecting agencies don't feel for its importance, they don't take pains to account for such omissions.

Ceded areas—Prior to the integration there was no arrangement for collection of vital statistics in ceded areas. Pending introduction of the registration of births and deaths according to the Bengal Births and Deaths Registration Act, arrangement was made for the collection of weekly figures of attacks and deaths from cholera and smallpox with effect from July 1948—for taking preventive measures. Arrangement has been made for the collection and registration of vital statistics in ceded areas with effect from the 1st January 1952, under the Bengal Births and Deaths Registration Act, 1873. A proposal for bringing uniformity and accuracy in collecting vital occurrences throughout the State of Orissa is under the consideration of the State Government.

Besides this weekly vital occurrences in towns having a population of 30,000 and over and weekly epidemic report in respect of all districts and towns showing attacks and deaths from smallpox and cholera are issued every week from this Directorate.

Infant mortality is limited to one year of age for the purpose of statistical report.

The area of the 7 Union Boards of Koraput district which are under the registration of vital statistics has been taken to be 117 square miles in total area according to the Census of 1941.

If during Census Operations of 1951, it is revealed that the area of these Union Boards including Machkund has been 20 square miles the actual area of the Union Boards brougut under the registration of vital statistics may be corrected accordingly and an intimation to the effect is given to this office.

#### APPENDIX II

SHEI D. MISBA. B.Ag. (Nag), DIR-IN-AGRI. (Cantab.), DIRECTOR OF AGRICULTURE AND FOOD PRODUCTION, ORISSA.

OFFICE OF THE DIRECTOR OF AGRICULTURE AND FOOD PRODUCTION, ORISSA

D. O. No. 6460/Agri.-98-118-52.

Dated Cuttack, the 13th May 1952

DEAR MR. AHMED,

Will you kindly refer to your D. O. No. 752-Cen., dated the 8th May 1952. The figures so far available in this office have been furnished in the prescribed tables along with the explanatory notes.

Yours Sincerely

D. MISRA

To

M. AHMED, Esqu.

Superintendent, Census Operations, Orissa.

#### **EXPLANATORY NOTE**

Table No. IV (7)—Figures for average net area as per column A(1), A(2), A(3) and A(4) for different decades in all the districts of present Orissa have been adopted from the following sources:—

## For Cuttack, Balasore, Puri and Sambalpur districts

For decades 1921 and 1931 have been taken from the Season and Crop Report, Bihar and Orissa. For decades 1941 and 1951—from the Season and Crop Report of Orissa.

#### Ganjam Agency and Plains

For decades 1921 and 1931—Figures have been taken from Statistical Atlas of Madras.

For decades 1941 and 1951—Separate figures for Agency and Plains are not available. So only one figure for the entire district has been furnished from Season and Crop Report of Orissa.

#### Orissa States

Figures for 1941 have been taken from the report of Agricultural Statistics of Eastern States Agency compiled by Agricultural Adviser, Eastern States Agency. The same figures are adopted for the decades 1921 and 1931 as there was no other source for which figures of the above decades could be compiled.

For 1951 decade the figures have been taken from the report of District Officers and compiled by the Statistics Section of Agricultural Department. As regards Mayurbhanj state the figures for 1931, have been collected from the Directory of villages compiled by Census Officer of the said state. Figures for 1921 and 1941 are not available from any authentic source.

Table No. IV (8)—This table will be compiled by the Census Department utilising the figures of IV(7).

Table No. IV (9)—Figures from 2 to 7 will be compiled by the Census Department. Yield figures are not available for state districts. The average yield figure of the Eastern States as a whole have been furnished. Dependable data regarding the size of holdings are not available except in the case of Ganjam district where the average holding recorded 3.77 acres.

# Production Capacity 4.9

|      | Outta | ok I | Balasore    | Puri | Sambalpur | Ganjam | Koraput | Mayurbhanj | Dhenkanal | Keonjhar | Kalahandi | Eastern States   |
|------|-------|------|-------------|------|-----------|--------|---------|------------|-----------|----------|-----------|------------------|
| 1921 | _     | Md   | s. 11·5<br> | 10.3 | 8.5       | ••     | ••      | ••         | -         | ••       | ••        | ••               |
| 1931 | 7.1   | Do.  | 8-4         | 12.9 | 8·1       | ••     | •• .    | ••         | ••        | ••       | ••        | 681 lb <b>s.</b> |
| 1941 | 6.8   |      | 7·1         | 6.3  | 7-4       | 5.6    | 7.8     | ••         | ••        | ••       | 9-5       | 443 lbs.         |
| 1951 | 6.0   |      | 6.6         | 5.6  | 5.9       | 4.4    | 7.5     | 6.9        | 7·3       | ••       | 10-5      | -                |

| Name                  |         | Ave               | rage net area so | own (Al) in sore | 95         | Average area s  | own more | than once (A2) in | A &CTOS   |
|-----------------------|---------|-------------------|------------------|------------------|------------|-----------------|----------|-------------------|-----------|
|                       |         | 1951              | 1941             | 1931             | 1921       | 1951            | 1941     | 1931              | 1921      |
| (1)                   |         | (2)               | (3)              | (4)              | (5)        | (6)             | (7)      | (8)               | (9)       |
| ORISSA                |         | 12,126,542        | 11,805,190       | 12,366,909       | 12,974,005 | 1,065,259       | 679,473  | 613,433           | 716,378   |
| 3.23 Orissa Inland Di | vlsion  | 8,213,20 <b>2</b> | 7,958,462        | 8,307,755        | 8,372,004  | 194,369         | 129,444  | 120,311           | 193,838 } |
| 5.11 Orissa Coastal D | i▼ision | 3,913,340         | 3,846,728        | 4,059,154        | 4,602,001  | <b>8</b> 70,890 | 550,029  | 493,122           | 522,540 ) |
| Cuttack               | ••      | 1,115,858         | 1,268,321        | 1,223,600        | 1,388,430  | 550,872         | 195,830  | 182,244           | 230,041   |
| Balasore              | • •     | 1,019,834         | 970,321          | 993,189          | 1,031,189  | 9,199           | 2,332    | 10,100            | 9,500     |
| Puri                  | • •     | 1,063,534         | 817,003          | 854,398          | 1,101,798  | 167,681         | 218,330  | 179,792           | 119,592   |
| Sambalpur             |         | 1,365,240         | 1.240,461        | 1,191,266        | 1,173,566  | 76.098          | 29,570   | 15,816            | 82,601    |
| Ganjam                |         | 770,865           | 839,435          | 1,068,437        | 1,169,154  | 178,923         | 136,971  | 120,986           | 163,407   |
| Ganjam Agency         | • •     | 56,751            | 48.352           | 80,470           | 88,570     | 35,785          | 3,434    | ••                | • •       |
| Ganjam Plaine         |         | 714,114           | 791,083          | 987,967          | 1,080,584  | 143,138         | 133,537  | 120,986           | 163,407   |
| Koraput               |         | 1,419,370         | 1,416,261        | 1,460,501        | 1,511,549  | 2,694           | 2,694    | 10,222            | 17,749    |
| Keonjha <b>r</b>      |         | 592,768           | 508,625          | 508,625          | 508,625    | 7,000           | 11,720   | 11 720            | 11,720    |
| Dhenkanal             |         | 702.371           | 764,430          | 764,430          | 792,230    | 14,496          | 34,300   | 34,300            | 34,100    |
| Bolangir              | • •     | 1,171,056         | 1,209,111        | 1,209,111        | 1,209,111  | 38,378          | 38,378   | 38,378            | 38,378    |
| Sundargarh            |         | 751,669           | 734,849          | 734,849          | 734,849    | 11,717          |          | ••                | • •       |
| Phulbani              |         | 481,425           | 363,821          | 452,110          | 447,111    | 1,136 (Baudh)   | 9,348    | 9,875             | 9,290     |
| Kalahandi             |         | 874,712           | 874,712          | 874,712          | 874,712    | Not available   |          | • •               | ••        |
| Mayurbhanj            |         | 797,840           |                  | 1,031,681        |            | 7,065           | Not      | <b>a</b> vailable | ••        |

| 37                      | •       |                   |              |                   |           | A               | minuted mass 41  |            | 4) <del>(</del>   |
|-------------------------|---------|-------------------|--------------|-------------------|-----------|-----------------|------------------|------------|-------------------|
| Name                    | _       | Average           | net area irr | igated (A3) in ac | res       | Average area ii | rrigated more th | an once (A | 4) in acres       |
|                         | •       | 1951              | 1941         | 1931              | 1921      | 1951            | 1941             | 1931       | 1921              |
| (1)                     |         | (10)              | (11)         | (12)              | (13)      | (14)            | (15)             | (16)       | (17)              |
| CORISSA                 |         | 1,889,320         | 1,553,337    | 1,607,922         | 2,405,640 | 7,131           | 115,238          | 1,343      | 78,280            |
| 3.33 Orissa Inland Div  |         | 981,646           | 674,950      | 663,600           | 1,366,115 | 5,024           |                  | _••        | 552               |
| ( 5.11 Orissa Coastal D | ivision | 907,674           | 878,387      | 944,322           | 1,039,525 | 2,107           | 115,238          | 1,343      | 77,728            |
| Cuttack                 | ••      | 319,244           | 274,627      | 348,805           | 408,000   | 1,640           | 111,603          | • • •      | 74,489            |
| Balasore                |         | 6,084             | 12,882       | 14,450            | 73,635    | _               | 470              | • •        | _                 |
| Puri                    | ••      | 257,993           | 216,903      | 367,074           | 366,884   | •               | ••               | -          | -                 |
| Sambalpur               | • •     | 295,330           | 48,490       | 319,223           | 397,977   | 5,024           | ••               | ••         | •                 |
| Ganjam                  | • •     | 324,353           | 373,975      | 213,993 -         | 191,006   | 467             | 3,165            | 1,343      | 3,239             |
| Ganjum Agency           | • •     | ` <b>::</b>       | • • *        |                   | 191,006   | 467             |                  |            | **                |
| Ganjam Plains           | ••      | 324,353           | 373,975      | • 213,993         | 191,006   | 467             | 3,165            | 1,343      | 3,239             |
| Korapu <sup>*</sup>     | ••      | 473,366           | 471,655      | 236,140           | 1,055     | <b></b>         | -                | -          | 552               |
| Keonjhar                | • •     | Figures           | not          | available         |           | Figures         | not              |            | available         |
| Dhenkanal               | • •     | Figures           | not          | available         | 34,100    | Figures         | not              |            | available         |
| Bolangir                | ••      | Figures           | not          | available         | 781,482   | Figures         | · not            |            | <b>av</b> ailable |
| Sundargarh .            |         | Figures           | not          | available         | 12,950    | Figures         | not              |            | available         |
| Phulbani                | • •     | l 1 <b>6,</b> 595 | 95,630       | 47,632            | 22,001    | • •             | ••               | *.*        | ••                |
| Kalahandi               | • •     | 52,219            | 59,175       |                   | • •       | . ••            | • •              | ••         | ••                |
| <u>Mayurbhanj</u>       | • •     | 44,136            | • •          | 60,605            | • •       | • •             | • •              | • •        | · •               |

APPEN

|                         |  |                   |                   |         |            |                  |             | Dis      | trict In          | dices of     |
|-------------------------|--|-------------------|-------------------|---------|------------|------------------|-------------|----------|-------------------|--------------|
| Group<br>Code<br>Number | Occupation.  |                   | ORISSA            |         | Oriesa I   | 3.33<br>nland Di | vision      | Orices ( | 5-11<br>Coastal D | Division     |
| Иштое                   |  | Persons           | Males             | Females | Persons    | Males            | Females     | Persons  | Males             | Females      |
| (1)                     | (2)  | (8)               | (4)               | (5)     | (6)        | (7)              | (8)         | (9)      | (10)              | (11)         |
|                         | ALL INDUSTRIES AND SERVICES  | 918,249           | 718,458           | 201,791 | 416,458    | 336,147          | 80,311      | 501,791  | 380,311           | 121,480      |
| Divs. 0.                | Primary Industries not elsewhere specified   | 66,803            | 55,640            | 11,163  | 27,014     | 23,231           | 3,783       | 39,789   | 32,409            | 7,380        |
| 0.1                     | Stock Raising  | 29,704            | 23,769            | 5,935   | 13,488     | 11,473           | 2,015       | 16,216   | 12,296            | 3,92         |
| 0.11                    | Herdsmen and shepherds   | 20,720            | 16,298            | 4,422   | 6,908      | 5,905            | 1,003       | 13,812   | 10,393            |              |
| 0-1 <b>2</b><br>0-10    | Breeders and keepers of cattle and buffaloes<br>Breeders and keepers of other large  | 8,983<br>1        | <b>7,4</b> 70     |         | 6,579<br>1 | 5,567<br>1       | 1,012       | 2,404    | 1,903             | 501          |
|                         | animals including transport animals.   |                   | 40.4              | •       |            |                  |             |          |                   |              |
| <i>0∙2</i><br>0∙21      | Rearing of small animals and insects  Poultry farmers  | <i>516</i><br>315 | 424<br>251        |         |            | 805<br>144       | 88<br>60    |          | 119<br>107        |              |
| 0.22                    | Beekeepers   | 105               | 89                |         | -          | 82               | 16          |          | 7                 |              |
| 0.23                    | Silkworm rearers   | 34                | 34                |         | 29         | 29               | •••         | 5        | 5                 |              |
| 0.24                    | Cultivators of lac   | 62                | 80                |         |            | 50               | 12          |          | .::               | • •          |
| <i>0∙3</i><br>0∙31      | Plantation Industries  | <i>944</i><br>193 | <i>794</i><br>158 |         |            | ##0<br>122       | 112         |          | 854               |              |
| 0.80                    | Tes plantation All other plantations but not including the   | 751               | 636               |         |            | 318              | 35<br>77    |          | 36<br>818         |              |
|                         | cultivation of special crops in conjuction<br>with ordinary cultivation of field crops.  |                   | 000               |         |            | 010              | •••         | •        | 010               |              |
| 0.4                     | Forestry and woodcutting   | 11,505            | 7,967             |         |            | 4,296            | 1,179       | 6,030    | 8,671             | 2,359        |
| 0.40                    | Planting, replanting and conservation of forests (including forest officers, rangers, and guards).   | 1,393             | 1,388             | 5 8     | 1,158      | 1,150            | • 8         | 235      | 238               | 5            |
| 0.41                    | Charcoal burners   | 204               | 137               | 67      | 172        | 112              | 60          | 32       | 25                | 5 <b>Y</b>   |
| 0.49                    | Collectors of forest produce and lac   | 2,044             | 1,388             |         |            | 1,137            |             |          |                   |              |
| 0.43                    | Woodcutters  | 7,864             | 5,057             |         |            | 1,897            | 719         | 5,248    | 3,160             |              |
| Q. 5                    | Hunting (including trapping and game propagation).   | 61                |                   |         |            |                  |             |          |                   |              |
| 0.6                     | Fishing  | 24,073            | 22,629            |         |            |                  | <b>3</b> 85 |          |                   | . <u>.</u>   |
| 0.60                    | Fishing in sea and inland waters including<br>the operation of fish farms and fish<br>hatcheries.  | 23,843            | 22,400            | 1,443   | 7,054      | 6,669            | 385         | 16,789   | 15,731            | 1,058        |
| 0.61                    | Gatherers of chanks and pearls   | 1                 |                   |         |            |                  |             |          |                   | ı . <u>.</u> |
| 0.62                    | Gatherers of sea weeds, sea shells, sponges and other water products.  | 229               | 228               | 3 1     | 1 9        | ç                | • • •       | . 220    | 211               | 1            |
| Division                | 1. Mining and quarrying  | 11,216            | 8,803             | 2,413   | 8,726      | 0,395            | 2,331       | 2,490    | 2,40              | 8 81         |
| 1.0                     | Non-metallic mining and quarrying not  |                   | •                 | •       | -          | •                | •           | -        | •                 |              |
| 70                      | otherwise classified—including mining and quarrying of such materials as precious and semi-precious stones, asbestos, gypsum, sulphur, asphalt, bitumen.     |                   |                   |         |            |                  |             |          |                   |              |
| 1.1                     | Coal mining—Mines primarily engaged in<br>the extraction of anthracite and of soft<br>coals such as bitumenous, sub-bitumen-<br>ous a d legnite.             | ;                 | 3,730             |         |            | 3,484            |             |          |                   |              |
| 1.8                     | Iron ore mining  |                   |                   | • • •   | • 404      |                  |             | 1 18     |                   | 5 8          |
| 1.3                     | Metal mining except iron ore mining .  | •                 |                   | 0       |            |                  |             |          |                   | 0            |
| 1·32<br>1·33            |  |                   |                   |         |            | 802              |             |          |                   |              |
| 1.80                    | Other metallic minerals  | 410               | 412               |         | 9          | 9                |             | 403      |                   | 3            |
| 1.8                     | Stone-quarrying, clay and sand pits. Ex-<br>traction from the earth of stone, clay<br>sand and other materials used in<br>building or manufacture of cement. | •                 | 1,015             | 178     | 526        | 389              | 187         | 1,867    | 1,226             | 5 41         |
| 1.7                     | Salt, saltpetre and saline substances  | 436               | 431               | ! 4     | 17         | 16               |             | 419      | 416               | 5 8          |
| Division                | 2. Processing and manufacture—Foodstuffs, textiles, teather and products thereof.  | 130,614           | 87,965            | 42,649  | 70,114     | 53,928           | 10,186      | 60,500   | 34,037            | 28,463       |
| <b>1</b> ·0             | Food Industries otherwise unclassified   | 2,788             | 2,123             | 659     | 1,401      | 1,257            |             |          |                   |              |
| 2.01                    | Canning and preservation of fruits and vegetables.   | 2,100             | 1,489             | 611     | 1,064      | 960              | 104         |          |                   | ٠,           |
| 2.03                    | Slaughter, preparation and preservation of meat.   | 1 444             | 438               |         | 3 190      |                  |             |          |                   | _            |
| 2.00                    | Other food industries  | 238               | 196               | 3 42    | 147        | 107              | 40          | 91       | . 89              | 2            |

DIX III Non-agricultural Occupations

| Maies   Females   Males   Females   Males   Females   Males   Females   Males   Males   Carlos   Num  | Cutte              | ack               | Ве        | alasore | 3            | Puri          | Samb       | alpur           | Gaz                   | njam            | Group                       |
|---|--------------------|-------------------|-----------|---------|--------------|---------------|------------|-----------------|-----------------------|-----------------|-----------------------------|
| 148,301         80,085         37,734         12,602         86,384         18,618         80,416         22,887         113,638         42,293           7,880         2,300         3,315         433         9,316         1,817         8,996         938         11,938         2,008         Div           3,280         1,101         209         136         5,407         1,238         1,536         201         5,145         1,452         0           410         120         102         62         699         3         67          692         310         0           58          14          80          69         31         84         4          0           47          10          80          69         31         84         4                                  . | Males              | Females           | Males     | Females | Males        | Females       | Males      | Females         | Males                 | Females         | Code<br>Number              |
| 7,580   | (12)               | (13)              | (14)      | (15)    | (16)         | (17)          | (18)       | (19)            | (20)                  | (21)            | (1)                         |
| 7,580   |                    | 50,055            | 37,734    | 12,602  | 86,384       | 18,618        | 80,416     | 22,867          | 113,638               | 42,293          |                             |
| \$3,600   |                    | •                 | •         | 433     | 9,916        | 1,817         | 5.996      | 938             | 11,939                | 2,908           | Divn. 0                     |
| \$250 976 107 78 2,708 1,235 1788 201 4,463 1,172 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   |                    | •                 |           |         | 3,407        | 1,238         | -          | 201             |                       | 1,482           | 0.1                         |
|   | <b>3,2</b> 50      | 975               |           |         |              |               |            |                 |                       |                 | 0.11                        |
| 47 10 \$0 59 \$1 20 4 0 55 5 4 0  |                    |                   |           |         |              |               |            |                 |                       |                 | 0·12<br>0·10                |
| 47 10 20 59 31 20 4 0 55 5 4 0  | 52                 | ••                | 14        | ••      | 80           |               |            |                 |                       | 4               | 0.2                         |
| 5   |                    | • •               |           | • •     |              | • •           |            |                 |                       |                 | 0.21                        |
| 74         30         14           1         118         26         280   | · .                |                   |           |         |              |               |            |                 |                       |                 | 0·23<br>0·23                |
| 255 49 80 11 11 11 11 11 11 11 11 11 11 11 11 11  |                    | • •               |           |         |              |               |            |                 |                       |                 | 0.24                        |
| 1,029   | 74                 |                   |           |         |              |               |            |                 |                       |                 | <i>0∙3</i><br>0∙ <b>3</b> 1 |
| 42        8        63        154        112        0         21       4         4       3       2       11         0         816       235       37       28       661       457       370       392       1,732       1,408       0         816       235       37       28       661       457       370       392       1,732       1,408       0         2,765       667       3,028       275       5,700       117       3,177       148       4,573        0         2,762       666       3,027       375       5,484       117       3,177       148       4,573        0           1 </td <td></td> <td>80</td> <td>14</td> <td></td> <td></td> <td>i</td> <td>118</td> <td>26</td> <td></td> <td>7</td> <td>0.80</td>  |                    | 80                | 14        |         |              | i             | 118        | 26              |                       | 7               | 0.80                        |
| 42        8        63        154        112        0         21       4         4       3       2       11         0         816       235       37       28       661       457       370       392       1,732       1,408       0         816       235       37       28       661       457       370       392       1,732       1,408       0         2,765       667       3,028       275       5,700       117       3,177       143       4,573        0         2,762       666       3,027       375       5,484       117       3,177       148       4,573        0           1 </td <td>1.089</td> <td>502</td> <td>50</td> <td>23</td> <td>770</td> <td>461</td> <td>785</td> <td>532</td> <td>1.908</td> <td>1.415</td> <td>6.4</td>  | 1.089              | 502               | 50        | 23      | 770          | 461           | 785        | 532             | 1.908                 | 1.415           | 6.4                         |
| 150   | 42                 |                   |           |         |              |               |            |                 |                       |                 | 0.40                        |
| 816   |                    |                   | • •       |         |              | 3             | 2          | 11              |                       | • •             | 0.41                        |
|   |                    |                   |           |         |              | 487           |            |                 |                       |                 | 0·42<br>0·43                |
| 2,782       666       8,027       275       5,484       117       8,177       148       4,572        0  |                    |                   |           |         |              |               |            |                 |                       |                 | 0.23                        |
| 1        216  |                    |                   |           |         |              |               |            |                 |                       |                 | 0.6                         |
| 3       1 </td <td>2,762</td> <td>000</td> <td>8,027</td> <td>2175</td> <td>0,484</td> <td>117</td> <td>8,177</td> <td>145</td> <td><b>4,</b>07<b>8</b></td> <td>••</td> <td>0.60</td>  | 2,762              | 000               | 8,027     | 2175    | 0,484        | 117           | 8,177      | 145             | <b>4,</b> 07 <b>8</b> | ••              | 0.60                        |
| 1,079       43       13       3       938       1       75       149       390       36       Div         250       13         58        4        11       1       1       1         240       16             60       147       6        1         420        8           2       8         1         10         8   <   | . 9                | ';                |           |         | 216          |               |            |                 |                       |                 | 0·61<br>0·62                |
| 25       13         62        4        11       1       1         240       16  |                    | •                 | ••        | ••      |              | ••            | ••         | •••             | ••                    | ••              | 0 02                        |
| 240     16         60     147     6         8         2     8       1       17      8        2     2       1       403 <td< td=""><td></td><td></td><td>13</td><td>3</td><td></td><td>1.</td><td></td><td>149</td><td></td><td></td><td>Divn, 1</td></td<>  |                    |                   | 13        | 3       |              | 1.            |            | 149             |                       |                 | Divn, 1                     |
| 8   | <b>25</b>          | 13                | ••        | ••      | 5₽           | ••            | 4          | ••              | 11                    | 1               | 1.0                         |
| 420      8        2     8   | 240                | 16                | ••        | ••      | . ••         |               | 60         | 147             | G                     | ••              | 1.1                         |
| 420      8        2     8   |                    |                   |           |         |              | *             |            |                 |                       |                 |                             |
| 17 <td>••</td> <td>8</td> <td>••</td> <td>••</td> <td>••</td> <td></td> <td>••</td> <td>••</td> <td>б</td> <td>• •</td> <td>1.2</td>  | ••                 | 8                 | ••        | ••      | ••           |               | ••         | ••              | б                     | • •             | 1.2                         |
| 17  |                    |                   | 8         |         |              | • •           |            |                 |                       |                 | 1.3                         |
| 403 <td>iż</td> <td></td> <td></td> <td></td> <td></td> <td>•••</td> <td>2</td> <td>2</td> <td></td> <td></td> <td>1·32<br/>1·38</td>   | iż                 |                   |           |         |              | •••           | 2          | 2               |                       |                 | 1·32<br>1·38                |
| 1 862 1 157 2 1 16,156 11,737 3,809 4,922 6,202 5,965 18,290 6,628 8,103 3,930 D 881 487 195 9 114 6 248 50 180 14  | 403                |                   |           | •:      | • •          | • •           | • •        | • •             |                       |                 | 1.30                        |
| 18,156 11,737 3,809 4,922 8,202 5,965 18,290 6,628 8,103 3,930 D  | 394                | 6                 | 4         | 3       | 024          | • •           |            | ••              | 210                   | 88              | 1.5                         |
| 381 487 195 9 114 6 248 50 180 14   | ••                 | ••                | 1         | ••      | <b>\$</b> 62 | 1             |            | ••              | 157                   | 2               | 1.7                         |
| \$81 487 195 9 114 6 248 50 180 14 193 481 96 7 85 5 225 50 159 14 5  | 16,156             | 11,737            | 3,809     | 4,922   | 6,202        | 5,965         | 18,290     | 6,628           | 8,103                 | 3,930           | Divn. 2                     |
|   | <i>\$81</i><br>193 | <i>487</i><br>481 | 195<br>96 | 9<br>7  | 114<br>85    | <b>5</b><br>5 | 243<br>225 | <i>50</i><br>50 | 180<br>159            | <i>14</i><br>14 | <b>£</b> ∙0<br>2·01         |
| 178 6 20 29 18 21 2   |                    |                   |           |         |              | ••            |            |                 |                       |                 | 2.03                        |
| eren  |                    | • •               | 79        |         | ••           |               |            |                 |                       |                 | 2.00                        |

# District Indices e'

|                     | <ul><li>事業が支むした。</li></ul>   |            | •          |                               | District Indices e                      |   |   |                   |            |  |  |
|---------------------|--|------------|------------|-------------------------------|---|---|---|-------------------|------------|--|--|
| Group               |  | Age        | ency       | P                             | lains                                   | Korapi                                  | ıt                                      | Dhenl             | kaca'      |  |  |
| Code<br>Number      | Occupation •   | Males      | Females    | Males                         | Females                                 | Males                                   | Females                                 | Males             | Pecani     |  |  |
| (1)                 | (2)  | (22)       | (23)       | (24)                          | (25)                                    | (26)                                    | (27)                                    | (28)              | ( 23       |  |  |
|                     | ALL INDUSTRIES AND SERVICES  | 6,746      | 2,088      | 106,892                       | 40,205                                  | <b>5</b> 3,385                          | 8,422                                   | 35,804            | 0,300      |  |  |
|                     | Primary Industries not elsewhere specified   | 341        | 78         | 11,598                        | 2,830                                   | 2,925                                   | 480                                     | 4,430             | 274        |  |  |
| 0.1                 | Stock Raising  | 125        | 36         | 5,020                         | 1, <b>44</b> 6                          | 2,277                                   | 360                                     | 2,655             |            |  |  |
| 0·11<br>0·12        | Herdsmen and shepherds Breeders and keepers of cattle and buffaloes  | 125        | 36         | <b>4,32</b> 8<br><b>692</b>   | 1,136<br>310                            | 185<br><b>2,</b> 092                    | 30<br>330                               | 1,286<br>1,369    | #1<br>-    |  |  |
|                     | Breeders and keepers of other large<br>animals including transport animals.  | ••         | • •        | ••                            | •••                                     | 2,002                                   | •••                                     |                   | •          |  |  |
| 0.2                 | Rearing of small animals and insects   | 1          | • •        | 23                            | 4                                       | 24                                      | 17                                      | 47                | •          |  |  |
| 0.21                | Poultry farmers  | •:         | • •        | 20                            | 4                                       | 24                                      | 17                                      | ::                |            |  |  |
| 0.22                | Beekeepers   | 1          | ••         | 8                             | • •                                     | • •                                     | • •                                     | 41                | •          |  |  |
| 0·23<br>0·24        | Silkworm rearers   | ••         | • •        | • •                           | • | ••                                      | • •                                     |                   |            |  |  |
| 0.3                 | Plantation Industries  | 14         | ••         | 266                           |   |   | • | 84                |            |  |  |
| 0.31                | Tea plantation   | 11         | ••         | 11                            |   | ••                                      | ••                                      | 1                 |            |  |  |
| 0.30                | All other plantations but not including the cultivation of special crops in conjuction with ordinary cultivation of field crops.   | 8          | ••         | 255                           | 7                                       | 2                                       | ••                                      | 33                | •          |  |  |
| 0.4                 | Forestry and woodcutting   | 86         | 42         | 1.822                         | 1,373                                   | 485                                     | 103                                     | 730               | <b>#</b> 7 |  |  |
|                     | Planting, replanting and conservation<br>of forests (including forest officers,<br>rangers, and guards).   | ••         | ••         | 112                           | •••                                     | 87                                      | ••                                      | 201               |            |  |  |
| 0.41                | Charcoal burners   |            | • <u>•</u> | ::                            | • •                                     | ::                                      | ::                                      | 89                |            |  |  |
| 0.42                | Collectors of forest produce and lac   |            | 7          | 1 0 4 0                       | 1 970                                   | 39                                      | 47                                      | <b>854</b><br>136 |            |  |  |
| 0. <b>43</b><br>0.5 | Woodcutters  | 86         | 35<br>· ·  | 1,646<br><i>9</i>             | 1,873                                   | 859                                     | 56                                      | 8                 | •          |  |  |
| <i>0.6</i><br>0.60  | Fishing<br>Fishing in sea and inland waters including<br>the operation of fish farms and fish<br>hatcheries.   | 115<br>115 | ••         | <b>4,4</b> 58<br><b>4,458</b> | ••                                      | 137<br>137                              | ••                                      | 956<br>956        |            |  |  |
| 0.61                |  |            | • •        |                               |   |   |   |                   |            |  |  |
|                     | Gatherers of sea weeds, sea shells, sponges and other water products.  | ••         | ••         | • •                           | • •                                     | ••                                      | ••                                      | ••                |            |  |  |
| Division            | 1. Mining and quarrying  | 12         | 1          | 378                           | 35                                      | 2                                       |   | 3,334             | 644        |  |  |
| 1·0 N               | Ton-metallic mining and quarrying not otherwise classified—including mining and quarrying of such meterials as precious and semi-precious stones, asbestos, gypsum, sulphur, asphalt, bitumen. | 1          | ••         | 10                            | . 1                                     | •••                                     |   | . ••              |            |  |  |
| 1.1                 | Coal mining—Mines primarily engaged in<br>the extraction of anthracite and of soft<br>coals such as bitumenous, sub-bitumen-<br>ous legnite.   | ••         | ••         | 6                             | ••                                      | ••                                      | ••                                      | 8,814             | 44         |  |  |
| 1.2                 | Iron ore mining  | 1          | • •        | 5                             | • •                                     | • •                                     | • •                                     | •:                |            |  |  |
| 1.3                 | Metal mining except iron ore mining  | • •        | ••         | • •                           | • •                                     | ••                                      | ••                                      | 8                 |            |  |  |
| 1·32<br>1·33        | Lead, silver and zinc  | ••         | • •        | ••                            | ••                                      | • •                                     | ••                                      | 4                 |            |  |  |
|                     | Other metallic minerals  | ••         | ••         | ••                            | ••                                      | • | •••                                     | 4                 |            |  |  |
| 1.5                 | Stone-quarrying, clay and sand pits. Extraction from the earth of stone, clay, sand and other materials used in building or manufacture of cement.   | 6          | 1          | 204                           | 32                                      | ••                                      | ••                                      | 12                | :          |  |  |
| 1.7                 | Salt, saltpetre and saline substances  | 4          | ••         | 153                           | <b>2</b> ·                              | 2                                       | ••                                      | • •               |            |  |  |
|                     | <ol> <li>Processing and manufacture—Foodstuffs,<br/>textiles, leather and products thereof.</li> </ol>   | 233        | 91         | 7,870                         | 3,839                                   | 3,061                                   | 793                                     | 3,814             | 1,441      |  |  |
| 2.0                 | Food Industries otherwise unclassified   | 4          | • •        | 176                           | 14                                      | 471                                     | <i>19</i>                               | 17<br>2           |            |  |  |
| 2.01                | vegetables.  | 4          | ••         | 155<br>21                     | 14                                      | 447<br>24                               | 19                                      |                   | •          |  |  |
| 2.03                | Slaughter, preparation and preservation of meat.   | ••         | ••         |                               | • •                                     |   | ••                                      | <br>15            | •          |  |  |
| 2.00                | Other food industries  | ••         | ••         | ••                            | ••                                      | ••                                      | ••                                      | 13                | 3          |  |  |

DIX III

Non-agricultural Occupations

| Keor        | njhar   | Phu                        | lbani                                 | Bola                                    | angir           | Sund       | largarh         | Ka         | lahandi                                 | Mayur     | bhanj   | Group   |
|-------------|---------|----------------------------|---------------------------------------|---|-----------------|------------|-----------------|------------|---|-----------|---------|---|
| Males       | Females | Males                      | Females                               | Males                                   | Females         | Males      | Females         | Males      | Females                                 | Males     | Females | Code<br>Number  |
| (80)        | (31)    | (32)                       | (33)                                  | (34)                                    | (35)            | (36)       | (87)            | (38)       | (39)                                    | (40)      | (41)    | (1)   |
| 10,155      | 3,515   | 24,547                     | 5,728                                 | 38,689                                  | 9,946           | 19,630     | 4,237           | 30,242     | 9,166                                   | 30,533    | 9,977   | •   |
| 1,208       | 397     | 2,824                      | 740                                   | 2,103                                   | 190             | 1,106      | 130             | 1,098      | 313                                     | 1,200     | 243     | Djvn. 0   |
| 742         | 367     | 2,086                      | 629                                   | 358                                     | 52              | 477        | 41              |            |   | 351       |         | 0.1   |
| 742         | 367     | 1,495<br><b>5</b> 91       | 521<br>108                            | 180<br>178                              | 8<br><b>4</b> 9 | 470<br>7   | 41              | 104<br>442 |   | 272<br>79 |         |   |
| •••         | • • •   |                            | •••                                   | • | ••              | •          | • •             | ••         |   |           |         | 0·10  |
| 15          | • •     | 21                         | 11                                    | 31                                      |                 | 11         | 1               | 51         | 22                                      | 45        |         | $\theta \cdot 2$  |
| í           |         | 21                         | 11                                    | 23                                      | •••             | 10         | ī               | 4          | ·                                       | 2         |         | 0.21  |
| · .<br>5    | ••      | ••                         | • •                                   | 5<br>3                                  | ••              | ·i         | • •             | 24         |   | 11<br>20  |         | $\begin{array}{c} {\bf 0.22} \\ {\bf 0.23} \end{array}$ |
| ğ           | • •     | • •                        | ••                                    |   | • •             |            | • ••            | 23         | 12                                      | 12        |         | 0.24  |
| 3           | 13      | 17                         | . 2                                   | 175                                     | 85              | 23         | 2               |            |   | 1         |         |   |
| 8           | 13      | 17                         | · · · · · · · · · · · · · · · · · · · | 53<br>122                               | 1<br>34         | 23         | 2               | 53         |   | 1         |         | 0·31<br>0·30  |
| •,•         | • •     |                            | _                                     |   |                 |            |                 |            |   |           |         |   |
| 301         | 17      | 112                        | 98                                    | 502                                     | 38              | 319        | 47              | 278        | 3 94                                    | 703       | 155     | 0.4   |
| 93          | • •     | 32                         |                                       | 102                                     | ••              | 20         | •               | 117        | 7 8                                     | 344       |         |   |
|             |         |                            |                                       |   |                 |            |                 |            |   |           |         |   |
|             |         |                            |                                       | 7                                       | • •             | 9          | 8               | . 12       |   | 43        |         | 0.41  |
| 99          | 7       | 19                         | 17                                    | 91                                      | 7               | 60         | 12              | 81         |   |           |         |   |
| 109         | 10      | 61<br>                     | 81<br>··                              | 302<br><i>13</i>                        | 31<br>          | 230<br>10  | 27              |            |   |           |         | 0·43<br><i>0·5</i>                                      |
|             | - ,     |                            |                                       |   |                 |            |                 |            |   |           |         |   |
| 147<br>147  | • •     | <i>5</i> 88<br><b>5</b> 88 | • •                                   | 1,024<br>1,024                          | <i>65</i><br>65 | 266<br>266 | <i>39</i><br>39 |            | 8 <i>29</i><br>8 29                     |           |         |   |
| 1#1         | . ••    | 000                        | ••                                    | 2,022                                   |                 |            | •               |            |   |           | . •     | 0 00  |
|             |         |                            |                                       |   |                 | • •        |                 | •          |   |           |         | 0.61  |
| ••          | • • •   | ••                         | ••                                    | ••                                      | ••              | •••        | ••              |            |   | ·         |         |   |
| 445         | 168     | 90                         |                                       | 7                                       | 4               | 580        | 295             |            |   | 1,850     | 1,088   | Divn. 1   |
|             |         |                            | ••                                    |   | 2               |            |                 |            |   | 1,000     | -       |   |
| ••          | ••      | ••                         | •••                                   | _                                       | •               | ••         | •               | -          | • • •                                   | ••        | •••     | 1.0   |
|             |         |                            |                                       |   |                 |            |                 |            |   |           |         |   |
| •           |         |                            |                                       |   |                 |            |                 |            |   |           |         |   |
|             |         |                            |                                       |   |                 | 95         | 9               |            |   | 6         | 3       | 1.1   |
| • •         | ••      | ••                         | ••                                    | • •                                     | •               |            | •               | •          |   |           |         | 1.1   |
|             |         |                            |                                       |   |                 |            |                 |            |   |           |         |   |
| <b>4</b> 33 | 167     |                            | • •                                   | 2                                       | ••              | ••         |                 |            |   | 1,751     | 1,037   | 1.3   |
| 9           | • •     | 85                         | ••                                    | 1                                       | 1               | 113        | 180             |            |   | 93        | 3       | 1.3   |
| 4           | ••      | 85                         | • •                                   | ʻi                                      | i               | 113        | 180             | •          |   | 93        |         | 1·82<br>1·33  |
| 5           | • •     | ••                         | • •                                   | • •                                     | ••              | 369        | 106             |            | • |           |         | 1.30  |
| 2           | ••      | • •                        | ••                                    | • •                                     | ••              | 909        | 100             | •          | • | • •       | 28      | 1.5   |
|             |         |                            |                                       |   |                 |            |                 |            |   |           |         | •   |
| 1           | 1       | 5                          |                                       |   | 1               | 3          |                 |            |   |           |         | 1.7   |
| 2,108       | 506     | 3,607                      | 1,184                                 | 9,714                                   | 2,392           | 2,288      | 689             | 6,60       | 9 1,210                                 |           |         | 2 Divn. 2   |
|             |         | áu.                        |                                       | 250                                     | 0.0             | · NO       |                 | , .        | 9                                       |           |         |   |
| 15          | ••      |                            | ••                                    | <i>359</i><br>239                       | 20<br>14        | 72         | 32              |            | 3 18<br>3 18                            |           | 5<br>)  |   |
|             |         |                            |                                       |   |                 |            |                 |            | •                                       |           |         |   |
| 15          | • •     | 3                          | • •                                   | 100                                     | • •             | 13         | • •             | . 1        | 0                                       | 7         | 7       | 2.03  |
| 910         | ••      | 4                          | • •                                   | 20                                      | 6               | 59         | . 32            | ·          | • | 9         | e`      | 2.00  |
|             |         |                            |                                       |   |                 |            |                 |            |   |           |         |   |

| Group<br>Code       | Occupation   |  | ORISS              | A                | Orissa                       | 3.33<br>Inland       | Division       | Orissa                          | 5·11<br>Coastal           | Divisica          |
|---------------------|--|--|--------------------|------------------|------------------------------|----------------------|----------------|---------------------------------|---------------------------|-------------------|
| No.                 |  | Persons  | Males              | Females          | Persons                      | Males                | Females        | Persons                         | Males                     | Femal -           |
| (1)                 | (2)  | (3)  | (4)                | (5)              | (6)                          | (7)                  | (8)            | (9)                             | (10)                      | ( 11              |
| <b>2</b> ⋅1<br>2⋅11 | Grains and pulses  |  | 14,585<br>1,916    |                  | 15,093<br>5,887              | 6,846<br>1,201       | 8,247<br>4,686 | 28,697<br>14,763                | 7,739<br>715              | 20,\$34<br>14,64  |
| 2·12<br>2·13        | Millers of cereals and pulses<br>Grain parchers and makers of blended<br>and prepared flour and other cereal and<br>pulse preparations.  | 2,352<br>20,788  | 1,583<br>11,086    | 769<br>9,702     | 502<br>8,704                 | 420<br>5,225         | 3,479          | 1,850<br>12,084                 | 1,163<br>5,861            | 6,22 <b>3</b>     |
| <b>2</b> ·2         | Vegetable and dairy products   | 5,500  | 4,613              | 887              | 3,040                        | 2,550                | 490            | 2,460                           | 2,063                     | 35                |
| $2.21 \\ 2.22$      | Vegetable oil pressers and refiners Manufacturers of hydrogenated oils   | $\begin{array}{c} \textbf{4,321} \\ \textbf{22} \end{array}$ | $\frac{4,064}{21}$ | 2 <b>57</b><br>1 | 2,403                        | 2,254                | 149            | $\substack{\textbf{1,918}\\22}$ | 1,810<br>21               | 1                 |
| 2.23                | Makers of butter, cheese, ghee and other dairy products.   |  | 528                | 629              | 637                          | 296                  | 341            | 520                             | 232                       | 255               |
| 2.3                 | Sugar Industries   | 751  | 692                | 59               | 271                          | 231                  | 40             | 480                             | 461                       | 19                |
| 2.31                | Gur manufacture  | 577  | 549                | 28               | 183                          | 159                  | 24             | 394                             | 390                       | . 4               |
| 2.30                | Other manufactures and refining of raw<br>sugar, syrup and granulated or clarified<br>sugar from sugarcane or from sugar<br>beets.   |  | 143                | 31               | 88                           | 72                   | 16             | 86                              | 71                        | 16                |
| 2.4                 | Beverages  | 935  | 894                | 41               | 748                          | 715                  | 33             | 187                             | 179                       | •                 |
| 2·41<br>2·42        | Brewers and distillers Toddy drawers   | 257<br>596   | 242<br>578         | 15<br>18         | 226<br>505                   | 211<br>487           | 15<br>18       | 31<br>91                        | 31<br>91                  |                   |
| 2.43                | Ice-manufacturers  | 29   | 25                 | 4                | 15                           | 15                   | • • •          | 14                              | 10                        |                   |
| 2.40                | Manufacture of aerated and mineral waters and other beverages.   | 53   | 49                 | 4                | 2                            | 2                    | • •            | 51                              | 47                        | 4                 |
| 2.5                 | Tobacco  | <b>6,</b> 85 <b>3</b>  | 4,803              | 2,050            | 4,630                        | 2,973                | 1,657          | 2,223                           | 1,830                     | 393               |
| 2·51<br>2·50        | Manufacture of bidis Manufacture of tobacco products (other than bidis) such as cigarettes, cigars, cheroots and snuff. Stemming, redrying and other operations connected with preparing raw leaf tobacco for manu- facturing are also included. | 6,411<br>442   | 4,521<br>282       | 1,890<br>160     | 4,530<br>100                 | 2,874<br>99          | 1,656          | 1,881.<br>342                   | 1,647                     |                   |
| 2·6<br>2·61         | Cotton textiles  | 37,879 $1,251$   | 32,020<br>1,033    | 5,859<br>218     | 26,793<br>834                | 22,642<br>707        | 4,151<br>127   | 11,086<br>417                   | 9,378<br>326              | 1,708<br>91       |
| $2 \cdot 62$        | Cotton spinning, sizing and weaving Cotton dyeing, bleaching, printing, pre-   | 36,186<br>442  | 30,606<br>381      | 5,580<br>61      | 25,618<br>341                | 21,630<br>305        | 3,988<br>36    | 10,568<br>101                   | 8,976<br>76               | 1,592<br>25       |
| 2.63                | paration and sponging.   |  |                    |                  |                              |                      |                |                                 |                           |                   |
| 2.7                 | Wearing apparel (except footwear) and made-up textile goods.   | 11,517   | 10,631             | 886              | 6,518                        | 6,280                | 238            | 4,999                           | 4,351                     | 645               |
| $2.71 \\ 2.72$      | Tailors, milliners, dress makers and darners<br>Manufacturers of hosiery, embroiderers,<br>makers of crepe, lace and fringes.  | <b>5,2</b> 08<br>195   | 4,798<br>126       | 410<br>69        | 1,608<br>118                 | 1,565<br>87          | 43<br>31       | 3,600<br>77                     | <b>3,233</b><br><b>39</b> | 367<br><b>3</b> 8 |
| $2.73 \\ 2.74$      | Fur dressers and dyers  Hat-makers and makers of other articles of wear from textiles.   | 570<br>2,101   | 544<br>2,028       | 26<br>73         | 529<br><b>2,</b> 05 <b>4</b> | 522<br><b>2,</b> 019 | 7<br>35        | 41<br>47                        | 22<br>9                   | 19<br>35          |
| 2.75 $2.70$         | Manufacture of house furnishing of textiles Makers of other made-up textile goods including umbrellas.   | 2,466<br>977   | 2,222<br>913       | 244<br>64        | 1,919<br>290                 | 1,845<br>242         | 74<br>48       | 547<br>687                      | 377<br>671                | 170<br>16         |
| 2.8                 | Textile Industries otherwise unclassified  | 17,405   | 14,729             | 2,676            | 9,607                        | 8,589                | 1,018          | 7,798                           | 6,140                     | 1,655             |
| 2.81                | Jute pressing, baling, spinning and weaving.   | 4,272  | 3,640              | 632              | 2,461                        | 2,237                | 224            | 1,811                           | 1,403                     | 405               |
| 2.83                | Silk reeling, spinning, twisting and weaving   | 2,191  | 1,913              | 278              | 1,201                        | 966                  | 235            | 990                             | 947                       | 43                |
| 2·84<br>2·86        | Hemp and flax spinning and weaving  Manufacture of rope, twine, string and other related goods from cocoanut,  | 394<br>10,535  | 163<br>9,000       | 231<br>1,535     | 157<br>5,787                 | 101<br>5,284         | 56<br>503      | 237<br><b>4,</b> 748            | 3,716                     | 175<br>1,032      |
| <b>2·</b> 80        | aloes, straw, linseed and hair. All other (including insufficiently described) textile industries, including artificial leather and cloth.   | 13   | 13                 |                  | 1                            | 1                    | ••             | 12                              | 12                        | •                 |
| 2.9                 | Leather, leather products and footwear   | 3,202  | 2,875              | 327              | 2,013                        | 1,845                | 168            | 1,189                           | 1,030                     | 185               |
|                     | Tanners and all other workers in leather   | 159  | 121                | 38               | 107                          | 73                   | 34             | 52                              | 48                        | , 4               |
| 2.92                | Cobblers and all other makers and repairers of boots, shoes, sandles and clogs.  | 2,912  | <b>2#3</b> 28      | 284              | 1,865                        | 1,736                | 129            | 1,047                           | 892                       | 155               |
| 2.90                | Makers and repairers of all other leather products.  | 131  | 126                | 5                | 41                           | 36                   | 5              | 90                              | 90                        | ٠                 |

| Cutt                        | tack                   | Bal                    | asore                 |                            | Puri                  | Samb                       | alpur                 | Gan                       | jam               | Group                               |
|-----------------------------|------------------------|------------------------|-----------------------|----------------------------|-----------------------|----------------------------|-----------------------|---------------------------|-------------------|-------------------------------------|
| Males                       | Females                | Males                  | Females               | Males                      | Females               | Males                      | Females               | Males                     | Females           | Code<br>No.                         |
| (12)                        | (13)                   | (14)                   | (15)                  | (16)                       | (17)                  | (18)                       | (19)                  | (20)                      | (21)              | (1)                                 |
| <b>4,</b> 352<br>205        | 8,8 <b>39</b><br>5,813 | 958<br>223             | 4,461<br>3,307        | 1,573<br>130               | <b>4,623</b><br>2,572 | 2,731<br>174               | <i>3,302</i><br>1,984 | 87 <b>6</b><br>171        | 3,110<br>2,427    | \$·1<br>2·11                        |
| 521<br>3,626                | 35<br>2,991            | 543<br>192             | 65 <b>2</b><br>502    | 14<br>1,429                | 2,051                 | 17<br>2,540                | 1,318                 | 85<br>620                 | 683               | 2·12<br>2·13                        |
| 483<br>475                  | 109<br><br>            | 109<br>23              |                       | 511<br>478                 | 220<br>63             | 1,073<br>1,049             | 163<br>               | 980<br>854<br>21          | 69<br>46<br>1     | 2.2<br>2.21<br>2.22                 |
| 8                           | 109                    | 86                     | ïi                    | 33                         | 157                   | 24                         | 163                   | 105                       | 22                | 2.23                                |
| 171<br>105<br>66            | 17<br>2<br>15          | 8<br>6<br>2            | 2<br>2<br>            | 188<br>188                 | ••                    |                            | ••                    | 98<br>95<br><b>3</b>      | ••                | 2·3<br>2·31<br>2·30                 |
| 110<br>9<br>53<br>10<br>38  |                        | 14<br><br>5<br>        |                       | 32<br>10<br>22             |                       | 402<br>104<br>293<br>5     | 13<br>13<br>          | 25<br>14<br>11<br>        | ••                | 2·4<br>2·41<br>2·42<br>2·43<br>2·40 |
| 777<br>652<br>125           | 184<br>64<br>120       | 397<br>397<br>••       | <i>63</i><br>63<br>•• | 40<br>40<br>               |                       | 2,337<br>2,333<br><b>4</b> | 1,626<br>1,626        | 636<br>578<br>58          | 150<br>111<br>39  | 2·5<br>2·51<br>2·50                 |
| 3,393<br>306<br>3,023<br>64 | 625<br>91<br>517<br>17 | 717<br>712<br>5        | 191<br>183<br>8       | 1,526<br>1,526             | 359<br><br>359        | 5,912<br>9<br>5,783<br>120 | 1,262<br>1,242<br>20  | 3,874<br>20<br>3,847<br>7 | <i>541</i><br>541 | 2·6<br>2·61<br>2·62<br>2·63         |
| 2,124                       | 361                    | <i>515</i>             | 87                    | 1,231                      | 200                   | 4,670                      | 36                    | 495                       | • •               | 2-7                                 |
| 1,701<br>9                  | 315<br>9               | 453<br>30              | 51<br>29              | 609                        | 1<br>                 | 314<br>39                  |                       | <b>484</b>                | ••                | $2.71 \\ 2.72$                      |
| , 22<br>4                   | 19<br>18               | ••                     | ••                    | 5                          | 20                    | 522<br>1,949               | 7<br>17               | • •                       | ••                | 2·73<br>2·74                        |
| 388                         | ::                     | 32                     | 7                     | 377<br>240                 | 163<br>16             | 1,841<br>5                 | 9                     | ii                        | ••                | 2·75<br>2·70                        |
| <b>4,061</b><br>1,139       | 956<br>377             | 822<br>67              | 101<br>9              | 7 <i>32</i><br>12 <b>3</b> | 558<br>16             | 234<br>41                  | 84<br>29              | 53 <b>3</b><br>74         | 45<br>6           | 2·8<br>2·81                         |
| 41<br>2,881                 | 164<br>415             | 552<br>21<br>170       | 34<br>11<br>47        | 51<br>558                  | 9<br>533              | 51<br>19<br>123            | 27<br>28              | 344<br>115                | 39                | 2·83<br>2·84<br>2·86                |
| ••                          | ••                     | 12                     |                       | ••                         | ••                    | ••                         |                       | ••                        | ••                | 2.80                                |
| 304<br>28<br>276            | <i>151</i><br>151      | 7 <i>4</i><br>20<br>54 | 7<br>4<br>3           | 255<br><br>255             | ••                    | 688<br>688                 | 92<br>92              | 406<br>316                |                   | 2·9<br>2·91<br>2·92                 |
| • •                         | ••                     | ••                     | ••                    | ••                         | ••                    | ••                         | ••                    | 90                        | ••                | 2.90                                |

| 2.13 Grain parchers and makers of blended and prepared flour and other cereal and pulse preparations.  2.2 Vegetable and dairy products 2.2 Vegetable oil pressers and refiners 2.2 Manufacturers of hydrogenated oils 2.2.2 Manufacturers of hydrogenated oils 2.2.3 Makers of butter, cheese, ghee and other 2.2 dairy products. 2.3 Makers of butter, cheese, ghee and other 2.4 Sugar Industries 2.5 Sugar Industries 2.6 Ootton textifies 2.7 Sugar Industries 2.8 Sugar Industries 3 Sugar Industries 4 Sugar Suga | ) (28)<br>0 500<br>5 196<br>3<br>2 304<br>7 292<br>9 245<br><br>8 47<br><br><br><br><br> | Females (29 1,164 97:          |
|--|--|--------------------------------|
| 2-1   Grains and pulses  | 0 500<br>5 196<br>3<br>2 304<br>7 292<br>9 245<br><br>8 47<br>. 120                      | 1,14f<br>97:<br>170<br>23<br>1 |
| 2-11 Hand pounders of rice and other persons engaged in manual dehusking and flour grinding. 2-12 Millers of cereals and pulses  | 5 196  3 2 304  7 292 9 245 8 47 . 120 . 86  | 976<br>176<br>23<br>1<br>22    |
| engaged in manual dehusking and flour grinding.  2-12 Millers of cereals and pulses  | 3 2 304<br>7 292<br>9 245<br>8 47<br>. 120   | 976<br>176<br>23<br>1<br>22    |
| 2-13 Grain parchers and makers of blended and prepared flour and other cereal and pulse proparations.  2-2 Vegetable and dairy products 2-2 1 Vegetable oil pressers and refiners 2-2 1 Vegetable oil pressers and refiners 2-2 Manufacturers of hydrogenated oils 2-2 Makers of butter, cheese, ghee and other 3 dairy products 2-3 Mekers of butter, cheese, ghee and other 3 dairy products 2-3 Sugar Industries 2-4 94 100 100 100 100 100 100 100 100 100 10  | 2 304<br>7 292<br>9 245<br>8 47<br>. 120   | 23<br>1<br><br>22              |
| 2.21 Vegetable oil pressers and refiners   | 9 245<br>8 47<br>. 120<br>. 86   | 1<br>22<br>2                   |
| 2.22 Manufacturers of hydrogenated oils  |  | 22<br>22                       |
| 2-23 Mekers of butter, cheese, ghee and other dairy products.  2-3 Sugar Industries  | 8 47<br>. 120<br>. 86  |                                |
| 2.3 Sugar Industries   | . 86   |                                |
| 2.31 Gur manufacture   | . 86   | • •                            |
| 2.30 Other manufactures and refining of raw sugar, syrup and granulated or clarified sugar from sugarcane or from sugar beets.  2.4 Beverages  |  |                                |
| 2.4 Beverages  |  |                                |
| 2.41 Brewers and distillers  | . 100  | 7                              |
| 2.43 Ice-manufacturers 2.40 Manufacture of aerated and mineral waters and other beverages.  2.5 Tobacco 2.0 4 616 146 44  2.51 Manufacture of bidis 20 4 558 107 44  2.50 Manufacture of tobacco products (other than bidis) such as cigarettes, cigars, cheroots and snuff. Stemming, redrying and other operations connected with preparing raw leaf tobacco for manufacturing are also included.  2.6 Ootton textiles 2.61 Cotton ginning, cleaning and pressing 2.62 Cotton spinning, sizing and weaving 2.63 Cotton spinning, sizing and weaving 2.64 Cotton spinning, sizing and weaving 2.65 Cotton spinning, sizing and weaving 2.66 Cotton spinning, sizing and weaving 2.67 Source of the spinning spinning, sizing and weaving 2.68 Source of the spinning spinning, sizing and weaving 2.69 Cotton spinning, sizing and weaving 2.70 Source of the spinning  |  | • •                            |
| 2.40 Manufacture of aerated and mineral waters and other beverages.  2.5 Tobacco  2.51 Manufacture of bidis  2.52 Manufacture of tobacco products (other than bidis) such as cigarettes, cigars, cheroots and snuff. Stemming, redrying and other operations connected with preparing raw leaf tobacco for manufacturing are also included.  2.6 Cotton textiles  2.6 Cotton ginning, cleaning and pressing  2.6 Cotton spinning, sizing and weaving  3.6 Cotton spinning, sizing and weaving  3.7 Lotto Garage Also  4.7 | . 78   | 7                              |
| and other beverages.  2.5 Tobacco  | . 1  | • •                            |
| 2.51 Manufacture of bidis 2.50 Manufacture of tobacco products (other than bidis) such as cigarettes, cigars, cheroots and snuff. Stemming, redrying and other operations connected with preparing raw leaf tobacco for manufacturing are also included.  2.6 Ootton textiles  |  | ••                             |
| 2.50 Manufacture of tobacco products (other than bidis) such as cigarettes, cigars, cheroots and snuff. Stemming, redrying and other operations connected with preparing raw leaf tobacco for manufacturing are also included.  2.6 Cotton textiles  | 3 225  | 1                              |
| 2.61 Cotton ginning, cleaning and pressing   | •••  |                                |
| 2.62 Cotton spinning, sizing and weaving . 132 8 3.715 533 997 460   | 1,471  | 169                            |
| 2.62 Cotton dveing, bleaching, printing, pre-  |  | 100                            |
| paration and sponging.   |  | 169                            |
| 9.7 Wearing apparel (except footwear) and 14 481 267 made-up textile goods.  | 821  | 11                             |
| 2.71 Tailors, milliners, dress makers and darners 14 470 262   | 143  | 10                             |
| 2.72 Manufacturers of hosiery, embroiderers,   |  | ••                             |
| 2.73 Fur dressers and dyers  |  |                                |
| 2.74 Hat-makers and makers of other articles   | 3  | 1                              |
| 2.75 Manufacture of house furnishing of textiles   |  | • •                            |
| 2.70 Makers of other made-up textile goods 11 5 . including umbrellas.   | 175  | • •                            |
| 2.8 Textile Industries otherwise unclassified 8 2 525 43 459   | 698  | 70                             |
| 2.81 Jute pressing, baling, spinning and 74 6 weaving.   | <b>FO</b> 4  | 4                              |
| 2.83 Silk reeling, spinning, twisting and weaving 344  | 61   | . 1                            |
| 2.84 Hemp and flax spinning and weaving  |  | 56                             |
| 2.86 Manufacture of rope, twine, string and 8 2 107 87 410 . other related goods from cocoanut,  | 10   | 9                              |
| aloes, straw, linseed and hair.  2.80 All other (including insufficiently described) textile industries, including artificial leather and cloth.   | ••   | • •                            |
| 2.9 Leather, leather products and footwear 9 897 1 178   | 70   | 13                             |
| 2.91 Tanners and all other workers in leather  | 16   | 7                              |
| 2.92 Cobblers and all other makers and repairers 9 307 l 178 of boots, shoes, sandles and clogs.   | 54   | 6                              |
| 2.90 Makers and repairers of all other leather 90 products.  | ••   | 16                             |

| Keon             | jhar            | Phul                        | bani              | Bol                    | angir            | Sunda                  | argarh            | Kala                  | handi             | Mayur               | bhanj      | Group             |
|------------------|-----------------|-----------------------------|-------------------|------------------------|------------------|------------------------|-------------------|-----------------------|-------------------|---------------------|------------|-------------------|
| Males            | Females         | Males                       | Females           | Males                  | Females          | Males                  | Females           | Males                 | Females           | Males               | Females    | Code<br>No.       |
| (30)             | (31)            | ( 32 )                      | (33)              | (34)                   | ( 35 )           | (86)                   | (37)              | ( 38 )                | ( 39 )            | (40)                | (41)       | 1                 |
| 180<br>65        | 119<br>44       | 16 <b>3</b>                 | <i>568</i><br>289 | 1,412<br>420           | 1,243<br>484     | 445<br>82              | 441<br>257        | 709<br>184            | 679<br><b>224</b> | 170<br><b>4</b> 5   | 400<br>198 | 2-1<br>2-1        |
| 115              | 75              | 168                         | 279               | 988                    | 759              | 361                    | 184               | 29 <b>5</b><br>230    | 74<br>881         | 40<br>85            | 5<br>197   | 2·1<br>2·1        |
| 187<br>99        | 7               | 191<br>177                  | 38<br>5           | 477<br>893             | 151<br>105       | <i>55</i><br>40        | 13                | <i>147</i><br>83      | <i>61</i><br>20   | 66<br>46            | 15<br>4    | g.g<br>2.2        |
| 28               |                 | ii                          | 33                | 84                     | 46               | 15                     | iš                | 64                    | 41                | 20                  | ii         | 1.2<br>2.2        |
| 4                | 17<br>17<br>    | 10<br>10                    | ••                | 72<br>34<br>38         | 19<br>5<br>14    | ••                     | 2                 | ••                    | ••                | <i>11</i><br>11<br> | ••         | 2·3<br>2·3<br>2·3 |
| 84<br>26<br>6    | ••              | 9                           | ••                | 68<br>28<br>37         |                  | 73<br>24<br>49         | 2 2               | 21<br>17              | <i>8</i><br>8     | <i>5</i>            | i<br>i     | 2·4<br>2·4<br>2·4 |
| . <b>.</b>       | ••              | ••                          | ••                | 3                      | ••               | ••                     | ••                | 2                     | ••                | 2                   | ••         | 2·4<br>2·4        |
| 107<br>37<br>70  | ••              | <i>55</i><br>55             | ••                | 58<br>33<br>25         | 3<br>2<br>1      | <i>85</i><br>85        | 12<br>12          | 28<br>22              |                   | 70<br>70            | ••         | 2·5<br>2·5<br>2·5 |
|                  |                 |                             |                   |                        |                  |                        | •                 | •                     | -                 | * ***<br>           |            |                   |
| 781<br>25<br>756 | 177<br>7<br>170 | 1,570<br>170<br>1,985<br>15 | 825<br>84<br>239  | 6,779<br>43<br>- 6,736 | 892<br>17<br>875 | . 1,306<br>59<br>1,224 | <i>134</i><br>134 | 1,307<br>891<br>914   | 118<br>19<br>94   | 2,378<br>2,232      | 604<br>588 | 2·6<br>2·6<br>2·6 |
| <br>185          | <br>41          | 245                         | 20                | 187                    | 7                | 23<br>106              | <br>14            | 2<br>92               | <br>83            | 141<br>243          | 16         | 2.6               |
| 119<br>10        | 5<br>21         | 239                         | 20                | 150<br>37              | · .;             | 48                     | ••                | 77                    | 2                 | 199                 | 26<br>6    | 2·7               |
|                  | **              | ••                          | ••                | •                      | ••               | 58                     | <br>14            |                       | ••                | ••                  | ••         | 2·7:              |
| ••               | 12              |                             |                   | ••                     | ••               |                        |                   | 4                     | 53                | ••                  | ••         | 2·7·              |
| 357              | <br>145         | 6<br>1,333                  | 235               | <br>N4                 | ••               | ••                     | ••                | 8                     | 28                | 43                  | 20         | 2.7               |
| 132              | 80              | 97                          | 85                | 71<br><b>4</b> 5       | 86<br>16         | 29                     | . 34<br>16        | <i>4,254</i><br>1,328 | 219<br>44         | 1,146<br>           | 193        | 2·8<br>2·8        |
| 225              | 65              | 107<br>1,129                | 14<br>186         | <br>26                 | 20               | 29                     | <br>18            | 2,926                 | 175               | 747<br>398          | 193<br>::  | 2·8<br>2·8<br>2·8 |
| ••               | ••              | ••                          | ••                | ••                     | ••               |                        | ••                | , <b></b>             | ••                | :.<br>1             |            | · 2·8             |
| 308              |                 | 24                          |                   | 281                    | 40               | 140                    | -                 |                       |                   |                     |            | •                 |
| 868              |                 | 2<br>22                     | • •               | 29<br>181              | 19<br>5<br>12    | 169<br>169             | 5                 | 21<br>8               | 26<br>9<br>14     | 64<br>5<br>59       | 13<br>12   | 2·9<br>2·9<br>2·9 |
| ••               | ••              | ••                          | ••                | 21                     | 2                | ••                     |                   | 15                    | 3                 | . , 956             | ••         | 2.90              |

| Group              | Occupation .   |                       |             |           | 8-83<br>Orissa Inland Division |             |            | 8-11<br>Orissa Coastal Division |           |                |
|--------------------|--|-----------------------|-------------|-----------|--------------------------------|-------------|------------|---------------------------------|-----------|----------------|
| Code<br>No.        | Occupation .   | Persons               | Males       | Females   | Persons                        | Males       | Females    | Persons                         | Malos     | Females        |
| (1)                | (2)  | (*)                   | (4)         | (5)       | (6)                            | (7)         | (8)        | (9)                             | (10)      | (11)           |
| Da. 3.             | Processing and Manufacture—Metals,<br>Chemicals and Products thereof   | 21,420                | 19,257      | 2,163     | 13,799                         | 12,242      | 1,557      | 7,621                           | 7,015     | 608            |
| 3.0                | Manufacture of metal products, otherwise unclassified.   | 15,976                | 14,349      | 1,627     | 10,614                         | 9,404       | 1,210      | 5,362                           | 4,945     | 417            |
| . 3.01             | Blacksmiths and other workers in iron and makers of implements.  | 11,369                | 10,250      | 1,119     | 7,655                          | 6,833       | 822        | 3,714                           | 3,417     | 297            |
| 3·02<br>3·03       | Workers in copper, brass and bell metal<br>Workers in other metals   | 4,552<br>55           | 4,070<br>29 | 482<br>26 | 2,910<br>49                    | 2,548<br>23 | 362<br>26  | 1,642<br>6                      | 1,522     | 120            |
| 8-1                | Iron and steel (Basic manufacture)  Manufacture of iron and steel, includin all processes such as smelting and refining; rolling and drawing; and alloying and the manufacture of castings, forgings and other basic forms of ferrous metals.  |                       | 8,114       | 336       | 2,095                          | 1,778       | <b>317</b> | 355                             | 336       | 19             |
| <b>3:8</b>         | Non-ferrous metals (Basic manufacture) Smelting and refining, rolling, drawing and alloying and the manufacture of castings, forgings, and other basic forms of non ferrous metals.  | 3                     | 239         | 6         | <b>923</b>                     | <b>3</b> 18 | 5          | 122                             | 121       | 1              |
| 3.3                | Transport equipment  |                       | 1,310       | 150       | 562                            | 542         | 20         | 898                             | 788       | 130            |
| 3·31<br>3·32       | Building and repairing of ships and boate Manufacture, assembly and repair of railway equipment, motor vehicles and bicycles.  (Railway fitters are included in this   | 928                   | 110<br>921  | 131       | 71<br>811                      | 63<br>311   | . ••       | 170<br>617                      | 610       | 123            |
| 3-34               | group ).<br>Coach builders and makers of carriages.  |                       | 279         | 12        | 180                            | 168         | 12         | 111                             | 111       | ••             |
| 8-4                | palki, rickshaw, etc. and wheel wrigh<br>Electrical machinery, apparatus, appli-<br>ances and supplies.  |                       | 489         | 22        | 131                            | 126         | 8          | 880                             | 868       | 17             |
| 3-43<br>3-40       | Manufacture of electric wire and cable Manufacture of electrical generating transmission and distribution apparatus; electrical household appliance other than lights and fans; electrical equipment for motor vehicles, aircraft and railway locomotives and carse communication equipment and related products, including radios, phonographs, electric batteries, X-Ray and therapeutic apparatus; electronical tubes, etc. | :<br>:<br>:<br>:<br>: | 68<br>421   | 22        | 58<br>73                       | 58<br>68    |            | 10<br>\$70                      | 10<br>353 | i <del>i</del> |
| 8.5                | Machinery (other than electrical mechinery including Engineering Workshops Engineering Workshops engaged is producing machine and equipmen parts. Mechanics unspecified.   | <b>,</b><br>1         | 221         | 8         | 63                             | . 0.        | <b>.</b>   | . 166                           | 158       | 8 8            |
| 3.6                | Basic industrial chemicals, fertiliser and power alchohol.   | 116                   | 3 113       | 3         | 82                             | 3 82        |            | 84                              | 81        |                |
| 3.6                | 2 Dyes, explosives and fireworks   |                       |             |           |                                |             |            | 9.0                             |           | •              |
| 8·7<br><b>3</b> ·8 |  | . 28:                 |             |           |                                |             |            | 000                             |           |                |
| 3.8                |  | di (                  | 9           | 8 1       | ١.                             | • •         | ••         |                                 | •         | • •            |
|                    | <ol> <li>Soaps and other washing and cleaning compounds</li> </ol>   | _                     |             |           |                                |             | _          | . 96                            | 86        | 5 10           |
|                    | \$ Paints, varnishes and lacquers and polishes.  |                       |             |           |                                |             |            | 10                              | . 19      |                |
| 3.8                |  |                       |             |           | •                              |             | 7          |                                 | 88        |                |
| 3·8<br>3·8         |  | . 2                   | 9 2         | 9         | . 1:                           | 2 1         | z          | 17                              | 1.1       |                |
| 3.8                |  |                       |             | 5         |                                |             | 5          | • ••                            | • •       | • ••           |

| Cut       | ltack      | В                     | alasore   | I         | Puri       | Sam              | balpur       | Ga        | njam       | Group<br>Code       |
|-----------|------------|-----------------------|---|-----------|------------|------------------|--------------|-----------|------------|---------------------|
| Males     | Females    | Males                 | Females   | Males     | Females    | Males            | Females      | Males     | Females    | No.                 |
| (12)      | (13)       | (14)                  | (15)  | (16)      | (17)       | . (18)           | ( 19 )       | (20)      | (21)       | (1)                 |
| 2,292     | 568        | 605                   | 33  | 1,788     | <b>2</b>   | 2,640            | 311          | 2,392     | 4          | Dn. 3               |
| 1,060     | 388        | 415                   | 24  | 1,518     | 2          | 2,144            | 291          | 2,011     | 4          | 3.0                 |
| 742       | 277        | 179                   | 18  | 1,112     | ••         | 1,247            | 45           | 1,443     | 3          | 3.01                |
| 318       | 111        | 236                   | 6   | 400<br>6  | 2          | 897              | 246          | 568       | 1          | 3•02<br>3•03        |
| 265       | 11         | 42                    | 8   | 1         | ••         | 5                | 17           | 29        | -          | <b>3.1</b>          |
|           |            |                       |   |           |            |                  |              |           |            |                     |
| 3.        | ••         | 34                    | . 1   | 40        | -          | , <b>135</b>     | <b>-</b>     | 12        | -,         | -2                  |
| 401       | 130        | 50                    |   | 40        |            |                  |              |           |            |                     |
| 47<br>264 | 123<br>7   | <i>59</i><br>••<br>46 | 0.0<br>0.0                                      | 46<br>38  | -          | 314<br>39<br>188 | 2<br>1       | 262       | ••.        | 3·3<br>3·31<br>3·32 |
|           |            |                       |   |           |            |                  | ,            |           |            |                     |
| 90        | ••         | 13                    |   | 8         | ••         | 87               | 1            |           | • • •      | 3.34                |
| 271       | . 17       | 5                     | ••  | 84        | •.•        | 6                | 1            | 3         | 9.0        | 3.4                 |
| 271       | <b>i</b> 7 | 5                     | - 20 <b>0 0</b> 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 5<br>79   | ere<br>e-e | 6                | · 'i         | 3         | ••         | 3·43<br>3·40        |
|           |            |                       |   |           |            |                  |              |           |            |                     |
|           |            | ·                     | •   | *         |            |                  |              |           |            |                     |
|           |            |                       | •   |           |            |                  |              |           |            |                     |
| 78        | 8          | <b>8</b> .            | •• .  | 23        | 440        | 13               | 416          | <b>51</b> | -          | 3.5                 |
| <i>51</i> | 3          | в                     | áza   | 11        |            | 10               | _            | 13        |            | 3⋅6                 |
| 51<br>12  | 3          | 6                     | • •   | .11       |            | 10               | ***          | 13        | _          | 3.62                |
| 79        | ii         | 10<br>26              | 410   | 105       | 819<br>619 | <b>i</b> 3       | 91.0<br>0.30 | 10<br>1   | 0:0<br>0:0 | 3·7<br>3·8          |
| 6         | . 1        | 2                     | <b>⊕</b> ∡ <b>⊕</b>                             |           | 9.0        | <b>0:</b> 0      | 0:0          |           |            | 3.81                |
| 73        | 10         | 12                    | -   | ***       | emp        | 10               | 820          | 1         | -          | 3.82                |
| 0.0       | eng.       |                       | •   | 420       | 638        | -                | -            | -         | -          | 3.83                |
| ••        | • •        | 12                    | 010<br>020                                      | ***<br>88 | 6 TP       | . 3<br>. •••     |              |           | 0CD        | 3·85<br>3·86        |
| ***       | 1.0        | ••                    | ••  | 17        |            | ••               |              | . ••      | ••         | 3.87                |
|           |            |                       |   | , -       |            | ₹ ■              | . • •        | ••        | * ••       | 3.80                |

| Group        |   | Agency     |          | Pla       | ins       | Koraj  | put     | Dh       | enkanal  |
|--------------|---|------------|----------|-----------|-----------|--------|---------|----------|----------|
| Code<br>No.  | Occupation  | Males      | Females. | Males     | Females   | Males  | Females | Males    | Females  |
| (1)          | (2)   | ( 22 )     | ( 23 )   | (24)      | ( 25 )    | ( 26 ) | (27)    | ( 28 )   | ( 29 )   |
| Da. 1.       | Processing and Manufacture—Metals,<br>Chemicals and Products thereof.   | 62         | 1        | 2,330     | 3         | 1,875  | • ••    | 1,329    | 165      |
| 8-0          | Manufacture of metal products, otherwise unclassified.  | 59         | 1        | 1,952     | 3         | 1,400  | ••      | 1,103    | 100      |
|              | Blacksmiths and other workers in iron and makers of implements.   | 59         | 1        | 1,384     | 2         | 1,140  | • •     | 683      | 13       |
| 3.03         | Workers in copper, brass and bell metal<br>Workers in other metals  | ••         | • ::     | 568       | 1         | 260    | ••      | 413<br>7 | 61<br>26 |
| · · · 8·1    | Iron and steel (Basic manufacture) Manufacture of iron and steel, including all processes such as smelting and refining; rolling and drawing; and alloying and the manufacture of castings, forgings and other basic forms of ferrous metals.   | 1          | ••       | <b>28</b> | ••        | 403    | ••      | 168      | ••       |
| 3.2          | Non-ferrous metals (Basic manufacture).  Smelting and refining, rolling, drawing and alloying and the manufacture of castings, forgings, and other basic forms of non-ferrous metals.   | ••         | ••       | 12        | ••        | ••     | ••      | ••       |          |
| 3.3          | Transport equipment   | ***        | • •      | 262       | •••       | 11     | ••      | 25       | ••       |
| 3·31<br>3·32 | Building and repairing of ships and boats<br>Manufacture, assembly and repair of  | ••         | ••       | 262       | * • •     | ii     | ••      | 24       | ••       |
| -            | railway equipment, motor vehicles and bicycles. (Railway fitters are included in this group).   | ••         | ••       | 202       | ••        | ••     | ••      |          |          |
|              | Coach builders and makers of carriages,<br>palki, rickshaw, etc. and wheel wrights  | ••         | • •      | ••        | ••        | ••     | ••      | 1        | ••       |
| 3.4          | Electrical machinery, apparatus, appli-<br>ances and supplies   | ••         | ••       | 3         | • •       | 36     | ••      | ,        | ••       |
| 8-43         | Manufacture of electric wire and cable  | `          | • •      |           | ••        | 36     | ••      | ••       |          |
|              | Manufacture of electrical generating, transmission and distribution apparatus; electrical household appliances other than lights and fans; electrical equipment for motor vehicles, aircraft and railway locomotives and cars; communication equipment and related products, including radios, phonographs, electric batteries, X-Ray and therapeutic apparatus, electronic tubes, etc. | •••        | ••       | 3         | *,*1<br>/ |        | ••      | ••       | ••       |
| 3.5          | including Engineering Workshops. Engineering Workshops engaged in   | . <b>2</b> |          | 49        | ••        | 20     | ••      | 12       | ••       |
| 3.6          |   | ••         | ••       | 13        | ,         | 2      | ••      | 5        | ••       |
| 3.6          | power alchohol.  2 Dyes, explosives and fireworks   | _          |          | 13        |           | 2      |         | 5        |          |
| 8.7          |   | ••         | ••       | 10        |           |        | ••      | 1        | ••       |
| 3.8          |   | ••         | ••       | 1         |           | 3      | ••      | 15       | ••       |
| 3.8          | 1 Manufacture of perfumes, cosmetic and other toilet preparations.  | ••         | ••       | ••        | ••        | ••     | •• ,    | ••       | ••       |
| 3.8          | 2 Scape and other washing and cleaning compounds.   | ••         | ••       | 1         |           | ••     | ••      | 11       | ••       |
|              | 3 Paints, varnishes and lacquers and polishes.  | ••         | ••       | ••        | ••        | •• ·   | ••      | ••       | • •      |
| 3.8<br>3.8   | a G 11-   | • •        | ••       | • •       | • •       | ••     | • •     | 4        | ••       |
| 3.8          | ·   | ••         | ••       | ••        | ••        | 3      | ••      | •••      | ••       |
| 3.8          |   | ••         | ••       | ••        | ••        | ••     | ••      | ••       | ••       |

| Keo          | njhar   | P          | hulbani | Bole    | angir      | Sun           | dargarh    | Kal     | ahandi  | Mayu      | rbhanj     | Group                |
|--------------|---------|------------|---------|---------|------------|---------------|------------|---------|---------|-----------|------------|----------------------|
| Yales        | Females | Males      | Females | Males   | Females    | Males         | Females    | Males   | Females | Males     | Females    | Code<br>No.          |
| 30)          | (31)    | (32)       | ( 33 )  | (34)    | ( 35 )     | ( 36 )        | (37)       | (38)    | (39)    | (40)      | (41)       | ,1)                  |
| 803          | 1       | 723        | • •     | 1,189   | 110        | 1,188         | 146        | 688     | 274     | 1,745     | <b>609</b> | <b>D</b> n. 3        |
| 788          |         | 695        | • •     | 552     | 8 <b>9</b> | 692           | 62         | 647     | 244     | 1,324     | 423        | 3.0                  |
| 751          | ••      | 557        | ••      | 370     | 62         | 675           | 61         | 441     | 217     | 910       | 423        | 3.01                 |
| 34           | ••      | 138        | • •     | 182     | 27         | 17            | 1          | 193     | 27      | 414       | ••         | 3.02                 |
| 3<br>2       | 1       | ••         | ••      | 466     | 20         | 379           | 83         | 13<br>8 | 11      | 346       | 185        | 3·03<br>3·1          |
| 413          | ••      | ••         | ••      | 71      |            | • •           | ••         | 7       | ••      | 5         |            | <b>3·</b> 2          |
|              |         |            |         |         | ••         |               |            | •       | ••      | Ū         | _          |                      |
| 13           | ••      | 1          | ••      | 44      | 1          | 68<br>7       | 1          | 15      | 15      | <i>51</i> | · <b>1</b> | <i>8.3</i>           |
| 13<br>7<br>6 |         | ï          | ••      | 43      | ••         | 7<br>6        |            | 10      |         | 32        | -          | 3·31<br>3·32         |
|              |         |            |         |         |            |               |            |         |         |           |            |                      |
|              | ••      | ••         | ••      | 1       | 1          | 55            |            | S.      | 9       | 19        | 1          | 3.34                 |
|              | ••,     | 22         | ••      | 23      | ••         | 31            | ••         | ••      | 4       | 8         | ••         | <b>3-4</b>           |
| :            | • •     | 22         | • • •   | 23      | ••         | äi            | ••         | ••      | ••      |           | ••         | 3 <b>·43</b><br>3·40 |
|              |         |            |         |         |            |               |            |         |         |           |            |                      |
|              |         | ••         | .••     | 10      | •          | ••            |            | ,       | ••      | 5         | <b>©18</b> | 3-5                  |
| •            | •       | • •        | ••      | 2       | ••         | 4             | ••         | 9       | .:      | ••        | ••         | 3·6                  |
| • •          |         | ••         | ••      | 2       | ••         | 4             | ••         | 9       | ••      | ••        | ••         | 3-62                 |
|              | • •     | · <b>.</b> | ••      | 6<br>15 | ••         | 5<br><b>9</b> | ••         | ••      | ••      |           | ••         | 3·7<br>3·8           |
|              |         | • •        | • •     | ••      | • •        | • •           | <i>:</i> . | ••      | ••      |           | ••         | 3-81                 |
| • •          | ••      |            | ••      | 9       | • •        | ••            | • •        | 1       | ••      | ••        | ••         | 3.82                 |
| ••           | ••      | • •        | • •     | 6       | ••         | ••            | ••         | ••      | ••      | 6         | ••         | 3.83                 |
| • •          | • •     | ••         | ••      | ••      | •••        |               | ••         | ••      | ••      | ••        | ••         | 3.85                 |
| • •          | • •     | ••         | ••      | ••      | ••         |               | ••         | ••      | • •     | ••        | • •        | 3·8 <b>6</b><br>3·87 |
| • •          | • •     | 5          | • •     | ••      | ••         | ••            | ••         | ••      | ••      | ••        | ••         | 3.80                 |
|              |         |            |         |         |            |               |            |         | - •     | . ••      | ••         | ~ ~~                 |

| Group                       | Occupation  | _  | ORISSA               |                | Orissa I                 | 3·33<br>Inland Di     | ivision             | Orissa C                      | 5·11<br>coastal D         | ivision_        |
|-----------------------------|---|--|----------------------|----------------|--------------------------|-----------------------|---------------------|-------------------------------|---------------------------|-----------------|
| Code<br>Number              |   | Persons                                  | Males                | Females        | Persons                  |                       | Females             | Persons                       | Males                     | Female          |
| (1)                         | (2)   | (3)                                      | (4)                  | (5)            | (6)                      | (7)                   | (8)                 | (9)                           | (10)                      | (11             |
| Division 4                  | I. Processing and Manufacture—Not else—<br>where specified.   | 71,376                                   | 59,345               | 12,031         | 32,920                   | 27,176                | 5,744               | 38,456                        | 32,169                    | 6,287           |
| 4.0                         | Manufacturing industries otherwise un-<br>classified.   | 13,289                                   | 12,009               | 1,280          | 5,275                    | 4,789                 | 486                 | 8,014                         | 7,220                     | 79 <b>6</b>     |
| $4.02 \\ 4.03$              | Photographic and optical goods Repair and manufacture of watches and clocks.  | $\begin{array}{c} 21 \\ 258 \end{array}$ | 21<br>258            |                | 11<br>118                | 11<br>118             |                     | 10<br>140                     | 10<br>140                 |                 |
| 4.04                        | Workers in precious stones, precious<br>metals and makers of jewellery and<br>ornaments.  | 8,836                                    | 8,644                | 192            | 3,407                    | 3,336                 | 71                  | 5,429                         | 5,308                     | 121             |
| 4.05                        | Manufacture of musical instruments and appliances.  | 1,014                                    | 864                  | 150            | 493                      | 413                   | 80                  | 521                           | 451                       | 70              |
| 4.06                        | Stationery articles other than paper and paper products.  | 176                                      | 128                  | 48             | ••                       | ••                    | ••                  | 176                           | 128                       | 48              |
| 4·09<br>4·00                | Toy makers Other miscellaneous manufacturing industries, including bone, ivory, horn, shell, etc.   | 1,139<br>1,845                           | 635<br>1,459         | _              |                          |                       |                     |                               |                           |                 |
| 4.2                         | Bricks, tiles and other structural clay products.  Structural clay products such as bricks  | 2,177                                    | 1,920                | 257            | 909                      | 769                   | 140                 | 1,268                         | 1,151                     | 117             |
| 4.3                         | tiles, etc.  Cement—Cement pipes and other cement products.   |  |                      |                |                          |                       |                     |                               |                           |                 |
|                             | Manufacture of cement, cement pipes and cement concrete products.   | 59                                       | 50                   |                |                          |                       |                     |                               | ••                        | ••              |
| 4.4                         | Non-metallic mineral products   | 16,759                                   | 14,153               |                |                          |                       |                     |                               |                           |                 |
| 4·41<br>4·43                | Glass bangles, glass beads, glass neck-<br>laces, etc.  | 15,589<br>350                            | 13,079<br>308        |                |                          |                       |                     |                               |                           |                 |
| 4·44<br>4·40                | Makers of other glass and crystal ware Makers of other miscellaneous non-metalli mineral products and lime burners.   | 657<br>e <b>163</b>                      | 639 $127$            |                |                          |                       |                     |                               |                           |                 |
| 4·5<br>4·6                  | Rubber products   | 35,909                                   | 28,644               | 6<br>1 7,265   | 17,854                   | 13,941                | 1 3,913             | . 6<br>18,055                 |                           | • • •           |
| 4.61                        |   | 2,244                                    | 2,24                 |                |                          |                       |                     |                               |                           |                 |
| 4.62                        | D 7   | 15,444                                   |                      |                |                          |                       |                     |                               |                           |                 |
| 4·64<br>4·60                | Other industries of woody meterial, including leaves, but not including furniture or fixtures.  | 1,936                                    | 10,195<br>869        | 1,067          |                          |                       |                     |                               |                           |                 |
| 4.7                         | Furniture and fixtures Manufacture of household, office, public building, professional and restaurant furniture; office and store fixtures, screens, shades, etc., regardless of meterial used. | ;<br>•                                   | 1,17                 | 7 376          | 9 600                    | ) 57(                 | 9 36                | 947                           | 607                       | ' 3 <b>10</b>   |
| 4.8                         | Paper and paper products  Manufacture of paper and paper board and articles of pulp, paper and paper board.   | 1,088<br>·                               | 88                   | 7 201          | 1 1,085                  | 5 88±                 | 4 201               | ! 3                           | i é                       | 3               |
| 4·9<br>4·91<br>4·92         | Printing and allied industries Printers, lithographers, and engravers   | 450                                      | . 6                  | 3              | . 20                     | ) 20                  | 0                   | . 43                          | 4:                        | 3               |
| _lvisior<br>5·0             | 5. Construction and Utilities   | 35,754                                   |                      |                |                          |                       |                     |                               |                           |                 |
| 5·1<br>5·11<br>5·12<br>5·13 | Stone-cutters and dressers  | 3 12,555<br>1,679<br>1,570               | 9,89<br>1,67<br>1,49 | 7 2,658<br>9 7 | 3 3,000<br>. 568<br>3 53 | 2,07.<br>3 56<br>7 48 | 3 923<br>8 .<br>9 4 | 7 9,555<br>. 1,111<br>8 1,033 | 7,824<br>1,111<br>3 1,008 | 4 1,7 <b>31</b> |
|                             | Other persons engaged in the construction or maintenance of buildings other than buildings made of bamboo or similar materials.   | 9,164<br>1                               |                      |                |                          |                       |                     |                               |                           |                 |

| Ct                        | ittack                     | Ba                                    | lasore         | Puri                          | i                   | Samb                         | alpur              | Gar                         | jam                | Group                        |
|---------------------------|----------------------------|---------------------------------------|----------------|-------------------------------|---------------------|------------------------------|--------------------|-----------------------------|--------------------|------------------------------|
| Males                     | Females                    | Males                                 | Females        | Males                         | Females             | Males                        | Females            | Males                       | Females            | Code<br>Number               |
| (12)                      | (13)                       | (14)                                  | (15)           | (16)                          | (17)                | (18)                         | (19)               | (20)                        | (21)               | (1)                          |
| 13,322                    | 3,035                      | 2,123                                 | 400            | 8,640                         | 1,455               | 6,993                        | 1,688              | 8,326                       | 1,443              | Division 4                   |
| 2,891                     | 428                        | 488                                   | 191            | 2,681                         | 155                 | 1,268                        | 114                | 1,196                       | 23                 | 4.0                          |
| 97                        | ••                         | ·i                                    | ••             | 38                            | • •                 | 6<br>2                       | ••                 | 7<br>4                      | ••                 | 4·02<br>4·03                 |
| 1,662                     | ••                         | 452                                   | 79             | 2,086                         | 33                  | 950                          | 25                 | 1,144                       | 12                 | 4.04                         |
| 155                       | 34                         | 7                                     | 4              | 276                           | 32                  | 162                          | 27                 | 13                          | • •                | 4.05                         |
| 128                       | 48                         |                                       | ••             |                               | * *                 |                              | ••                 |                             | ••                 | 4.06                         |
| 70<br>776                 | 213<br>133                 | 5<br>23                               | 66<br>42       | 20<br>261                     | 11<br>79            | 35<br>113                    | 21<br>41           | 28                          | 11                 | 4·09<br>4·00                 |
| 276                       | 79                         | 34                                    | 26             | 406                           | . 12                | 82                           | 51                 | - 442                       | ••                 | 4.2                          |
|                           | ••                         |                                       | ••             | ••                            | ••                  | •                            | ••                 | ••                          |                    | 4.3                          |
| 4,096<br>3,429<br>72      | 1,210<br>1,177<br>15       | <i>599</i><br><b>531</b><br><b>44</b> | 66<br>57<br>9  | 1,597<br>1,572                | <i>5</i><br>5       | 1,090<br>994<br>96           | 164<br>160<br>4    | 1,835<br>1,831<br>4         | 389<br>389         | <b>4</b> ·4<br>4·41<br>4·43  |
| 595                       | 18                         |                                       | ••             | 25                            |                     | ••                           |                    |                             | • •                | 4.44                         |
| ••                        | ••                         | 24                                    | ••             | ••                            |                     | ••                           | ••                 | · ••                        | ••                 | 4.40                         |
| 6<br>5,253                | 990                        | 961                                   | 117            | 3,802                         | 1,266               | 3,369                        | 1,158              | 4,817                       | 1,009              | 4·5<br>4·6                   |
| 348<br>4,684<br>170<br>51 | 73<br>661<br>256           | 190<br>384<br>288<br>99               | 11<br>88<br>18 | 252<br>2,127<br>1,324<br>. 99 | 1,106<br>160        | 136<br>1,355<br>1,715<br>163 | 1,098<br>60        | 298<br>3,143<br>1,339<br>37 | 21<br>845<br>143   | 4.61<br>4.62<br>4.64<br>4.60 |
| 448                       | 318                        | 38                                    | ••             | 99                            | ••                  | 299                          | 2                  | 22                          | 22                 | 4.7                          |
|                           |                            |                                       |                |                               |                     |                              | •                  |                             |                    | ,•                           |
| 1                         | ••                         | ••                                    | ••             | 2                             | ••                  | 884                          | 199                | . ••                        | • •                | 4.8                          |
|                           |                            |                                       |                |                               |                     |                              |                    |                             |                    | •                            |
| <i>351</i><br>29          | 10                         | <i>3</i><br>3                         | ••             | <i>53</i><br>10               | 17                  | 1                            | ••                 | 14<br>1                     | ••                 | <i>4.9</i><br>4.91           |
| 322                       | io                         | ••                                    | ••             | 43                            | i7                  | 1                            | ••                 | 13                          | ••                 | 4.92                         |
| <b>4,235</b><br>1,058     | <b>1,797</b><br><i>157</i> | 1,292<br>52                           | 76<br>· ·      | <b>7,915</b><br>2,001         | 1,299<br><i>244</i> | <b>3,073</b><br><i>558</i>   | 1,589<br><i>65</i> | <b>3,675</b><br>164         | 1,315<br><i>55</i> | Divn. 5                      |
| 1,147<br>102<br>88        | 1,097                      | 669<br>174<br>28                      | 15<br>         | 4,375<br>233<br>466           | 475<br>             | 120<br>44<br>54              | 595<br>::          | 1,754<br>617<br>474         | 155<br><br>25      | <i>5·1</i><br>5·11<br>5·12   |
| 13<br>9 <b>44</b>         | 1,097                      | 467                                   | <b>i</b> 5     | 3,676                         | 475                 | 22                           | 595                | 663                         | 130                | · 5·13<br>5·10               |

| Group                          | Occupation  | A                | gency           | P                                      | lains                                     | Kor                                       | aput                                      | Dhenka   | anal            |
|--------------------------------|---|------------------|-----------------|--|---|---|---|--|-----------------|
| Code<br>Number                 | Occupation  | Males            | Females         | Males                                  | Females                                   | Males                                     | Females                                   | Males 1  | Females         |
| (1)                            | (2)   | (22)             | (23)            | (24)                                   | (25)                                      | (26)                                      | (27)                                      | (28)   | (29)            |
| Division                       | 4. Processing and Manufacture—Not else-<br>where specified.   | 242              | 46              | 8,084                                  | 1,397                                     | 2,497                                     | 416                                       | 3,258  | 559             |
| 4.0                            | Manufacturing industries otherwise un-<br>classified.   | 36               | 3               | 1,160                                  | 20  | 480                                       | 77  | 469  | 65              |
| $4.02 \\ 4.03$                 | Photographic and optical goods Repair and manufacture of watches and  | ••               | ••              | $\begin{matrix} 7 \\ 4 \end{matrix}$   | ••  | 19  | ••  | $\begin{array}{c} {\bf 3} \\ {\bf 24} \end{array}$ | ••              |
| 4.04                           | clocks.  Workers in precious stones, precious metals and makers of jewellery and ornaments.   | 36               | 3               | 1,108                                  | 9   | 323                                       | 7   | 275  | 11              |
| 4.05                           | Manufacture of musical instruments and appliances.  | ••               | ••              | 13                                     | • •                                       | 14  | 1   | 91   | ••              |
| 4.06                           | Stationery articles other than paper and paper products.  | ••               | ••              | ••                                     | • •                                       | • •                                       | ••  | ••   | ••              |
| 4.09                           | Toy makers  |                  | • •             | 28                                     | 11  | 120                                       | 68  | 8  | 30              |
| 4.00                           | industries, including bone, ivory, horn, shell, etc.  | ••               | ••              | ••                                     | ••  | 4   | 1   | 68   | 24              |
| 4.2                            | Bricks, tiles and other structural clay products.   |                  | •               | 405                                    |   |   |   |  |                 |
| 4.3                            | Structural clay products such as bricks, tiles, etc.  Cement—Cement pipes and other cement  | 7                | ••              | 435                                    | ••  | 44  | ••  | 35   | 2               |
|                                | products.  Manufacture of cement, cement pipes and  | ••               |                 | • •                                    |   |   |   |  | ••              |
|                                | cement concrete products.   | 20               | 10              | 1 700                                  | 270                                       | 012                                       | 7.00                                      | 010  | 4.4             |
| <i>4∙4</i><br>4∙41             | Non-metallic mineral products Potters and makers of earthen ware  | <i>69</i><br>69  | <i>13</i><br>13 | $\substack{1,766\\1,762}$              | $\begin{array}{c} 376 \\ 376 \end{array}$ | $\begin{array}{c} 613 \\ 613 \end{array}$ | $\begin{array}{c} 162 \\ 162 \end{array}$ | 812<br>777   | <i>44</i><br>44 |
| 4.43                           | Glass bangles, glass beads, glass neck-<br>laces, etc.  | ••               |                 | 4                                      |   |   |   | 3  | **              |
| 4.44                           | Makers of other glass and crystal ware  | • •              | • •             | ••                                     | • •                                       | • •                                       | • •                                       |  | • •             |
| 4·40<br>4·5                    | Makers of other miscellaneous non-metallic mineral products  Robber products  | ••               |                 | ••                                     | ••  | ••  | ••  | 32   |                 |
| 4.6                            | Wood and wood products other than furniture and fixtures.   | 130              | 30              | 4,687                                  | 979                                       | 1,209                                     | 177                                       | 1,885  | 448             |
| 4.61                           | Sawyers   | 5                | • •             | 293                                    | ::  | 21  | • •                                       | 63   | • •             |
| 4.62                           | Carpenters, turners and joiners   |                  | ::              | 3,135                                  | 21  | 416                                       | 170                                       | 380  | 1               |
| 4·64<br>4·60                   | Basket makers Other industries of woody meterial, including leaves, but not including furniture or fixtures.  | 111<br>6         | 11<br>19        | 1,228<br>31                            | 834<br>124                                | 761<br>11                                 | $\begin{array}{c} 173 \\ 4 \end{array}$   | 1,153<br>289                                       | 365<br>82       |
| 4•7                            | Furniture and fixtures Manufacture of household, office, public building, professional and restaurant furniture; office and store fixtures, screens, shades etc., regardless of | ••               | ••              | 22                                     | 22  | 138                                       | ••  | 7  | ••              |
| 4.8                            | meterial used.  Paper and paper products  Manufacture of paper and paper board and articles of pulp, paper and paper board.   | ••               |                 | ••                                     |   |   | ••  |  | ••              |
| $4 \cdot 9$                    | Printing and allied industries  |                  |                 | 14                                     | • •                                       | 13  |   | 50   |                 |
| $4.91 \\ 4.92$                 | Printers, lithographers, and engravers Book binders and stitchers   | ••               | ••              | $\begin{array}{c} 1 \\ 13 \end{array}$ | ••  | $\begin{array}{c} 1 \\ 12 \end{array}$    | ••  | 15<br>35   | ••              |
| <b></b>                        | A   | 400              |                 |  | 4 647                                     | 4 4 2 4                                   | A4F                                       | A#6  |                 |
| Division $\delta \cdot \theta$ | 5. Construction and Utilities<br>Construction and maintenance of works—<br>otherwise unclassified   | 188<br><i>13</i> | 70<br><i>4</i>  | <b>3,487</b><br><i>151</i>             | 1 <b>,245</b><br><i>51</i>                | <b>1,153</b><br><i>130</i>                | 215                                       | <b>672</b><br>86                                   | 228             |
| <b>5</b> ·1                    | Construction and maintenance—buildings  | 121              | 11              | 1,633                                  | 144                                       | 528                                       | 113                                       | 55   | 4               |
| 5·11<br>5·12                   | Masons and bricklayers Stone-cutters and dressers   | 15<br>48         | ••              | 602<br>426                             | 25  | 251<br>58                                 | ••  | 38<br>5  | ••              |
| 5·13<br>5·10                   | Painters and decorators of house  Other persons engaged in the construction or maintenance of buildings other than buildings made of bamboo or similar meterials.               | 58               | ii              | 605                                    | 119                                       | 219                                       | 113                                       | i2   | <br>4           |

| Keon            | njhar     | Phu               | lbani     | Bol                                   | angir                   | Sunda             | rgarh           | Kala                | handi      | Mayu         | rbhanj       | Group<br>Code         |
|-----------------|-----------|-------------------|-----------|---------------------------------------|-------------------------|-------------------|-----------------|---------------------|------------|--------------|--------------|-----------------------|
| Males           | Females   | Males             | Females   | Males                                 | Femnles                 | Males             | Females         | Males               | Females    | Males F      | emales       | Number                |
| (30)            | (31)      | (32)              | (33)      | (34)                                  | (35)                    | (36)              | (37)            | (38)                | (39)       | (40)         | (41)         | (1)                   |
| 2,608           | 305       | 1,781             | 301       | 3,600                                 | 424                     | 1,723             | 294             | 1,108               | 613        | 3,366        | 1,098        | Divn. 4               |
| <i>551</i>      | 20        | 347               | ••        | 1,103                                 | 26                      | 85                | 32              | 130                 | 96         | 820          | 53           | 4.0                   |
| ••              | ••        | ·:<br>2           | ••        | <br>46                                | • •                     | 8                 | ••              | 2<br>4              | • • •      | 13           | ••           | 4·02<br>4·03          |
| 286             | •.•       | 267               | ••        | 846                                   | 3                       | <b>54</b>         | 3               | 77                  | . 5        | . 222        | 14           | 4.04                  |
| 7               | . ••      | 28                | • •       | •                                     | ••                      | 12                | 11              | 14                  | 2          | 85           | 39           | 4.05                  |
| ••              | ••        | ••                | ••        |                                       | ••                      | ••                | ••              | ••                  | ••         | ••           | •••          | 4.06                  |
| 162<br>96       | 20        | 23<br>27          | ••        | 145<br>66                             | 21<br>2                 | ii                | 4<br>14         | 19<br>14            | 39<br>50   | ••           | ••           | 4·09<br>4·00          |
|                 |           |                   |           |                                       |                         |                   |                 |                     |            | •            |              |                       |
| 9€              | 17        | 15                | 7         | 248                                   | 23                      | 64                | 11              | <i>156</i>          | 8          | 22           | 21           | 4.2                   |
| •               |           |                   |           |                                       |                         |                   |                 |                     |            | •            |              | 4.0                   |
| ••              | ••        | ••                | • •       | ••                                    | • •                     | 36                | 9               | 14                  | ••         | ••           | ••           | 4.3                   |
| 330<br>327<br>3 | ••        | 533<br>531<br>2   | ••        | <i>834</i><br>750<br>84               | <i>140</i><br>126<br>14 | <i>530</i><br>530 | <i>95</i><br>95 | 369<br>298          | 146<br>110 | 915<br>896   | 185<br>185   | 4·4<br>4·41<br>• 4·43 |
| ••              | ••        |                   | ••        |                                       | ••                      | ••                |                 |                     | ••         | 19           |              | 4.44                  |
| ••              | • •       | • •               | • •       | ••                                    | ••                      | ••                | • •             | 71                  | 36         | •••          | •••          | 4.40                  |
| 1,631           | 268       | 886               | 294       | 1,409                                 | 231                     | 919               | 120             | 407                 | 349        | 2,096        | 838          | 4·5<br>4·6            |
| 217             | 4         | - 98              | • •       | 85                                    | ••                      | 82                | ••              | 76                  | • •        | 374          | • •          | 4.61                  |
| 370<br>1,044    | 264       | 409<br><b>379</b> | 294       | 565<br>759                            | 231                     | 585<br>229        | 107             | 184<br>147          | 331        | 736<br>889   | 525          | 4·62<br>4·64          |
| ••              | ••        |                   | ••        | ••                                    | ••                      | 23                | 13              | ••                  | 18         | 97           | 313          | 4.60                  |
| ••              | ••        | ••                | ••        | ••.                                   | ••                      | 89                | 27              | 30                  | ••         | 7            | 1.           | 4.7                   |
|                 |           |                   | ·         | . '                                   |                         |                   |                 |                     |            | •            |              | 1                     |
| ••              | ••        | ••                | ••        | ••                                    | 2                       |                   | ••              | ••                  | ••         | ••           | ••           | 4.8                   |
|                 |           |                   |           |                                       |                         |                   |                 | , .                 |            |              |              |                       |
| ••              | ••        | ••                | ••        | 6                                     | . <b>2</b>              | ••                | • •             | 2                   | 14         | 6            | ••           | 4.9                   |
| ••              | ••        | ••                | • • •     | $\begin{array}{c} 2 \\ 4 \end{array}$ | •••                     | . ••              | ••              | •                   | ii<br>14   | 2<br>4       | ••           | 4·91<br>4·92          |
| <b>337</b> 52   | 177<br>31 | 1,124<br>289      | 380<br>72 | 996<br><i>375</i>                     | 246<br>56               | <b>728</b><br>299 | 174<br>13       | 1,229<br><i>410</i> | 440<br>134 | 1,100<br>498 | 289 1<br>126 | Divn.5<br>5∙0         |
| 62<br>3         | 43        | 604               | 26        | 85                                    | 2                       | 88                | 19              | 254                 | 93         | 156          | 21           | 5·1                   |
| <b>3</b><br>25  | 21        | 53<br>196         | ••        | 41<br>26                              | •••                     | . 20<br>14        | ••              | 40<br>51            | 25         | 63<br>12     | ••           | 5·11                  |
| 13              | 7         | 23                | • •       | 18                                    | ••                      | • •               | ::              | 24                  | 1          | 31           | 12           | 5·12<br>5·13          |
| 21              | 15        | 332               | 26        | ••                                    | ••                      | 54                | 19              | 139                 | 67         | 50           | 9            | 5.10                  |

| Group               | 0  |                        | ORISSA          |          | Orissa I              | 3·33<br>nland I | Division | 5·11<br>Orissa Coastal Division |                     |                |
|---------------------|--|------------------------|-----------------|----------|-----------------------|-----------------|----------|---------------------------------|---------------------|----------------|
| Code<br>No.         | Occupation   | Persons                | Males           | Females  | Persons               | Males           | Females  | Persons                         | Males :             | Females        |
| (1)                 | (2)  | (3)                    | (4)             | (5)      | (6)                   | (7)             | (8)      | ([9)                            | (10)                | (11)           |
| 5•2                 | Construction and maintenance—Roads, bridges and other transport works.   | 4,200                  | 3,903           | 3 297    | 2,433                 | 2,268           | 2 171    | 1,767                           | 1,641               | 126            |
| 5.3                 | Construction and maintenance—Telegraph and telephone lines.  |                        |                 |          | 282                   | 282             |          | 196                             | 196                 | ••             |
| 5.4                 | Construction and maintenance operations—<br>Irrigation and other agricultural works.   | 4,123                  | 2,659           | •        | 2,530                 | 1,468           | -        | 1,593                           | 1,191               | 402            |
| 5·5                 | Works and services—Electric power and gas supply.  | 347                    | 348             |          | 172                   | 172             |          | 175                             | 171                 | 4              |
| 5·51<br><i>5</i> ·6 | Electric supply Works and Service—Domestic and industrial water-supply.  | 347<br><i>360</i>      | 343<br>274      |          | 172<br><i>175</i>     | 172<br>112      |          | 175<br>185                      | 171<br><i>162</i>   | 23             |
| 5-7                 | Sanitary works and services—Including scavengers.  | 6,766                  | 4,003           | 2,763    | 2,605                 | 1,521           | 1,084    | 4,161                           | 2,482               | 1,679          |
| Division (          | B. Commerce  | 138,539                | 104,694         | 33,845   | 47,035                | 36,373          | 3 10,662 | 91,504                          | 68,321              | 23,183         |
| 6·01                | Retail trade otherwise unclassified Hawkers and street-venders otherwise unclassified.   | 43,186<br>6,248        | 32,791<br>3,536 |          | 16,218<br>2,499       | 13,079<br>1,528 |          | 26,968<br><b>3,74</b> 9         | 19,712<br>2,008     | 7,256<br>1,741 |
| 6·02<br>6·03        | Dealers in drugs and other chemical stores<br>Publishers, booksellers and stationers   | 756<br>3,523           |                 |          | 317<br>1,476          | 312<br>1,384    |          | 439<br>2,047                    | $\frac{436}{1,779}$ | 3<br>268       |
| 6.00                | General storekeepers, shopkeepers and<br>persons employed in shops otherwise<br>unclassified.  | 32,659                 |                 |          | 11,926                | 9,85            |          | 20,733                          | 15,489              | 5,244          |
| 6.1                 | Retail trade in foodstuffs (including beverages and narcotics).  | •                      | 40,162          | 2 13,155 | 17,180                | 12,790          | •        | 36,137                          | 27,372              | 8,765          |
| 6-11                | Retail dealers in grain and pulses; sweet-<br>meats, sugar and spices, dairy products<br>eggs and poultry; animals for food<br>fodder for animals; other foodstuffs,<br>vegetables and fruits.   | •                      | 28,510          | 10,429   | 12,066                | 8,671           | 3,395    | 26,873                          | 19,839              | 7,034          |
|                     | Venders of wine, liquors, aerated water<br>and ice in shops.   | •                      |                 |          | 402                   | 389             |          | 602                             | 589                 | 13             |
| 6·13<br>6·14        | Retail dealers in tobacco, opium and ganja<br>Hawkers and street-venders of drink and<br>foodstuffs.   |                        | 2,87            | 3 1,225  | 604<br>827            | 573<br>612      | 2 215    | 554<br>3,271                    | 541<br>2,261        | 13<br>1,010    |
| 6·15<br><i>6·2</i>  | Retail dealers in pan, bidis and cigarettes Retail trade in fuel (including petrol)  | 8,118<br><i>14,355</i> |                 |          | 3,281<br><i>3,859</i> | 2,545<br>2,684  |          | 4,837<br><i>10,496</i>          | 4,142<br>5,470      | 695<br>5,026   |
| 6·21<br>6·20        | Petroleum distributors Retail dealers (including hawkers and street-venders) in firewood charcoal, coal, cow dung and all other fuel except petroleum.   | 454<br>13,901          | 44              | 9 5      | 92<br>3,767           | 2,597           | 7 5      | 362<br>10,134                   | 362<br>5,108        | 5,026          |
| 6.3                 | Retail trade in textile and leather goods. Retail trade (including hawkers and street venders) in piece goods, woll, cotton, silk, hair, wearing apparel, made-up textile goods, skin, leather, furs, feathers, etc.                       | 7,2 <b>49</b>          | 6,75            | 7 492    | 3,113                 | 2,91            | 3 200    | 4,136                           | 3,844               | 292            |
| 6.4                 | Wholesale trade in foodstuffs.  Wholesale dealers in grains and pulses, sweetmeats, sugar and spices dairy products, eggs and poultry animal for food, fodder for animals, other foodstuffs, wholesale dealer in tobacco, opium and ganja. | •                      | 4,334           | 4 1,825  | 2,304                 | 1,252           | 2 1,052  | 3,855                           | 3,082               | 773            |
| 6·5<br>6·6          | W holesale trade in commodities other than foodstuffs Real Estate  | 9,686                  | 8,44            | 7 1,239  | , 3 <b>,6</b> 55      | 3,117           | 7 538    | 6,031                           | 5,330               | 761            |
| 6.7                 | House and estate agents and rent collector except agricultural land.  Insurance  | 352                    | 230             | 6 116    | 122                   | 71              | 51       | 230                             | 165                 | 65             |
| <b>0-1</b>          | Insurance carriers and all kinds of insurance agents and other persons connected with nsurance business.   | 67                     | 62              | 3        | 10                    | 10              | •        | 57                              | <b>5</b> 2          | 5              |

| Cuttack                        |                           | Balasore             |                    | P                             | uri                   | Saml                    | alpu <b>r</b>     | Gar                           | ojam                  | Group<br>Code               |
|--------------------------------|---------------------------|----------------------|--------------------|-------------------------------|-----------------------|-------------------------|-------------------|-------------------------------|-----------------------|-----------------------------|
| Males                          | Females                   | Males                | Females            | Males                         | Females               | Males                   | Females           | Males                         | Females               | Nc.                         |
| (12)                           | (13)                      | (14)                 | (15)               | (16)                          | (17)                  | ! 18)                   | (19)              | (20)                          | (21)                  | (1)                         |
| 192                            | 126                       | 162                  | ••                 | 254                           | • •                   | 918                     | 27                | 636                           |                       | <b>5</b> ·2                 |
| 108                            | ••                        | 14                   |                    | 25                            |                       | 36                      | ••                | 49                            | ••                    | 5.3                         |
| 455                            | 120                       | 242                  | 36                 | 196                           | 58                    | 872                     | 497               | 313                           | 216                   | 5.4                         |
| 85                             | 4                         | 17                   | ••                 | 56                            | ••                    | 48                      | ••                | 13                            | ••                    | 5.5                         |
| 85<br>77                       | 4<br>6                    | 17<br>25             | 6                  | 56<br>36                      | •••                   | 48<br><i>41</i>         | 30                | 13<br>24                      |                       | 5·51<br>5·6                 |
| 713                            | 287                       | 111                  | 19                 | 972                           | <i>518</i>            | 480                     | 375               | 722                           | 882                   | 5.7                         |
| 23,447                         | 8,807                     | 5,875                | 1,587              | 16,913                        | 4,124                 | 6,621                   | 2,931             | 24,662                        | 9,056                 | Division.6                  |
| 5,257<br>948                   | 1,915<br>866              | 2,057<br>233         | 437<br>216         | 3,980<br>515                  | 1,243<br>568          | 2,513<br>150            | 690<br>221        | 9,172<br>343                  | 3,853<br>133          | 6·0<br>6·01                 |
| 47<br>234<br>4,028             | 1,049                     | 168<br>242<br>1,414  | <br>55<br>166      | 86<br>904<br>2,475            | 140<br>535            | 74<br>419<br>1,870      | 22<br>447         | 135<br>399<br>8,295           | 3<br>73<br>3,644      | 6·02<br>6·03<br>6·00        |
| 8,516                          | 4,061                     | 2,594                | 792                | 7,858                         | . 1,356               | 2,224                   | 883               | 8,952                         | 2,647                 | 6.1                         |
| 5,072                          | 3,349                     | 2,041                | 702                | 6,173                         | 881                   | 1,312                   | 596               | 7,021                         | 2,184                 | 6-11                        |
|                                |                           |                      |                    |                               | •                     |                         |                   |                               |                       |                             |
| 27                             | ••                        | 92                   | 5                  | 154                           | ••                    | 90                      |                   | 316                           | 8                     | 6.12                        |
| 171<br>1,451                   | 530                       | 19<br>29             | ••                 | 176<br>437                    | 329                   | 218<br>120              | 18<br>36          | 175<br>357                    | 13<br>155             | 6·13<br>6·14                |
| 1,795<br>1,582<br>341<br>1,241 | 182<br>1,379<br><br>1,379 | 413<br>81<br>2<br>79 | 85<br>85<br><br>95 | 918<br><i>971</i><br>5<br>966 | 146<br>1,339<br>1,339 | 484<br>236<br>13<br>223 | 233<br>152<br>152 | 1,083<br>3,526<br>14<br>3,512 | 287<br>2,331<br>2,331 | 6·15<br>6·2<br>6·21<br>6·20 |
| 1,716                          | 155                       | 280                  | 19                 | 863                           | ••                    | 570                     | 94                | 1,170                         | 118                   | 6·3                         |
| 1,187                          | <i>52<b>1</b></i>         | 222                  | 160                | 1,265                         | 56                    | 371                     | 735               | 526                           | 36                    | 5·4                         |
| <b>2</b> ,06 <b>6</b>          | 472                       | 61 <i>0</i>          | 61                 | 1,786                         | 116                   | 570                     | 282               | 1,112                         | 52                    | 7-5                         |
| 132                            | 50                        | 1                    | 15                 | 31                            | ••                    | 35                      | 32                | 1                             |                       | · <b>6</b>                  |
| 15                             | ••                        | ••                   | ••                 | 12                            | 4                     | ••                      | ••                | 26                            | ,                     | .7                          |

# APPENDIX III

| Group               | 0   | Ag    | ency       | Pla         | ains        | Kor                | sput       | Dhenkanal      |          |  |
|---------------------|---|-------|------------|-------------|-------------|--------------------|------------|----------------|----------|--|
| Code<br>No.         | Occupation  | Males | Females    | Males       | Females     | Males              | Females    | Males          | Females  |  |
|                     |   |       | I CHISIAGO | <b>A</b>    | T CHIMICS   | DIAZOG             | T CITIEROS | BURICE         | L emrica |  |
| (1)                 | (2)   | ( 22) | ( 23 )     | ( 24 )      | (25)        | ( 26 )             | (27)       | ( 28 )         | ( 29 )   |  |
| 5.2                 | Construction and maintenance—Roads,<br>bridges and other transport works  | . 4   |            | 633         | B           | 145                |            | 76             | ••       |  |
| 5.3                 | Construction and maintenance—Telegraph and telephone lines.   | • •   | • ••       | 49          | •           | 15                 | • •        | 62             | ••       |  |
| 5.4                 | Construction and maintenance operations—<br>irrigation and other agricultural works.  | 18    | . 28       | 298         |             | 73                 | . 56       | 122            | 66       |  |
| 5.5                 | Works and services—Electric power and gas supply.   | • •   | • ••       | 13          | •           | 25                 | ••         | 28             | ••       |  |
| 5·51<br><i>5</i> ·6 | Electric supply Works and Services—Domestic and indus- rial water-supply.   | • •   | • ••       | 13<br>24    |             | 25<br>20           | ••         | 28<br><b>4</b> |          |  |
| <b>5</b> ·7         | Sanitary works and services—Including scavengers.   | 3     | 6 27       | 686         | 855         | 217                | 46         | 239            | 156      |  |
| Division            | S. Commerce   | 2,576 | 391        | 22,086      | 8,665       | 5,434              | 908        | 3,536          | 1,151    |  |
| 6-0                 | Retail trade otherwise unclassified   | 754   | 192        | 8,418       | 3,661       | 1,951              | 218        | 1,327          | 198      |  |
| 6.01                | classified.   | 31    | 42         | 312         |             | 34                 | 5          | 25             | 27       |  |
| 6.03                | Dealers in drugs and other chemical stores Publishers, booksellers and stationers   | • •   |            | 135<br>399  |             | 18<br>102          | • •        | 44<br>357      | 28       |  |
| 6.00                | General storekeepers, shopkeepers and persons employed in shops otherwise unclassified.   | 723   |            | 7,572       |             | 1,797              | 213        | 901            | 143      |  |
| 6.1                 | Retail trade in foodstuffs (including beverages and narcolics).   | 548   | 91         | 8,404       | 2,556       | 1,247              | 235        | 1,069          | 544      |  |
| 6-11                | Retail dealers in grain and pulses; sweet-<br>meats, sugar and spices, dairy products,<br>eggs and poultry; animals for food;<br>fodder for animals; other foodstuffs,<br>vegetables and fruits.                          | 468   | 82         | 6,553       | 2,102       | 1,015              | 199        | 723            | 505      |  |
|                     | Venders of wine, liquors, aerated water<br>and ice in shops.  | ••    | ••         | 316         |             | 50                 | ••         | 109            | 4        |  |
|                     | Retail dealers in tobacco, opium and ganja<br>Hawkers and street-venders of drink and<br>foodstuffs.  | 13    | 4          | 175<br>344  |             | 80                 |            | 24<br>3        |          |  |
| 6.15                | Retail dealers in pan, bidis and cigarettes   | 67    |            | 1,016       |             | 102                | 33         | 210            | 34       |  |
| 6.2                 | Retail trade in fuel (including petrol)   | 690   | 108        | 2,836<br>14 |             | <i>1,257</i><br>11 | 447        | <i>65</i><br>1 | 194      |  |
| 6·21<br>6·20        | Petroleum distributors Retail dealers (including hawkers and street-venders) in fire wood charcoal, coal,   | 690   | 108        | 2,822       |             | 1,246              | 447        | 64             | 194      |  |
| 6.3                 | oow dung and all other fuel except<br>petroleum.<br>Retail trade in textile and leather goods   |       |            |             |             |                    |            |                |          |  |
| 0.9                 | Retail trade (including hawkers and street-<br>venders) in piece goods, wool, cotton,<br>silk, hair, wearing apparel, made-up<br>textile goods, skin, leather, furs, fea-<br>thers, etc.                                  | 215   | • • · · .  | 955         | 118         | 559                | 2          | 192            | 12       |  |
| 6.4                 | Wholesale trade in foodstuffs Wholesa's dealers in grains and pulses, sweetmeats, sugar and spices dairy products, eggs and poultry animal for food, fodder for animals, other food- stuffs, wholesale dealer in tobacco, | 118   | ••         | 408         | 3 <b>36</b> | 122                | ••         | 120            | 119      |  |
| 6.5                 | opium and ganja.  Wholesals trade in commodities other than foodstuffs  | 244   | ••         | 868         | 8 52        | 236                | 6          | 727            | 84       |  |
| 6.6                 | Real Estate House and estate agents and rent collec- tors except agricultural land.   | ••    | ••         | į           | <i>.</i>    | 7                  | ••         | 2              | ••       |  |
| 6-7                 | Insurance carriers and all kinds of insurance agents and other persons connected with insurance business.   | 1     | ••         | 25          | 5 1         | ••                 | ••         | ••             | ••       |  |

| Keor           | ijhar             | Phulbani          |                   | Bola         | Bolangir    |                  | Sundargarh      |             | andi      | Mayurbhanj |           | Group        |
|----------------|-------------------|-------------------|-------------------|--------------|-------------|------------------|-----------------|-------------|-----------|------------|-----------|--------------|
| Males          | Females           | Males             | Females           | Males        | Females     | Males            | Females         | Males       | Females   | Males      | Females   | Code<br>No.  |
| (30)           | (31)              | (32)              | ( 33 )            | (34)         | ( 35 )      | (36)             | (37)            | ( 38 )      | ( 39 )    | (40)       | (41)      | (1)          |
| 51             | ••                | 114               | 48                | 288          | 32          | 219              | 27              | 232         | ••        | 216        | 37        | 5.2          |
| 14             |                   | 13                | • •               | <b>36</b>    | ••          | 11               | •               | 52          | ••        | 43         |           | 5.3          |
| 96             | 85                | 56                | 73                | 72           | 38          | 34               | 51              | 85          | 110       | 43         | 58        | 5· <b>4</b>  |
| 6              | •• ′              | 3                 | ••                | 18           | ••          | 27               | ••              | 7           | ••        | 10         | ••        | 5.5          |
| 6              | •:                | 3                 | ••                | 18           | •:          | 27               | •:              | 7           |           | 10         | • •       | 5.51         |
| 3              | 6                 | ••                | ••                | . 6          | 8           | 10               | 8 .             | 13          | 6         | 15         | 4         | 5.6          |
| 53             | 12                | 45                | 161               | 116          | 110         | 40               | 56              | 176         | 98        | 119        | 43        | 5.7          |
| 1,443          | 337               | 4,362             | 899               | 3,826        | 1,418       | 1,943            | 498             | 3,639       | 1,442     | 2,993      | 687       | Divn. 6      |
| 617            | <i>131</i><br>120 | 1,236<br>43       | 250<br>58         | 1,137<br>662 | 498<br>316  | 868<br>38        | 113             | 1,401       | 519       | 1,275      | 330       | 6.0          |
| 337            |                   |                   |                   |              |             |                  | 44              | 117         | 69        | 69         | 91        | 6.01         |
| 105<br>104     | . · ·             | 8<br>38           | 12                | 29           | <b>i</b> 7  | 14<br>114        | ii              | 23<br>108   | 2         | 26<br>113  | ••        | 6·02<br>6·03 |
| 71             | 6                 | 1,147             | 180               | 446          | 165         | 702              | 58              | 1,153       | 448       | 1,045      | 261       | 6.00         |
| 501            | 145               | 2,356             | 602               | 1,434        | 728         | 823              | 247             | 1,593       | 664       | 995        | 251       | 6.1          |
| 395            | 129               | 1,570             | 464               | 1,276        | 678         | <b>594</b>       | 167             | 808         | 388       | 510        | 187       | 6.11         |
|                |                   |                   |                   | •            |             |                  |                 | •           |           |            | •         | •            |
| 14             | ••                | 23                | ••.               | 7            | ••          | 17               |                 | 64          | 3         | 15         | 6         | 6-12         |
| ´ 21           | 7                 | 120               |                   | 14           | ••          | 48               | ••              | 19          | 2         | 29         | ••        | 6.13         |
| ••             | ••                | 415               | 125               | ••           | ••          | 8                | 42.             | ••          | ••        | 53         | 8         | 6.14         |
| 71<br>73       | 9<br><i>61</i>    | 228<br><i>102</i> | 13<br>' <i>46</i> | 137<br>80    | 50<br>47    | 156<br><i>23</i> | 38<br><i>15</i> | 702<br>- 85 | 271<br>95 | 388<br>73  | 50<br>10  | 6·15<br>6·2  |
| 73             | 61                | 102               | 46                | 7<br>73      | 47          | 23               | 15<br>15        | 24<br>61    | 5<br>90   | 31         | •••       | 6.21         |
| 10             | . 01              | 102               |                   | 10           | 41          | 23               | 19              | 01          | 90        | 42         | 10        | 6.20         |
| N <sub>1</sub> |                   |                   |                   |              |             |                  |                 |             | •         |            | ,         |              |
| 166            | ••                | 281               | 1                 | <i>£62</i>   | 28          | 127              | 5               | 281         | 37        | 260        | 21        | 6.3          |
| 43             |                   | 179               |                   | 21           | 27          | 18               | 40              | 100         |           | 100        | ,         |              |
|                | •• ,              | 110               | . ••              | 21           | 21          | 10               | 46              | 100         | 91        | 160        | <b>34</b> | 6· <b>4</b>  |
| 33             |                   | 205               | ••                | 746          | <i>83</i> ` | 81               | 32              | 103         | 25        | 172        | 26        | 6.5          |
|                |                   |                   |                   |              |             | _                | -               |             |           |            |           | •            |
| •              | • 6. ,            | • •               | • •               | 1            | ••          | · 2              |                 | 19          | 10        | 5          | 9         | 6.6          |
| ••             | ••                | ••                | • •               | ••           | ••          | 97.0             |                 | 9           | • • •     | ••         | سه        | 6-7          |

| Group<br>Code  |  | ORISSA         |                |             | Orissa           | 3·33<br>Inland I    | Division_ | 5-11<br>Orissa Coastal Division |               |             |  |
|----------------|--|----------------|----------------|-------------|------------------|---------------------|-----------|---------------------------------|---------------|-------------|--|
| Numbe          |  | Persons        | Males          | Females     | Persons          | Males               | Females   | Persons                         | Males         | Females     |  |
| (1)            | (2)  | (3)            | (4)            | (5)         | (6)              | (7)                 | (8)       | (9)                             | (10)          | (11)        |  |
| 6-8            | Moneylending, banking and other financial business.  | 4,168          | 3,751          | 417         | 574              | 457                 | 117       | 3,594                           | 3,294         | 300         |  |
|                | Officers, employees of joint stock banks<br>and co-operative banks, munims, agents<br>or employees of indigenous banking<br>firms, individual money lenders, ex-<br>changers and exchange agents, money<br>changers and brokers and their agents.  |                |                |             |                  |                     |           |                                 |               |             |  |
| DNA. 7.<br>7.0 | Transport, Storage and Communications  Transport and communications otherwise unclassified and incidental services.  Transport by road   | 25,900<br>913  | 24,508<br>864  | 1,392<br>48 | 9,410<br>643     | 9,037<br><i>621</i> | 373<br>22 | 1 <b>6,490</b><br>269           | 15,471<br>243 | 1,019<br>26 |  |
|                | Owners, managers and employees con-<br>nected with mechanically driven and<br>other vehicles (excluding domestic<br>servant) palki, etc., bearers and owners,<br>pack elephant, camel, mule, ass and<br>bullock owners and drivers, porters and<br>messengers, persons engaged in road<br>transport not otherwise classified includ- | 8,851          | 8,420          | 431         | <b>3,</b> 052    | 2,974               | 78        | 5,799                           | 5,416         | 353         |  |
| 7-2            | ing freight transport by road, the opera-<br>tion of fixed facilities for road transport<br>such as toll roads, highway bridges,<br>terminals and parking facilities.<br>Transport by water  |                |                |             |                  |                     | ,         |                                 |               |             |  |
|                | Owners and employees, officers, mariners, etc., of ship plying on the high seas, ships and boats plying on inland and coastal waters, persons employed in harbours, docks, rivers and canals, including pilots, ship brokers.  | 2,590          | 2,438          | 152         | 659              | 621                 | 38        | 1,931                           | 1,817         | 114         |  |
| 7.3            | Transport by Air Persons concerned with air fields and aircrefts other than construction of airfields and air ports.   | 39             | <b>39</b>      |             | 5                | 5                   | ••        | 34                              | 34            | ••          |  |
| 7-4            | Railway transport Railway employees of all kinds exceept those employed in manufacture, assembly or repair of railway equip- ment and those employed on construc- tion works.  | 9,948          | 9,338          | 610         | 3,426            | 3,279               | 147       | 6,522                           | 6,059         | 463         |  |
| -              | Railway employees of all kinds except those employed on construction work.   | 6,861          | 6,261          | 600         | 2,412            | 2,266               | 146       | 4,449                           | 3,995         | 454         |  |
|                | Railway porters  | 3,163          | 3,153          | 10          | 1,090            | 1,089               | 1         | 2,073                           | 2,064         | 9           |  |
|                | The operation of storage facilities such as warehouse, cold storage, safe deposits when such storage is offered as an independent service.   | 848            | 704            | 144         | 564              | 476                 | 88        | 284                             | 228           | 56          |  |
|                | Postal services  | 2,332          | 2,330          | 2           | 884              | 884                 | ••        | 1,448                           | 1,446         | 2           |  |
| 7·7<br>7·8     | Telegraph Services Telephone Services  | 73<br>151      | 73<br>146      | · <b>.</b>  | 18<br>7 <b>1</b> | 18<br>71            | • •       | 55<br>80                        | 55<br>75      | · <b>.</b>  |  |
| 7.9            | Wireless Services  | 156            | 156            | ••          | 88               | 88                  | ••        | 68                              | 68            | ••          |  |
| Diagrica &     | B. Health, Education and Public Adminis-<br>tration  | 59,909         | 55,458         | 4,451       | 24,552           | 23,667              | 885       | 35,357                          | 31,791        | 3,566       |  |
| 8.1            | Medical and other health services  | 6,957          | 5,864          | 1,093       | 2,649            | 2,343               | 306       | 4,308                           | 3,521         | 787         |  |
|                | Registered medical practitioners   | 1,421<br>1,958 | 1,418<br>1,953 | . 3<br>5    | 655<br>836       | 65 <b>4</b><br>836  | 1         | 766<br>1,122                    | 764<br>1,117  | 2<br>5      |  |
|                | Vaids, Hakims and other persons practising medicine without being registered.  | •              | •              |             |                  |                     |           | •                               | -             | J           |  |
|                | Dentists   | 10<br>389      | 10             | 389         | 4<br>140         | 4                   | 140       | 6<br>249                        | 6             | 249         |  |
|                | Midwives Vaccinators   |                | 220            | ••          | 94               | 94                  | 140       | 126                             | 126           |             |  |
|                | Compounders  | 1,160          | 1,160          | • •         | 368              | 368                 |           | 792                             | 792           | ••          |  |
| 8-17           | Nurses   | 555            | 24             | 531         | 124              | 9<br>38             | 115       | 431<br>40                       | 15<br>40      | 4           |  |
| 8.18           | Veterinary Services  | 76             | 76             | ••          | 36               | 36                  | ••        | 40                              | 20            | ••          |  |

| Cut                    | Cuttack          |                         | asore        | P                    | uri          | Saml                 | alpur             | Gar                 | ijam          | Group<br>Code                        |
|------------------------|------------------|-------------------------|--------------|----------------------|--------------|----------------------|-------------------|---------------------|---------------|--------------------------------------|
| Males                  | Females          | Males                   | Females      | Males                | Females      | Males                | Females           | Males               | Females       | Number                               |
| (12)                   | (13)             | (14)                    | (15)         | (16)                 | (17)         | (18)                 | (19)              | (20)                | (21)          | (1)                                  |
| 2,946                  | 254              | 30                      | 18           | 147                  | 10           | 102                  | 63                | 177                 | 18            | 6.8                                  |
| 6,110<br><i>62</i>     | <b>526</b><br>26 | 2,183                   | 192          | 4,003<br>174         | 119          | 2,550<br>1           | <b>94</b><br>5    | 3,189<br>7          | 182           | Dn. 7                                |
| 0.2                    | 20               | ••                      | ••           | 1/#                  | * *          |                      | J                 | ,                   | ••            | 7.0                                  |
| 2,184                  | 111              | 734                     | 97           | 1,117                | 83           | 1,011                | 17                | 1,411               | 62            | 7-1                                  |
|                        | ·                |                         |              |                      |              |                      |                   | •                   |               |                                      |
| 1,344                  | 113              | 96                      | , Be         | 203                  | 1            | 125                  | 5                 | 174                 | <del></del>   | 7-2                                  |
| 25                     |                  | ••                      | 979          | 4                    | ••           | 5                    | <b>(53</b> )      | 5                   | •             | 7•3                                  |
| 1,408                  | 270              | 1,233                   | 95           | 2,370                | 34           | 1,126                | 60                | 1,048               | 64            | 7.4                                  |
| 708                    | 270              | 745                     | 95           | 1,737                | 34           | 549                  | 60                | 805                 | 55            | 7-41                                 |
| 700                    | ••               | 488                     | • •          | 633                  |              | 577                  | ••                | 243                 | 9             | 7.42                                 |
| 15                     | ••               | 4                       | ••           | 7                    | ••           | 119                  | 7                 | 207                 | 56            | 7.5                                  |
| .960<br>36<br>48<br>28 | 2<br><br>4<br>   | 93<br>5<br>8<br>10      |              | 95<br>7<br>13<br>13  | <br><br>1    | 119<br>4<br>16<br>14 | 4:4<br>4.6<br>• • | 307<br>7<br>6<br>17 | •••           | 7·6<br>7·7<br>7·8<br>7·9             |
| 14,412                 | 2,185            | 4,635                   | 353          | 6,341                | 492          | 7,578                | 287               | 6,830               | 554           | Dn. 8                                |
| 1,840<br>256<br>571    | 433<br>          | 288<br>112<br>89        | 52<br>       | 643<br>113<br>140    | 124<br>      | 569<br>150<br>119    | 67<br>••          | 783<br>290<br>343   | 183<br>2<br>5 | 8·1<br>8·11<br>8·12                  |
| 20<br>514<br>8<br>23   | 102<br><br>261   | 1<br>26<br>41<br>6<br>3 | 30<br><br>21 | 1<br>16<br>152<br>14 | 25<br><br>55 | 9<br>83<br>10        | 23<br><br>22      | 64<br>85<br>1       | 97<br><br>79  | 8·13<br>8·14<br>8·15<br>8·16<br>8·17 |

# APPENDIX III

| Group          |   | Ag         | ency    | Pla        | ins     | Kor       | sput     | Dhenkanal |         |
|----------------|---|------------|---------|------------|---------|-----------|----------|-----------|---------|
| Code<br>Number | Occupation #  | Males      | Females | Males      | Females | Males     | Females  | Males     | Females |
| (1)            | (2)   | ( 22 )     | ( 23 )  | (24)       | ( 25 )  | (26)      | (27)     | ( 28 )    | (29)    |
| 6-8            | Moneylending, banking and other financial business.   |            |         |            |         |           |          |           |         |
|                | Officers, employees of joint stock banks<br>and co-operative banks, munims, agents<br>or employees of indigenous banking<br>firms, individual moneylenders, ex-<br>changers and exchange agents, money<br>changers and brokers and their agents.  | 6          | ••      | 171        | 18      | <b>65</b> | ••       | 34        | ••      |
|                | Transport, Storage and Communications   | 14         | ••      | 3,175      | 182     | 875       | 27       | 1,304     | 24      |
| 7·0<br>7·1     | Transport and communications otherwise unclassified and incidental services.  Transport by road   | ••         | ••      | 7          | ••      | ••        | ••       | 6         | ••      |
| 7-2            | Owners, managers and employees connected with mechanically driven and other vehicles (excluding domestic servant) palki, etc., bearers and owners, pack elephant, camel, mule, ass and bullock owners and drivers, porters and messengers, persons angaged in road transport not otherwise classified, including freight transport by road, the operation of fixed facilities for road transport such as tell roads, highway bridges, terminals and parking facilities.  Transport by water | ••         |         | 1,411      | 62      | 350       |          | 351       | 8       |
| :              | Owners and employees, officers, mariners, etc., of ship plying on the high seas, ships and boats plying on inland and coastal waters, persons employed in harbours, docks, rivers and canals, including pilots, ship brokers.   | ••<br>·    | ••      | . 174      | 0.0     | 20        | 2        |           | 2       |
| 7.8            | Transport by Air Persons concerned with air fields and aircrafts other than construction of airfields and air ports.  | ••         | ••      | . 5        | •• .    | ••        | · . ••   | ••        | • •     |
| <b>7·</b>      | Railway transport Railway employees of all kinds except those employed in manufacture, assembly or repair of railway equip- ment and those employed on constru- ction works.  | ••         | ••      | 1,048      | 64      | 215       |          | 596<br>-  | 2       |
|                | Railway employees of all kinds except those employed on construction work.  | ••         | •.•     | 805        | 55      | 215       | ·        | 263       |         |
| 7·42<br>7·5    | Railway porters   | 8.0        | ••      | 243        | 9       | • •       | • ••     | 333       | 1       |
| ••             | The operation of storage facilities such as warehouses, cold storage, safe deposits when such storage is offered as an independent service.   | . <b>5</b> | ••      | 202        | 56      | 148       |          | 68        |         |
| -7-6           | Postal services   | 9          | ••      | 298        | ••      | 131       |          | 151<br>2  |         |
| 7·7<br>7·8     | Telegraph Services  | ••         | ••      | 7<br>6     | ••      | •         | <i>3</i> | 8         |         |
| 7.9            | Wireless Services   | ••         | ••      | 17         | ••      |           | 8        | g         |         |
| Diva. 8.       | . Health, Education and Public Adminis-<br>tration  | 427        | 17      | 6,403      | 537     | 3,117     | 7 57     | 4,141     | 126     |
| 8.1            | Medical and other health services   | 33         | · 5     | 750        | 178     | 520       | 0        |           |         |
| 8·11<br>8·12   | Vaids, Hakims and other persons practising  | 7<br>26    | ••      | 283<br>317 | 2<br>5  | 78<br>34: |          | 93<br>38  |         |
| 8-13           | medicines without being registered.  Dentists   | ••         | ••      | ••         |         | •         |          | ••        | • • •   |
| 8-14           | Midwives  | •          | 5       | • •        | 92      | •         | ^        |           | ,       |
| 8.15           | Vaccinators   | ••         | ••      | 64         | ••      | 9.        | 6        |           |         |
| 8·16           | Compounders   | ••         | • •     | 85<br>1    | 79      | •         | •        |           | 0.1     |
| 8·17<br>8·18   | Veterinary Services   | ••         | • •     | •          | •••     |           | 5        |           |         |
| A.YO           | Veterinary pervices   | ••         | • •     | ••         | ••      |           |          | •         |         |

|     | Keo      | Keonjhar    |              | Phulbani   |           | Bolangir       |               | argarh          | Kala     | handi    | Mayurbhanj  |         | Group          |
|-----|----------|-------------|--------------|------------|-----------|----------------|---------------|-----------------|----------|----------|-------------|---------|----------------|
|     | Males    | Females     | Males        | Females    | Males     | Females        | Males         | Females         | Males    | Females  | Males       | Females | Code<br>Number |
|     | (30)     | (31)        | (32)         | (33)       | 34)       | (35)           | ( 36 )        | (37)            | (38)     | ( 39 )   | (40)        | (41)    | ( D            |
|     |          |             |              |            |           |                |               |                 |          | •        |             |         | •              |
|     | 10       | 929         | 3            | ••         | 145       | 7              | 1             | 40              | 48       | 1        | 53          | . 6     | 6.8            |
|     |          |             |              |            |           |                |               |                 | •        |          |             |         | •              |
|     | 247      | 7           | 272          | 20         | 1,585     | 58             | 954           | <b>28</b><br>12 | 421      | 20       | 815         | 95      | Dn. 7          |
|     | 8        | ••          | 1            | ••         | ••        | ••             | 429           | 12              | 33       | 5        | 143         | ••      | 7.0            |
|     | 116      | ••          | 50           | 11         | 480       | . 7            | <i>333</i>    | <b>.</b> 5      | 106      | 2        | 177         | 25      | 7-1            |
|     |          |             |              |            |           |                |               |                 |          |          |             |         |                |
|     |          |             |              |            |           |                |               |                 |          |          |             |         |                |
|     |          |             |              |            |           |                |               |                 |          |          | 4.5         |         | ,              |
|     |          |             |              |            | ,         |                |               |                 |          |          |             |         |                |
|     |          |             |              |            |           |                |               |                 |          |          |             |         |                |
|     | 4        | ••          | 82           | $\square$  | 245       | 28             | 17            | 1               | 5        |          |             |         | · 7·2          |
|     |          |             |              |            |           |                | •             | •               |          |          |             |         |                |
|     |          |             |              |            |           |                | •             | ••              |          |          |             |         |                |
|     | ••       | ••          | ••           | • •        | ·         | • •            | •             | ••              |          | ••       | ••          |         | 7.3            |
|     |          |             |              |            |           |                |               |                 |          |          |             |         |                |
|     | ••       | <b>6</b> 10 | • <b>••</b>  |            | 709       | 17             | 41            | •••             | 178      | 2        | 414         | 66      | 7-4            |
|     |          |             |              |            |           |                | ٠             |                 |          | •        | `.          |         |                |
|     | ••       | -           | ••           | •••        | 709       | 17             | 27            | 43              | 178      | 2        | 325         | 66      | 7-41           |
|     | ••       | ••          | ••           | ••         | ••        | • •            | 14            | •               | 20       | •        | 145         | ••      | 7.42           |
|     | 26       | 7           | 48           | 9          | 13        | 6              | 18            | 10              | 25       | 11       | 6           | 4       | 7.5            |
|     | 72       | ••          | 8 <u>4</u>   | ••         | 113       | ••             | 97            | ••              | 55       |          | ` <i>53</i> | •       | 7-6            |
|     | 1<br>13  | ••          | <i>1</i><br> | ••         | 2<br>10   | ••             | <i>3</i><br>8 | •• 1            |          | ••       | 1           | ••      | 7.7            |
|     | 7        | ••          | 6            | ••         | 13        | ••             | 8             | ••.             | 11       | •••      | 9<br>12     |         | 7·8<br>7·9     |
|     | 757      | 28          | 828          | 51         | 1,792.    | 90             | 1,456         | 72              | 1,273    | •        | 2,298       | 90      | Da. 8          |
| • - | 133      | 16          | 80           | 17         | 232       | <b>39</b>      | 92            | 27              | 168      | 25       | 228         | 26      | 8-1            |
|     | 39<br>82 | -           | 30<br>33     | 0.0        | 41<br>88. | ••             | · 33          | ••              | 50<br>34 |          | 83<br>59    | 1       | 8·11<br>8·12   |
|     | -        | ·;          |              | <b>i</b> 7 | ••        | ::             | ••            | ••              | 1        | <b>.</b> | 3           | ••      | 8.13           |
|     | 8        | ••          | 7            | 17         | 7         | 2 <del>4</del> | 'i            | 6               | <br>16   | 3        | i.<br>15    | 7       | 8-14           |
|     | 4        | • • •       | 10           | ••         | 41.       | • •            | 25            | •• ••           | 12       |          | 38          | ••      | 8·15<br>8·16   |
|     | _        | •           | .••          | ••         | •:        | 15             | ••            | 5               | 4        | 14       | 5           | 18      | 8-16<br>8-17   |

| Group<br>Code                       | Occupation   |  | ORISSA                                       |                               | Orias                                    | 3·3:<br>• Inland                       | 5-11<br>Division Orissa Coastal Division |   |   |                             |
|-------------------------------------|--|--|--|-------------------------------|--|--|--|---|---|-----------------------------|
| No. (1)                             | (2)  | Parsons (3)                                  |  | Females (5)                   | Person                                   | Males<br>(7)                           | Females                                  | Persons<br>(9)                          |   | Females                     |
| 8-10                                | All other persons employed in hospitals or<br>other public or private establishments<br>rendering medical or other health<br>services; but not including scavengers or<br>other sanitary staff.  | 1,168  | 1,003  | 165                           | 392                                      | 342                                    | 50                                       | 776                                     | 661                                     | 115                         |
| 8·2<br>8·21                         | Educational Services and Research Professors, lecturers, teachers and research workers employed in universities, colleges and Research Institutions.   | 14,378<br>539                                | <i>12,554</i><br>51 <b>6</b>                 | 1,824<br>23                   | 5,340<br>81                              | 5,028<br>81                            | 312                                      | 9,038<br>458                            | 7,526<br>435                            | 1,51 <b>2</b><br>23         |
| 8·22<br>8·20                        | All other professors, lecturers and teachers<br>Managers, clerks and servants of educa-<br>tional and research institutions, including<br>libraries and museums, etc.  | 12,911<br>928                                | 11,198<br>840                                | 1,71 <b>3</b><br>88           | <b>4,691</b><br>568                      | 4,428<br>519                           | 263<br>49                                | 8,220<br>360                            | 6,770<br>321                            | 1,450<br>39                 |
| 8·4<br>8·5                          | Police (other than village watchmen)  Village Officers and servants, including village watchmen.   | 10,057<br><b>8,</b> 157                      | 10,057<br>7,907                              | 250                           | 6,003<br>4,037                           | 6,003<br>3,989                         | 48                                       | 4,054<br>4,120                          | 4,054<br>3,918                          | 202                         |
| 8.6                                 | Employees of municipalities and local bodies<br>(but not including persons classifiable<br>under any other division or subdivision).   | 2,579  | 1,680  | 89 <b>9</b>                   | 660                                      | 503                                    | 157                                      | 1,919                                   | 1,177                                   | 742                         |
| · 8·7                               | Employees of State Governments (but not including persons classifiable under any other division or subdivision).   | 14,165                                       | 13,832                                       | 333                           | 3,699                                    | 3,677                                  | 22                                       | 10,466                                  | 10,155                                  | 311                         |
| 8.8                                 | Employees of the Union Governments (but not including persons classifiable under any other division or subdivision).   | 3,616  | 3,564  | 52                            | 2,164                                    | 2,124                                  | 40                                       | 1,452                                   | 1,440                                   | 12                          |
| Division<br>9·0                     | 9. Services not elsewhere specified Services otherwise unclassified (Palmists, astrologers, zamindar's rent collection staff, home guards, etc. fall under this subdivision  | 356,718<br>208,047                           |  | <b>83,459</b> <i>67,191</i>   | <b>168,480</b> 1 110,690                 | 3 <b>3,498</b><br>86,025               | <b>34,982</b> 1 24,665                   | 1 <b>88,238</b><br><i>97,357</i>        | 139,761<br><i>64,831</i>                | <b>48,477</b> 32,526        |
| 9.1                                 | Domestic services (but not including services rendered by members of family households to one another).  | 77,632                                       | 59,768                                       | 17,864                        | <b>33,782</b>                            | 25,902                                 | 7,880                                    | 43,850                                  | 33,866                                  | 9,984                       |
| 9·11<br>9·12<br>9·13<br>9·10<br>9·2 | Private motor drivers and cleaners Cooks   | 1,133<br>15,279<br>1,841<br>59,379<br>13,639 | 1,133<br>12,771<br>1,404<br>44,460<br>12,797 | 2,508<br>437<br>14,919<br>842 | 678<br>2,927<br>1,059<br>29,118<br>5,613 | 678<br>2,325<br>679<br>22,220<br>5,425 | 380                                      | 455<br>12,352<br>782<br>30,261<br>8,026 | 455<br>10,446<br>725<br>22,240<br>7,372 | 1,906<br>57<br>8,021<br>654 |
| 9-3                                 | Laundries and laundry services, washing and cleaning.  | 21,639                                       | 15,280                                       | 6,359                         | 9,041                                    | 6,898                                  | 2,143                                    | 12,598                                  | 8,382                                   | 4,216                       |
| 9·4<br>9·5                          | Hotels, restaurants and eating houses Reoreation Services Production and distribution of motion pictures and the operation of cinemas and allied services, managers and employees of theatres, opera compa- nies, etc., musicians, actors, dancers, etc., conjurers, acrobats, wrestlers, pahalwans, recitors, exhibitors of curiosities and wild animals, radio broadcasting studios. | <b>3,351 3,391</b>                           | 3,027<br>2,517                               | 324<br>874                    | 1,078<br>1,018                           | 933                                    | 21<br>85                                 | 2,273<br>2,373 ·                        | 1,970<br>1,584                          | 303<br>789                  |
| 9·6<br>9·61                         | Legal and business services  Lawyers of all kinds, including qazis, law agents and mukhtiars.  | 13,408<br>4,427                              | 13,405<br>4,427                              | <i>3</i><br>••                | <i>3,380</i><br>97 <b>4</b>              | 3,380<br>97 <b>4</b>                   | ••                                       | 10,028<br>3,453                         | 10,025<br>3,453                         | 3                           |
| 9·62<br>9.63                        |  | 6,969<br>1,310                               | 6,96 <b>6</b><br>1,310                       | 3                             | 1,78 <b>6</b><br>200                     | 1,786<br>200                           | ••                                       | 5,183<br>1,110                          | 5,180<br>1,110                          | 3 -                         |
|                                     | Public Scribes, Stenographers, Accountants, Auditors.  | 298  | 298  | ••                            | 198                                      | 198                                    | ••                                       | 100                                     | 100                                     | ***                         |
| 9-65                                | Managers, clerks, servants and employees of Trade Associations, Chamber of Commerce, Board of Trade, Labour Organisation and similar organisation of employees and employees.  | 404  | 404  | -                             | 222                                      | . 222                                  | ••                                       | 182.                                    | 182                                     | <b>-</b>                    |
| 9·7<br>9·71<br>9·72                 | Arte, letters and journalism   | 1,723<br>1,575<br>68                         | 1,723<br>1,575<br>68                         | ••                            | 240<br>221<br>12                         | 240<br>221<br>12                       |  |   | 1,483<br>1,354<br>56                    | ::                          |

| Cu                                    | tack                           | Bal                              | £8) <b>re</b>           | 1                                    | Puri Sambalpur Ganjam |                                  | Group                 |                                   |                      |                                     |
|---------------------------------------|--------------------------------|----------------------------------|-------------------------|--------------------------------------|-----------------------|----------------------------------|-----------------------|-----------------------------------|----------------------|-------------------------------------|
| Males<br>(12)                         | Females (13)                   | Ma'es<br>(14)                    | Females (15)            | Males (16)                           | Females (17)          | Males<br>(18)                    | Females (19)          | Males (20)                        | F.male (21)          | Code<br>as No.<br>(1)               |
| 444                                   | 70                             | 10                               | 1                       | 207                                  | 44                    | 198                              | 22                    | • •                               | ••                   | 8-10                                |
| <b>2,354</b><br>320                   | 1,039<br>20                    | 1,251<br>62                      | 75<br>••                | 2,285<br>23                          | 230                   | <b>1,</b> 101<br><b>4</b> 5      | 76<br>• •             | 1,785<br>30                       | 172<br>3             | 8·2<br>8·21                         |
| 1,862<br>172                          | 982<br>37                      | 1,128<br>61                      | 73<br>2                 | 21<br>83                             | 230                   | 1,029<br>27                      | 76<br>••              | 1,750<br>5                        | 169                  | 8·22<br>8·20                        |
| 2,051<br>1,563                        | 199                            | 212<br>245                       |                         | 752<br>1,006                         | ••                    | 1,262<br>935                     | ••                    | 1,078<br>1,210                    | ••                   | 8·4<br>8·5                          |
| 270                                   | 388                            | 201                              | 32                      | 299                                  | 138                   | 145                              | 93                    | 427                               | 192                  | 8.6                                 |
| 5,851                                 | 114                            | 1,621                            | 190                     | 1,267                                | ••                    | 1,587 ·                          | 11                    | 1,493                             | 7                    | 8.7                                 |
| 483                                   | 11                             | 817                              | 1                       | 89                                   | ••                    | 1,979                            | 40                    | 54                                |                      | 8.8                                 |
| <b>60,668</b> 27,312                  | <b>19,058</b><br><i>15,077</i> | 13,884<br>8,024                  | <b>4,603</b> 2,902      | <b>23,728</b><br>7,189               | <b>3,344</b><br>908   | 26,600<br>20,094                 | <b>8,252</b> 6,918    | <b>44,132</b><br>23,875           | <b>22,865</b> 14,646 | Divn. 9<br>9·0                      |
| 15,10 <b>5</b>                        | 1,867                          | 3,010                            | 1,321                   | 6,916                                | 1,423                 | 2,671                            | 624                   | 9,312                             | 5,631                | 9.1                                 |
| 194<br>6,237<br>345<br>8,329<br>2,385 | 878<br>989<br>145              | 113<br>290<br>72<br>2,535<br>539 | 45<br>25<br>1,251<br>73 | 82<br>3,421<br>230<br>3,183<br>2,073 | 32<br>1,391<br>436    | 204<br>263<br>48<br>2,156<br>979 | 9<br>615<br><i>32</i> | 68<br>599<br>85<br>8,560<br>2,494 | 1,078<br>4,553       | 9·11<br>9·12<br>9·13<br>9·10<br>9·2 |
| 3,338                                 | 1,049                          | <i>558</i>                       | 273                     | 2,158                                | 523                   | 1,235                            | 613                   | 2,457                             | 2,496                | 9.3                                 |
| 822                                   | 275                            | 247                              | . 6                     | 288                                  | 22                    | 312                              | 8                     | 644                               |                      | 9.4                                 |
| 1,107                                 | 645                            | 140                              | 23                      | 242                                  | 32                    | 366                              | 57                    | 101                               | 92                   | 9.5                                 |
|                                       |                                |                                  |                         |                                      |                       | -                                |                       |                                   |                      |                                     |
| <b>7,782 3,</b> 095                   | ••                             | <i>360</i><br>73                 | . 3                     | <i>543</i><br>126                    | ••                    | 360<br>90                        | •                     | 1,425<br>181                      | • •                  | 9·6<br>0·61                         |
| 4,465<br>93                           | ••                             | 260<br>18                        | 3                       | 330<br>87                            | ••                    | 154<br>49                        | ••                    | 167<br>927                        | ••                   | 9·62<br>9·63                        |
| 83                                    | ••                             | ••                               | ••                      | ••                                   | ••                    |                                  | ••                    | 23                                | ••                   | 9.64                                |
| 46                                    | ••                             | 9                                | ••                      | ••                                   | ••                    | 67                               | ••                    | 127                               | ••                   | 9.65                                |
| 922<br>855<br>21                      |                                | 7<br>1<br>6                      | ••                      | 482<br>459<br>22                     | ••                    | 10<br>10                         | ••                    | 74<br>39<br>7                     | ••                   | 9·7<br>9·71<br>9·72                 |

| Group        | Ossus Aiss   | Age      | псу      | Pl             | aine       | Ko         | Coraput Dhen |                 | anal       |
|--------------|--|----------|----------|----------------|------------|------------|--------------|-----------------|------------|
| Code<br>No.  | Occupation   | Males    | Female   | s Males        | Female     | a Males    | Fomales      | Malos           | Females    |
| (1)          | (2)  | (22)     | (23)     | (24)           | (25)       | (26)       | (27)         | (28)            | (29)       |
| 8-10         | All other persons employed in hospitals or<br>other public or private establishments<br>rendering medical or other health<br>services; but not including scavengers or<br>other sanitary staff.  | ••       | ••       |                | ••         | ••         | ••           | 58              |            |
| 8-2          | Educational Services and Research  | 149      | 4        | 1,636          | 168        | 700        | 29           | 929             | 23         |
| 8-21         | Professors, lecturers, teachers and research<br>workers employed in universities, colleges<br>and Research Institutions.   | ••       | ••       | 30             | 3          | ••         | ••           | ••              | ••         |
| 8-22         | All other professors, lecturers and teachers   | 149      | 4        | 1,601          | 165        | 700        | 29           | 905             | 23         |
| 8.20         | Managers, clerks and servants of educa-<br>tional and research institutions, including<br>libraries and museums, etc.  | ••       | • •      | 5              | ••         | ••         | ••           | 24              | ••         |
|              | Police (other than village watchmen)   | 39       | ••       | 1,039          | ••         | 616        | ••           | 1,276           | ••         |
| . 8·5        | Village Officers and servants, including village watchmen.   | 106      | ••       | 1,104          | ••         | 900        | • •          | 821             | 4.         |
| 8.6          | Employees of municipalities and local bodies<br>(but not including persons classifiable<br>under any other division or subdivision).   | 20       | 8        | 407            | 184        | 64         | •••          | 101             | 88         |
| 8.7          | Employees of State Governments (but not including persons classifiable under any other division or subdivision).   | 77       | ••       | 1,416          | 7          | 287        | ••           | 728             | . 11       |
| 8.8          | Employees of the Union Governments (but not including persons classifiable under any other division or subdivision).   | 3        | ••       | 51             | ••         | 24         | ••           | 4               | ••         |
| Division     | 9. Services not elsewhere specified  | 2,651    | 1,393    | 41,481         | 21,472     | 32,446     | 3,526        | 9,988           | 1,811      |
| 9-0          | Services otherwise unclassified (Palmists, astronogers, zamindar's rent collection staff, home guards, etc., fall under this   | 1,569    | 1,007    | 22,306         | 13,639     | 11,389     | 1,011        | 7,206           | 1,280      |
| 9-1          | eubdivision).  Domestic services (but not including services rendered by members of family households to one another).   | 477      | 258      | 8,835          | 5,373      | 15,528     | 2,109        | 766             | <b>245</b> |
| 9.11         | Private motor drivers and cleaners   | 2        |          | 66             | • •        | 20         | ••           | 66              |            |
| 9.12         | Cooks  | 101      | 95       | 498            | <b>983</b> | 668<br>13  | 50           | <i>95</i><br>13 | 010        |
| 9.13<br>9.10 | Gardeners  | 7<br>367 | 163      | 78<br>8,193    | 4,390      | 14,827     | 2,059        | 592             | 245        |
| 9.2          | Barbers and beauty shops Barbers, hair dressers and wig makers, tatooers, shampoors, both houses.  | 119      | ••       | 2,375          | ••         | 1,210      | ••           | 58 <b>6</b>     | 9          |
| 9.8          | Laundries and laundry services Laundries and lanndry services, washing   | 129      | 125      | 2,328          | 2,371      | 1,672      | 402          | 912             | 273        |
| 9-4          | and cleaning.  Hotels, restaurants and eating houses   | 31       | ••       | 613            | ••         | <b>389</b> | 8            | 10              | 1          |
| 9-5          | Recreation Services Production and distribution of motion pictures and the operation of cinemas and allied services, managers, and employees of theatres, apera companies, etc., musicians, actors, dancers, etc., conjurers, acrobats, wrestlers, pahal- wans, recitors, exhibitors of curiosities and wild animals, radio broadcasting | 6        | <b>.</b> | 95             | <b>89</b>  | 250        | 1            | 45              | 3          |
| 9.6          | studios.  Legal and business services  | 85       | ••       | 1,340          | 629        | 619        | 010          | 96              | ***        |
| 9-61         | Lawyers of all kinds, including qazis, law   | 22       |          | 159            | ••         | 116        | ••           | 22              | -          |
| 9-62         | agents and mukhtiars.  Clerks of lawyers, petition writers, etc  | 42       | ••       | 125            | ••         | 158        | ••           | 39              | -          |
| 9.63         |  | 15       | ••       | 912            | ••         | 73         | ••           | 13              | ***        |
| 9-64         | Public Scribes, Stenographers, Accountants, Auditors.  | 6        | ••       | 17             | ••         | 163        | ••           | ••              |            |
| 9-65         | Managers, clerks, servants and employees<br>of Trade Associations, Chamber of<br>Commerce, Board of Trade, Labour<br>Organisation and similar organisation<br>of employers and employees.  | ••       | ••       | 127            | ••         | 109        | ••           | 22              | -,         |
| 9.7          | Arte, letters and journalism   | 2        | ••       | 72             | ••         | 2<br>1     | ••           | 37<br>34        | =          |
| 9·71<br>9·72 | Artists, sculptors and image makers Authors, editors and journalists.  | -        | -        | 39<br><b>7</b> | -          | i          | -            | -               | . =        |

| Keon                             | jbar                 |                              | Phulbani                  | Bo                            | olangir                  | Sunda                         | rgarh           | Kalal                           | andi                          | Mayur                            | bhanj                          | Group                               |
|----------------------------------|----------------------|------------------------------|---------------------------|-------------------------------|--------------------------|-------------------------------|-----------------|---------------------------------|-------------------------------|----------------------------------|--------------------------------|-------------------------------------|
| Males<br>(30)                    | Females (31)         | Males<br>(32)                | Females<br>(33)           | Males<br>(34)                 | Females (35)             | Males (36)                    | Females<br>(37) | Males<br>(38)                   | Females<br>(39)               |                                  | Female<br>(41)                 | Code<br>No.<br>(1)                  |
| ••                               | ••                   | ••                           | ••                        | •••                           | ••                       | 17                            | 16              | 51                              | 8                             | 18                               | ••                             | 8-10                                |
| • •                              | •                    |                              |                           |                               |                          |                               |                 |                                 | •                             |                                  |                                |                                     |
| 251<br>••                        | 12                   | 203                          | 34<br>••                  | <i>589</i><br>18              | <b>40</b><br>••          | 249                           | 25<br>••        | 238<br>1                        | 24<br>                        | 619<br>17                        | . 45                           | <i>8∙2</i><br>8∙21                  |
| 180<br>71                        | 9                    | 203                          | 34                        | 399                           | 20                       | 240                           | 25              | 98                              | 16                            | 5 <u>25</u>                      | 27                             | 8·22<br>8·20                        |
| *1                               | 3                    | • ••                         | ••                        | 172                           | 20                       | 9                             | ••              | 139                             | 8                             | 77                               | 18                             | 8.20                                |
| 131<br>109                       | ••                   | 223<br>214                   | ••                        | 368<br>328                    | 3                        | 693<br>188                    | <br>16          | <b>444</b><br>144               | ::<br>13                      | 951<br>244                       | ::<br>12                       | 8· <b>4</b><br>8·5                  |
| 36                               | ••                   | 26                           | ••                        | 35                            | 8                        | 26                            | 4               | . 29                            | 5                             | 21                               | 7                              | 8.6                                 |
| 90                               | ••                   | 77                           | ••                        | 215                           | ••                       | 196                           | .••             | 209                             | ••                            | 211                              | • •                            | 8.7                                 |
| 7                                | ••                   | 5                            | ••                        | 25                            | ••                       | 12                            | ••              | 41                              | •                             | 24                               | ••                             | 8.8                                 |
| <b>6,199</b><br>2.948            | 1,589<br>1,048       | <b>8,936</b><br>7,135        | <b>2,153</b> <i>1,879</i> | 13,877<br>9,618               | <b>5,014</b> 2,841       | <b>7,664</b> 6,105            | 1,911<br>1,657  | <b>14,177</b><br>12,225         | <b>4,787</b><br>3,510         | 10,962<br>7,736                  | <b>4,546</b> D<br><i>3,514</i> | 9:0                                 |
| 1,051                            | 426                  | 570                          | 159                       | 609                           | 1,922                    | 752                           | 16 <b>4</b>     | _ <b>1,350</b>                  | 1,142                         | 2,128                            | 831                            | 9-1                                 |
| 22<br>151<br>152<br>726<br>1,199 | 42<br>52<br>332<br>3 | 10<br>92<br>10<br>458<br>208 | 91<br>68<br>6             | 16<br>127<br>96<br>370<br>500 | 93<br>202<br>1,627<br>17 | 20<br>265<br>52<br>415<br>150 | 164<br>7        | 146<br>150<br>232<br>822<br>169 | 210<br>95<br>837<br><i>61</i> | 172<br>413<br>56<br>1,487<br>305 | 12<br>31<br>788<br><i>53</i>   | 9·11<br>9·12<br>9·13<br>9·10<br>9·2 |
| 709                              | 110                  | 708                          | 106                       | 724                           | 229                      | <b>229</b>                    | :<br>77         | 203                             | 72                            | 377                              | 136                            | 9.3                                 |
| 8                                | 2                    | 83                           | 2                         | 52                            | 2                        | 77                            | ••              | 42                              | ••                            | 53                               | 3                              | 9-4                                 |
| 16                               | ••                   | 24                           | 1                         | 37                            | <b>3</b>                 | 113                           | 6               | 30                              | 2                             | 46                               | 9                              | 9.5                                 |
| 53                               | ••                   | 49                           | ••                        | 1,906                         | ••                       | · · 71                        | ••              | <i>31</i>                       |                               | <b>110</b>                       |                                | 0.5                                 |
| 23                               | ••                   | 33                           | ••                        | 608                           | ••                       | 20                            | ::              | 10                              | ••                            | 30                               | ••                             | 9-8<br>9-61                         |
| 24<br>2<br>4                     | ••                   | 15<br>1                      | ••                        | 1,233<br>43<br>22             | ••                       | 26<br>1                       | ••              | 15<br>4<br>2                    | ••                            | 80                               | ••                             | 9·62<br>9·63                        |
| ••                               | ••                   | ••                           | ••                        | ••                            | ••                       | 24                            | ••              | ••                              | ••.                           | ••                               | ••                             | 9·64<br>9·65                        |
| 18<br>16<br>2                    | ••                   | 7<br>4<br>3                  | ::<br>::                  | 121<br>116<br>5               | ••                       | 3 3                           | ••<br>••        | 23<br>23                        | ••                            | 17<br>14<br>1                    | ••                             | 9•7<br>9•71<br>9•72                 |

# APPENDIX III

| Group                           | •  |                                | ORISSA 3.33 Orisea Inland Division |           | ivision           | 5-11<br>Orissa Coastal Division |                    |                 |                                  |                |
|---------------------------------|--|--------------------------------|------------------------------------|-----------|-------------------|---------------------------------|--------------------|-----------------|----------------------------------|----------------|
| Code<br>Number                  | Occupations  | Persons                        | Males                              | Females   | Persons           | Males                           | Females            | Persons         | Malos                            | Female         |
| (1)                             | (2)  | (3)                            | (4)                                | (5)       | (6)               | (7)                             | (8)                | (9)             | (10)                             | (11)           |
| 9-73                            | Photographers, emloyees of Newspaper<br>Press other than authors, editors<br>journalists, engravers. lithographers and                         |                                | 80                                 |           | 7                 | 7                               | ٠                  | 73              | 73                               | ••             |
| 9 8<br>9 81                     | Religious, Charitable and Welfare Services<br>Pricets, Ministers, monks, Nuns, Sadhus,<br>Religious mendicants and other religious<br>workers. | 12,187                         | 13,886<br>12,185                   |           |                   | 3,638<br>3,057                  |                    | 10,250<br>9,130 | 10,248<br>9,128                  | 2              |
| 9.82                            | Servants in religious edifices, burial and<br>burning grounds, pilgrim conductors<br>and circumcisors, etc.                                    | 1,411                          | 1,411                              | ••        | 318               | 318                             | ••                 | 1,093           | 1,093                            | ••             |
| 9.83                            |  | 290                            | 290                                | • ••      | 263               | 263                             |                    | 27              | 27                               | ••             |
|                                 | Unproductive occupations living principally on income from non- tural property.  | <b>39,600</b><br><b>2,4</b> 95 | <b>26,046</b><br>1,985             |           |                   |                                 |                    |                 | 1 <b>5,83</b> 3<br>1,69 <b>6</b> |                |
| Pensions<br>Remitta<br>Scholars | 1006   | 986<br>3,890<br>116            | 864<br><b>3,4</b> 72<br>94         | 418<br>22 | 393               | 126<br>236                      | 157                | 3,497<br>116    |                                  | 261<br>22      |
| Other ful<br>Jails<br>Asylums   | •• •• •• ••  | 3,682<br>737                   | 3,607<br>442                       | 75<br>295 | 1,969             |                                 | 1 38               |                 | 7<br>1,676<br>129<br>1           | 37<br>80       |
| Beggars<br>All othe<br>derive   | te of doles and vagrants r persons living principally on income d from non-productive activities, procurers ostitutes.                         | 154                            |                                    | 4,930     | 7,393             | 4,45                            | 7 2,936            | 3,919<br>10,656 | 1,689<br><b>6</b> ,567           | 2,230<br>4,089 |
| Group                           | Occuration   | A                              | gency                              |           | Plain             |                                 | K                  | oraput          | Dhe                              | nkanal         |
| Code<br>Number                  | Occupation   | Males                          | Fem                                | ales      | Males             | Female                          | Males              | Fem ales        | Males                            | Females        |
| (1)                             | (2)  | ( 22                           | ) (                                | 23)       | (24)              | (25)                            | ( 26 )             | (27)            | ( 28 )                           | , 29 )         |
| 9.73                            | Photographers employees of Newspaper<br>Press other than authors, editors,<br>journalists, lithographers and engravers                         |                                | }                                  | ••        | 26                | ••                              | ••                 | ••              | 3                                |                |
| 9·8<br>9·81                     | Religious, Charitable and Welfare Services Priests, Ministers, Monks, Nuns, Sadhus, Religious Mendicants and other religious workers.          | 233<br>233                     |                                    |           | 3,517<br>3,362    | ••                              | 1,387<br>925       |                 | 32A<br>315                       |                |
| 9.82                            |  |                                |                                    | ••        | 155               | ••                              | 216                |                 | ••                               | ••             |
| 9.83                            | Managers and employees of organisations and institutions rendering cheritable and other welfare services.                                      |                                |                                    | ••        | ••                | ••                              | 246                | 3               | 13                               | 3              |
|                                 | Unproductive occupations living principally on income from non- ltural property  | 62                             | ,                                  | 53        | 2,857             | 1,176<br>17                     | <b>1,250</b><br>52 |                 |                                  |                |
| Pension<br>Remitte              |  | 0.4                            |                                    | 20        | 18<br>10 <b>4</b> | 2<br>91                         | 7                  |                 |                                  |                |
| Scholars                        |  |                                |                                    |           | ••                | •••                             |                    |                 |                                  | ••             |
| Other fo                        | ınds   | • ••                           |                                    | ••        | 631               |                                 | 406                |                 |                                  |                |
| Asylum                          |  | - 1                            |                                    |           | 25                | 16                              | 40                 |                 |                                  |                |
| Alm ho                          | uses   |                                |                                    | ••        | . 1               | ••                              | • •                |                 |                                  |                |
| Beggars<br>All oth<br>derive    | and Vagrants or persons living principally on incomes d from non-productive activities, procurer rostitutes.                                   | . 89                           |                                    |           | 2,078             | 1,008<br>34                     | 745                |                 |                                  |                |

| Cu                 | ttack              | Ba               | lasore             | F                 | uri                | Samb        | Sambalpur Ganjam |                        | jam                | Group<br>Code      |  |
|--------------------|--------------------|------------------|--------------------|-------------------|--------------------|-------------|------------------|------------------------|--------------------|--------------------|--|
| Males              | Females            | Males            | Females            | Males             | Females            | Males       | Females          | Males                  | Females            | Number             |  |
| (12)               | (13)               | (14)             | (15)               | (16)              | (17)               | (18)        | (19)             | (20)                   | (21)               | (1)                |  |
| 46                 | ••                 | ••               | ••                 | 1                 | ••                 | ••          | ••               | 28                     | ••                 | 9.73               |  |
| 1,895<br>1,644     |                    | 999<br>992       | 2<br>2             | 3,837<br>3,130    | ••                 | 573<br>573  | ••               | 3,7 <i>50</i><br>3,595 | ••                 | <i>g-8</i><br>9-81 |  |
| 237                |                    | ••               | ••                 | 701               |                    | ••          |                  | 155                    |                    | 9.82               |  |
| 14                 | ••                 | 7                | ••                 | 6                 | . ••               | ••          | ••               | ••                     | ••                 | 9.83               |  |
| <b>7,181</b> 1,048 | <b>2,909</b> 295   | <b>3,154</b> 648 | <b>1,520</b><br>97 | 2,641<br>         | 1,767<br>· ·       | 1,540<br>47 | 613<br>34        | <b>2,919</b>           | <b>1,229</b><br>17 |                    |  |
| 545<br>2,507       | 67<br>118          | 98<br>128        | 15<br>21           | 77<br><b>4</b> 97 | 23<br>31           | 93<br>96    | 12<br>17         | 18<br>128              | 2<br>111           |                    |  |
| 94<br>568<br>57    | 22<br>15<br>28     | 218<br>17        | <br>7<br>25        | 7<br>259<br>30    | 3<br>7<br>11       | 363<br>47   | <br>9<br>33      | 631<br>25              | <br>8<br>16        |                    |  |
| 236<br>2,126       | 887<br>1,461<br>16 | 867<br>1,178     | 728<br>604<br>23   | 586<br>1,185      | 615<br>1,016<br>61 | 120<br>774  | 508              | 2,116<br>              | 1,041<br>34        |                    |  |

| Ke                | onjhar     | Phull      | oani                 | Bolar             | ıgi <b>r</b>      | Sundar            | garh             | Kalah            | andi    | Mayur        |                    | Group          |
|-------------------|------------|------------|----------------------|-------------------|-------------------|-------------------|------------------|------------------|---------|--------------|--------------------|----------------|
| Mal               | es Females | Males      | Females              | Males             | Females           | Males             | Females          | Males            | Females | Males        |                    | Code<br>Number |
| ( 30              | ) (31)     | (32)       | (33)                 | (34)              | (35)              | (36)              | (37)             | (38)             | (39)    | (40)         | (41)               | (1)            |
|                   | ••         | ••         |                      | ••                | ••                | ••                |                  | ••               | ••      | 2            | ••,                | 9.73           |
| <i>197</i><br>189 |            | 152<br>107 | • •                  | <i>310</i><br>310 | ••                | <i>164</i><br>164 | ••               | <i>104</i><br>89 | ••      | 190<br>152   | ••                 | 9·8<br>9·81    |
| 8                 |            | 43         | ••                   | ••                | ••                | ••                | ••               | 15               |         | 36           | • •                | 9.82           |
| ••                | ••         | ••         | ••                   | ••                | <b>5</b> 7        | ••                | ••               | ••               | ••      | ••           | ••                 | 9:83           |
| 541<br>           | 300        | 225        | 87                   | <b>942</b><br>84  | 60 <b>4</b><br>32 | <b>756</b><br>17  | <b>321</b><br>12 | <b>574</b><br>37 | 240     | 3,472-<br>26 | <b>3,126</b><br>14 |                |
| i7                | 20         | 3<br>19    | i;                   | i <b>:</b>        | 25                |                   | ••               | 11<br>4          |         | 5<br>5       | <b>2</b><br>··     |                |
| 99<br>21          | <br>1<br>9 | 83<br>25   | ::<br>i <del>;</del> | 169<br>65         | <br>11<br>25      | 135<br>20         | <br>4<br>22      | 152<br>63        | 1<br>52 | 341<br>17    | 10<br>18           |                |
| 37<br>367         | 270        | <br>95     | 57                   | 609               | <br>511           | 578               | 283              | 307              | 187     | 2,704<br>374 | 2,700<br>362<br>20 |                |

APPERDIX IV

List of Registered Factories in Orissa

| District               | Centre of location               |     | Total number of Factories | Type of Factories           |     | Number          |
|------------------------|----------------------------------|-----|---------------------------|-----------------------------|-----|-----------------|
| (1)                    | (2)                              |     | (3)                       | (4)                         |     | (5)             |
| CUTTACK (59 Factories) | 1. Banki                         | ••  | 1                         | Lime                        | ••  | 1               |
|                        | 2. Barang                        | ••  | 2                         | Glass<br>Ceramics           | ••  | 1               |
|                        | 3. Cuttack                       | ••  | 45                        | Rice Milling Biscuit        | ••  | 2<br>2          |
|                        |                                  |     |                           | Ply-Wood                    | ••  | ĩ               |
|                        | _                                |     |                           | Iron and Steel              | • • | 1               |
|                        | •                                |     |                           | General Engineering         | • • | 3               |
| •                      |                                  |     |                           | Lime                        | • • | 1               |
| •                      |                                  |     |                           | Bidi                        | • • | 3               |
|                        |                                  |     |                           | Tobacco<br>Saw Milling      | • • | 1               |
|                        |                                  |     |                           | Bobbin                      | ••  | 8<br>1          |
|                        |                                  |     | •                         | Printing                    | ••  | 14              |
|                        |                                  |     |                           | Dyeing                      | ••• | ī               |
|                        |                                  |     |                           | Automobiles                 | ••  | $ar{2}$         |
|                        |                                  |     |                           | BN. R. Workshop             | • • | 1               |
|                        |                                  |     |                           | Spray Painting              | • • | 1               |
|                        |                                  |     |                           | Hume Pipe                   | • • | 1               |
|                        | 4 Tonatain man                   |     | •                         | Ice                         | • • | 2               |
|                        | 4. Jagatsingpur<br>5. Kendrapara | • • | 1<br>6                    | Textile<br>Bidi             | ••  | 1<br>6          |
|                        | 6. Chaudwar                      | • • | -                         | Textile '                   | ••  | ĭ               |
|                        | 7. Byree                         | -   | î                         | Rice Milling                | ••  | î               |
|                        | 8. Baitarani Road                |     | , <u>ī</u>                | Rice Milling                | ••• | ī               |
|                        | 9. Narsingpur                    | ••  | 1                         | Bidi                        | ••  | 1               |
| BALASORE               | 1. Bhadrak                       | ••  | 3                         | Rice Milling                | ••  | 2               |
| (48 Factories)         | •                                |     |                           | Oil Crushing                | • • | 1               |
|                        | 2. Chandbali                     | ••  | 5                         | Rice Milling                | • • | 5               |
|                        | 3. Markona                       | 0-0 | 2                         | Rice Milling                | ••  | 2<br>2          |
|                        | 4. Soro                          | ••  | . 3                       | Rice Milling Iron and Steel | ••  | 2<br>1          |
|                        | 5. Bahanaga                      |     | 3                         | Rice Milling                | ••  | 3               |
|                        | 6. Khantapara                    | ••  |                           | Rice Milling                | ••  | 3               |
| *                      | 7. Balasore                      | ••  | 11 ''                     | Rice Milling                | ••  | 6               |
|                        |                                  | ••• |                           | General Engineering         | ••  | ì               |
|                        |                                  |     |                           | Saw Milling                 | • • | 1               |
|                        |                                  |     |                           | Printing                    | ••  | 1               |
| •                      |                                  |     |                           | Electricity                 | ••  | 1               |
| •                      |                                  |     | _                         | Arms and Ammunitions        | • • | 1               |
|                        | 8. Rupsa                         | • • | 5                         | Rice Milling                | • • | 5               |
|                        | 9. Basta                         | ••  | 6                         | Rice Milling                | ••  | 6<br>. <b>5</b> |
|                        | 10. Jaleswar                     | ••  | 6                         | Rice Milling<br>Hosiery     | ••  | .o<br>1         |
|                        | 11. Lakhannath Road              | ••  | 1                         | Rice Miling                 | ••  | i               |

# LIST OF REGISTERED FACTORIES

| District                                | Centre of location               |     | Total numb |                             | es    | Number               |
|---|----------------------------------|-----|------------|-----------------------------|-------|----------------------|
| <b>(1)</b>                              | (2)                              |     | (3)        | (‡)                         |       | (5)                  |
| FURI (2) Factories)                     | 1. Puri                          | • • | 1          | Electricity                 | •     | 1                    |
| ( = 1 = <b>4</b>                        | 2. Sakhigopal                    | ••  | 1          | Rice Milling                | • •   | 1                    |
|   | 3. Jatni                         | • • | 6          | Wheat Flour<br>Rice Milling | ••    | 1<br>3,              |
|   |                                  |     |            | Lime                        | •••   | 1                    |
|   | 4. D.l                           |     |            | Bidi<br>Biog Million        | ••    | 1                    |
|   | 4. Balugaon                      | • • | 4          | Rice Milling<br>Saw Milling | ••    | 1<br>1               |
|   |                                  |     |            | Ice                         | ••    | $ar{2}$              |
| ·                                       | 5. Kaluparaghat                  | • • | 1          | Ice                         | • •   | 1                    |
|   | 6. Tangi<br>7. Bhubaneswar       | ••  | 1<br>5     | Rice Milling<br>Saw Milling | • •   | 1<br>5               |
|   | 8. Khandpara                     | ••  | i          | Printing                    | ••    | ľ                    |
|   | •                                |     |            | Ü                           |       |                      |
| SAMBALPUR                               | 1. Sambalpur                     | ••  | 99         | Rice Milling                |       | 2                    |
| (123 Factories)                         | z. bamow.pu.                     | ••  | •          | Oil Crushing                | • •   | $oldsymbol{\bar{2}}$ |
|   |                                  |     |            | Weaving                     | ••    | 1                    |
|   |                                  |     |            | General Engineering<br>Bidi | ••    | 1<br>82              |
|   |                                  |     |            | Saw Milling                 | • •   | 8                    |
|   |                                  |     |            | Sisal Hemp                  |       | <b>2</b>             |
|   | 2. Sason                         |     | . 0        | Dyeing and Bleaching        | • •   | 1<br>1               |
|   | 2. Dason                         | ••  | 10         | Rice Milling<br>Bidi        | ••    | 8                    |
|   |                                  |     |            | Tyeing and Bleaching        | ••    | 1                    |
|   | 3. Jharsuguda                    | • • | 10         | Bidi                        | • •   | 9                    |
|   | 4. Brajarajnagar                 |     | 1          | Saw Milling<br>Paper        | ••    | 1                    |
|   | 5. Bamra                         | ••  | 4          | Saw Milling                 | • • • | $oldsymbol{\dot{2}}$ |
|   |                                  |     |            | Printing                    | ••    | 1                    |
|   | 6. Bargarh                       |     | 1          | Woodware<br>Rice Milling    | ••    | 1<br>1               |
|   | 7. Burla                         | • • | ī          | Automobiles                 | ••    | î                    |
| GANJAM                                  | 1. Ramtha                        |     | 0          | 70                          |       |                      |
| (28 Factories)                          | 1. Kamrna                        | • • | 3          | Rice Milling Ice            | • •   | 2<br>1               |
| (*** = ******************************** | 2. Chatrapur                     |     | 1          | Oil Crushing                | ••    | î                    |
|   | 3. Aska                          | • • | 5          | Sugar                       | ••    | 1                    |
|   |                                  |     |            | Distillery Saw Milling      | ••    | 1<br>1               |
|   |                                  |     |            | Aurvedic Pharmacy           | ••    | i                    |
|   | 4.70.1                           |     |            | Automobiles                 | ••    | ĩ                    |
|   | 4. Berhampur                     | • • | 14         | Rice Milling Distillery     | ••    | 5                    |
|   |                                  |     |            | Oil Crushing                | ••    | 1                    |
|   |                                  |     |            | General Engineering         | ••    | 1                    |
|   |                                  |     |            | Saw Milling                 | ••    | 2                    |
|   |                                  |     |            | Hosiery<br>Electricity      | `     | 1<br>1               |
|   |                                  |     |            | Metal Works                 | ••    | i                    |
|   | 5 Daulahim 32                    |     | •          | Jewellery Workshop          | ••    | 1                    |
|   | 5. Parlakimedi<br>6. Russelkonda | • • | 1<br>4     | Rice Milling<br>Saw Milling | ••    | 1                    |
|   |                                  | ••  | •          | nau mmmg                    | ••    | 4                    |

# APPENDIX IV

| District .              | Centre of location             |     | Total number of Factories | Type of Factories                |       | Number      |
|-------------------------|--------------------------------|-----|---------------------------|----------------------------------|-------|-------------|
| (1)                     | (2)                            |     | (3)                       | (4)                              |       | (5)         |
| KORAPUT (31 Factories)  | 1. Gunupur                     | ••  | 2                         | Rice Milling<br>Distillery       | ••    | 1           |
|                         | 2. Rayaghada                   | ••  | 4                         | Sugar                            | ••    | 1           |
|                         |                                |     |                           | Distillery                       | ••    | 1           |
|                         |                                |     |                           | General Engineering Agar Factory | ••    | 1           |
|                         | 3. Koraput                     |     | 1                         | Rice Milling                     |       | •           |
|                         | 4. Jeypore                     | ••  | 11                        | Rice Milling                     | ••    | 1<br>8      |
|                         | or only know                   | ••• |                           | Distillery                       | . • • | ì           |
|                         |                                |     |                           | Tile                             | • •   | 1           |
|                         | F 15- 111                      |     |                           | Automobiles                      | • •   | 1           |
|                         | 5. Machkund                    | ••  | 2                         | General Engineering              | ••    | 1           |
|                         | 6. Boriguma                    | ••  | 2                         | Electricity Rice Milling         | ••    | 1<br>2<br>4 |
| •                       | 7. Kotpad                      | ••  | 4                         | Rice Milling                     | ••    | <b>4</b>    |
|                         | 8. Nowrangpur                  | ••  | 4                         | Rice Milling                     | • •   | 4           |
|                         | 9. Boipariguda                 | ••  | l                         | Saw Milling .                    | ••    | 1           |
| DHENKANAL               | I. Dhenkanal                   |     | 1                         | Saw Milling                      |       | •           |
| (17 Factories)          | 2. Meramundali                 |     | i                         | Saw Milling                      | ••    | 1           |
| (27 2 40001195)         | 3. Angul                       | ••  | 15                        | Bidi                             | ••    | 13          |
|                         | J                              |     |                           | Saw Milling                      | • •   | 1           |
| ·                       |                                |     |                           | Automobiles                      | ••    | 1           |
| KEONJHAR<br>(1 Factory) | I. Keonjhar                    | ••  | 1                         | Printing                         | ••    | 1           |
| PHULBANI<br>(1 Factory) | 1. Baudh                       | ••  | 1,                        | Tanning                          | ••    | 1 .         |
| •                       | •<br>•                         |     |                           |                                  | `     |             |
| BOLANGIR                | 1. Titlagarh                   | • • | 8                         | Rice Milling                     | • •   | 1           |
| (11 Factories)          |                                |     |                           | Tannery<br>Weaving               | ••,   | 1           |
|                         |                                |     |                           | Tile                             | ••    | i           |
|                         |                                |     |                           | Saw Milling                      | ••    | ī           |
|                         |                                |     |                           | Printing                         |       | 1           |
|                         |                                |     |                           | B. N. R. Workshop                | ••    | 1           |
|                         | 0 To 1                         |     | 0                         | - Graphite Mining                |       | 1           |
| •                       | 2. Bolangir<br>3. Kantabanji   | • • | . 2                       | Bidi<br>Saw Milling              | ••.   | 2<br>1      |
|                         | o. Kantananji                  | • • | •                         | Daw Mining                       | ••    | •           |
| SUNDARGARH              | 1. Birmitrapur                 | _   | . 3                       | Lime                             | • •   | 1           |
| (8 Factories)           | 2. Timinahai                   | •   | . •                       | Lac                              | ••    | 2           |
| <b>\ &gt;</b>           | 2. Hemgir Road                 | •   | . 1                       | Saw Milling                      | ••    | 1 2         |
|                         | 3. Bisra                       | •   | . 2                       | Saw Milling                      | • •   | 2           |
|                         | 4. Jaraikella<br>5. Rajgangpur | • • | 1                         | Saw Milling<br>Cement            | ••    | 1           |

# 489

# LIST OF REGISTERED FACTORIES

| District                     | Centre of location | Total number of Factories |          | Type of Factories                          |    | Number      |
|------------------------------|--------------------|---------------------------|----------|--|----|-------------|
| (1)                          | (2)                |                           | (3)      | (4)  |    | (5)         |
| KALAHANDI<br>(10 Factories)  | 1. Khariar Road    | ••                        | 7        | Rice Milling<br>Soap<br>Saw Milling<br>Ice | •• | 4<br>1<br>1 |
|                              | 2. Nawapara Road   | ••                        | 2        | Rice Milling Saw Milling                   | •• | i           |
| ,                            | 3. Kesinga         | • •                       | 1        | Rice Milling                               | •• | ī           |
| MAYURBHANJ<br>(10 Factories) | 1. Baisinga        | ••                        | 1        | Rice Milling                               | •• | . 1         |
| <b>(</b> ,                   | 2. Betnoti         | ••                        | 3        | Rice Milling                               | •• | 3           |
|                              | 3. Baripada        | ••                        | 3        | Rice Milling                               | •• | ĭ           |
|                              | 30 Z.m.Pa.u.       | ^                         |          | Oil Crushing<br>Textile                    | •• | 1           |
|                              | 4. Rairangpur      | ••                        | <b>2</b> | Potteries<br>Iron and Steel                | •• | Î.          |
| •                            | 5. Bahalda         | ••                        | 1.       | Glass                                      | •• | î           |

Active-workers 247-249, 295.

Activities—unproductive 295, 297; economic 295.

Age—age and marital ratio 369; reliability of age statistics 383; age pyramid 383-385; literacy by age 401-402.

Age group—fertile age group 370-371; late reproductive and old age group 371.

Age structure—unfavourable 101; special features 385; correlation with economic condition 386.

Agrarian—reforms 216-217.

Agricultural—expansion 123-124; development 216; reforms 216; backwardness 267; problem surveyed 269-270; pressure on agricultural land 212.

Agricultural classes—Chapter IV; classification 113-114; percentage in rural areas 163; percentage in urban areas 199; ratio of agricultural population 220; livelihood classification 220; working population among agricultural classes: their secondary m/l 226; proportion of different classes 227, 228; agricultural classes of 1931 and 1951, 227; correlation with holdings of different sizes 231; population classified 267.

Agricultural holdings—source of information 229; definition 229; distribution 229-233; size of holdings 230-231, 233; See Holdings.

Agricultural Labour Enquiry—classification of population 222-223; findings of the Enquiry regarding holdings 230.

Agricultural labourers—percentage 118; rural percentage 163; population, dependency and secondary m/l 243; shortage of labour 243-244; under employment 268.

Agriculture—importance of 211; abnormal dependence on 226, 267; dependence on 257-258; difficulties in system 268.

Anglo-Indian-population 437.

Angul-annexation of 4.

Area—of England and Orissa 6; change in Orissa's area 7; Table 132; area of forest, cultivated and uncultivated lands, fallows 250; sown area 250-252.

R

Backward classes—Section IV, Chapter VII (418-433); other backward classes 429-431; backward population 7431; ameliorative measures 432-433.

Balasore—formation of district 4; spread of Burdwan fever 37; low standrad of health 38; history of population since 1872, 52-56; condition of health 161; growth of town 187.

Bauxite-deposits 13; mining 302.

Bengali-language 408-409.

Berhampur—growth of town 186.

Bhag tenants-119.

Bhudan Yajna-merits and demerits 268.

Bilingualism—definition and percentage of speakers 409-410.

Birth control—126-127.

Birth rate—of -Orissa compared with other countries and States 100-104; of rural areas 157-159; of urban areas 193-194; wrong basis of calculation 97; absence of estimates 99; causes of high rate 100; decline in rate and causes 100-103; trend 103; decline through improved way of life 127.

Bolangir—history of population since 1872, 76-78.

Boys-boys and girls 377.

British rule—termination of 5.

Buildings—construction 314.

G

Car—See Motor Vehicle.

Cart—Census 318.

Castes—scheduled 427-429.

Cattle-census 213.

Cement—manufacture 313; factory 325.

Census—first decennial census 34; census of 1881, 34; of 1891, 34; of 1901, 35; summary of censuses 1872-1901, 36; census of 1911, 36; of 1921, 37; of 1931, 38; of 1941, 39; of the last decad: 40-45.

Chemicals—manufacture 311.

Children-young children 375-376; See Boys.

Christian-religion 416.

Chromite-mining 14, 302. .

City—definition 175; growth of Cuttack 183-185; Indian cities compared 185.

Climate—of Orissa 17-20.

Coal—occurrence and fields 13; mining 301.

Coastal Division—geology and minerals 12; climate and rainfall 18-19; distribution and density of population 31; See Natural Division.

Commerce—percentage of population 120, 163; services and industries 315.

Communications—See Transport.

Condition—in pre-census days 33; material condition in last decade 40-44; health condition in rural areas 161-162; health condition in urban areas 195-198, 202; condition of cultivators of class II, 241; of housing 355; correlation between age structure and economic condition 386.

Construction—of buildings, roads, bridges, irrigation works, etc., 314.

Consumer—ratio of workers and consumers 248.

Consumption—per capita 261; actual food consumption 261-263.

Contraceptive measure—secondary importance

Cottage Industries—census of 285; summary 324; See Handicrafts.

Cotton—See Textiles.

Crop—rotation of 213; acreage of all crops 256; cash crops 257; preference for food crops 266.

Cross Section-of Orissa 3-4

Cultivating labourers.-See Agricultural labourers.

Cultivation—progress of 250-266, 269-270; area of cultivated and uncultivated land 250; extension of 265.

Cultivators of land owned—percentage of population 118; percentage in rural areas 163; population, sub-classes, dependency and secondary m/l 237-239.

Cultivators of land unowned—percentage of population 119; percentage in rural areas 163; population, sub-classes, general condition and secondary m/l 240-241.

Cuttack—formation of district 4; history of population since 1872, 49-52; condition of health 162; growth of city 183-185.

D

Dairy—products 308.

Death—from different diseases 107; fight against 123; causes of 160.

Death rates—of Orissa compared with other countries and States 104-106; of rural areas 159-161; of urban areas 194-195; wrong basis of calculation 97; absence of estimates 99; annual rate 105; high rate 105; decline in rate 106; trend 109.

Deficit—districts 249.

Density—general population 28-32; of States in India 28; of foreign countries 28; Tables 132-133, 169, 205; rural density 147, 166; urban density 176-177; of cities in India 177.

Dependants—causes of high incidence of dependency 238; dependence on agriculture 257-258, 267; non-agricultural population 289; See Earning dependants, Non-earning dependants.

Development—of towns 203.

Dhenkanal—history of population since 1901, 69-71.

• Diet—composition 263.

Displaced Persons—number and period of arrival 90-91; definition, volume of arrival, occupations, etc. 434-436.

Distillation—industry 309.

Distribution—general population 28-32; rural population 144-147, 166; urban population 176-180, 202; of sex in towns 179-180; of non-agricultural population 288.

District—density of population 32; distribution of rural population 145-146,149, immigration from other districts 155; rural birth rate 158; condition of health 161-162; rural livelihood pattern 165; rural population 149; urban population 183; movement of urban population 190-191; percentage of agricultural and non-agricultural population in urban areas 200; proportion of agricultural classes 228; distribution of holdings 231-233; ratio of non-agricultural population 288; deficit districts 249.

INDEX 493

District Census Handbook—description and distribution 143.

Divorced—persons 366.

#### Ε

Earning dependant—definition 221; secondary m/l 224-225; cultivators of land owned 237-238; See Dependant.

Economic—crisis 42-43; outlook in rural areas 167; holdings 235-236; activities 295.

Education—Section I, Chapter VII; services 320, 402; institutions 403.

Elderly—persons 381-382.

Electricity—development and schemes 326-327; supply and manufacture of machineries 311.

Emigration—from Orissa 91-95; decline in number 91-92; occupation of emigrants 92-94; of Muslims 94-95; Tables 137.

Employees—definition, proportion, ratio, etc. 295-297.

Employers—definition and proportion of population 295-297.

Employment—under-employment of agriculturists 268.

Engineering—workshops 311.

England—area compared with Orissa 6.

Epidemic—influenza of 1918, 37; epidemics in 1931-1941, 39-40; outbreak in different districts from time to time 49-85.

Estates—Abolition Act 216.

Extension-of cultivation 265.

# F

Factory-list of 326; Appendix IV.

Fallow land—area 250; figures for different years 265.

Family—composition 358-359; trend of family size 359.

Famine—of past centuries 33; Na-anka famine of 1866, 33, 34; Ganjam famine of 1889, 35; Sambalpur famine of 1900, 35; famine or scarcity conditions in different districts from time to time 49-85.

Farming—collective: co-operative 236.

Female—pockets of female minority 363; greater survival of infants 373; See Sex Ratio. Fertility-loss of 213; fertile age group 370-371

Feudatory States—area 7; See Tributary Mahals.

Fever-high death rate from 107-108.

Fishing—industry 298, 324; marine, estuarine and inland 299.

Flood—of 1886, 35; of 1896, 35; of 1931-41,39; occurrence of flood in different districts from time to time 49-85.

Food—position precarious 41-42; effects of food scarcity 101; habit of the people 263-264; production to be increased 264; preference for food crops 266; production difficulties 266.

Foodstuff—processing and manufacture 303-309; retail and wholesale trade in 315.

Footwear-industry 307.

Forestry-industry 299.

Forests-of Orissa 21-23; area 250.

Fragmentation—of the holdings 235.

Fuel—retail trade 315.

Furniture-manufacture 312.

# G

Gangpur—transfer from Chotanagpur 4.

Ganjam—transfer from Madras 4; history of population since 1901, 62-66.

Geographical setting —of Orissa 1.

Geology-of Orissa 9.

Girls-boys and girls 377.

Glass-occurrence of glass sand 14; factory 325

Gond-tribe 423-424.

Grain-industry 307.

Growth—of population 33-85; during last 50 years 45-46; in other States in India 46; in foreign countries 46; in districts of Orissa 49-85; rural population growth 148-152; of villages 150; urban population growth 181-188, 202; growth of city 183-185; growth of tonws 186-188; progress of cultivation in relation to growth of population 250-266.

Growth rate—mean decennial 44-45; of Orissa and India 122; inter-census 134-135, 170-171, 206-207; rural rate decreasing 148; causes of decline 148; decennial rural growth rate 148-149; of rural population 166; urban growth rate slow 181.

Н

Handicraft-decline of 282-284.

Handloom—industry 304-305.

Health—of pulbic in last decade 41; unsatisfactory public health 106-107 a matter of concern 121; of rural public 166-167.

Health condition—in rural areas 161-162; in urban areas 195-198, 202.

Health services—in Orissa 320.

Hindi-language 408.

Hindu-religion 415.

History-of Orissa, 4-6.

Holdings—fragmentation 235; economic holdings 235; See Agricultural Holdings.

Home-born proportion-87.

House—definition 351; increase in number 353; overcrowding 354; pressure of population 354; shortage in number 355; housing condition 354.

Household—definition 352; in rural areas 353; in urban areas 354; sizes 357; distribution 358; sex ratio 358.

ı

Immigration—into Orissa, natural divisions and districts 88-91, 155-156; Tables 136, 172, 210; from other districts 155.

Immobility—of population 86; extent of 154-155. Implements—antiquated agricultural implements 213.

Improvement—qualitative improvement of population 127-128.

Independent Workers—definition, proportion, etc. 295-297.

India—population zones 8; 1951 population 25; density and distribution of population 28-30; birth rate 100; death rate 104; low rate of population growth 122; percentage of rural population compared with foreign countries 144-145.

Industrial—resources 284; population: See Non-agricultural classes.

Industrialization—in 1921-31, 38-39; consequence of 103; arguments in favour and against 125.

Industry—importance and limitations of industrial occupations 281-282; rise of modern industries 282-284; primary industries 298-300; cottage, medium and heavy industries 324-325; mining 325-326.

Infant—definition and number 373-374.

Infantile mortality-decline 103.

Inflation—of currency 42-43.

Influenza—epidemic of 1918, 37, 102.

Inland division—geology and minerals 11-12; climate and rainfall 17-18; distribution and density of population 31; See Natural Division.

Internal movement—89-90.

Irrigation—insufficiency of 212, 253-255; irrigated more than once 255; construction and maintenance of irrigation works 314.

Iron—deposits 12-13; ore mining 301-302; manufacture 310.

J

Japan—example in agricultural prosperity 214-216; example in industrial advancement 284-285.

Jewellery-manufacture 313.

Jute-industry 306.

# K

Kalahandi—transfer from C. P. 4; history of population since 1901, 80-82.

Keonjhar—history of population since 1872, 71-73.

Khondmals—ceded 4.

Kond-tribe 422-423.

Koraput—transfer from Madras 4; history of population since 1891, 66-69.

Kumbhipatia—religion 417.

L

Labour—system 243; shortage of agricultural labour 243-244.

Labourers—See Agricultural Labourers.

Land—reforms 216; per capita 252-253.

Land area—of forests, cultivated and uncultivated lands, fallows 250.

Language—Section II, Chapter VII (405-412); tribal languages 405, 408.

Leather—industry 307; retail trade 315.

Limestone—deposits 14.

Literacy—Section I, Chapter VII (398—404); definition 398; comparison with other States 400.

495

Livelihood—pattern 113-120, 163-165, 199-201; classes 113-115, 289; principal means 115; comparison with other States 116-117; distribution of population by livelihood classes 118-120; Tables 172, 209; livelihood classes of agricultural population 220; livelihood sub-classes 221-222; secondary means of livelihood of agricultural classes 224-226; literacy by livelihood classes 402.

# M

Machinery-manufacture 311.

Mahanadi-description of course 2-3.

Malaria-high death rate 107.

Male—excess of married males 368-369; See Sex Ratio.

Manganese-mines 13; mining 302.

Manufacture—of foodstuffs, textiles, leather, etc. 303-309; of metals, chemicals and products 310-311; of wood, non-metals, bricks, cement, paper, etc. 312-313.

Manuring-255-256.

Marriage—marital status ratios 366-372; early marriage 370; late marriage 371.

Material condition—in the last decade 40-44.

Mayurbhanj—merger with Orissa 5; history of population since 1872, 83-85.

Means of livelihood—principal 115.

Median—size of agricultural holdings 233-235.

Medical—preparations 311.

Merger-of states 5.

Metal—mining 302; processing and manufacture 310-311; non-ferrous 310.

Mica-occurrence 14.

Middle aged—i ersons 379-380.

Migration—earlier accounts 86; types of 87-88; net migration 95-96; Tables 138; limitation of migration statistics 153; rural-urban migration 153-154; extra-State migration 154; from beyond India 155, 191; from other parts of India 155, 191; from rural areas 189; migrants from other districts 190-191; See Movement; Immobility; Immigration; Emigration.

Mill-textile 305.

Mineral—of Orissa 9-15; early history of mining 9; unmethodical development 10; resources 10; economic 12.

Mining—industry 301-302, 325-326.

Mother tongue-See Language.

Motor vehicle—census of 318.

Movement—of general population 86-96; of rural population 153-156; of urban population 189-191; inter-village movement 154; classification of figures 154; See Migration.

Muslim—religion 415-416.

# N

Natural Division—description of 7-9; growth of population 47-48; livelihood pattern 117; rural distribution 145; growth of rural population 149; immigration into 155-156; rural birth rate 158; rural death rate 159; rural livelihood pattern 164-165; distribution of urban population 179; growth of urban population 182; movement of urban population 189-190; livelihood classes in urban areas 200; proportion of agricultural classes 228; ratio of non-agricultural population 288.

Natural increase—of general population 97-112 of rural population 157-162; of urban population 192-198; calculated figures 109-110.

Natural population—variation 96; Tables 138.

Nawapara-transfer from C. P. 4.

Net area—See Area.

Nilgiri-national movement 5.

Non-agricultural occupations—immportance of 281; limitations of 281; index of 287.

Non-agricultural population —Chapter V; classification 114-115; percentage in rural areas 163-164; percentage in urban areas 199; percentage of population in different census 282; ratio of population 288; distribution 288; summary 324.

Non-cultivating owners of land—percentage of population 119; rural percentage 163; population, dependency and secondary m/l 245-246.

Non-earning dependant—definition 221; cultivators of land owned 238; See Dependant. Non-tribal—Religion 417.

# n

Occupation—unproductive 295, 297.

Occupational—Distribution in 1931 and 1951 censuses 292-294.

Oil-vegetable 308.

Old persons—See Middle aged and Elderly persons.

Optimum population—129-130.

Orissa—geographical setting 1; physical features 1-2; cross section 3-4; history 4-6; formation into separate province 4, 39; resources 5-6, 234; comparison of areas 6; population 25; over populated ! 129; ability to support larger population 130; future trend 130-131; development of resources 327.

Oriya—language 407.

Other services and miscellaneous sources—percentage of population 119-120, 163.

Over population-129.

Ownership of land—definition 223; See Cultivators of land owned.

Paper—manufacture 313; mill 325.

Paroja—tribe 425.

Partly literate—definition 398; actual number 400.

Patna-transfer from C. P. 4.

Per capita—land 252-253; consumption of food 261, 269.

Pharmaceutical—preparations 311.

Phulbani—history of population since 1901-73-76.

Physical features—of Orissa 1-4.

Police-station—small and large 32.

Population—Chapter I; zones 7; of Orissa 25; of other States in India 25; distribution and density of 28-32; growth of 33-85; of Orissa in 19th century 33; trend 46-47; movement of 86-96; world population 121; qualitative improvement 127-128; optimum 129-130; over population 129; growth of population in relation to progress of cultivation 250-266.

Population problem—primary 122; complexity of 123; ultimate solution 128-129.

Ports-in Orissa 318-319.

Postal—services 319.

Post Office—remittances and deposits in last decade 43.

Poverty—in plenty 130.

Pressure—on agricultural land 212.

Price—of commodities 37; of common rice 42; rise in 43.

Primary-industries 298-300.

Processing—of foodstuffs, textiles, leather, etc. 303-309; of metals, chemicals and products 310-311; of wood, non-metals, structural products such as, bricks, tiles, etc., cement, paper 312-313.

Production—actual production of food 261-263; food to be increased 264; difficulties in food production 266.

Production other than cultivation—percentage of population 120, 163.

Productivity—causes of low productivity 212-214.

Progress-of cultivation 250-266, 269-270.

Public health—in last decade 41; unsatisfactory 106-107; a matter of concern 122; in rural areas 166-167.

Pulses—industry 307.

Puri—formation of district 4; history of population since 1872, 56-59; growth of town 186

Pyramid-age pyramid 383-385.

R

Railway—increase in traffic 43-44; inadequacy need for extension 316-317.

Rainfall-of Orissa 17-20.

Rairakhol-transfer from C. P. 4.

Rate-See Growth rate.

Registration area—of vital statistics: not extensive 97-98; rural registration area 157; urban registration area 192-193.

Registration system—of vital statistics: defects, omissions, procedure, deterioration in system 97-100; extent of error 111-112.

Religion—Section III, Chapter VII (413-417).

Research—services 402.

Resources—of Orissa 5-6, 284; mineral 10 development of 327.

Rice—price of 42; Vs. wheat 264; mills 325, 326. Rivers—of Orisra 2-3.

Road—transport 120, 317-318; construction. 314; road mileage 317.

Rope-making-industry 306.

Rotation—of crops 213.

Rural—Chapter II; rural-urban proportion 144; rural percentage in India and other countries 144; population of districts 149; uplift 167-168; rural character of towns 173; See Village.

S

Salt-manufacture 308, 324.

Sambalpur—transfer from C. P. 4; history of population since 1872, 59-62; growth of town 187.

Sanitary-services 314.

Santal-tribe 424.

Saora—tribe 424-425.

Sarada—Act, 371-372.

Sarana—religion 416-417.

Scheduled castes-See Castes.

Scheduled tribes-See Tribes.

Secondary means of livelihood—of agricultural classes 224-226; of cultivators of land owned 238-239; of cultivators of land unowned 241; of cultivating labourers 242-243; of non-cultivating owners 245-246; of non-agricultural population 291-292.

Self-sufficient-districts 249.

Self-supporting person—definition 221; having secondary m/l 225; cultivators of land owned 237; non-agricultural population 289-290.

Semi-active worker-See Worker.

Services—miscellaneous 322-323; village 320.

Sex ratio—In Orissa and other States 360; in rural and urban areas 363; among agricultural and non-agricultural classes 364-365; fluctuation in female ratio 360-361; causes of decline 362; of young children 375; of boys and girls 377; of young men and women 378; of middle aged persons 379; of elderly persons 381.

Sikh-religion 417.

Silk-industry 306.

Small scale industries—See Cottage Industries.Smallpox—incidence 109; recorded number of deaths 107.

Soil—description 15-17; erosion 17.

Sonepur—transfer from C. P. 4.

Statistics—General population: references 25-26; area, population and density 132; variation and density 133; inter-census growth rate 134-135; immigration 136; emigration 137; migration 138; natural population 138. Rural population: references 142-143; distribution 169; variation and density 169; inter-census growth rate 170-171;

livelihood pattern 172; immigration 172. Urban population: references 175; distribution 204; variation and density 205; intercensus growth rate 206-207; towns classified and city 208; livelihood 209; immigration 210. Vital statistics: of general population 134-135; of rural population 170-171; of urban population 206-207. Agricultural: deficiency of statistics 217; Subsidiary Tables 218-219, 271-279. Industrial: reliability of non-agricultural statistics 286; Subsidiary Tables 328-350. Non-census statistics: inadequate erroneous 26; statistics 26-27, dispensable 141. Families. sexes and age: reference 352; compar bility 352; Subsidiary Tables 387-396; reliability of age statistics 383. Literacy and education, religion and backward classes -Subsidiary Table 7 series 438-451.

Steel-See Iron.

Stock raising-population 298.

Stone—quarrying 302.

Storage-services 319.

Students—number 403.

Sub-classes—livelihood 221; proportion 223-224; cultivators of land owned 237; cultivators of land unowned 240-241; non-agricultural population 289.

Sugar-industry 308.

Sundargarh—history of population since 1872, 78-80.

Surplus—districts 249; food 261; exportable 263; real cause of food surplus 269.

T

Telugu—language 408.

Terminology-115.

Textile—processing and manufacture 303-306; retail trade 315; industry 324; mills 325.

Tobacco—industry 308.

Town—emergence of 173; definition 174; classification 177-178; distribution of population 178-179 revision of list of towns 183; future towns 183; growth of towns 186-188.

Trade—retail trade in foodstuffs, fuel, textiles, etc. 315; wholesale trade in commodities 315; See Commerce.

Transport—percentage of population 120; transport by road, railway and water 120, 316-319; manufacture of equipment 310.

Trend-change since 1921, 46-47; future 130-131

Tribal-religion 416; language 405, 408.

Tribes—scheduled 419-427; problem of tribes 425-427.

Tributary Mahals-4: See Feudatory States.

#### u

Unmarried persons—See Marriage.

Unproductive—occupations 295; activities 297.

Urban—Chapter III; rural-urban proportion 144; percentage of population 176; density 176; composition of urban population 189.

Urbanization—causes of slow urbanization 173-174; increasing tendency 174; extent. of 178.

Urdu-language 408.

Utility-services 314.

# V

Vanadium-occurrence 14.

Vegetable oil-industry 308; factory 325.

Village—stability of life 141; definition 141-142; uninhabited village 142; average population 146; actual number in different districts 150; growth 150-151; large villages 151; watchmen and servants 320; See Rural.

Vital statistics—wrong basis of calculation 97; procedure of registration 98-99; deterioration in system 99; value of 100; See Statistics.

W

Waste lands—area 265.

Water-Transport 318-319.

Wearing apparel—industry 307.

Weaving-industry 304.

Wheat- Vs. rice 264

Widowed—persons 366, 367.

Wood—wood cutting industry 299; manufacture of wood products 312.

Wool-industry 306.

Worker—active and semi-active workers in cultivation 247-249; livelihood class 247; ratio of workers and consumers 248; independent workers 295-297.

Working population—among cultivating labourers 242; among non-cultivating owners-245.

Workshop—engineering 311.

World population—fast growth 121.

World War II-effects 40.

# Y

Year—1921 a turning point 121; importance of '1921, 148.

Yield—low yield of crops 211; improvement of yield 264-265.

Young-children 375-376; men and women 378.

# Z

Zamindary—abolition 216. Zones—of population 7.