VOCATIONAL SURVEY REPORT NAGPUR DISTRICT



National Systems Una National Institute of Educational Planning and Aministration 17-B. Sri Aurbado Mars New Polis 1100109 BOC: No. 12, 200

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PREFACE

Education has important role to play in the process of economic development. Its main function is to create human capital by augmenting the supply of trained, competent manpower for economic development. The Education is a unique investment in the present and future. The growth of employment opportunities and human resource development must be inter-dependant for balanced development of economy. The Education which develops specific skill relevant to economy and environment should receive priority in the development process. Vocationalisation of Education is, therefore, being implemented in the State as a National Policy.

Vocational Education Scheme was initially started in the Maharashtra State in academic year 1978-79 in selected nine districts. Subsequently the scheme was extended in phased manner to all districts during sixth plan period.

The Govt. of India announced National Policy on Education (NEP) in 1986. The National Policy also gives stress on Vocational Education. It recommends introduction of systematic, well planned and rigorously implemented programmes of Vocational Education. It envisages identification and implementation of need-based Vocational Courses to reduce the mis-match between demand and supply of skilled, semi-skilled and middle level supervisory manpower.

The New Educational Policy 1986 emphasises need of introduction of Vocational Education Programme having minimum competancy concept required for job in the world of work. It is, therefore, inevitable that Vocational courses are need-based and have relevance with the economic development of the area. The

manpower needs differ from district to district and therefore detailed district Vocational Survey considering tabsil as unit is one of the most important preparations for introduction of Vocational courses.

It is, therefore, considered necessary not to restrict the limited survey of employment potential in organised sectors, but to cover all sectors of economy and also to present available statistics and data for each tabsil in the district. Co-relation of various data in various sectors of economy of tabsil very effectively presents picture of existing level of development and future potentialities. The integrated picture thus emerged will be helpful for planning the vocational education.

As per the directives of the Govt, of Maharashtra the districts vocational survey has been carried out in all districts the State. The report presented here is of Nagpur district.

The Adhoc committee was set up in Nagpur district under Chairmanship of Collector of district who in turn constituted sub-committees for different subjects. The sub-committee submitted their recommendations to district committee. All these recommendations were considered while preparing this report.

Preparation of such type of report is a laborious task and involves co-operation of various departmental officers at all levels, industries, various establishments, Junior Colleges, Higher Secondary Schools, financial corporations of Govt. and other institutes functioning in the district. The present report is prepared after sustained and laborious efforts put in by Shri V.S.Awaghad, the District Vocational Education & Training Officer, Nagpur under guidance of Shri S.G.Ghamandi, Dy.Director (Statistics) and Shri D.M.Pimpalkhute, Dy.Director. I am also

grateful to Shri N.V.Bhandarkar, Ex.Dy Director for his helpful attitude and assistance rendered. But for the team work, the report could not have been presented. I, therefore, put on record my deep sense of appreciation for meticulous work done by these officers. I am also thankful to all those who have contributed in the preparation of this documents.

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NAGPUR DISTRICT LOCATION MAP Madhya Pradesh Gujrat State Nagpur Bhandara Jalgaon Amravar. Dhule Wardha Buldhana Akola Yavatmal Nasik Chandrapur Aurangabad Gadchiroli Jalna Parbhani Thane Ahmednagar Beed Andhra Pradesh Nanded Punc Latur bsmanabad Satara Karnatak Solapur State rabian pa atnagi Sangli Kolhape Si dhudurg **MAHARASHTRA** STATE

OBJECTIVE AND METHODOLOGY FOR CONDUCTING VOCATIONAL STUDY/SURVEY

HISTORICAL BACKGROUND OF VOCATIONAL EDUCATION

- 1.1.1 The role of education is to help both young and adults to acquire knowledge, skills and attitudes which will enable them to accept and adjust to the changes which are both casual and consequential to the modernisation. The planned vocational education and training and its effective implementation would be a better approach to link education with development of **Conomic activities.
- 1.1.2 Vocational Education has been defined in many ways by different experts. The comprehensive defination is provided by UNESCO in its recommendation in 1974. Accordingly Vocational and Technical Education has been defined as a comprehensive term embracing these objects of the educational process, involving, in addition to general education, the study of technologies and related sciences and acquisition of Practical skills, attitudes, understanding and knowledge relating to occupations in the various sectors of economic and social life. Vocational Education should further contribute to the Social, Cultural and ecconomic development, while, at the same time developing the potential of individual for active participation in implementing and achieving these goals. It should lead to an understanding of the scientific and technological aspects of contemporary civilization in such a way that person can adjust to the environment and critical scientific and technological changes.
- 1.1.3 Normally, vocational education has been understood as the education designed to prepare skilled and semiskilled personnel, limited skill level, and middle level semi professional personnel for one or more group of occupations, trades or jobs.
- 1.1.4 An historical review education reveals that the concept of vocational education has been the subject of discussion for more.

than a century. The Kothari commiss (1964-66) undertook a comprehensive review of all aspects of education with a particular stress on vocational education. Some of the main recommendations of commission were -

- 1. National Pattern of 10+2+3 system of education.
- 2. Work experience as an integral part school education.
- 3. Two distinct streams Academic and Vocational during stage 2 after (+10) with a possible coverage of 50% of enrolment of students in vocational stream.

The Commission had realised the effects of uncontrolled rush to Universities resulting in unemployment problem and emphasised the need of vocational education on pricrity during the schooling age of students.

- 1.1.5 The policy (1968) expressed the need to create increased facilities for technical and vocational education so that facilities should cover the fields like "agriculture, Industry, trade, medicine and health". With more emphasis on vocational courses having terminal concept immediately after leaving school education with prospects open for further education in future.
- 1.1.6 The working group report of Planning Commission on Higher Education for seventh plan also stresses the importance of vocational education and laid down some guidelines.
- 1.1.7 Since adoption of education policy of 1968, there has been considerable expansion of educational facilities all over country at all levels. The Government of India in 1985 carried out appraisal of the existing education scene, followed by a nation-wide discussion/debate. After studying the views and suggestions received by different quarters, the Government of India announced new National Policy on Education (NEP) in 1986. The National Policy gives much stress on vocational education. The main recommendations are given below in nut-shell.

- i) The introduction of systemate, well planned and rigorously implemented programme on vocational education to enhance individual employability, to reduce mist-match between demand and supply of skilled manpower and provide alternative for those persuing higher education without particular interest or purpose.
- ii) Vocational education should be distinct stream, intended to prepare students for identified occupations spanning several areas of activity.
- iii) All economic activities should be inter-locked with the education and training of appropriate categories. Efforts should be made to device number of courses based on agriculture, marketing, social services, para-medical, food craft and misc. sector. The emphasis should also be given on development of attitudes, knowledge and skills for entrepreneurship and self employment.
 - iv) Non-formal, flexible and need based vocational programmes should be made available to neoliterates, school drop-outs and youth who have completed the primary education, persons engaged in work, unemployed and partially employed persons. Special attention in this regard should be given to women.
 - v) Vocational courses, should cover 10 percent of students by 1990 and 25 percent by 1995. Review of courses offered should be taken regularly.
- vi) Special programme for women, persons from rural areas and also from weaker section of society should be introduced on large scale.
- vii) Tertiary level courses should be organised for young persons who graduate from academic stream and may require vocational courses.

DECISION OF GOVERNMENT OF ME RAS RAS

- The Government of Maharashtra darlier had accepted the recommendations time to time on Educational Policy as envisaged by the Government of India. After debate with MLAs/MLCs/ Educationalists and Representatives of Educational Institutes and after careful consideration of various schemes of vocational educatiion, the Government of Maharashtra provided facility of few vocational courses on Pilot basis to the students of Higher Secondary classes from academic year 1978-79. This vocational education programme was of a nature of bifocal concept where-in two objectives were kept in mind viz. first that students who would like to join world of work could go after having a six months' training on the job - and second to join university education in academic or professional stream. Initially it was introduced · in Greater Bombay, Nasik, Kolhapur, Amrawati, Aurangabad, Nagpur in few selected educational institutions. Subsequently the scheme was extended in phased manner to all districts in Maharashtra during the sixth and seventh five year plan.
 - National Education Policy 1986 announced by Government of India which stresses the need of introduction of systematic, well planned and need based vocational education programme having terminal concept based on the minimum competencies in required job areas in world of work. The vocational Education on terminal concept and entry to world of work immediately after competition of prescribed vocational courses are synonymous. It is, therefore, inevitable that vocational courses are need-based and only those which are required by the Society for economic development of particular area. Hence 'Vocational Survey' at micro-level is pre-requisite of implementation of vocational education programme for its success.

NEED FOR VOCATIONAL SURVEY

- 1.2.3 The need of conducting vocational survey is already established by various document viz. Higher Secondary Education and its vocationalisation "Learning to do" brought out by NCERT and various committees appointed by the Government of India. The National Review Committee (1978) recommended that the vocational courses should be preceded by vocational surveys and should have relevance to the economic life of district/region and should be identified on the basis of properly conducted vocational surveys and such surveys be conducted not as one time job but it should be a continuous process.
- 1.2.4 The new Education Policy 1986 endorse this view and more so it should be diversified from +5 or +8 according to need and even it should be made available to drop-outs from the schools. The NEP also stress that it should be expanded on the principles of non-formal extension education.
- 1,2,5 The vocational education provides one or more skills to students. The main objectives of the vocational education are visualised as under
 - i) To help for removal of unemployment.
 - ii) To meet the need of Semi-skilled, limited skilled, skilled level manpower for growing economic sectors.
 - iii) To prevent rush to degree courses, in general education and de-link the degrees from the jobs.
 - iv) To prepare the students for service sector need.
 - v) To bring the Social transformation and 'dig#nity of labour'.
 - vi) To identify and implement need based vocational course with more emphasis on women, rural and weaker sections and make available the avenues open for employment and self-employment in the local areas to avoid migration of population.
- 2.6 Vocational surveys will help to a great extent to translet above mentioned objectives into reality. Hence the Government of

Maharashtra decided to conduct voc. the survey of all districts of the state.

OBJECTIVES OF THE SURVEY

- 1.3.1 It is widely accepted for specific accupation and training imparted to prepare for specific accupations should have linkage with the man-power needs and developmental demands of the areas concerned. Manpower needs however differ from area to area on account of natural restourses available, imbalance in economic development, political awareness etc. Education and Training Programmes are therefore required to be formulated with specific employment needs of the area/district. This necessitate the conduct of districtwise vocational surveys with objectives shown below
 - 1. To find out the available range of occupations.
 - To identify emerging vocations and level of competancies needed.
 - 3. To list out evenues of self employment.
 - 4. To list out educational facilities available in area.
 - 5. To make reasonable estimates of manpower, wherever possible, of various levels skill-wise and education-wise.

APPROACH TO THE PROBLEM -

- 1.3.2 The conduct of vocational survey of area/district is an waimportant step of manpower planning. But the manpder planning cannot be done in isolation as it is an integral part of economic planning and it is the out-come of the educational policy and hence these have to inter-act with each other. There are various approaches to this problem but each approach followed in isolation has its limitations. So a comprehensive approach is proposed as indicated below-
 - 1. Study of data of occupations and manpower requirements in the existing establishments, probable expansion and emerging/ prospective establishments in all economic sectors of development.

- 2. To acquaint with the views the need of vocational education and training in various sectors of development from the knowledgeable persons with reference to the rapid development in rural and urban areas due to implementation of development planss.
- 3. Identify areass of self-employment and probable occupations with help of development authorities, progressive cultivators and experts in the fields.

TECHNIQUES ADOPTED -

- 1.4.1 To translate the comprehensive approach into action, schedules are designed as shown below.
- Schedule 1 : A survey of existing Industrial/Trade/Commerce/Transport establishment.
- Schedule 2 : A survey of prospective Industrial/Trade/Commerce
 -----Transport establishment.
- Schedule 3 : Views of the knowledgeable persons.
- Schedule 4 : Occupational needs of remaining period of seventh plan (1988--90).
- Schedule 5 : A survey of opinion of Block Development Officers and other experts in the field of agriculture and allied activities.
- Schedule 6 : A survey of Eduycational Institutions.

The above schedules will throw light on variou μ s occupations of different sectors of economy as under :-

(1) Schedule No. 1 and 2 :-

These schedules will reveal different facts of existing and prospective industrial establishments which will be useful to identify various emerging occupations from industrial field i.e. Secondary sector, whereas Schedule 1 is used for other areas like trade, commerce etc. it will throw light on various occupations of tertiary sector.

(2) Schedule No. 3 :-

This schedule will extract views of knowledgeable persons of all cross-sections of the society engaged in different activities. Their views will be useful in getting information for primary, secondary and tertiary sector.

(3) Schedule No. 4 :-

This schedule is meant for analysing employment generation of various developmental departments and data thus obtained will be useful for all sectors.

(4) Schedule No. 5 :-

This schedule is designed to extract information from B.D.Os/progressive cultivators, Project Officers etc. mainly covering primary sector.

(5) Schedule No. 6 :-

This schedule is meant for collection of data from various educational institutions eliciting the views from the Principals or Heads of Institutions about facilities available with the institute alongwith other infrastructural facilities available in the vicinity of institute.

. LAUNCHING OF SURVEY -

- 1.4.2. It will be useful to indicate the important steps of survey in brief. The following steps were necessary before the launching of survey -
- A) Formation of co-ordination committee under the Chairmanship of Collector at district level and obtain views on avenues of employment and self employment and need of vocational courses and its level of competencies in context with the development and their own experience.

The committee consisted following representatives-

1) The Collector & Member-Secretary, : Chairman D.P.D.C., Nagpur.

The General Manager,
District Industries Centre,
Nagpur.

The Principal Agriculture Officer, : Member Training & Visit Scheme, Nagpur.

4) The Deputy Director of : Member Animal Husbandary, Nagpur.

5) The Education Officer, : Member Zilla Parishad, Nagpur.

The Project Director,District Rural Development Authority,Nagpur.

7) The District Vocational Education- : Member-Secretary & Training Officer, Nagpur.

Further three sub-committees were formed under the Chairmanship of different officers of this districts -

1) Frimary Sector : Associate Deam, : Chairman Sub-Committee. College of Agricultura₹, Nagpur.

2) Secondary Sector : President, : Chairman Sub-Committee Vidarbha Industries-Association, Nagpur.

3) Tertiary Sector : Superintendent, : Chairman Sub-committee. Central Telegraph Office, Nagpur.

These sub-commettees identified various courses pertaining to their fields.

The courses suggested by the sub-committes and the information collected in various schedules were discussed at length in the Adhoc committee. The final conclusions were then drawn.

In addition to it the set of six different questionnaires/ schedules designed for identifying the new courses. The information collected was analysed and discussed in the Adhoc Committee. The Committee have suggested new content is required to be introduced at different levels with their duration, giving the level of competancy required, its scope and probable manpover requirement for S.S.C. passed and non-S.S.C. student satisfying the need of small scale industry requiring limited skills, organised sector's need and tertiary level need in service sector.

- B) Collection of relevent published documents.
- C) Printing of schedules.
- D) Preparation of a structure for survey work.
- E) Training of field staff and allocation of work.

On completion of above pre-requisites, the field work was started. This included -

- a) Field Work.
- b) Scruting and tabulation of data.
- c) Analysis and inferences,
- d) Report writing.

LIMITATIONS OF SURVEY -

- 1.5.1. a) The approach of this survey is not unilateral in nature

 The views expressed by knowledgeable persons of different strata of society has helped to identify the broad ideas of vocation in general, in terms of the felt needs of the area/district.
 - b) The material available in various Government publictions, Programme of financial institutes etc. has been mainly utilised to find out the stage and the trends of economic development of district.
 - c) The findings of the survey with above limitations will broadly indicate the areas of activities where vocationalisation has scope and avenues of employment or

self-employment. The success of the vocationalisation mainly depend on the active involvement of community and industry/employment sectors.

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NAGPUR DISTRICT **PHYSIOGRAPHY** Madhya Pradesh Ramtek Saoner Parshioni • Narkhed Kalmeshwar Katol Mauda Nagpur (Urban) • Kamptee Bhandara District • Hingana Wardha District · Kuhi Nagpur (Rural) · Bhiwapur Chandrapur District **ALTITUDE IN METRES** 600 300 150

CHAPTER - II

DISTRICT PROFILE

2.1: LOCATION OF DISTRICT -

The Nagpur district lies between 20 35 and 21 44 north lattitude and 78 15 and 79 40 east longitude. It is bounded on the north by the Chhindwada and Sioni districts of Madhya Pradesh, on the east by Bhandara, on the south and west by Chandrapur and Wardha districts respectively and along small strip and the north-west by Amravati district of Maharashtra State.

2.2 : AREA, SIZE AND RIVERS -

The district covers an area of 9930 square-kilometers and it ranks 18th among 30 districts in Maharashtra State. It has 3.24 percent of area in comparison with area of Maharashtra State. It includes 14 tahsils, viz. 1) Nagpur, 2) Nagpur (Rural), 3) Kamptee, 4) Hingna, 5) Katol, 6) Narkhed, 7) Saoner, 8) Kalmeshwar, 9) Ramtek, 10) Parshioni, 11) Mouda, 12) Umred, 13) Bhiwapur and 14) Kuhi. It comprises of 1658 inhabited villages and 16 towns. According to the 1981 census, the population of the district was 25,88,811. The urban population was 14,69,279 i.e. 56.75 percent and the rural population was 11,19,532 i.e. 43.25 percent.

The main rivers of the district are the Wardha and the Wainganga. The principal tributaries of the Wardha river are the Bor, the Wanna, the Jam and the Kar. The Kanhan and the Pench are the most important tributaries of the Wainganga and meet at Kamptee where they are joined by the Kolar. Other rivers of some importance are the Bawanthadi and the Sur.

2.3 TOPOGRAPHY, SOIL TYPE, RAINFALL:

a) Topography: The district has an average elevation between 274.50 and 305 meters (900 and 1000 feet) above sea level

and its relief features are characterised by and large, by residual hill ranges of the Satpura and their detached hillocks encolosing them undulating black soil valleys. Much of the topography is typically one of the deccan trap having flat topped and terraced features, low but treased side and isolated knolls. and North-Eastwards, the land-scape changes in an interesting manner due to change in the underlying rocks. The rocks of Gondwana series are not only important because of their coal and manganese deposits, but in their surface expression they present a low rolling topography within a poor soil cover and vegetation. The greater part of the district is an undulating plateau with a variation in height between 652.70 meters above sea level on the upland ridges in north and about 247,50 meters near Kanhan river. This plateau surface of the district falls into three district drainage basins. In the north the upland ranges are on the extension of the Satpura ranges, they are narrow in the west but widen to a breadth of about 19 kms. towards the East. Immediately South of these upland ranges, stretches the Ambagad Hills, the Western extremity of which lies in Nagpur district. The historic temple of Ramtek is situated on a spur of this range signifying the hill of Rama also known formerly as 'Sundergiri' vermillion mount 'Tapogiri'.

b) Soil :- The main soils of the district are medium deep black cotton (kali), light deep brown (Morand) and red medium deep black soil is found around Kalmeshwar and Saoner in the Wardha valley and in Nagpur, Kamptee plains. The principal soil of the district is known as Morand. It is suitable for cotton, jowar and found in almost all the northern parts of Ramtek and especially in the valley of the Sur river.

c) Zones :-

The district can be broadly divided into two natural agro-climatic zones as detailed below -

| Broad Natural Zone | Tahsil * | Soil Type | Main crops |
|--|---|---|---------------------------|
| 1. | 2. | 3. | 4. |
| AGROCLIMATIC ZONES | | | |
| 1) Moderate to modera- tely high rainfall zone with soil formed from Trap | Nagpur, Katol, Saoner, Ramtek. | Brown to dark soil formed from trap with varying depth from moderate to deep. | Jowar, Cotton, Tur. |
| 2) High rainfall zone with soils formed from mixed rocks. | Nagpur, Umred. | Yellowish brown to red soil of mixed percentage | • |

- * Note :- At the time of census-1981, Nagpuur district had only 5 tahsils. Later on district has been divided into 14 tahsils as follows -
 - 1) Nagpur Nagpur, Hingana, Kamptee, Nagpur (Rural).
 - 2) Katol Katol, Narkhed.
 - 3) Saoner Saoner, Kalmeshwar.
 - 4) Ramtek Ramtek, Parshioni, Mouda,
 - 5) Umred Umred, Bhiwapur, Kuhi,

d) Climate and Rainfall :

Since the district is away from sea-shore, the climate of the district is uneven and as such there is large variation in temperature in hot and cold seasons. It is generally hot and dry with a temperature range of 11 C. to 46.5 C, in the month of January and May respectively.

The area has an assured rainfall generally commencing from the middle of June and terminating by middle of October. The rainfall increases from west to east and Ramtek and Umred tabsils receive maximum rainfall. The rainfall is not uniform in all parts of the district. It is highest at Umred with an average of about 1253mm in the year 1986 as against the average

of 1092mm. If the rain come in time and are equitably spread over the entire monsoon period properly, then average rainfall in the district proves to be adequate for good crops.

TABLE - 2.1
Rainfall of selected centres

| Sr. No. | Centre | Rainfall in mm | | |
|------------|--------|----------------|------|--|
| 40, | | 1985 | 1986 | |
| 1. | 2, | 3. | 4 . | |
| 1. | Nagpur | 1359 | 956 | |
| 2. | Katol | 8 7ø | 999 | |
| 3. | Saoner | 825 | 1Ø84 | |
| 4. | Ramtek | 1090 | 117Ø | |
| 5. | Umred | 1967 | 1253 | |

(Source :- District Statistical Abstract.)

2.4 LAND USE PATTERN :

The following table indicates the land use pattern of Nagpur district as per normal classification adopted for this purpose.

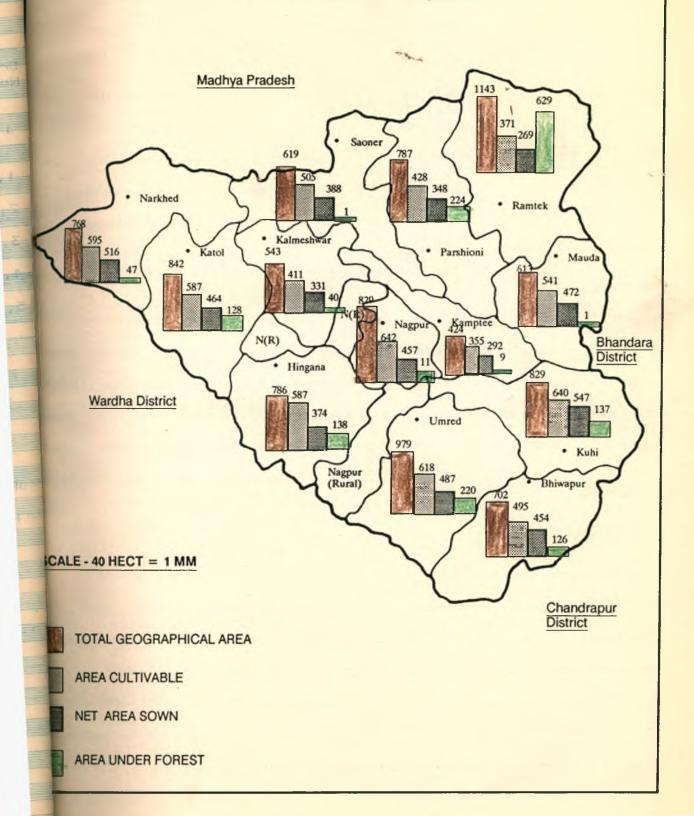
TABLE - 2.2
Land Use Pattern of Nagpur District in 1985-86

| Sr. No | Item | Area in hectares | Percentage to total geographical area. |
|-----------|--|---------------------|--|
| 1. | 2, | 3. | 4. |
| 1. | Geographical area | 9 8 6,4øø | 100,00 |
| 2. | Forests | 171,100 | 17.34 |
| 3. | Area not available for cultivation. | 82,600 | 8,36 |
| | i) Land put to non agricultural use, | 47,900 | 4.86 |
| | ii) Barren and uncultivated Land. | 34,700 | 3,21 |
| | wai iu , | | Contd |

NAGPUR DISTRICT

LAND USE PATTERN 85 - 86

FIGURES IN '00' HECT.



Contd...

| 1. | 2. | 3. | 4. |
|----|---|----------------|--------------|
| 4. | Other cultivated land | 126,700 | 12.83 |
| | i) Cultivable waste | 4 Ø,3ØØ | 4.Ø8 |
| | ii) Permanent pastures and grazing land. | 55,200 | 5. 58 |
| | iii) Land under miscellaneous trees, groves etc. | 31,200 | 3.16 |
| 5. | Fallow lands | 66,100 | 6.70 |
| | i) Current fallows | 17,400 | 1.76 |
| | ii) Other fallows | 48,700 | 4.83 |
| გ. | Net area sown | 539,900 | 55,73 |
| 7. | Area sown more than once | 34,100 | 3,45 |
| 8, | Gross cropped area | 574,000 | 59.18 |

(Source :- District Statistical Abstract.)

From the above table it is revealed that the percentage of area under forest was 17,34 and percentage of net sown area to total geographical area worked out to 55,73. The area sown more than once was 34,100 hectares which worked out to 3,45. The tahsil-wise information regarding land use pattern of Nagpur district is given in Appendix 'I'.

2,5 LAND MAN RATIO ;

The extent of land available to the population depending to it for their livelihood is an important desideratum in considering the land as a resource. While working out land-man ratio, the rural population as per 1981 census is considered and cultivated land (Net area sown + current fallows) of 1985-86 is considered as land cultivated.

The tabsil-wise information of land-man ratio is given in the following table :-

TABLE 2.3
Tahsil-wise Land-Man Ratio 1985-86

| Sr. No. | Tahsil | Total Rural | | Agricul- workers | Cultivated area (Net | | ssure _and |
|------------------|---------------------------------------|-----------------|---------|--------------------------------|-------------------------------|-----------------------------------|---------------|
| | | Popu- lation | | Agricul- tural Labourers | area + current fallows) | Total Rural popu- lation | |
| 1. | , , , , , , , , , , , , , , , , , , , | 3. | 4. | 5. | 6. | 7. | 8. |
| 1, | Nagpur | 246,861 | 32,200 | 47,300 | 119,800 | 2,06 | ø,66 |
| 2. | Katol | 189,711 | 34,500 | 45,100 | 103,200 | 1.83 | ø,77 |
| 3. | Saoner | 168,755 | 28,900 | 3Ø,8ØØ | 76,600 | 2,07 | ø,78 |
| 4. | Ramtek | 264,439 | 39,300 | 41,600 | 105,900 | 2,42 | Ø.76 |
| 5, | Umred | 249,766 | 44,600 | 57,100 | 151,800 | 1,51 | ø.66 |
| agins gypin yaga | Total | 1,119,532 | 179,500 | 221,900 | 557,300 | 2,09 | ø,72 |

(Source :-Census of India 1981 and District Statistical Abstract)

2.6 SIZE OF HOLDING:

The following table indicates the number of operational holdings and area operated by size class of operational holdings in Nagpur district during the year 1980-81

TABLE 2.4
Size of Holding

| Sr. No. | Size Class | | Holdings | Average area |
|------------|---------------|-------------------|------------------|-------------------|
| | | No. | Area | of total Holding. |
| 1. | 2. | | 4. | 5, |
| 1. | Below Ø.5 Ha. | 8,365 (4,59) | 2,549 (Ø.39) | ø,3ø |
| 2. | Ø.5 - 1.0 Ha. | 19,608 (10,77) | 14,911 (2,32) | Ø.75 |

Contd...

| 1. | 2 | | 4. | 5. |
|-----------------|----------------|----------------------------|------------------------------|-------|
| 3. | 1,0 - 2,0 Ha, | | 70,972 (11,06) | 1,61 |
| 4, | 2.Ø – 3.Ø Ha. | | 81,452 (12,7Ø) | 2,50 |
| 5. | 3,Ø - 4,Ø Ha, | 19,959 (10, 9 7) | 69,724 (10,87) | 3.49 |
| 6. | 4,Ø - 5,Ø Ha. | | 69,611 (10,85) | 4.04 |
| 7. | 5.0 -10.0 Ha. | | 201,760 (31,46) | 6.81 |
| 8, | 10,0 -20,0 Ha. | | 104,674 (16,32) | 12,94 |
| 9. | 20,0 -30,0 Ha. | | 16,587 (2,58) | 22,87 |
| 1Ø. | 30,0 -40,0 Ha. | 127 (Ø,Ø6) | 4,351 (Ø.67) | 34.25 |
| 11, | 40,0 -50,0 Ha. | 38 (Ø,Ø2) | 1,692 (Ø,26) | 44.52 |
| 12. | 50,0 and above | | 2,928 (Ø.45) | 88.72 |
| death team boom | Total | | 641,211 (1 00 ,00) | 3.52 |

(Source :- Agricultural Census, 1981-82)

(Figures in the bracket indicates the percentage to total)

It will be seen from the above table that the percentage of marginal holders (cultivators holding area 1 hectar or below) was 15.36 percent, while the percentage of small farmers (cultivators holding area 1 to 2 ha.) was 26.03 percent. Thus, it is observed that in all 41.39 percent holders were eithermarginal or small farmers in Nagpur district but having 14 percent operational area.

2.5 FOREST:

The following table indicates tabsil-wise area under forest during the year 1985-86.

TABLE 2.5
Tahsil-wise Forest Area

| Sr. No. | Tahsil | Total Geogra- phical area. (Hectares) | | % to total Geographical area. |
|-------------------------------------|--------------------------|---|---------|-------------------------------------|
| 1. | 2. | 3 . | 4 . | 5 . |
| 1. | Nagpur 20,900 (Urban) | | 100 | Ø.47 |
| 2. | Nagpur (Rural) | 62,000 | 1,100 | 1,61 |
| 3, | Hingana | 78,600 | 13,800 | 17,55 |
| 4, | Kamptee | 42,400 | 9øø | 2,12 |
| 5. | Katol | 84,200 | 12,800 | 15,20 |
| 6, | Narkhed | 76,800 | 4,700 | 6.11 |
| 7. | Saoner | 61,900 | 100 | Ø.16 |
| 8, | Kalmeshwar | 54,300 | 4 , ଉଉଡ | 7,36 |
| 9. | Ramtek | 114,300 | 62,900 | 55,Ø3 |
| 1Ø, | Parshioni | 78,7øø | 22,400 | 28,46 |
| 11. | Mouda | 61,300 | 100 | Ø.16 |
| 12. | Umred | 97 ,900 | 22,000 | 22,47 |
| 13. | Bhivapur | 70,200 | 12,600 | 17,94 |
| 14. | Kuhi | 82,900 | 13,700 | 16,52 |
| inese const delice atom faces desir | Total | 986 ,4 ØØ | 171,100 | 17,34 |

(Source :- District Statistical Abstract, 1986-87)

2.8 (a) POPULATION :

During the decade 1971-81 Nagpur district registered the growth rate of 33.26 percent of which strikingly high growth rate of population in the district as compared with growth rate of Maharashtra 24.54 percent. This high growth rate might be due to immigration of population to Nagpur city in search of employment. The following table shows the changes in distribution of population.

TABLE 2.6

Variation in Population

| Sr No | | | - | lation | | | daga ddoog odgol owyd) madon | Percentage dec - (1971-81) Varia | | |
|---|--------|------|-------|--------|-----------|-------|------------------------------|-------------------------------------|--------------------------------------|--------|
| 1 4 6.4 | • | | 19 | 71 | | 1981 | | | CITY VOI | |
| | | Tot- | Run- | | Tot- | Rur- | Urb- | Total | Rural | Urban |
| 1. | | | | | | | | 9. | | |
| 1. | Nagpur | 11Ø7 | 177 | 93Ø | 1550 | 246 | 1303 | +40,00 | +39.33 | +40,13 |
| 2. | Kato1 | 202 | 164 | 38 | 236 | 189 | 46 | +16.37 | +15.25 | +21,11 |
| 3, | Saoner | 181 | 142 | 39 | 224 | 168 | 55 | +23,85 | +18.59 | +43,02 |
| 4. | Ramtek | 214 | 194 | ZØ | 293 | 264 | 28 | +36,78 | +36.07 | +43,68 |
| 5. | Umred | 235 | 2Ø8 | 27 | 283 | 249 | 33 | +20,20 | +19.56 | +25,17 |
| *************************************** | Total | 1939 | 885 | 1Ø54 | 2588 | 1119 | 1469 | +33,26 | +26,17 | +39,72 |
| MIII (100 200) | | (S | ource | :- Ce | Pnsus | of In | ndia. | 1981) | THE SHIP SHALL SHOP HAVE SHALL SHOPE | |

The total population of Nagpur district was 25,88,811 as per 1981 census. Amongst all tabsils, Nagpur tabsil had highest population.

The classification of population as per 1981 population census in Nagpur district under Rural/Urbam and Male/Female is indicated in the following table:-

TABLE 2.7

Tahsil-wise Male/Female - 1981 Population Census

| Sr. | Tahsil | Total Runal | Population | | | | |
|------------------------|--|----------------|-----------------|--------------------|----------------------|--|--|
| No. | | Urban | Persons | Males | Females | | |
| 1. | 2. | 3. | 4. | 5. | 6. | | |
| 1. | Nagpur | Total | 1,550,698 | 811,451 | 739,247 | | |
| | | Rural | 246,861 | 128,863 | 117,998 | | |
| | | Urban | 1,303,837 | 682,588 | 621,249 | | |
| 2. | Katol | Total | 236,593 | 121,673 | 114,920 | | |
| | | Runal | 189,711 | 97,395 | 92,316 | | |
| | | Urban | 46,882 | 24,278 | 22,604 | | |
| 3. | Saoner | Total | 224,611 | 116,352 | 108,259 | | |
| | | Runal | 168,755 | 87,354 | 81,401 | | |
| | | Urban | 55,856 | 28,958 | 26,858 | | |
| 4. | Ramtek | Total | 293,233 | 151,999 | 141,234 | | |
| | | Rural | 264,439 | 137,020 | 127,419 | | |
| | | Urban | 28,794 | 14,979 | 13,815 | | |
| 5, | Umred | Total | 283,676 | 143,902 | 139,774 | | |
| | | Runal / | 249,76 6 | 1:26,450 | 123,316 | | |
| | | Urban | 33,910 | 17,452 | 16,458 | | |
| 9277 STON 1888 480 - H | ************************************** | | | ** | | | |
| | Total | Total | 2,588,811 | 1,345,377 (51,96%) | 1,243,434 (48,04) | | |
| | 1 | Rural | 1,119,532 | 577,082 | 542,450 | | |
| | | Urban | 1,469,279 | 768,295 | 700,984 | | |

(Source :- Census of India, 1981)

Note: New tabsils have been formed after 1981 census. Hence new tabsil's population is not shown.

It is seen from the above table that the percentage of female population to total population was 48.04%. Similarly, the percentage of rural population to total population was 43.24%. The rural population is maximum in Ramtek tabsil (264,439) and minimum in Saoner tabsil (168,755). The sexratio (No. of females per 1000 males) works out to 924. The corresponding sex-ratio of Maharashtra State was 937.

b) URBANISATION:

The growth of urban population in the district since 1961 is given below:

TABLE 2,8

| Sr. No. | Year | No. of urban | Urban population | % of urban population. |
|------------|--|--|--|--|
| 1. | | 3. | 4. | 5. |
| 1, | 1961 | 12 | 787,000 | 52,00 |
| 2, | 1971 | 13 | 1,055,000 | 54.32 |
| 3. | 1981 | 16 | 1,469,000 | 56,75 |
| | and speed down proper secure and a state where the | The trade and the trade that the state of the state and a state and any one of | tti ongif milik vidag haggi jagan hagai hagai kigili kigip bagi manji angai hagai k. (170) kigar jibor jibor milya anaga | person and the term that the contract with the contract and the contract a |

(Source :- Census of India, 1981)

Out of the total urban population, about 83 percent population resides in Nagpur town, followed by Kamptee (5 percent),
Umred (3 percent) and Katol (2 percent) towns.

The tahsil-wise distribution of umban area is given below-

| | Tahsil (as per 1981 | Newly formed) tahsils | Urban areas |
|----|------------------------|--|--|
| 1. | 2. | 3, | 4. |
| 1. | Nagpur | Nagpur (Urban), Nagpur (Rural), Kamptee, Hingana, | Nagpur city, Kamptee, Kamptee contonment, Bina. |
| 2. | Katol | 1) Katol, 2) Narkhed. | 1) Katol, 2) Narkhed, 3) Mowad, 4) Davlamati. |
| 3. | Saoner | 1) Saoner, 2) Kalmeshwar. | Saoner, Kalmeshwar, Chincholi, Khapa, Mohpa. |
| 4. | Ramtek | Ramtek, Parshioni, Mouda. | 1) Ramtek, 2) Kanhan, |

Contd...

| Wort | a | | | | | |
|------|-----------|--|-------------------|---|--------|--|
| 1. | <i>-</i> | Mind tink galle gent angel ange vicky rich | | 7 Jane 1 17,7 - 10017 - 10012 - 10017 - 10017 - 10017 - 10017 | 4. | 100 100 100 100 100 100 100 100 100 100 |
| 5. | Umred | 1) Um 2) Bh 3) Ku | nred, diwapur, | | Umred. | |
| | Total - 5 | 1 4 | | | 16 | THE THE PART OF TH |

c) SCHEDULED CASTE AND SCHEDULED TRIBES :

The population of scheduled castes and scheduled tribes as per 1981 census is given below tahsil—wise. It reveals from the table that the percentage of scheduled caste population was 7.03 and the percentage of scheduled tribe population was 13.63 percent in the district. The population of scheduled caste is concentrated in Nagpur tahsil followed by Ramtek tahsil. The population of scheduled tribe is concentrated in Nagpur tahsil.

. TABLE 2.8-A
Scheduled Caste/Scheduled Tribe Population

(Figures in '000')

| Sr. No. | Tahsil | Total Rural | | - | tion as | • | | 15 |
|------------|--------|-------------------------|-----------------------|---------------|---------------|------------------|-----------------------|---------------|
| 140. | | Urban | Sche | duled C | aste | Schec | Juled T | |
| | | | | | Female | | | |
| 1. | 2. | 3. | | | 6. | | | |
| 1. | Nagpur | | 100 16 84 | | 7 | 177 37 140 | 19 | |
| 2. | Katol | Total Rural Urban | | 11 3 2 | 1Ø 8 2 | 43 38 5 | 22 2ø 3 | 21 18 3 |
| 3. | Saoner | Total Rural Urban | 22 1 7 5 | 12 9 3 | 11 8 2 | 29 19 11 | 15 10 5 | 14 9 5 |
| 4. | Ramtek | | 25 23 3 | 13 12 1 | 12 11 1 | 56 54 2 | 2 9 28 1 | 27 26 1 |

Contd...

| 1. | | | 4. | 5. | 6. | | 8. | 9. |
|----|----------|---------|----------|----------|------------|----------|--------|---------------|
| 5. | Umred | Total | 14 | 7 | <i>"</i> 7 | 48 | 24 | 24 |
| | | Rural | 12 | 6 | 6 | 38 | 19 | 1.9 |
| | | Urban | <u></u> | . 1 | 1 | 1 Ø | 5 | 5 |
| | District | Total | 182 | 94 | 88 | | 182 | 171 |
| | Total | | (100,00) | (100.00) | (100.00) | (100.00) | (100.0 | 00.001)(00.00 |
| | | Runal | 84 | 44 | 41 | 185 | 95 | 90 |
| | | • | (46,15) | (46,00) | (46,59) | (52,40) | (52,19 | 9)(52,43) |
| | | Urban | 98 | 51 | 47 | 158 | 87 | 82 |
| | | | (53.84) | (54.00) | (53 A1) | (A7 A6) | (47.81 | (47.37) |

SIZE OF VILLAGES ;

The percentage of villages according to size class of population as per 1981 census is shown in the following table:-

TABLE 2.9

SIZE OF VILLAGES

| Sr. No. | Size class | No. of villages | % of villages to total no of villages. |
|-----------------------|-----------------|--------------------|--|
| 1. | 2. | | 4. |
| 1. | Less than 500 | 940 | 56,69 |
| 2. | 5ØØ - 999 | 457 | 27,56 |
| ₃. | 1000 - 1999 | 189 | 11.40 |
| 4. | 2000 - 4999 | 5Ø | 3,02 |
| 5. | 5000 - 9999 | 18 | 1.09 |
| 6. | 10000 and above | 4 | √ Ø.24 |
|)1000 1000 sages agai | All ranges | 1658 | 100,00 |

(Source :- District Statistical Abstract 1986-87)

There are 1874 villages in the district, out of which 1658 are inhabited and 216 uninhabited. It is observed from this table that about 84.25 percent villages comsist population less

than 1000. The tahsil-wise classification of villages according to size class of population as per 1981 census and percentage distribution of villages within the size class is shown in Appendix "2".

2.10 LITERACY:

Any person who is able to both read and write with understanding in any language is recorded as a literate by the Indian Census. The latest 1981 census revealed that 54.56 percent of the total population in the district was literate against the State average literacy rate of 47.18 percent. In rural area this rate was 41.38 while in urban area it was 64.60 percent. The literacy rate among male and female was respectively 63.74 and 44.62 percent. Within the district, the literacy rate was maximum in Nagpur tahsil (62.17%) and minimum in Ramtek tahsil (38.88%).

The following table indicate the tabsil-wise number of persons literate, percentage of literacy among male and female -

TABLE 2.10 Tahsil-wise literacy 1981

| Sr. Tahsil No. | | Total Rural Urban | • | | | | | |
|-------------------|--------|-------------------------|------------------|------------------------|-------------------|--------------------------------|---------------------------------|-------------------------|
| | | OI Dail | | Female | | | | Total |
| 1. | 2. | | 4, | 5. | 6. | 7. | 8. | 9. |
| 1. | Nagpur | Total Rural Urban | 569 7ø 499 | 395 39 357 | 964 1ø9 855 | 70.10 54.33 73.08 | 32.71 | 62,17 44,00 65,61 |
| 2. | Katol | Total Rural Urban | 7ø 54 16 | 44 33 11 | 114 87 28 | 57.87 55.40 67.79 | | 48,22 45,69 58,67 |
| 3. | Saoner | Total Rural Urban | 68 48 2ø | 3 8 26 12 | 1Ø6 74 32 | 58,15 54,85 68,08 | 31.89 | 47,14 43,78 57,30 |
| 4, | Ramtek | Total Runal Umban | 77 67 1Ø | 37 32 6 | 114 98 16 | 48. 74 65. 32 | 26.52 24.83 42.05 ontd | 38.88 37.22 54.16 |

| 1. | 779 6m g 1 1111 1111 1111 1111 1111 1111 1111 | ~ · · · · · · · · · · · · · · · · · · · | 4. | 5. | 6. | 7. | 8. | 9. |
|---|---|--|--|---|--|---|---------------------------------------|---|
| 5. | Umred | Total | 74 | 4Ø | 114 | 51.48 | 28.74 | 40.28 |
| | | Rural | 62 | 33 | 96 | 49.39 | 26.89 | 38,24 |
| | | Urban | 12 | 7 | 19 | 66.66 | 42.60 | 54,98 |
| *************************************** | T 1907 Mar 1998 1790 (2017 -489 (1991 | 1811 1705 MM3 46M6 1317 1813 PR11 1827 P | medo patro 15667 triad ponda depad troca | e dese sente sente tente conte pages pages de | 1984 ADMY 01988 52512 SALIF PAIN MYSS 15193 MISS | , selven errer omilik børed edder freis, siste ende | . 1011- 20171110 -1117 -1001717 -170- | 1996 11893 da do r reset fodo godto mago o |
| | Total | Total | 858 | 555 | 1412 | 63.74 | 44.62 | 54.56 |
| | | Runal | 3Ø1 | 162 | 462 | 52.18 | 29.88 | 41.38 |
| | | Urban | 556 | 393 | 949 | 72.42 | 56.03 | 64.60 |

(Source :- 1981 Population Census)

The tabsil-wise position of literacy among S.C. and S.T. is given in following table:

| Sr. | Tahsil | Total S.C. | Total S.T. | No, of | No. of Literate | | |
|-----|--------|---------------------|---------------------|------------------|-------------------|--|--|
| No. | | Population | Population | S.C. | S.T. | | |
| 1. | | 3, | 4. | 5. | 6. | | |
| 1. | Nagpur | 99,572 (54,59) | 175,860 (50,06) | 6,392 (6,42) | 20,179 (11,41) | | |
| 2. | Katol | 20,776 (11,39) | 43,273 (12,24) | 1,824 (8,78) | 7,905 (18.27) | | |
| 3. | Saoner | 22,439 (12,30) | 29,366 (8,30) | 2,241 (9.99) | 3,838 (13.07) | | |
| 4. | Ramtek | 25,347 (13,90) | 56,170 (15.90) | 2,189 (8,64) | 10,762 (19,16) | | |
| 5, | Umred | 14,261 (7,82) | 47,684 (13.5Ø) | 717 (5.Ø3) | 8,015 (16,81) | | |
| | Total | 182,395 (100,00) | 353,3Ø3 (1ØØ.ØØ) | 12,858 (7.05) | 48,225 (13,65) | | |

(Figures given in bracket are percentage to the total) (Source :- Census of India, 1981)

Out of total literate of 1,412 thousand, the number of Literate among S.C. and S.T. was 12,858 and 48,225 respectively. The literacy percentage works out to about 0.91 for scheduled caste and 3.41 for scheduled tribes.

2.11 LIVELIHOOD:

3.

The distribution of workers by occupational pattern as per 1981 population census is as follows:-

TABLE 2.11

Occupational Pattern

Sr. Occupational Pattern No. of Percentage to workers total workers 1. 2. 3. 4. 1. Cultivators 191,700 20.80 2. Agricultural Labourers 241.800 26.24

4. * Other Workers. 437,900 47.56 Total Workers 921,300 100.00

49,900

5.40

(Source :- Population Census 1981)

Manufacturing processes,

repairs.household industries.

The tabsil-wise information of classification of workers non-workers is shown in Appendix "3".

There has been conceptual change for defining the workers in the 1981 - census. A thichotomy of main workers, marginal workers and non-workers has been adopted. For main workers major part of the preceding year (at least 6 months or 183 days) was adopted while who worked for some time during the preceding year but not for major part have been treated as marginal workers. All those who had not worked at all during last year, were recorded as non-workers. Persons engaged in house-hold duties, students, dependents, retired persons are some of the catagories grouped as non-workers.

^{*} It includes Live-stock, forestry, fishing, hunting, plantation, etc. and also construction, trade and commerce, transport, storage and communication, other than house-hold industry and other services.

It is observed from table 2.11 above that comaparatively very high proportion of workers (47.56%). The percentage of cultivators was 20.80 as against 35.12 percent for Maharashtra State. The agricultural labourers were 26.24 percent. If we consider cultivators and agricultural loboureres together, then the percentage of persons engaged in agricultural activity works out to 47.04 percent. The agricultural lobourers were more as compared with the cultivators.

The distribution of total population into main workers, marginal workers and non-workers given below in nutshell.

| Sr. No. | Occupational pattern | Number (in 1001) | Fercentage to total population. |
|---------------------------|----------------------|---------------------|---------------------------------|
| i , | Main Workers | 9,213 | 35.58 |
| 2, | Manginal Workers | 667 | 2,56 |
| 3, | Non- Workers | 16,008 | 61,86 |
| AND 1100 1100 1900 1100 1 | Total | 25,888 | 100.00 |

2.13 IMPORTANT CROPS:

Kharif and Rabbi are the two main cultivating seasons in the district. The crops which are taken in the early southwest monsoon are called Kharif crops, while those harvested in the winter are known as Rabbi crops. The important crops of the district are Paddy, Jowar, Cotton, Mug, Udid, Groundnut, Tur, Wheat, Gram, Soyabin, Jawas etc. The important cash crops of the district are Cotton, Groundnut and Soyabin.

The comsparative statement showing the tabsils reporting maximum and minimum percentage of area (taking district as a whole) of important crops for the year 1987-88 is given in the following table:-

NAGPUR DISTRICT

CROPPING PATTERN 85-86

Area in Hectares

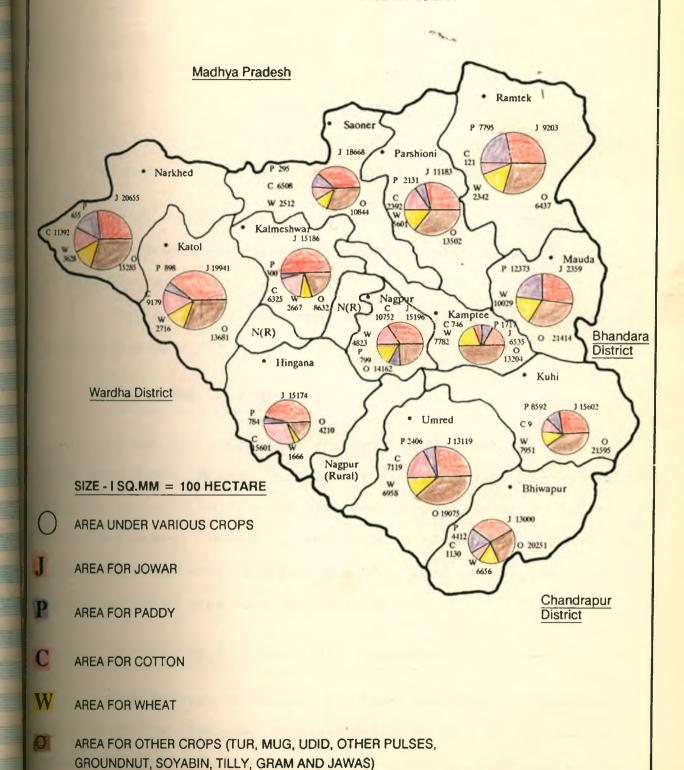


TABLE 2,12

| Sr. | Name of impro- | Tahsil reporting | | | | |
|---------------------|----------------|-----------------------------|---|-----------------------------|---------|--|
| No. | tant crops | Maximum percentage of area. | | Minimum percentage of area. | | |
| 1. | 2. | | webs danger trees about shook about paller about sheet sever young su | 4. | | |
| 1. | Jowar | Kalmeshwar | (10%) | Kamptee | (Ø,Ø8%) | |
| 2. | Cotton | Hingana | (20%) | Kamptee | (Ø,Ø7%) | |
| 3. | Paddy | Mouda | (20%) | Kalmeshwar | (1,2%) | |
| 4. | Tur | Saoner | (19%) | Kamptee | (%Q,E) | |
| 5. | Wheat | Mouda | (15%) | Narkhed | (2,0%) | |
| 6. | Groundnut | Katol | (32%) | Umred | (Ø.1%) | |
| **** **** **** **** | | | | | | |

(Source :- District Agriculture Office, Z.P. Nagpur)

The area under different crops in each tabsil is shown in Appendix "4"

The area under different crops irrigated tahsil-wise is given in Appendix "5"

FRUITS AND VEGETABLES :

Fruits and vegetables are produced in only 5% area of total area sown. Orange is the main fruit crop in Nagpur district and this district is also popular for production of orange all over the country. Orange is produced in 93 percent area out of total area under fruit produce and this area is only about 2.13 percent of total area sown in the district.

Processiong of Fruits and Vegetables:

NOGA factory at Nagpur was taken over by the Maharashtra Agro Industries Development Corporation in 1972 and is making steady progress. The capacity of the plant is 2,400 M.Ts. and the total investment as on 30th April 1986 amount to Rs. 77.23 lakhs.

2.14 IMPROVED AGRICULTURAL PRACTICES :

The position of improved seeds, pesticides and fertilizers in the district for the year 1987-88 and 1988-89 is given in the following tables:-

Improved Seeds Used

| 3r. No. | Name of Variety | Seeds used | (in quintals) |
|------------|---|------------|---------------|
| NO. | | 1987-88 | 1988-89 |
| 1. | 2 . | 3. | 4. |
| 1. | Hybrid Jowar (C.S.H. No. 1,5,6,9) | 5,806 | 3,407 |
| 2. | Cotton (Hybrid) (CH 4, H4,PKV2) | 558 | 48Ø |
| 3, | Cotton Improved (LI2A, 5766, L-47) | 371 | 619 |
| 4, | Graundnut, (JL-249) | . 25 | 127 |
| 5, | Soyabin (JS-7244, MACS-13) | 86 | 83 |
| 6. | Tur (B.D.N.2) | 59 | 329 |
| 7. | Mug (Kopargoan) | 37 | 83 |
| 8, | Paddy (Sakoli-6, Sindhewahi-1, Masuri etc.) | 171 | 1,895 |
| 9. | Wheat, (NI 5439, HD 2189) | 918 | 1,629 |
| lØ. | Gram (Chafa, N-59) | 2,319 | 902 |

(Source :- District Agriculture Office, Z.P., Nagpur)

Pesticides Used
(Under Protection Campaign Sanctioned by Deptt.)

| - | Name of Pesticide | Unit | Pestici | des Used |
|-----|------------------------|-------|---------|----------|
| No. | | | 1987-88 | 1988-89 |
| 1. | 2 . | 3. | 4. | 5. |
| 1. | Thimet 10 G. | м.т. | 5,000 | 4,000 |
| 2. | B.H.C. 10 % | м.т. | 117,500 | 53,500 |
| 3. | Carbon-diazin | М.Т. | ø.232 | ø.25ø |
| 4. | Wettable Sulphur | M.T. | 2,346 | Ø,Ø4Ø |
| 5, | Copper Oxychloride 50% | м,т, | 2,716 | 1,006 |
| ۵. | Endosulphan 35% | Litre | 11,054 | 33,130 |
| 7. | Quinal Phos 25% | Litre | 2,831 | •••• |
| 8. | Phosphomidon 85% | Litre | | 5,457 |
| 9. | Monochrotophos 36% | Litre | 4,738 | 1,994 |

(Source :- District Agriculture Office, Z.P., Nagpur)

Fertilizers Used

| Sr. No, | Name of | | Fe | ertilize | rs Vsed | | |
|------------|------------------------|--------|-------------|----------|---------|-------|--------|
| | Fertilizer | Kharif | Rabbi | Total | Kharif | Rabbi | Total |
| 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. |
| 1. | Unea | 5,74Ø | 4,427 | 10,167 | 9,830 | 6,000 | 15,830 |
| 2, | Super Phosphate | 2,928 | 4 58 | 3,386 | 2,293 | 2,000 | 4,293 |
| ₹. | Mixture Fertilizers | 8,227 | 4,375 | 12,602 | 11,908 | 1,000 | 12,908 |

(Source :- District Agriculture Office, Z.P., Nagpur)

In 1987-88 consumption of fertilizer in N.P.K. form per hectare in Nagpur district in kharif season is N=14.4, P=9.31, K=3.35 (In Kilogram per hectare) and in Rabbi season N=16.70, P=5.40, K=2.95.

In 1988-89 consumption of fertilizers in N.P.K. form per hectare in Kharif season is $N=25.19,\ P=12.07,\ K=4.4$ and in Rabbi season $N=12.04,\ P=6.2,\ K=2.5.(Kg. per hectare).$

2.15 IRRIGATION:

During the year 1985-86 the net irrigated area was only 56,056 hectares, while the net cultivated area was 539,900 hectares. Out of 56,056 area 26,606 hectares area was irrigated by cannels i.e. 47 percent and remaining area was irrigated by wells i.e. 53 percent. The percentage of irrigated area to total cultivated area was about 10 percent.

The position of tabsil-wise area under irrigation during the year 1985-86 and their percentage is shown in the following table:-

Tahsil-wise Irrigation Area

TABLE 2.13

| Sr. No. | Tahsi l | Net Irrigated Area (Area in hectares) | Percentage |
|------------|----------------|--|------------|
| 1. | 2. | 3. | 4. |
| 1. | Nagpur (Urban) | 889 | 1.58 |
| 2. | Nagpur (Rural) | 3,572 | 6,37 |
| 3, | Hingana | 1,269 | 2,26 |
| 4. | Kamptee | 2,297 | 4.15 |
| 5. | Katol | 3,888 | 6,93 |
| 6. | Narkhed | 4,817 | 8,59 |
| 7. | Saoner | 2,227 | 3,97 |
| 8. | Kalmeshwar | 3,943 | 7.03 |
| 9. | Ramtek | 10,849 | 19,35 |

| Contd | Contd | | | | | |
|-----------------------------|-----------|--------|---------------|--|--|--|
| 1. | 2. | 3, | 4. | | | |
| 10. | Parshioni | 1,995 | 3.55 | | | |
| 11. | Mouda | 13,012 | 23,21 | | | |
| 12, | Umred | 1,796 | 3,20 | | | |
| 13. | Bhivapur | 1,352 | 2,41 | | | |
| 14. | Kuhi | 4,150 | 7.4 Ø, | | | |
| Marie 40170 20180 2018 2011 | Total | 56,056 | 100,00 | | | |

(Source :- District Statistical Abstract, 1986-87)

As per 1982 livestock census report, there were 18.054 electric motor pumps and 2536 oil engines in the district. The maximum number of electric pumps were in Narkhed tahsil and the maximum number of oil engines in Umred tahsil.

2.16 MAJOR AND MEDIUM IRRIGATION PROJECTS:

There are 3 major and 11 medium projects in the district. Irrigation potential by these projects is 165,328 hectares. In 1987-88 irrigated area was 27,434 hectares i.e. about only 16.5 percent of the total irrigation potential. The details of these projects is given below:

TABLE 2.14
-----Major and Medium Irrigation Projects as on June.1988

Ramtek

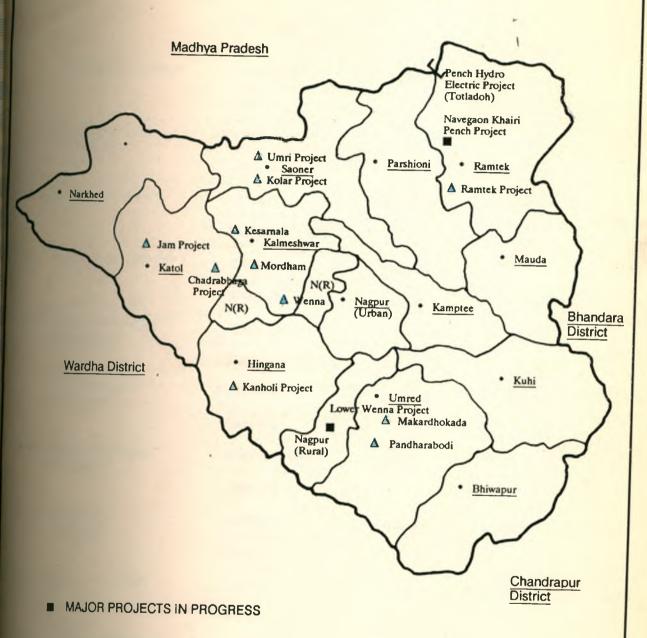
| Sr. No. | Name of Project | Place be Tahsil | Tahsil enefitted | Irrigation Potential (in hect.) | Actual Area Irrigated during 87-88 (in hect.) |
|------------|--------------------|-----------------------|---------------------|---------------------------------------|---|
| 1. | 2. | ,3, | 4. | 5. | 6. |
| | | MAJOR PROJECTS | | | |
| 1) | Pench Project | Navegaon-Khair: | | 104,476 | 25,138 |

Parshioni, Ramtek,

Mouda, Saoner.

NAGPUR DISTRICT

MAJOR AND MEDIUM
IRRIGATION PROJECTS 87 - 88



MEDIUM PROJECTS

| OI | nt. | . c | ł . | |
|----|-----|-----|-----|--|
| | | | | |

| | 2. | 3, | 4. | 5 , | 6. |
|-----|------------------------|--|----------------------|------------|------------|
| 2) | Lower-Wena Project | manu seban peman buntu unaya apasa angay pinan pajar sagay baga, abasa galan | Nagpur, Umred, | 4,275 | - |
| _ | | Umred | | | |
| 3) | Gosi-Khurd Project | Gosi-Khurd | Bhiwapur, Kuhi, | 14,76Ø | ***** |
| | | Paoni | | | |
| | | MEDIUM PROJEC | | | |
| 4) | Ramtek Project | Navegaon | Ramtek | 10,926 | |
| | | Ramtek | | | |
| 5) | Pandhrabodi | Pandhrabodi | Umred | 862 | , Meses |
| | Project | Umred | • | | |
| 6) | Wena Project | Peth | Hingana | 1,214 | a+ ma |
| | · | Nagpur | | | |
| 7) | Kanholi Project | Kanholi | Hingana | 4,244 | 238 |
| | • | Nagpur | | | |
| 8) | Chandrabhaga | Dorli | Saoner | 2,604 | 129 |
| | Projett . | Saoner | | | |
| 9) | Kesar Nala Project | Telkamthi | Saoner | 788 | |
| | rroject | Saoner | | | |
| 1Ø) | Makardhokda Project | Makardhokda | Umred | 3,365 | 394 |
| | rroject | Umred | | | |
| 11) | Mordham Project | Linga | Saoner | 1,315 | 112 |
| | rroject | Saoner | | | |
| 12) | Umri Project | Umri | Saoner | 1,185 | 3ø4 |
| | | Saoner | | | |
| 13) | Kolar River Project | Junewani | Saoner Kalmeshwar | 7,540 | 1119 |
| | i i ojec v | Saoner | vermesnagt. | | |
| 14) | Jam River | Ridhora | Katol | 7,774 | |
| | | Katol | Narkhed, | | |
| | Totai | | | 165,328 | 27.434 |

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15.18. Su Auch nda Mara, New Delhi-11001;
15.0C. No. D.: 5.397

2,17 MINOR IRRIGATION:

The details about completed Minor Irrigation projects for the year 1987-88 is given in the following table:

TABLE 2.15

| | | (Area in Hectares) | | |
|---------------------------------|------------|--------------------------|----------------------|--|
| | Tahsil | No. of M.I. Projects. | Potential created | |
| 1. | | 3 . | 4 . | |
| 1. | Nagpur | 7 | 2,071 | |
| 2. | Hingana | i | 100 | |
| | Umred | 8 | 3,092 | |
| 4. | Kuhi | 1 | 45 5 | |
| 5. | Bhivapur | 8 | 4,004 | |
| ර. | Mouda | 2 | 284 | |
| 7, | Ramtek | ద | 1,631 | |
| 8. | Parshioni | 3 | 1,008 | |
| 9. | Saonen | 4 | 1,469 | |
| 1Ø. | Kalmeshwar | i | 518 | |
| 11. | Katol | 4 | 1,415 | |
| 12. | Nankhed | 2 | 67Ø | |
| erand schop endes admin spits c | Total | 4.7 | 16,717 | |

(Source :- Irrigation Department, Nagpur)

It is observed from the above table that the total potential created by the Minor Irrigation projects was 16,717 hectares.

2.18 IRRIGATION WELLS :

The information regarding irrigation wells in Nagpur district during the year 1985-86 is shown in the following table:-

TABLE 2.16
Tahsil-wise Area Irrigated by Wells

| Sr. No. | Tahsil | No. of irrigated wells. | No. of irrigated wells in use. | irrigated wells not | other wells | |
|---|-------------------|-------------------------------|---|---------------------|----------------|--------|
| 1. | 2. | 3. | 4. | 5. | 6. | 7. |
| 1. | Nagpur (Urban) | 1,342 |) person | 341 | 1,001 | 289 |
| 2. | Nagpur (Runal) | 3,177 | 1,879 | 491 | 807 | 3,197 |
| 3. | Hingana | 2,696 | 1,760 | 212 | 724 | 1,190 |
| 4. | Kamptee | 1,323 | 412 | 355 | 556 | 1,696 |
| 5 | Katol | 8,016 | 3,657 | 1,751 | 2,608 | 3,888 |
| 6, | Nackhed | 10,249 | 1,772 | 2,081 | 6,396 | 4,567 |
| 7, | Saoner | 6,102 | 3,097 | 2,322 | 683 | 2,101 |
| 8, | Kalmeshwar | 6,806 | 3,331 | 1,830 | 1,645 | 3,761 |
| 9. | Ramtek | 910 | 693 | 134 | 83 | 3,812 |
| 10. | Parshioni | 986 | Pelle | 9Ø | 896 | 424 |
| 11. | Mouda | 1,065 | 575 | 36 | 454 | 3,410 |
| 12. | Umned | 1,670 | 7 5Ø | 871 | 49 | 534 |
| 13, | Bhivapur | 1,022 | 595 | 427 | **** | 4Ø8 |
| 14. | Kuhi | 1,304 | 685 | 566 | 53 | 173 |
| *************************************** | Total | 46,668 | 19,206 | 11,507 | 15,955 | 29,450 |

(Source :- District Statistical Abstract, 1986-87)

2.19 LIFT IRRIGATION:

Upto 1987-88 there are 14 lift irrigation projects in the district and 199 hectares land is irrigated by them.

2.20 LIVESTOCK:

The latest live-stock census was conducted in 1982. The comparable figures of livestock and poultry are presented in the table are of 1978 and 1982.

TABLE 2.17

| Sr. No. | Item | 1 9 78 | 1982 |
|------------|--|--|-----------|
| 1. | 2. | angs to the same same same same same same same sam | 4 . |
| 1. | Cattles | | |
| | a) Males over 3 years. b) Females over 3 years. | 215,123 | 216,204 |
| | i) In Milk ii) Dry and not | 75,121 | 71,375 |
| | calved even once. | 153,794 | 160,462 |
| | iii) Total females | 231,717 | 233,431. |
| | c) Total Cattles. | 651 ,8 8Ø | 654,956 |
| 2. | Buffaloes | | |
| | a) Males over 3 years. b) Females over 3 years. | 2,179 | 1,985 |
| | i) In milk ii) Dry and not | 21,487 | 18,6Ø4 |
| | calved even once. | 19,213 | 19,961 |
| | iii) Total females | 41,286 | 38,983 |
| | c) Total Buffaloes | 69,419 | 61,059 |
| 3, | Sheeps | 16,571 | 21,802 |
| 4. | Goats | 248,256 | 278,558 |
| 5. | Other live-stock | 11,398 | 52,583 |
| 6. | Total live-stock | 997,524 | 1,070,037 |
| 7, | Poultry | 332,759 | 377,015 |

(Source :- Live-stock Census 1982)

The tabsil-wise table is given in Appendix '6'. It is seen from the above table that the cattle has been increased

during 4 years. As regards cows and buffaloes in milk, it appears that there is a decreasing trend. It reveals from the tahsil-wise table that cows in milk and also buffaloes in milk are concentrated in Nagpur tahsil.

2.21 AGRICULTURAL IMPLEMENTS :

The tabsil-wise position of agricultural implements as per 1982 live-stock census is given in the following table:-

TABLE 2.18
Agricultural Implements

| Sr. No. | Tahsil | No. of Ploughs | | came C | rusher | | s ric | Tractor | |
|--------------------------------|------------------|----------------|-------|----------------|--------------------------|-------|---------|---------|--|
| | | Wooden | Iron | Work- ed by | Work- ed by bulloc | ks | Engines | , | |
| 1. | ~ 4 | 3, | 4. | 5. | ۵. | 7. | 8. | 9. | |
| 1. | Nagpun | 3,880 | 594 | **** | 1 | 261 | 1,557 | 12 | |
| 2. | Hingana | 3,037 | 651 | **** | ***** | 215 | 1,666 | 5 | |
| 3. | Kamptee | 3,685 | 97 | 1 | **** | 86 | 1,040 | 4 | |
| 4. | Katol | 4,945 | 1,016 | 2 | 2 | 199 | 1,883 | 3 | |
| 5. | Narkhed | 4,140 | 773 | 9 | 6 | 160 | 4,440 | 3 | |
| ۵. | Saoner | 4,9ø8 | 234 | | Marine. | 67 | 2,046 | 8 | |
| `7. | Kalme- shwar. | 2,396 | 234 | | >940 4 | 88 | 3,033 | 5 | |
| 8. | Ramtek | 6,448 | 121 | 3 | 3 | 172 | 256 | 1Ø | |
| 9. | Parsh- ioni | 4,589 | 161 | 2 | 1 | 15 | 315 | 2 | |
| 1Ø, | Mouda | 8,022 | 43 | 1. | Padda . | 216 | 712 | 16 | |
| 11. | Umred | 7,584 | 468 | | ***** | 507 | 553 | 8 | |
| 12. | Bhivapu | ~9,981 | 151 | | ******* | 191 | 179 | 1 | |
| 13. | Kuhi | 8,216 | 120 | | 1440 | 359 | 374 | 4. | |
| Anna 14114 (4714 444 14 | Total | 71,831 | 4,663 | 18 | 13 | 2,536 | 18,054 | 81 | |

⁽Source :- 1982 Live stock Census)

As per 1982 Live Stock Census, the total live-stock in Nagpur district is 10.7 lacs while in 1978 it is 9.9 lacs. Among total live-stock in 1982, total cattles are 61.20 percent and buffaloes are 5.70 percent. The total increase in live stock during 1982 is 1.07 percent as compared to 1978 census. The increase in total cattles is 0.47 percent and decrease in total buffaloes is 3.69 percent.

The total poultry in 1982 is 3.7 lacs while it is 3.3 lacs. during 1978 i.e. 1.13 percent increase.

2.23 VETERINARY COVERAGE;

The following table indicates the tabsil-wise position of existing veterinary facilities in Nagpur district during 1987-88.

TABLE 2.19
-----Veterinary Facilities

| Sr. No. | | Veter- inary Hospital | inary | | | | |
|------------|-----------|-----------------------------|-------|-----|----|---------------|----|
| 1. | 2, | 3, | 4. | 5. | 6. | 7. | 8. |
| 1 , | Nagpur | 1 | 4 | 4 | 2ø | | 29 |
| 2. | Hingana | ***** | 2 | 3 | 12 | **** | 17 |
| 3. | Kamptee | · | 2 | 2 | 7 | **** | 11 |
| 4. | Kato1 | ***** | 4 | 5 | 22 | usu | 31 |
| 5. | Narkhed | ***** | 3 | 5 | 14 | Move | 22 |
| 6. | Saoner | ***** | 4 | 3 | 13 | 8-cat | 20 |
| 7. | Kalmeshwa | r - | 3 | No. | 9 | • | 12 |
| 8. | Ramtek | ****** | 4 | 3 | 11 | - | 18 |
| 9. | Parshioni | Pressu | 2 | 3 | 7 | ***** | 12 |
| 10. | Mouda | die | 2 | 2 | 9 | ***** | 13 |

| Cont | d | • | ŧ | • | |
|------|---|---|---|---|--|
|------|---|---|---|---|--|

| 1 . | 2. | 3, | 4. | 5. | 6. | 7. | 8. |
|----------------------------|--|--|--|--|--|--|---|
| 11. | Umred | P\$+ las | 4 | 2 | 11 | eman | 17 |
| 12. | Bhivapur | | 2 | 2 | 9 | enss | 13 |
| 13. | Kuhi | | 2 | 3 | 9 | 13030 | 14 |
| Many Model ortho part year | 1 1914 1979 1981 (1981 (<i>1984 1984) (1984 1986) (1984 1989)</i> | where their phile and a most series blue | e albert enere basak pasas basas adese acess serve serve | er dibits plitte geplik derjy 56555 Milly Johns 4166 . | daren 1801-0025 300rs abts 11967 X165, 605,7 200s, | . Serve englik tallik Melija Melija derine dalam | 7 MB377 MB577 47430 B***73 ELETS 14330 TMMU |
| | Total | 1 | 38 | 37 | 153 | Miles | 229 |

(Source :- District Statistical Abstract, 1987-88)

2.24 DAIRY DEVELOPMENT :

The information regarding Dairy Societies in Nagpur district during the year 1987-88 is given in the following table:-

TABLE 2.20

Dairy Societies

| Sr. No. | Tahsil | No. of Societies | No. of Members | Percentage |
|------------|-----------|---------------------|-------------------|------------|
| 1. | 2. | 3. | 4. | 5. |
| 1. | Nagpur | 11 | 685 | 5,52 |
| 2. | Saoner | 28 | 1,928 | 14.07 |
| 3. | katol | 25 | 1,576 | 12,56 |
| 4, | Narkhed | 17 | 1,268 | 8,54 |
| 5. | Bhivapur | 11 | 5Ø8 | 5.53 |
| 6, | Umred | 8 | 614 | 4.03 |
| 7. | Kuhi | 11 | 621 | 5,52 |
| 8. | Ramtek | 14 | 1,606 | 7.03 |
| 9, | Parshioni | 9 | 611 | 4,54 |
| 10. | Mouda | 2ø | 915 | 10,04 |
| | | | | |

| Capin | . 4 | -4 | | | |
|-------|-----|---------|---|---|---|
| 1 | ١. | | ٠ | ٠ | ٠ |

| 1 . | 2 4 | 3, | 4 , | 5. |
|---|------------|---|--|---|
| 11. | Hingana | 18 | 935 | 9.04 |
| 12. | Kamptee | 6 | 325 | 3,02 |
| 13. | Kalmeshwar | 21 | 1,425 | 10,56 |
| *************************************** | | . HIN HIN COM ALL THE THE THE HIN WAS MADE IN | 1965 PBD3 2521 2627 2626 SEEST SEEST SEEST SEEST, SEEST, WALL SAISE WAS MADE TO | . 1851 and 1851 (1855 1855 1851 1865 1855 1855 1855 1855 |
| | Total | 199 | 13,017 | 100.00 |
| *************************************** | | | omen 18070 66337 balle daneb mbour emery peaks evens bytes toyot about major plans | uttro upper pegar begar teru, than yekin egita payet baday bahan mabab pega panas upper pagas casas barra |

(Source :- Dairy Development Deptt., Nagpur)

In Nagpur district, these were only 199 Dairy Societies during the year 1987-88. Out of these 199 societies about 57 percent societies were located in Saoner, Katol, Kalmeshwar, Mouda and Hingana only.

There were 14 milk routes in the district as on March, 1988. The Dairy Development Department proposes to expand two routes during the year 1988-90.

There are 3 chilling units, one at Saoner having capacity of 1000 litres, second at Dudhala in Katol tahsil having capacity of 1000 litres and third at Khulsapar in Katol tahsil having capacity of 500 litres. One more chilling unit is proposed at Paoni (near Deolapar) having capacity of 300 litres during 1990-91.

Target of milk collection by the end of 1991 is given below :-

| ***** | | | | *** |
|-----------|---------|---------------------|-------------------|-----|
| Sr. No | | No. of Societies | No. of Members | |
| 1. | 2. | 3. | 4. | |
| 1. | 1986-87 | 18Ø | 14,000 | |
| 2. | 1987-88 | 200 | 16,000 | |
| 3. | 1988-89 | 225 | 18,000 | |

| Con | ł. | d | | | |
|-----|----|-------|---|---|--|
| | · | ***** | ٠ | • | |

| 1. | 2, | 3. | 4 . |
|--------------------------------|---|-----|--|
| 4. | 1989-90 | 25Ø | 20,000 |
| Ë , | 199Ø- 91 | 275 | 22,000 |
| Pares 100200 11000 11000 50000 | . 02700 92803 33100 50341 50366 19866 5500> 08006 33500 53400 73400 73400 74400 96100 96100 96100 | | MILL 100 100 100 100 100 100 100 100 100 1 |

(Source :- Dairy Development Deptt., Nagpur)

2,25 FOREST:

The area under forest was 171,100 hectares in Nagpur district during the year 1985-86. It works out 17.46 percent as compared to total geographical area in the district. The maximum area under forest i.e. 55 percent was in Ramtek tahsil. At other tahsils i.e. Parshioni, Umred, Bhivapur, Hingana, Kuhi and Katol the area under forest was respectively 29%, 22%, 17%, 16%, 15% and 14% as compared to the total geographical area of tahsils. Every tahsil in the district has area under forest.

The area under forest for different types in Nagpur district during the year 1987-88 was as under :-

| | | (Area in Sq. Km.) | | | | |
|---------|----------|-------------------|--------------|---------|--|--|
| Zone | Reserved | Protected | Unclassified | Total | | |
| 1. | | | 4 . | 5. | | |
| Revenue |) Silver | *** | 513,03 | 513.03 | | |
| Forest | 1478.43 | 822,76 | was | 23Ø1.19 | | |
| Total, | 1478,43 | 822.76 | 513,03 | 2814.22 | | |

(Source :- District Statistical Abstract, 1987-88)

The minor forest produce in Nagpur district are Bamboo, grass, lakh, bidi-patta, hirda, Moha, dink, etc. The Forest Department has sold total forest produce worth Rs.1154 lacs. during the year 1987-88.

The details are given in the following table :TABLE 2.21

| Sr. No. | Forest Produce | Value (in Rs.) |
|--|----------------|---|
| 1. | $z_{ m s}$ | The time time time the time time time time time time time tim |
| 1. | Timber | 8 6,549,000 |
| | Fuel | 10,530,000 |
| /*/ * | Bamboo | 1,957,000 |
| 4, | Grass | 178,000 |
| | Bidi Patta | 15,251,000 |
| 6. | Dink | 80,ଉଉଡ |
| 7. | Other | 887,000 |
| and the tree tree tree tree tree tree tree | Total | 115,432,000 |

(Source :- District Statistical Abstract, 1987-88)

2.26 FISHERIES:

Fisheries development activities in the district are restricted to inland water only. Rivers, tanks and ponds being the chief sources for fishing. Under Pench Irrigation project a reservoir has been constructed recently for development of fishery. Projects at Khindsi and Wena are under construction for this purpose. The fish seed production will be carried out by fishery department. The area of reservoir is about 11,905 hectares. The important varieties of fish in the district are Murrel, Dhadkya, Botri, Podhan, Tambu, Karvadi, Dhoara, Gama, Kantva, Chandi, Zinga, Kolus and Singhals. Fishermen in the district belong to the communities known as Dheemar, Bhoi and Kahar. The population emgaged in fishing activity was 5,955. In the district total available water spread is 8,146 hectares. Out of this 5,796 hectares is

useful for fisheries. The department-wise ownership of tanks, their hectarage, suitable for fish culture at the end of 1987-88 is enumerated below.

| Sr. No. | Ownership of Tanks | Total Tanks | | Suitable - Tanks f o r fish culture | | Tanks under fish culture | |
|---------------------|------------------------------------|-------------|-------------------------|--|-------------------------|-----------------------------|-------------------------|
| | | No. | Area (hect- ares) | No. | Area (hect- ares) | No. | Area (hect- ares) |
| 1, | 2. • 2. • | | ۷, , | 5, | 6 , | 7. | . 8 |
| | Irrigation Department | 59 | 5,871 | 59 | 5,871 | 59 | 5,871 |
| 2. | Zilla Parishad | 329 | 2,111 | 329 | 2,111 | 329 | 2,111 |
| 3, | Gram Panchayat | 11 | 37 | 11 | 37 | 11 | 37 |
| 4. | Govt. Fisheries Deptt./M.S.E.B. | | 1Ø7 | 1) | 107 | 3 | 107 |
| 5. | Nagar Parishad | 7 | 314 | 7 | 31A | 7 | 314 |
| 6. | Other (Private) | 7 | 46 | '7 | 46 | 7 | 46 |
| other rest ambs me. | Total | 416 | 8,146 | 416 | 8,146 | 416 | 8,146 |

(Source :- District Fisheries Office, Nagpur)

INLAND FISHERIES ;

At present there is inland fishing in the district. The Fishery Department has introduced inland fishery and estimated that about 690 Km. as suitable area.

The details are given below :-

Inland Fisheries In Nagpur District During 1987-88

| Sr. No. | Tahsil | Total area suitable for fish culture - pond,lakes & reservoir (in hect.) | under Pisci- culture | fish produ- ction. (in MT.) | of catcher to fish produ- cer. | used for Pisci- |
|---------------------------|---|--|----------------------------|--------------------------------------|--|--------------------|
| 1. | 277 62 - 4 10 - 100 100 100 100 100 100 100 100 100 | 3. | 4. | 5. | 6 . | 7, |
| 1. | Nagpur | 753 | 383 | 351 | 35.04 | 14.85 |
| /my | Hingana | 393 | 267 | 160 | 16.03 | 7,78 |
| J, | Kamptee | 157 | 4 | **** | Ø.4Ø | Ø.25 |
| 4, | Katol | 433 | 138 | 174 | 17,36 | 6.93 |
| 5. | Nankhed | 204 | 40 | 83 | 8,28 | 1,13 |
| ć» . | Saoner | 884 | 75Ø | 355 | 35,53 | 8.20 |
| 7. | Kalmeshwar | 330 | 242 | 132 | 13,23 | 7,20 |
| 8. | Ramtek | 1,510 | Ø18 | 840 | 84.00 | 20.12 |
| 9. | Parshioni | 1,796 | 1,793 | 8 5Ø | 85,03 | 5,67 |
| 10. | Mouda | 128 | 44 | 55 | 5,50 | 1.98 |
| 11. | Umred | 963 | 925 | 48Ø · | 48.00 | 17,28 |
| 12. | Bhivapur | 623 | 135 | 261 | 26,06 | 4.15 |
| 13. | Kuhi | 312 | 260 | 434 | 43.42 | 14,20 |
| 674-1 1-0018 17520 PAGE A | Total | 8,486 | 5,791 | 4,175 | 417,88 | 109.74 |

(Source :- District Statistical Abstract, 1987-88)

2.27 CO-OPERATION:

The number of different types of co-operative societies working in Nagpur district as on 30-6-87 and 30-6-88 is given in the following table :-

TABLE 2.22

| Sr. | Description | Nur | mbers | Membership | | |
|--------------|--|-----------------|------------------|----------------------------|--|--|
| No. | • | 6/87 | 6/88 | 6/87 | 6/88 | |
| 1. | 2, | . | 4. | 5. | 6. | |
| 1, | Credit Societies | 1,015 | 1,031 | 475,358 | 496,672 | |
| 23) All 4 | Non-Credit Societies | 2,394 | 2,392 | 223,778 | 258,534 | |
| Ι. | Agricultural Credit Societ: | | | | | |
| ii | Dist, Central Co-op. Bank Dist.Land Development Bar Development Bar Do-op. Societies. | s 1 Tok 1 | 1 1 583 | 1,965 27,817 164,241 | 2,025 27,980 168,777 | |
| | a) Grain Banksb) Agricultural Service- Society. | ****** | ***** | , J. Hans | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| II. | Non Agricultural Societies | | | | | |
| | Industrial Co-op. Bank i) Urban Banks and Urban Credit Societies. | 10 | 10 | 82,000 | 85,000 | |
| | ii) Salary Earners Society /) Mills and Factory - Workers Society. | 317 2 | 32 9 2 | 175,116 4,389 | 180,905 4,389 | |
| |) Thrift and Credit i) Other | 8 6 | 105 | 1 6, 75Ø | 30,596 | |
| III. | Agril,Non-Credit Societies | | | | | |
| | Agricultural MarketingAgricultural Production and Processing. | 24 16 | 19} 24} | 21,780 | 22,137 | |
| | ii) Fisheries /) Animal Husbandary - society. | 6 1 2 | 62 4 | 6,8Ø8 46 | 6 ,96 7 93 | |
| | | 1Ø 1Ø | 14 10 | 597 749 | 98ø 749 | |
| | a) Poultry b) Crop Protection | 3 | 1 Ø - | 2 9 3 | 877 - | |
| Vi | c) Milk Societies (ii) Other (Specity) | 186 | 199 | 12,711 | 13,017 | |
| | a) Flour Millb) Horticulture Society | erson | | na ₆ ; . | anns M in a | |
| IV. | Non-Agril. Non-Credit Societies. | | | | | |
| i > | Handloom/ Powerloom Weavers. | 413 | 43 4 | 40,050 | 40,388 | |
| ii. iii | Spinning Other Industrial | 2 232 | 2 255 | 3,950 13,653 | 3,969 15,378 | |
| | Society | | | e e e | | |

Contd...

| l . | 2. | \$. | 4, | 5. | 6. |
|--------------|--------------------------------------|-------|-------|---------|---------|
| iv) | Consumers Stores | 315 | 327 | 52,894 | 80,261 |
| * v) | Housing Society | 933 | 954 | 52,132 | 53,739 |
| ∨i) | Supervision Society | 1 | 1 | 371 | 371 |
| vii) | Other (Specify) | | | | |
| | a) Industrial Estate | 2 | 盂 | 105 | 155 |
| | b) Transport | 3 | 8 | 648 | 648 |
| | c) Printing Press | 19 | 20 | 804 | 854 |
| | d) Dist. & Divisional Co-op. Boards. | 2 | 2 | 1,203 | 1,217 |
| | e) Labour Contract | 106 | 112 | 11.711 | 14.273 |
| | f) Federation | 6 | 6 | | 2,731 |
| | Total | 3,409 | 3,423 | 699,136 | 755,208 |

(Source :- District Dy. Registrar Co-op. Societies, Nagpur)

In Nagpur district there were total 3,423 Co-operative Societies at the end of June 1988 and total members were 755,206. Out of these total societies 1,031 i.e. 30 percent were Credit Societies and out of these 583 i.e. 17 percent were Agricultural Credit Societies and remaining 83 percent were other societies. There were 199 Milk Societies and 62 Fishing Societies as on 30-6-1988.

As regards membership out of total membership 496,672 members (65 percent) enrolled in Credit Societies and remaining 35 percent were in Non-Credit Societies.

District Co-operative Banks :

The Nagpur District Central Co-operative Bank was the major co-operative banking institution which had 80 branches during the year 1987-88 covering all tabsils in the district. The main function of bank was to supply agricultural finance through affiliated primary societies.

The progress made by co-operative bank is given below :-

| Sr. No. | Pariculars | 1986-87 | 1987-88 | | | | |
|------------|--|-------------------------------|--------------------------------|--|--|--|--|
| 1. | Branches | 77 | 80 | | | | |
| 2. | Membership | | | | | | |
| | i) Societies ii) Individual | 1,8 0 2 163 | 1,862 163 | | | | |
| ঊ. | Share Capital | 18,700,000 | 2,700,000 | | | | |
| 4. | Working Capital | 438,100,000 | 485,200,000 | | | | |
| 5. | Loans Advanced | | | | | | |
| | i) Short Term ii) Medium Term iii) Long Term | 168,400,000 82,400,000 | 191,100,000 98,300,000 — | | | | |

(Source :- District Central Co-operative Bank, Nagpur)

Land Development Bank :

The progress of Land Development Bank in the district is given below for the years 1986-87 and 1987-88.

| | | (Rs. | in lacs) | |
|------------|--------------------|------------|------------|-----|
| Sr. No. | Description | 1986-87 | 1987-88 | |
| 1. | Number of Branches | 14 | 14 | |
| 2. | Share Capital | 11,705,00 | 11,585.00 | |
| 3. | Advance | 81,99 | 55,25 | |
| 4. | Recovery | 98,45 | 106,95 | |
| 5, | Loans outstanding | 103,159.00 | 102,526.00 | *** |

(Source :- Land Development Bank, Nagpur)

2.28 INDUSTRY:

Nagpur city is an important industrial and commercial centre in Maharashtra. Industrial development has been mostly confined urban areas only. Rural areas are not industrialised and depend mostly on agriculture. The non-agricultural employment is, however, in traditional crafts with locally available raw materials and by and large for local demands. Traditional crafts are conducted in household and cottage industry scale and included handloom weaving, oil ghanis, tanning and leather goods manufacturing, pottery and bricks, cane and bamboo work, dying and printing etc.Nagpur handloom saries are famous and have a good market all over the State.The well-known silk bounded cloth is exported to various parts of the country. The large scale units comprised of cotton textile,cotton ginning and pressing,saw milling,paper and straw-board,ceramics, ferromanganese and steel-rerolling etc.

Nagpur district is under-developed district so far as industrialisation is concerned. The government of maharashtra has classified this district in 'C' catagory for MIDC area Nagpur and 'D' catagory for remaining other tabsils of district (except M.I.D.C Nagpur) for providing incentives to the enterpreneurs. At present, there are two M.I.D.Cs., one at Nagpur and other at Kalmeshwar. one Co-operative industrial Estate and one mini Co-operative Industrial Estate at Nagpur are functioning in the district.

in the district. There are 56 large and medium scale industries in Nagpur district.

There are 8,152 provisional and 3833 permanent small scale industries (registered with D.I.C.) in the district having employment potential of 74,417 persons.

The important small scale industries are oil mills, dal mills, fabrication and agro-based industries and industries dealing with various services in engineering.

TABLE 2.23

Existing Status of Small Scale Industries as on 31-3-88

| Sr. No. | Category | No.of units | Employment | |
|---|------------------------|------------------|----------------|--------|
| 1 | 2 | Provisional 3 | Permanent 4 | 5 |
| 1. | · Agro-based | 438 | 267 | 4,737 |
| 2. | Forest-based | 491 | 351 | 5,052 |
| 3, | Mineral based | 264 | 50 | 1,884 |
| 4. | Food industries | 5Ø8 | 184 | 4,152 |
| | Engineering and allied | 3,296 | 1,505 | 29,806 |
| 6. | Chemical | 1,237 | 6 1 7 | 11,124 |
| 7. | Animal Husbandary | 90 | 26 | 696 |
| 8. | Building Material | 464 | 1.44 | 4,148 |
| 9. | Other Industries | 1,364 | 689 | 12,818 |
| *************************************** | Total | 8,152 | 3,833 | 74,417 |

(Source:-District Industries Centre Action Plan, 1988-90)

Existing Status of Large Scale & Medium Scale Industries

(as on 1-12-1988) Sr. Category No.of units Employment No. 1 2 3 7 1. Agro-Based 14,396 2. Forest based :5 841 3. Mineral based 4. Food Industries 2,474 6 5. Engineering & allied 19 6,071 6. Chemical 2 139 7. Animal Husbandary

| ۳ı | t | d | ٠ | ٠ | 4 |
|----|---|---|---|---|---|
| | | | | | |

| 1. | 2. | 3, | 4. |
|---------------------------|---------------------------------------|-----|--------|
| 8. | Building Material Other Industries | 1 7 | 7,847 |
| 1000 Mars 1980 Miles 1980 | Total | 56 | 31,768 |

(Source:-District. Industries Center, 1988-90)

Existing Status of Artisian Oriented Units (KVIB)

(as on 31-3-88) No. of units Sr. Category Employment No. Agro based 1. 83 185 2. Forest based 455 980 3. Mineral based 4. Food Industry 5 . Engineering & allied Chemical 5 6. 24 7. Animal Husbandary 201 474 8. Building Material 9. Other Industries රුර 152 Total 810 1,815

(Source :-District Industries Centre Action Plan 1988-90)

2.29 As per 1981 Population Census, the number of workers engaged in house-hold activities, manufacturing, processing and servicing was about 49,900 in Nagpur district. Out of these 14,500 were in rural area and 35,400 in urban areas.

This accounts 5.30 percent of the total workers in the district.

As per Economic Census 1980 the number of workers in Non-Agricultural establishments for Nagpur district is given below:-

| Sr. | Major Industry | Number of Workers | | | | |
|---------------------------|--|-------------------|----------------|------------|--|--|
| No, 1 | Group 2 | Rucal 3 | Urban 4 | Total 5 | | |
| ð1, | I - Mining | 5,174 | 717 | 5,891 | | |
| ð2. | II - Manufacturing and III - Servicing | 31,971 | 8 5,261 | 1,17,232 | | |
| 73. | IV - Power , Gas & Water | 4,774 | 3,623 | 8,397 | | |
| 34. | V - Construction | 4,094 | 1,111 | 5,205 | | |
| 05 . | VI-A- Wholsale and Retail Trade. | 8,871 | 42,766 | 51,637 | | |
| შბ, | VI-B- Hotels and Restaurants | 2,099 | 8,470 | 10,569 | | |
| ð7. | VII-A- Transport | 476 | 13,884 | 14,360 | | |
| J8. | VII-B- Storage and Warehousing | 674 | 1,271 | 1,945 | | |
| 99. | VII-C- Communication | 375 | 3,347 | 3,722 | | |
| lØ. | VIII - Finance, Insu- rance, Business. | 6,486 | 9,456 | 15,942 | | |
| .1. | IX - Community Services | 27,276 | 67,732 | 85,008 | | |
| .2, | X - Other | 13Ø | 589 | 719 | | |
| 1 camps about dross bythe | Total | 87,400 | 231,227 | 318,627 | | |

⁽ Source :- Economic Census, 1980)

It is observed from the above table that the percentage of workers in sector 'Manufacturing and Servicing' is higher (36.79 percent) and is followed by the sector 'Community Services' (26.67 percent) and 'Wholesale and Retail Trade' (16.20 percent).

2.30 INDUSTRIES IN THE DISTRICT :

The information regarding existing industries registered under Factory Act in Nagpur district is given below:

TABLE 2.24
Industry-wise distribution of Factories in 1987

| Major Group | | No. of | | | | |
|--|---|---|---|--|--|---|
| | Regis- tered | closed | which are submi- tting | Male | | Total |
| 2. | 3. | 4. | 5. | 6. | 7. | 8, |
| 3 Ø | | | | | | |
| Agricultural Production. | 1 | ann. | 3. | 23 | 2.2 | 46 |
| 26-21 | | | | | | |
| Manufacture of Food Products. | 1Ø2 | 15 | 82 | 2,745 | 392 | 3,137 |
| 22 | | | | | | |
| Manufacture of Beverages, Tobacco and | | 1 | 19 | 716 | 41 | 757 |
| 23 | | | | | | |
| Manu'acture of | | 55 | 21 | 5,388 | 423 | 5,811 |
| 24 | | | | | | |
| Wool, Silk and | | 1 | 5 | 74 | 45 | 119 |
| 25 | • | | | | | |
| Manufacture of Jute, Hemp and Mest: textiles | 1 | **** | 1. | 49 | ***** | 49 |
| 26 | | | | | | |
| #ufacture of | 6 | 2195 8611 | 4 | 116 | 83 | 199 |
| | 2. ØØ Agricultural Production. 2Ø-21 Manufacture of Food Products. 22 Manufacture of Beverages, Tobacco and Tobacco produc 23 Manufacture of Cotton Textile 24 Manufacture of Wool, Silk and Syntletic fibritextiles. 25 Manufacture of Jute, Hemp and Mesta textiles 26 | Units Registered 2. 3. 3. 3. 3. 3. 3. 3. 4. 4. 4. | Units Regis— closed tered 2, 3, 4. 2, 3, 4. 2, 3, 4. 2, 3, 4. 2, 2, 3, 4. 2, 2, 3, 4. 2, 2, 3, 4. 2, 2, 3, 4, 4. 2, 2, 3, 4, 4. 2, 2, 3, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, | Units Units Which Regis— closed which tered submitting Reports 2. 3. 4. 5. ØØ Agricultural 1 — 1 Production. 20-21 Manufacture of 102 15 82 Food Products. 22 Manufacture of 20 1 19 Beverages, Tobacco and Tobacco products. 23 Manufacture of 32 5 21 Cotton Textile. 24 Manufacture of 6 1 5 Wool, Silk and Synthetic fibre textiles. 25 Manufacture of 1 — 1 Jute, Hemp and Mesta textiles. 26 | Units Registrated Closed which Male and submitting Reports 2. 3. 4. 5. 6. @@ Agricultural 1 - 1 23 Production. 20-21 Manufacture of 102 15 82 2,745 Food Products. 22 Manufacture of 20 1 19 716 Beverages, Tobacco and Tobacco products. 23 Manufacture of 32 5 21 5,388 Cotton Textile. 24 | Units Registrated which Male Female are submitting Reports 2. 3. 4. 5. 6. 7. @@ Agricultural 1 - 1 23 23 Production. 2### Zana Production. 2### Zana Products. 22 |

| 1. | 2. | 3, | 4. | 5. | 6. | 7, | 8. |
|-------|--|------------|-----|-----|-------|-------|-------|
| Ø8. | 27 | | | · | | | |
| | Manufacture of Wood and wood products, furniture & fixture. | 57Ø | 1Ø7 | 383 | 2,304 | 12 | 2,316 |
| Ø9. • | 28 | | | | | | |
| | Manufacture of paper & paper products and printing, publishing and allied industries | 57 -s. | 5 | 47 | 1,707 | 39 | 1,74 |
| 1Ø. | 30 | | | | | | |
| | Manufacture of rubber, plastic, petroleum and coal products. | 26 | 1 | 24 | 1,491 | 31 | 1,52 |
| 11. | 31 | | | | | | |
| | Manufacture of chemical and chemical product | 62 5. | 3 | 51 | 1,618 | 298 | 1,91 |
| 12. | 32 | | | | | | |
| | Manufacture of Non-metallic mineral products | 87 | සි | 75 | 4,196 | 2,669 | 6,865 |
| 13, | 33 | | | | | | |
| | Basic Metal and Alloys Industrie | | 9 | 61 | 6,720 | 1Ø4 | 6,824 |
| 14. | 34 | | | | | | |
| | Manufacture of metal products & parts except machinery & transport equipments. | 4 9 | 3 | 40 | 1,873 | 19 | 1,892 |
| 15. | 35 | | | | | | |
| | Manufacture of Machinery, machine tools & parts except Electrical | 57 | 7 | 4.9 | 1,697 | 14 | 1,621 |

| 1. | 2 . | 3. | 4. | 5. | 6, | 7. | 8. |
|-----|---|----|--|----|-------|------------|-------------|
| 16. | 36 | | | | | | |
| | Manufacture of Elect- rical machinery, Apparatus, Appliances and supplies and parts. | 24 | 4 | 17 | 473 | 67 | 54 Ø |
| 17. | 37 | | | | | | , |
| | Manufacture of trans- port equipment and parts. | 9 | Labora | 7 | 915 | යි | 923 |
| 18. | 38 | | | | | | |
| | Other manufacturing industries. | 7 | | 7 | 69 | 5 5 | 124 |
| 19, | 4Ø | | | | | | |
| | Electricity | 4 | - | 4 | 7Ø7 | 25 | 732 |
| 2Ø. | 41 | | | | | | |
| | Gas and Steam | 4 | 1 | 3 | 147 | 2 | 149 |
| 21, | 42 | | | | | | |
| | Water works and supply. | 2 | | 2 | 76 | 1 | 77 |
| 22. | 51 | | | | | | |
| | Activities allied to construction. | 1 | ************************************** | 1 | 2,193 | 11 | 2,204 |
| 23, | 61 | | , | | | | |
| | Wholesale trade in fuel, light, chemicals, perfumery, ceramics and glass. | 4 | | 4 | 17 | | 17 |
| 24. | 62 | | | | | | |
| | Wholesale trade in wood, paper, other fabrics, skins and inedible oils. | 5 | | 5 | 29 | - Mana | 29 |
| 25. | 68 | | | | | | |
| | Retail trade in others. | 5 | | 5 | 44 | | 44 |
| 26. | 72 | | | | | | |
| | Air transport. | 1 | i | | | | |

| 1. | 2 , | 3. | 4. | 5. | 6, | 7, | 8, |
|-------------|--------------------------|-------|-----|-----|--------|-------|--------|
| 27, | 74 | | | | | | |
| | Storage and warehousing. | 3 | 1 | 1 | 8 | ***** | 8 |
| 28. | 96 · | | | | | | |
| | Personal services | 2 | | 2 | 26 | *** | 26 |
| 29. | 97 | | | | | | |
| | Repair services | 3Ø | 2 | 28 | 1,572 | 13 | 1,585 |
| mr 100 mm - | Total | 1,253 | 175 | 947 | 37,886 | 4,381 | 42,267 |

(Source :- District Statistical Abstract, 1987-88)

2.31 IMPORTANT INDUSTRIES ;

In Nagpur district, Nagpur city is an important industrial and commercial centre in Maharashtra. Industrial development has remained mostly confined to urban areas only. Rural areas are not industrialised and depend mostly on agriculture. The non-agricultural employment is, however, in traditional crafts worked with locally available raw material and by and large for local demand. The large scale units comprise of cotton textile, cotton ginning and pressing, saw milling, paper and straw-board, ceramics, ferromanganese, steel re-rolling etc. The cotton textile mills, the Empress Mill and Model Mill located in Nagpur city are the largest composite mills employing more than 12,000 workers. Besides there are six large scale cotton ginning and pressing units. There is a unit of manufacturing gray board from waste paper.

Government Printing Press, Shivraj Fine Art Litho Works, Shakti Offset Works and All India Reporter Press are the four large units employing over 1,200 workers. The unit manufacturing safety fuses for blasting gun powder is located at Kamptee Road,

Small-pox and cholera vaccines are manufactured at the Vaccine Institute, Nagpur. At Itwari there is a unit manufacturing stoneware, jars, cups and saucers. There is one ferro-manganese unit at Kamptee. Bus bodies are built at Government Central Workshop at Nagpur. Again at Kamptee Road, there is the South-Eastern Railway narrow gauge workshop. Leaf springs and other ancillaries are also manufactured by the Canara Workshop Ltd., Nagpur

Nagpur handloom saries are famous and have a market all over the State. The well known silk bounded cloth is exported to various parts of the country. Mining industry is of considerable importance in the district because of its rich manganese ore deposits. Rope manufacturing and sawmilling units at Nagpur. The other units of importance are cement pipes manufacturing units, sulphuric acid, carbondioxide, paints, varnishes and boiled oils units at Kanhan-Kamptee areas.

2.32 ECONOMIC CENSUS - 1980 :

The number of establishments in different sectors as per Economic Census 1980 is given in the following table :-

TABLE

| Sr. | Sector | No. of Establishments | | | |
|-----|---|-----------------------|--------|----------------|--|
| No. | · | Rural | Urban | Total | |
| 1. | 2. | 3. | 4. | 5. | |
| 1. | Manufacturing and repair services. | 13,311 | 23,827 | 37,148 | |
| 2. | Wholesale and retail trade | 6,220 | 23,679 | 29 ,899 | |
| 3. | Transport, storage and warehousing and financing etc. services. | 784 | 5,942 | 6,726 | |
| 4, | Community, social and personal services. | 5,893 | 7,990 | 13,883 | |

| Co | nt | d | ٠ | |
|----|----|---|---|--|
| | | | | |

| 1. | 2. | | 4. | 5 , |
|----------------------|--------------------------|----------------|--------|----------------|
| 5, | Mining and Quarrying | 145 | 18 | 163 |
| 6. | Electricity, Gas & Water | 19Ø | 136 | 326 |
| 7. | Construction | 161 | 387 | 548 |
| 8, | Restaurant & Hotels | 1,024 | 2,491 | 3 ,51 5 |
| 9, | Others | 11 | 110 | 121 |
| Trope prote delec pl | Total | 27 ,897 | 64,716 | 92,613 |

(Source :- Economic Census, 1980)

As per Economic Census 1980, in Nagpur district the total number of non-agricultural establishments was 92,613. Out of these 31.1 percent were in rural area while 68.9 percent were in urban area. Out of total establishments, 85,259 (92.1%) establishments were in private sector, 6,000 (6.4%) establishments were in public sector and only 1,354 (1.5%) establishments were in co-operative sector.

2.32-A MINING :

The district is rich in mineral wealth. Coal, manganese, iron ore, limestone and clay deposits are the main minerals found. The coal-fields are known as Kamptee coal-field, Umred coal-field in the district.

2.33 ELECTRICITY ;

In the district electricity was introduced by private firm as early as 1905. Later in 1950, a thermal power station with installed capacity of 30,000 Kilo Watts was set up at Khaparkheda near Nagpur. This station is supplying electricity not only to the district in Nagpur division, but also to three districts in Madhya Pradesh and is inter-connected with

Ballarshah Power Station in Chandrapur district. The Trubo alternator was set-up in 1960 to raise the capacity from 30,000 Kilo Watts to 60,000 Kilo Watts.

At present there are two thermal power stations in the district, one at Khaparkheda and another at Koradi. Very soon power supply will be made available from Pench Hydro-Electric Project. Power availability from these two thermal power stations during 1985-86 was as fallows -

| oppen bellen filmen eriget weden bellen er | Thermal Power Stations | Budget estimate 1985-86 (in million units) | | | |
|--|------------------------|---|-------|--|--|
| 1) | Khaparkheda | • • • | 200 | | |
| 2) | Koradi 1 to 5 | • • • | 3,770 | | |
| 3) | Koradi 6 . | • • • | 1,150 | | |
| 4) | Koradi 7 | • • • | 1,150 | | |

The following table indicates tabsil-wise number of villages and villages electrified at the end of March, 1989.

No, of villages electrified as on 31-3-1989

TABLE 2,25

| Sr. No. | Tahsil | No. Of villages | Villages electrified. | | No. of pumps connected, |
|------------|------------|--------------------|--------------------------|-----------------|----------------------------|
| 1. | 2. | 3. | 4 . | 5. | 6. |
| 1. | Nagpur | 145 | 145 | 100,00 | 4,603 |
| 2. | Hingana | 123 | 123 | 100,00 | 3,518 |
| 3. | Kamptee | 74 | 74 | 100,00 | 2,285 |
| 4. | Katol | 169 | 169 | 100,00 | 7,901 |
| 5. | Narkhed | 132 | 132 | 100,00 | 9,973 |
| 6, | Saoner | 125 | 125 | 100,00 | 4,607 |
| 7. | kalmeshwar | 91 | 91 | 100.00 | 6,190 |
| 8. | Ramtek | 149 | 149 | 100 .0 0 | 1,056 |
| 9. | Parshioni | 1Ø9 | 1Ø9 | 100.00 | 1,452 |

| 1. | 2. | 3, | 4. | 5. | 6. |
|-----------------------|----------|---|--|--|--|
| iø. | Mouda | 121 | 121 | 100.00 | 1,789 |
| 11. | Umred | 153 | 153 | 100.00 | 1,386 |
| 12, | Bhivapur | 112 | 112 | 100,00 | 1,083 |
| 13. | Kuhi | 155 | 155 | 100,00 | 1,527 |
| ents area tage have a | Total | 1,658 | 1,658 | 100,00 | 47,390 |
| | | with after such trace was been boso policy soles such trace | arms from white partitionary some trans tring poor street taken assess tooks the | and deliver trades mades remark alleges relates related to the entere analysis and | any aranja admin 1986 najar aranja upan direny Plane all |

(Source :- M.S.E.B., Nagpur)

It is observed that the electrification is 100 percent at Nagpur district. 47,390 electric pumps are connected with supply in the district. Narkhed, Katol and Kalmeshwar have more number of electric pumps connected compared with other tahsils of the district.

The consumption of electricity in Nagpur district during the year 1988-89 is as under:-

| Sr. No. | Purpose | KWH in lakhs | Per capita consum ptio n |
|------------|-----------------|--------------------|------------------------------------|
| 1. | 2. | 3. | 4. |
| 1. | Domestic | 162,459,799 | 62,75 |
| 2. | Commercial | 44, 580,332 | 17,22 |
| 3, | Industrial | 281,817,205 | 108.85 |
| 4. | Public Lighting | 7,069,384 | ø,27 |
| 5. | Agriculture | 1,761,206 | ø.68 |
| 5 , | Other purpose | 80,946,769 | 31,26 |

(Source: - M. S. E. B., Nagpur)

It will be seen from the above table that the per capita consumption was high for industrial purpose followed by domestic purpose.

2.34 NON-CONVENTIONAL WAYS OF ENERGY :

The tahsilwise number of Gober Gas Plants installed in Nagpur district from the year 1983-84 is given in the following table:-

| **** *** **** | . Miles 8000 alles galle bally 2011; lagge alles state being was w | ~ >== === === === === === === === === == | | es sour mary bless these bless place with many in | | | d acces denne drawn danne danne piller siden |
|---------------|--|--|-------|---|------------|-------|--|
| Sr. No. | Tahsil | 1983-84 | 84-85 | 85-86 | 86-87 | 87-88 | Total |
| 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. |
| 1. | Nagpur | 82 | 166 | 64 | 1Ø1 | 111 | 474 |
| 2. | Kamptee | 61 | 67 | 158 | 5 2 | 58 | 396 |
| 3. | Hingna | 6 2 | 132 | 251 | 183 | 115 | 743 |
| 4. | Saoner | 39 | 115 | 127 | 103 | 152 | 536 |
| 5, | Kalmeshwar | 86 | 1Ø1 | 1Ø7 | 182 | 1Ø1 | 577 |
| 6, | Katol | 68 | 140 | 106 | 127 | 1Ø5 | 546 |
| 7, | Narkhed | ЬØ | 125 | 115 | 72 | 1Ø5 | 477 |
| 8. | Ramtek | 57 | 151 | 13Ø | 1Ø5 | 171 | 6Ø8 |
| 9. | Parshioni | 51 | 5Ø | 160 | 125 | 1Ø5 | 491 |
| 1Ø. | Mouda | 88 | 160 | 130 | 51 | 75 | 5Ø4 |
| 11. | Umred | 191 | 131 | 169 | 125 | 128 | 744 |
| 12. | Bhivapur | 177 | 121 | 181 | 1 45 | 15Ø | 774 |
| 13. | Kuhi | 71 | 1Ø1 | 1Ø5 | 131 | 114 | 522 |
| | Total 1 | ,ø87 | 1,560 | 1,803 | 1,502 | 1,490 | 7,442 |

⁽ Source :- Agriculture Department, Z.P., Nagpur)

The tahsil-wise number of Smokeless Chullahs installed in Nagpur district from the year 1984-85 is shown in the following table -

TABLE 2.27

| Sr. No. | Tahsi1 | 1984-85 | 8 5- 8 6 | 86-87 | 87-88 | Total |
|---------------------|------------|----------------------------------|------------------------|--------------|-------|--------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1. | Nagpur | 725 | 426 | 25ø | 323 | 1,714 |
| 2. | Kamptee | 4Ø1 | 465 | 250 | 343 | 1,459 |
| ₹. | Hingana | 100 | 4ØØ | 310 | 271 | 1,081 |
| 4. | Katol | 100 | 5Ø 9 | 54Ø | 283 | 1,432 |
| 5. | Narkhed | Americal Specifics approximately | 475 | 311 | 283 | 1,069 |
| 6, | Saoner | 100 | 35Ø | 3 6 Ø | 283 | 1,093 |
| 7, | Kalmeshwar | 100 | 495 | 24Ø | 283 | 1,118 |
| 8, | Ramtek | 725 | 5øø | 85Ø | 363 | 2,438 |
| 9, | Mouda | 100 | 473 | 254 | 273 | 1,100 |
| 1Ø. | Kuhi | 725 | 450 | 25Ø | 283 | 1,561 |
| 11, | Parshioni | 100 | 47Ø | 42Ø | 323 | 1,313 |
| 12. | Umred | 725 | 499 | 25Ø | 343 | 1,817 |
| 13. | Bhivapur | 728 | 4 5Ø | 249 | 263 | 1,690 |
| THE SHAPE SHAPE PAR | Total | 4,629 | 5,952 | 4,534 | 3,77ø | 18,885 |

(Source :- Agriculture Department Z. P., Nagpur)

2,35 RAILWAY:

Nagppur is situated on Bombay-Calcutta rail link and Delhi-Madras trunk routes. The total length of the railway routes in the district is 382.81 Km. as on 31-3-1988.

| Sr. No. | Railway Routes | Length in Km. | | |
|------------------------------------|-------------------------|------------------|--|--|
| 1. | Broad Gauge | | | |
| | i) Single ii) Double | 146.88 1Ø4.7Ø | | |
| 2. | Meter Gauge | *** | | |
| ₹. | Narrow Gauge | 131,23 | | |
| state their section beauty south t | Total Railway Routes, | 382,81 | | |

(Source :-District Statistical Abstract, 87-88)

2.36 ROADS:

The district is well connected by roads with adjoining districts that is Wardha, Chandrapur, Bhandara, Amravati and some of the districts of Madhya Pradesh. The district head-quarter is connected with important towns, market centres and villages. The total road length in the district is 6,769 km. including motorable roads.

Position of road length according to different types in Nagpur district as on 31-3-1988 is given in the following table-

TABLE 2.28
Road length in Nagpur district as on 31-3-1988

| | | | (Lengt | h in Km. | ,) | |
|------------|----------------------|---|--------------------|----------|-------|--|
| Sr. No. | Type | Non-Mu | Non-Muncipal Roads | | | |
| listern * | | F.W.D. | Z.F. | Total | Roads | |
| 1 | 2 | 1000 1000 1000 1000 1000 1000 1000 1000 | 4 | 5 | 6 | |
| 1. | National Highway | 230 | Ng 100k | 23Ø | 62 | |
| 2. | State Highway | 689 | 147 | 836 | 86 | |
| 3. | Major District Roads | 27 3 | 372 | 645 | | |
| 4 | Other District Roads | 256 | 419 | 675 | **** | |

Contd...

| | | • | | | |
|---|------|---------|----|--|-----|
| | ·**· | , , | d | | |
| ٤ | 11 | 10 | 11 | | - 4 |

| 1., | 2 . | 3, | 4, | 5. | 6, |
|--------|----------------------|---------|----------------|-------------|----------|
| 5. | Village Roads (Plan) | 243 | 2,512 | 2,755 | More. |
| 6. | Other (Non-Plan) | 219 | , 130 <u>-</u> | 219 | 1,261 |
| | Total | 1,910 | 3,450 | 5,360 | 1,409 |
| .,,,,, | (Source :- Dist | rict St | stistic | al Abstract | 1987-88) |

AIR SERVICE ;

Nagpur is connected by Air with some important cities in the country. Nagpur city is having Air-Port at Sonegaon. Indian Airlines air travel facility is available from Nagpur to Bombay, Pune, Delhi, Calcutta, Hyderabad and Bhubaneshwar.

Recently started Vayudoot Passenger Service is also available from Nagpur to Jabalpur, Bhopal, Aurangabad, Indore and Bombay. Some more cities are likely to be connected in near future.

2.37 MOTOR VEHICLES:

The following table indicates the number of Motor Vehicles in Nagpur district -

TABLE 2.29

| Sm. | Item | Number as on | | |
|-----|----------------------------|--------------|-------------|--|
| No. | · | 31-3-87 | 31-3-88 | |
| 1 | 2 | | 4 | |
| Ø1, | Motor-Cycles, Scooter etc. | 106,538 | 128,319 | |
| Ø2. | Motor Cars/Jeeps | 10,782 | 11,967 | |
| ø3. | Taxi Cabs | 619 | 7 36 | |
| Ø4. | Auto Rickshaws | 4,123 | 4,676 | |
| Ø5, | State Carriages | | | |
| | a) Diesel b) Petrol | 8øø - | 64 3 | |

| <u>.</u> | ٠ | J.~. | 4 | | | |
|----------|--------|------|----|-------|---|--|
| ٤,,,٠ | ١,,,,١ | 1 1 | ι. | ٠ | 4 | |

| 1 , | · 2, 4 | | 4 . |
|---|--------------------------|---------|---------|
| ø6. | Lorries | | |
| | a) Private Carriers | | |
| | i) Diesel | 1,320 | 1,346 |
| | ii) Petrol | 125 | 133 |
| | b) Public Carriers | | |
| | i) Diesel | 6,643 | 7,089 |
| | ii) Petrol | 698 | 727 |
| Ø7. | Ambulance | 1.05 | 1Ø8 |
| Ø8. | School Buses | 16 | 16 |
| ø9. | Private Service Vehicles | 82 | 98 |
| ıø, | Trailors | 1,216 | 1,339 |
| 11. | Tractors | 1,188 | 1,308 |
| 12. | Others | 125 | 327 |
| *************************************** | | | |
| | Total | 134,380 | 158,842 |

(Source :- District Statistical Abstract 1986-87,87-88)

2.37(A) COMMUNICATION MEDIA:

The number of post-offices, telegraph offices, telephones, Radio and T.V. sets for the year 1987-88 is given below.

| 1) | No. of Post Offices | . : | 323 |
|----|--|----------|--------|
| 2) | No. of Telegraph Offices | : | 69 |
| 3) | No. of Telephones | . : | 20,586 |
| 4) | No, of Radio sets installed by Rural Broadcasting Department, | : | |
| 5) | No. of T.V. sets distributed by | † | 677 |

The All India Radio Stations with studio and T.V. Relay Stations are functioning in Nagpur district.

The Cinema statistics in Nagpur district for the year 1987-88 is given below :-

| Sr. No. | Tahsil | | No. of movement Talkies/Theatnes |
|--------------------|--|---|--|
| Ø1, | Nagpur City | 25 | ••• |
| Ø2. | Nagpur (Runal) | | 1991 |
| Ø3. | Hingana | ¥184 | Here |
| Ø4. | Kamptee | 4.3 | ***** |
| ø5, | Katol | 1 | Manu |
| Ø6. | Nankhed | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 1. |
| ø7, | Saoner | 101** | 1 |
| ø8, | Kalmeshwar | 1 | 1 |
| ø9, | Ramtek | 1 | 1 |
| 10. | Parshioni | | 1. |
| 11. | Mouda | Notes | 1 |
| 12, | Umred | 2 | •••• |
| 13, | Bhivapur | _ | |
| 14. | Kuhi | | *** |
| and was that the c | the time that the time case the time the time the time and the time time the time time time. | alan alah maya tibag kabu titis alah timp ding kabu tahu pand tidag dina alah kapi gari filip kiba kabu | . The same time with their past time time time time time time time tim |
| | T | otal 32 | 6 |

(Source :- District Statistical Abstract 1987-88)

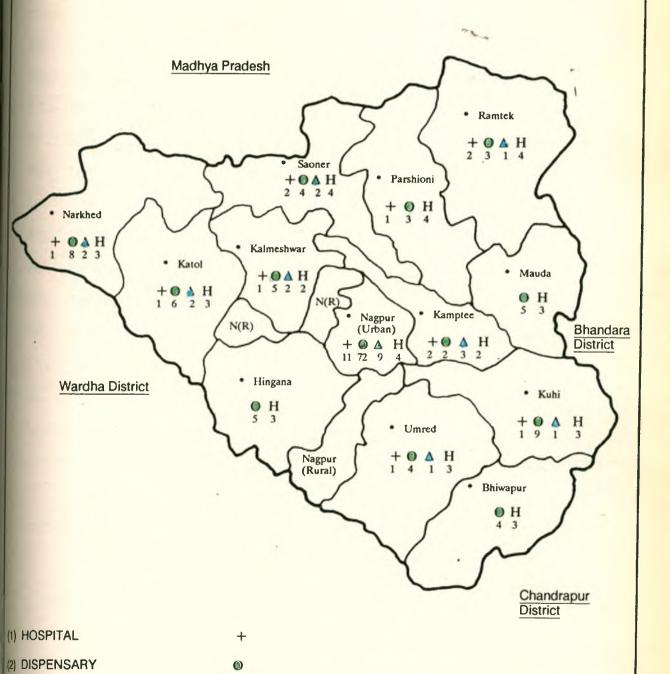
In Nagpur district 8 Marathi, 7 Hindi and 3 English daily news papers are published. There are 30 in Marathi and 9 in Hindi weekly publications. There are 8 Marathi fortnightly publications and monthly publications published in Marathi, Hindi and English.

2.38 MEDICAL FACILITIES :

The tabsil-wise information of existing medical facilities for the year 1987 is given in the following table:-

NAGPUR DISTRICT

PUBLIC HEALTH FACILITIES 87-88



A

Н

(3) MATERNITY HOME

(4) PRIMARY HEALTH CENTRE

TABLE 2.30 Medical facilities in the district

| Sr. No. | Tahsil | Hospi- | | Mater- | | | |
|------------|------------|--|-----|--------|---------|-----|------------|
| 1 | 2 | - 1000 Mai 2000 Mai 2000 Mai 2000 Mai 2000 | 4 | 5 | 6 | | 8 |
| Ø1. | Nagpur | 1. 1. | 72 | 57 | 4 | 745 | 1,383 |
| Ø2. | Hingana | | 5 | | 3 | 1 1 | 28 |
| Ø3, | Kamptee | 2 | 2 | 3 | 2 | 15 | 38 |
| Ø4. | Katol | 1 | 6 | 2 | | 16 | 41 |
| Ø5, | Nankhed | 1 | 8 | 2 | 3 | 15 | 32 |
| Ø6. | Saoner | 2 | 4 | 2 | 4 | 18 | 53 |
| Ø7., | Kalmeshwar | 1 | 5 | 2. | 2. | 9 | 25 |
| Ø8, | Ramtek | 2 | 3 | 1 | 4 | 19 | 4.7 |
| Ø9. | Parshioni | 1. | 3 | **** | 4 | 13 | 33 |
| 1Ø, | Mouda | **** | 5 | Messor | 3 | 1 1 | 2 8 |
| 11. | Umred | 1 | 4 | 1. | 3 | 12 | 32 |
| 12, | Bhivapur | | 4 | bleven | 3 | 10 | 26 |
| 13, | Kuhi | 1 | 9 | 1 | 3 | 17 | 33 |
| | Total | 23 | 130 | 23 | 4.1 | 911 | 1,799 |

⁽ Source :- District Statistical Abstract, 1987-88)

2,39 TRADE & COMMERCE :

The chief articles of export from the district contain cotton bales, gas cylinders, steel pipes, handloom saries and cloth, minerals like coal and managanese and oranages. The district against this imports steel plate, thread, wheat and rice, machinery, cotton yarn, plastic material, salt, sugar, kerosine oil, spices etc.

The number of establishments and employment there in the "Trade and Commerce" sector as per 1980 Economic Census is given below :

TABLE

| Sector | | No. of establishments | | | Employment | | | |
|--------|--|-----------------------|--------------|----------------|------------|--------|---------|--|
| | | | Urban | Total | Runal | Urbar | n Total | |
| 1 | | 2"3 2" | 413° 513° | 4 | 5 | 6 | 7 | |
| 1, | Wholesale - Retail Trade | 622ø | 23679 | 2 98 99 | 8871 | 42766 | 51637 | |
| 2, | Restaurant | 1024 | 2491 | 3515 | 2099 | 8470 | 10569 | |
| ***** | Total | 7244 | 26170 | 33414 | 10970 | 51236 | 62206 | |
| | All types of establishments in district. | 27897 | 64716 | 92613 | 874øø | 231227 | 318627 | |

It is revealed from above table that about 36.07 percent establishments and 19.52 percent employment out of the total establishments and employment in the district are in the "Trade and Commerce" sector.

2.40 BANKING FACILITIES :

Banking in the district is dominated by Co-operative sector which has well spread network of branches in the district, while nationalised and commercial banks are located mostly in urban and semi-urban areas. The following table indicates number of banking centres and banking offices in Nagpur district in 1988.

TABLE

| Sr. No. | Tahsil | Schedule Banks | Co-opera- tive banks | Villages served | Population served |
|------------|---------------|-------------------|-------------------------|--------------------|-------------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 1. | Nagpur | 15 | 2 | Nagpur city | 1219461 |
| 2, | Nagpur(Rural) | 3 | 1. | 1Ø | 81477 |
| ₹, | Kamptee | 5 | 2 | 1.3 | 167737 |
| 4. | Hingana | 5 | <u> </u> | 14 | 83893 |
| 5, | Katol | 4 | 2 | 15 | 120772 |
| გ, | Narkhed | 4 | 2 | 19 | 113621 |
| 7, | Saoner ` | 5 | 2 | 18 | 142157 |
| 8, | Kalmeshwar | <u></u> | /***; A | 1 1 | 81734 |
| 9. | Ramtek | 4 | 2 | 13 | 110272 |
| 10. | Parshioni | 4 | 1 | 8 | 100349 |
| 11. | Mouda | 5 | 1 | 18 | 84726 |
| 12. | Umred | 6 | ~? { | 17 | 114344 |
| 13, | Bhiwapur | 3 | 1 | 9 | 68786 |
| 14. | Kuhi | 4 | 1 | 1Ø | 99479 |

⁽ Source :- Bank of India, Lead Bank Report, 1988.)

2.41 PROGRESS OF EDUCATION :

The Maharashtra Government has recognised the important role that education has to play and it is trying to encompass all educational programmes right from Primary to University levels. The progress of the education in Nagpur district is described below.

As per 1981 census literacy rate of Nagpur district for males was 63,7 and for females 44.6. Compared with Maharashtra literacy rate for males and females is slightly higher in Nagpur district. In Maharashtra, this rate was 58.8 and 34.8 for males

and females respectively. Similarly literacy rate of Scheduled Caste for males is 56.9 and for females it was 34.9. This rate was also more than average rate of Maharashtra. For Scheduled Tribes for males this was 53.9 and for females it was 30.6.

Out of 1658 inhabited villages in the district, 1243 have been provided with one or the other educational amenity. In other words, 7 out of 10 villages have the schooling facility. Ramtek has the largest network of educational institutations compared with other tahsils. Nagpur, the district head-quarter ranks third for this amenity. 351 villages for the schooling amenity available within the distance of less than 5 km.

54 villages have this amenity at a distance of 5 to 10 km, and 10 villages have at a distance more than 10 km. In the various towns of the districts on an average the population and the educational institution's ratios are for higher secondary 10,000 to 1.40; for 5.5.C. education 10,000 to 1.37; for middle school 10,000 to 1.45 and for primary school 10,000 to 3.67.

During the year 1987-88 there were 64 Pre-primary schools in Nagpur district. The total number of students in these Pre-primary schools was 5,244, out of these 2,590 were girls(i.e.55%).

2.42 PRIMARY EDUCATION ;

The tahsil-wise number of primary schools and enrolment for boys and girls during the year 1988-89 is shown in the following table -

NAGPUR DISTRICT

EDUCATIONAL INSTITUTIONS 88-89

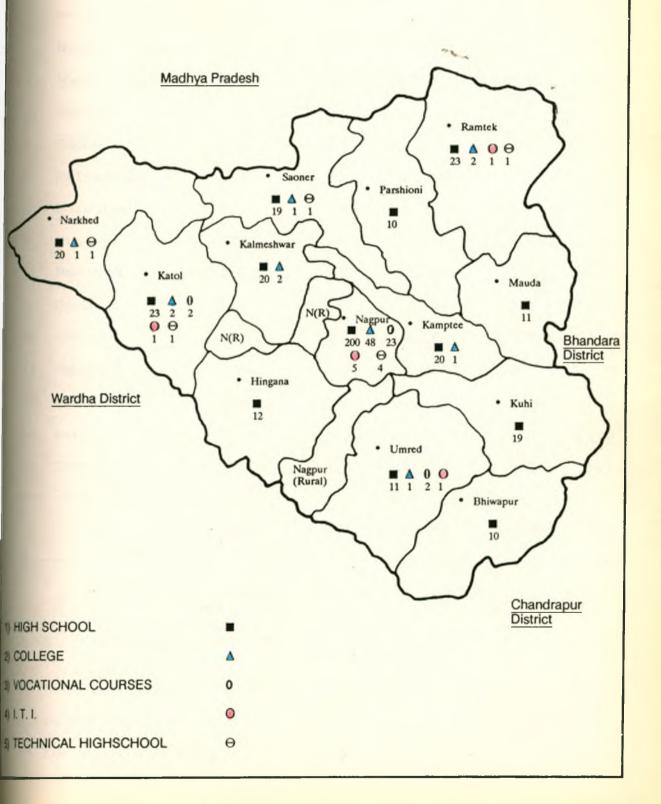


TABLE 2,32
Enrolment of Primary Education 1988-89

| | Sr. Tahsil No. , | | | | Enno | | |
|--------------------|---------------------|--|-----|-----|---------|--------|------------|
| | | | _ | | | Girls | covered |
| 1 , | Nagpur | (Urban) | 1 | 511 | 96,849 | 89,591 | 1 |
| 2, | Nagpur | (Runal) | 144 | 119 | 7,907 | 7,178 | 109 |
| J, | Ramtek | | 149 | 134 | 9,465 | 8,591 | 117 |
| 4, | Saoner | | 125 | 124 | 11,951 | 10,856 | 99 |
| 5. | Kalmesh | war | 91 | 8Ø | 6,392 | 5,858 | 7 3 |
| 6. | Bhiwapu | r | 112 | 100 | 6,502 | 5,851 | 92 |
| 7, | Hingana | | 123 | 99 | 7,159 | 6,339 | 93 |
| 8. | Narkhed | | 132 | 116 | 9,667 | 8,836 | 1ØØ |
| 9, | Mouda | | 121 | 121 | 7,702 | 7,365 | 114 |
| iø. | Kuhi | | 155 | 135 | 8,702 | 8,794 | 130 |
| 11. | Kamptee | | 74 | 122 | 12,325 | 12,002 | 71 |
| 12, | Parshio | rai. | 1Ø9 | 97 | 8,842 | 7,57Ø | 86 |
| 13. | Katol | | 169 | 148 | 10,940 | 8,755 | 129 |
| 14. | Umred | | 153 | | 11,072 | 9,863 | 102 |
| mes 22007 31946 54 | Total | there come makes delens your trace yours y | | | 215,475 | v | 1,316 |

⁽ Source :- Education office, Z. P. Nagpur)

2,43 SECONDARY EDUCATION:

The tahsil-wise number of secondary school and enrolment for boys and girls for the year 1988-89 is shown in the following table:-

TABLE 2.33 Enrolment in Secondary Education - 1988-89

| Sr. | Tahsil | Popu- | | · | Er | Enrolment | | |
|----------------|-------------------|----------------------|---------------|---------------------------|--------|-----------|---------|--|
| No. | | lation (im 'ØØØ') | villa- ges | Secon- dary schools | Boys | Girls | Total | |
| 1. | 2. | 3, | 4, | 55 . | 6. | 7. | 8, | |
| 1. | Nagpur (Urban) | 1,219 | 1 | 185 | 55,779 | 53,365 | 109,144 | |
| gray Kanang | Nagpur (Runal) | 83 | 144 | 15 | 1,645 | 1,317 | 2,962 | |
| 3, | Kamptee | 168 | 74 | 2ø | 6,773 | 6,652 | 13,425 | |
| 4, | Hingana | 84 | 123 | 12 | 2,836 | 2,317 | 5,153 | |
| 5, | Ramtek | 111 | 149 | 23 | 4,129 | 2,790 | 6,919 | |
| 6. | Parshioni | 1ØØ | 109 | 1Ø | 2,409 | 1,737 | 4,146 | |
| 7, | Mouda | - 82 | 121 | 11 | 2,591 | 2,076 | 4,667 | |
| 8. | Saoner | 141 | 125 | 19 | 3,494 | 2,520 | 6,014 | |
| 9. | Katol | 122 | 169 | 23 | 2,954 | 2,624 | 5,578 | |
| 1Ø, | Narkhed | 115 | 132 | 20 | 3,286 | 3,078 | 6,464 | |
| 11. | Umred | 115 | 153 | 1 1 | 2,107 | 3,749 | 5,856 | |
| 12. | Bhivapur | 69 | 112 | 10 | 1,429 | 1,906 | 3,335 | |
| 13. | Kuhi | 100 | 155 | 19 | 2,068 | 2,383 | 4,451 | |
| 14, | Kalmeshwar | 8ø | 91 | 20 | 3,228 | 3,474 | 6,702 | |
| | Total | 2,589 | 1,658 | 398 | 94,728 | 89,988 | 184,716 | |

⁽ Source :- Education office, Z. P. Nagpur)

In addition to above, there are 5 Govt. Technical High Schools in the district viz. Govt. Tech. High School, Nagpur, Government Technical High School Centres at Bhansali Takali, Katol, Narkhed and Deolapar.

One private (aided) Technical High School - Anjuman High School, Nagpur and one private (non-aided) Technical High School Maharashtra Adhyayan Mandir, Nagpur are the other technical high schools in the district:

2.44 HIGHER SECONDARY SCHOOLS:

The tabsil-wise number of Higher Secondary Schools and enrolment under Arts, Science, Commerce and Vocational faculties for the year 1988-89 is shown in the following table:

TABLE 2.34

Enrolment in Higher Secondary Schools in 1988-89

| Sr. | Tahsil | | ENROLMENT | | | | | |
|--------------------|-------------------|---|-----------|--------|----------|--------|--|--|
| No. | | schools | | | Commerce | | | |
| 1. | 200 g | 100 - | 4 . | 5. | 6, | 7 . | | |
| 1, | Nagpur (urban) | 6 8 | 1,273 | 3,911 | 3,688 | 935 | | |
| 2, | Nagpur (Rural) | 3 | 144 | 411 | 190 | | | |
| 3. | Ramtek | 1 | | 139 | k base | ***** | | |
| 4, | Narkhed | 7 | 87Ø | 140 | 539 | ***** | | |
| 5, | Katol | 3 | 214 | 219 | 181 | 60 | | |
| ٤, | Hingana | 1 | **** | 10744 | 135 | eathe | | |
| 7, | Mouda | 2 | 92 | 1Ø8 | 151 | ***** | | |
| 3, | Parshioni | 3 | 181 | 78 | 67 | **** | | |
| ₹, | Bhivapur | 1 | 174 | 47 444 | ***** | ****** | | |
| lø, | Kuhi | 3 | 166 | 119 | 271 | ***** | | |
| 11. | Umred | 5 | 49Ø | 457 | 456 | 75 | | |
| 12, | kamptee | 3 | 39 | 224 | 253 | wasse | | |
| 13. | Kalmeshwar | 3 | 383 | 194 | 198 | **** | | |
| 14, | Saoner | 5 | 443 | 4Ø1 | 1Ø6 | ***** | | |
| *** **** **** **** | Total | 1Ø8 | 4,469 | 5,99Ø | 6,235 | 1,070 | | |

(Source :- Education Office, Z.P. Nagpur)

The above information is pertaining only for Higher Secondary Schools. As regards Junior Colleges the information for the year 1988-89 is given in the following table:-

TABLE 2.35
------Enrolment in Junior Colleges - 1988-89

| Sr. | Tahsil | No, of | ENROLMENT | | | | | |
|-----|-------------------|--------------------|-----------|-------|-------------|--------------|--|--|
| No. | | Junior Colleges | | | Commerce | Vocational | | |
| 1 . | 2. | 3, | 4. | 5, | 6. | 7. | | |
| 1. | Nagpur (Urban) | 26 | 5,243 | 5,076 | 10,191 | 5Ø5 | | |
| 2, | Katol | 1. | 393 | 336 | 37 3 | 75 | | |
| ჳ, | Saoner | 1 | 330 | Name | 292 | *** | | |
| 4. | Narkhed | 2 | 39ø | ALI- | 269 | | | |
| 5. | Kamptee | 1 | 5ø2 | 417 | 629 | | | |
| 6. | Ramtek | 1. | 240 | NATE | 160 | | | |
| 7. | Umred | 1 | 148 | **** | 141 | ma | | |
| 8. | Kalmeshwar | 1 | 89 | **** | 91 | | | |
| 9. | Parshioni | i | 77 | •••• | 78 | | | |
| | Total | 35 | 7,412 | 5,829 | 3,224 | 5 8 Ø | | |

(Source :- Education Office, Z.P. Nagpur)

It is revealed from the above that there was no facility of higher secondary education in science stream available in Nagpur (Rural), Hingana and Bhivapur tahsils in the district. Similarly, the facility of vocational education was not available to students in Nagpur (Rural), Ramtek, Narkhed, Hingana, Mouda, Parshioni, Bhivapur, Kuhi, Kamptee, Kalmeshwar and Saoner.

It is also seen from above two tables that total enrolment in Juniour Colleges is 33,153 in the district and only 1,650 students are provided facility of vocational education. Hence enrolment in vocational courses is about 5 percent of total enrolment in Junior Colleges.

2,45 COLLEGES ;

As per Annual Report 1986-87 of Nagpur University, there were total 58 colleges in Nagpur district, Out of these, there were 48 colleges in Nagpur tahsil only.

Faculty-wise colleges in Nagpur district are as follows -

| ***** | Faculty | | o, of colleges |
|-------|---|--------------|----------------|
| 1.) | Medica1 | | Z |
| 2) | Dental Science | | 1. |
| 3) | Medicine (Pharmacy) | | 1. |
| 4) | Ayurved | | 2 |
| 5) | Homeopathy | | 1 |
| 6) | Engineering | | 5 |
| 7) | Fire Brigade Engg. | | 1 |
| 8) | Chitrakala (Fine Arts) | | 1. |
| 9) | Education | | 2 |
| 10) | Physical Education | | 2 |
| 11) | Social Work | | 3 |
| 12) | Other (Arts/Social Science/ Commerce/Science/ Home Science/Law,) | | 37 |
| | | Total | 58 |
| | Number of colleges have following faculties. | - | |
| | a) Arts & Soci a l Science. | 26 | |
| | b) Commerce | 29 | |
| | c) Science | 14 | |
| | d) Home Science | 2 | |
| | | | |

Faculty-wise enrolment in first year of these colleges was as under -

| 1) | Commerce | 5,207 |
|----|----------|-------|
| 2) | Science | 2,150 |

3) Arts 3,126

Total 10,483

Tahsil wise position of colleges in Nagpur district during 1986-87 is given below:

| Sr, No, | Name of college | Tahsil | Faculty | Year of starting |
|------------|---|-----------|--|------------------------|
| 1, | 2. | | 4 . | 5, |
| 1. | Hislop College, Nagpur | Nagpur | Arts/Sci./Com. | 1884 |
| 2, | Instt. of Arts & Soc.Sci.,Ngp | ** | Arts/Soc. Sći. | 1885 |
| 3, | Instt. of Science, Nagpur | f+ | Science | 1909 |
| 4. | Shri. Binzani City College,Ngp | J., tt | Arts/Com./ Social S ci. | 1930 |
| 5, | L.A.D. College for Women of Arts, Com., & Sci. and Smt Ratnadevi Purchit College of Home Science and Home Science Technology, Nagpur. | ** | Arts/Sci./Com/ Social Sci./ Home Sci./Home Science (Tech. | |
| 6, | Dhanwate National College,Ngp | . ** | Arts/Com./ Social Sci. | 1935 |
| 7, | G.S.College of Com.& Eco.,Ngp | , ++ | Commerce | 1945 |
| 8. | Govt. Medical College, Nagpur | ** | Medical | 1947 |
| 9. | St.Francis De-Sales College,No | gp." | Arts/Science/ Social Science | 1956 |
| 10, | S.M.Mohta Sci.College, Nagpur | ** | Science | 1958 |
| 11, | Visvesvaraya Regional College- of Engg., Nagpur. | †† | Engineering | 1958 |
| 12, | C.P.&Berar College, Nagpur | ** | Arts/Com./ Social Science | 196Ø |
| 13, | Dharampeth Arts,Commerce and M.P.Deo Memorial Sci.College,N | n Igp. | Arts/Com/Sci,/ Soc,Sci,/Home- Science. | 196Ø |

| | 3, | 4 , | 5, |
|--|------------|----------------------------------|---------------|
| 4. Matru Sewa Sangh Instt. of Social Work, Nagpur. | ** | Social Work | 1961 |
| 5. Smt. Binzani College, Nagpur | ** | Arts/Soc.Sci. | 1961 |
| 6. Dr.Ambedkar College, Nagpur | t÷ | Arts/Com/Sci./ Law/Social Sci | |
| 7. Govt. Ayurvedic College, Nagpur | † † | Ayurved | 1 9 65 |
| 8. Tirpude College of Social Work, Nagpur | tř | Social Work | 1966 |
| 9. Shri. Shivaji Sci. College, Ngp. | ş †† | Science | 1967 |
| tØ. Indira Gandhi Medical College, Nagpur. | ŕŧ | Medical | 1967 |
| 21. Govt. Dental College, Nagpur | †Ŷ | Dental Sci. | 1968 |
| 2. National Instt. of Social- Work, Nagpur. | ff | Social Work | 1968 |
| 3. P.W.S. College of Arts & Com. Nagpur. | †† | Arts/Com./ Social Science | 1968 |
| 24. Govt.Chitrakala Mahavidyalaya, Nagpur. | ** | Chitrakala (Fine Arts) | 1968 |
| 5. P.M.Vasant Com., J.M.Thakar - Arts & J.J.Patel Science College, Nagpur. | tt | Arts/Com./Sci/ Social Science | 1969 |
| 26. Santaji College, Nagpur. | †† | Arts/Com/Sci. Social Science | 1971 |
| 7. Sindhu College, Nagpur. | tt | Com./Science | 1971 |
| 8. Mahila Mahavidyalaya, Nagpur | t† | Arts/Soc. Sci. | 1971 |
| 9. Nagpur Sharirik Shikshan - Mahavidyalaya, Nagpur. | ** | Physical Education | 1971 |
| Ø. Shri Ayurved Mahavidyalaya,Ngp. | ŶŤ | Ayurved | 1972 |
| 1. National Fire Service College, Nagpur | †f | Fire Brigade Engineering | 1978 |
| 2. Dayanand Arya Kanya College, Nagpur. | +* | Arts/Soc.Sci. | 1983 |
| 3. Kamala Nehru College, Nagpur. | ŶŤ | Arts/Com./ Social Science | 1983 |
| 4. Ishwar Deshmukh Sharirik - Shikshan Mahavidyalaya, Nagpur | î+ | Physical Education | 196Ø |
| 5. Womenn's College of Commerce,Ngp | 1 1 1 | Commerce | 1984 |

Contd...

| f" (") 1 | L-1,1 | | | |
|----------|---|-----------|-----------------------------------|---------------|
| 1 , | 2. | 3. | 4, | 5, |
| 36, | Saibaba Arts & Commerce Colle Nagpur. | ge," | Arts/Com./ Social Science | 1984 |
| 37. | Dr. Punjabrao Deshmukh Commer Night College, Nagpur. | ce # | Commerce | 1984 |
| 38, | Arts & Commerce College, Ganeshpeth, Nagpur. | ŧ÷ | Arts/Commerce/ Social Science | 1984 |
| 39. | Annasaheb Gundewar Commerce - College Katol Road, Nagpur. | t÷ | Commerce | 1984 |
| 4Ø, | Ramchandrarao Mokhare Commerc College, Nagpur | e ** | Commerce | 1984 |
| 41, | Post Graduate Instt. of Devel mental Studies, Nagpur | Cipi tt | Commerce | 1984 |
| 42, | Indian Instt. of Management - Development, Nagpur | ++ | Commerce | 1984 |
| 43. | Nagar Yuvak Society's Yeshwan Chavan Engg. College, Nagpur | trao " | Engineering | 1984 |
| 44, | Ramdeobaba Kamla Nehru Engg. College, Nagpur | ŧŧ | Engineering | 1984 |
| 45, | Karmaveer Dadasaheb Kannamwar Engg. College, Nagpur. | ····· ••• | Engineering | 1984 |
| 46. | Nagpur College of Pharmacy, N | 9P , " | Medicine | 1985 |
| 47, | Nagpur College of Homoeopathy Biochemistry, Nagpur. | & # | Homoeopathy | 1985 |
| 48. | Arun Joshi Education College, | Ngp." | Education | 1986 |
| 49. | Nabira Mahavidyalaya, Katol | Kato1 | Arts/Com/Sci./ Social Science | 1961 |
| 5Ø. | Shikshan Mahavidyalaya, Katol | tt | Education | 1984 |
| 51, | Seth Kesarimal Porwal Arts, & Commerce College, Kamptee | Kamptee | Arts/Com/Sci./ Social Science | 1965 |
| 52. | Arts & Commerce College | Saoner | Arts/Com/Soc Science | 1965 |
| 53, | Nutan Adarsh Arts, Commerce & Smt. Maniben Harilal - Begad Science College,Umred, | Umred | Arts/Com./Sci./ Social Science | 1968 |
| 54. | Shri Narendra Tidke Arts- & Commerce College, Ramtek | Ramtek | Arts/Commerce/ Social Science | 1 9 7Ø |
| 55, | Kavi Kulguru Instt. of- Technology & Science, Ramtek | 11 | Engineering | 1985 |

Contd.,,

| ***** ***** ***** ***** ***** ***** **** | | | | |
|--|----|--------|----|----|
| 1 . | 2. | sult 4 | 4. | 5. |

- 56. Shri, Pandharinath Arts- Narkhed Arts/Commerce/ 1971 Commerce College, Narkhed. Social Science
- 57. Indira Gandhi Arts & Kalmeshwar Arts/Commerce/ 1984
 Com. College, Kalmeshwar. Social Science
- 58. Arvind Babu Deshmukh Arts- " Arts/Commerce/ 1986 Commerce College, Bharsingi, Social Science.

(Source :- Nagpur University Annual Report 1986-87)

2.46 IMPORTANT POINTS ON EDUCATION:

There are two private B,Ed, colleges, one at Nagpur and the other at Katol. Also there is one Govt. D.Ed. college and 8 private D.Ed. colleges in the district. There is Agricultural Research Institute, Agricultural School, Veterinary Research Institute, National Environmental Engineering & Research Institute, Central Fuel Research Institute, Fruit Preservation Training Centre of Government of India, Minerals and Metal Corporation, Public Health Institute, Medical Colleges, Dental College, Ayurved College, Homoeopathy College, Engineering Colleges, Polytechnics, Industrial Training Institutes, Technical Highschools and institutes running various certificate courses approved by the Department of Vocational Education & Training, Maharashtra State, Bombay.

In Nagpur district, the programme of Adult education is taken and there were 940 Adult education centres in the district during 1987-88,

The National Fire Service College was established by the Ministry of Home Affairs by the Government of India, with the aim of imparting most advanced training in the science of Fire Technology viz. Fire Engineering to the Fire Officers. The

degree of Fire Engineering is awarded by the Nagpur University which is recognised by U.P.S.C. for Indian Engineering Service examination. The National Fire Service College is the only institute in Maharashtra State. The training facilities available at the college are a five storeyed steel framed drill tower, cemented drill ground, smoke chamber, automatic sprinkler installations, fully equipped physical and chemical laboratory, cemented fire pit, workshop, control room, cut sections of I.C. engine and pumps etc.

2.47 OUT TURN OF Xth AND XIIth CLASSES:

The information regarding the out-turn of Xth and XIIth classes is given below:- '

| Year | Number | Appeared | | Number Passed | | Percentage of | |
|-------|---------|---------------------|----------------|-----------------|-------|---------------|--|
| | X | XII | X | XII | X | XII | |
| 1. | | 3. | 4. | 5, | 6, | 7. | |
| 1984 | 167,022 | 75,819 | 75,336 | 25,901 | 44.84 | 34.23 | |
| 1.985 | 166,758 | 83,496 | 69,378 | 2 7,8 92 | 40.00 | 33.41 | |
| 1986 | 191,136 | 102,946 | 58,129 | 35,726 | 30.40 | 34.7Ø | |
| 1987 | 241,965 | 111,872 | 89,617 | 42,531 | 37,46 | 38,40 | |
| 1988 | 270,831 | 98,280 ⁻ | 87, 910 | 36 ,248 | 32.45 | 36.88 | |

(Source :- S.S.C. Board, Nagpur)

2,48 TRAVEL AND TOURISM :

In addition to Nagpur city itself which is famous for oranges, Sitabuldi fort, Ambazari lake etc. other places of tourists interest include Adasa village in Saoner tabsil for Ganpati temple; Khapa for rich natural surroundings and temples; Mansar village located north of Kamptee for pilgrim place and beautiful orange and deep orange spessartic crystals found in the pit known as the "Kamptee Lady"; Paradsinga village in Katol tabsil for oranges

and other fruit gardens and Ramtek for its location round the foot of a detached hill with its fractured stones appearing almost blood red; for its betel leaf and for number of temples on the hill.

The hill is attached with the belief that legendary Ram took up his residence here and hence invested with special sanctity.

Some other places of travel and tourism in Nagpur district, its location from Nagpur and importance of the place is given in the following table -

| Sr. No. | Place | Location from Nagpur | Importance of the Place |
|------------|----------------------------------|-------------------------|---|
| 1 | 2 | 3 | 4 |
| 4 .i. 4 | Nagpur City | | Sitabuldi fort,Ambazari lake,Maharajbagh,museum |
| 2. | Adasa Village (Saoner Tahsil) | 27 Km, | Ganpati Mandir (Pilgrim Place) |
| 3. | Dhapewada (Kalmeshwar Tahsil) | 20 Km. | Vithoba Temple (Pilgrim Place) |
| 4. | Ambhora | 65 Km. | Vainganga,Chaitanyashwar Mandir,Harihar Swami Mandir |
| 5. | Ramtek | 52 Km. | Ram Mandir,Kalidas Smarak,Ras Sagar, Ambala Lake etc. |
| 6. | Khindsi | 6 Km. from Ramtek. | Khindsi lake (Boating purpose) |
| 7. | Pench Project | 65 Km. | Dam |
| 8, | Totla Dob | 85 Km, | Hydro-Electric Project |
| 9. | Koradi | 12 Km. | Power Station |
| 10. | Khaparkheda | 22 Km. | Power Station |

CHAPTER : III

INDUSTRIAL GROWTH AND EMPLOYMENT A RETROSPECT

The policy of the Government of Maharashtra is aimed at achieving balanced industrial growth among the district regions.

The efforts of the Government are concentrated to achieve growth and disperal of industries in the developing areas of the districts.

With a view to accelerate the growth of industries, the Government has established various Boards such as Maharashtra State Financial Corporation Maharashtra Industrial Development Corporation, District - Industries Centres, etc.

The resources available can be divided broadly in following categories -

- 1) Agricultural resources,
- 2) Mineral resources,
- 3) Forest resources,
- 4) Live Stock resources.
- 5) Fiesheries resources,
- 6) Horticultural resources,
- 7) Sericultural resources,
- 8) Human resources.

The sustematic and planned utilisation of these resources will speed up the industrialisation and will generate more employment, self-employment in the area.

'The development of industries in the district plays an important role in the economic development of the district.

3.1 DIRECTORATE OF INDUSTRIES :

The District Industries Centres was established in Nagpur on 1st May, 1978. The District Industries Centre works as a district organisation of Directorate of Industries and carry out all functions at district levle. Due to formation of District Industries Centre, large and small industries have been established

in the district. The Government of India has given more importance to small scale and cottage industries mainly for creation of employment potential, minimum capital requirement and balanced development of the district. Hence the District Industries Centre is regarded as focal point of industrial development activity. As per Government's directives the District Industries Centre prepares Action Plan every year and five year plan of the district. The objective of preparation of Annual Plan is to spread small scale and cottage industries to rural areas having result oriented and time-bound programmes/targets. The emphasis has been given on maximum utilisation of available resoruces to provide employment/ self-employment to the rural youths.

The District Industries Centre, Nagpur has prepared Action Plan 1988-90 and Annual Action Plan 1988-89 for the district. The Action Plan is summerised below in the table :-

Table - 3.1
-----Proposed Work Programme of D.I.C. - 1988-90

| Sr. No. | Type of Industry | Year | | of un: be set | | Tahsil | Employment likely to be generated |
|------------|--------------------------|---------------|-------|------------------|----|--|---|
| | | | san | - SSI (No.) | | • | generated |
| | | | · | • | • | | 4 |
| 1. | | 3, | 4. | 5. | 6. | 7. | . 8. |
| Ø1 | Agro-based Industries | 88 -89 | ***** | 82 | 82 | Nagpur, Nark Ramtek, Hind | |
| | | 89-9Ø | - | 81 | 81 | Katol, Kampt Kalmeshwar, Umred, Moud Saoner, Par Bhivapur. | ce, 433 Kuhi, da, |
| Ø2 | Forest- | 88-89 | _ | 68 | 68 | - do - | 439 |
| | based Industries | 8 9-9ø | **** | 80 | 8Ø | | 535 |
| ØЗ | Food based | 88-89 | *** | 1 1 | 11 | Katol, Ramt | ek, 63 |
| | Industries | 89-90 | **** | 6 | 6 | Kamptee, Na Kalmeshwar, | |

| \Box | ٠ | ۳. | + | Н | | |
|--------|------|-----|---|----|---|---|
| 1 | ١_,١ | 1 1 | t | 11 | 4 | • |

| | 2. | 3. | 4. | 5. | 6. | 7. | 8. |
|----|----------------------|-------------------|-------------|-----|-----|---|---------------|
| ð4 | Textile based | 88-89 | Benne | 5 | 5 | Nagpur, Kamptee, Umred, Katol, | 67 |
| | Industries | 89-90 | **** | 6 | 6 | Saoner, Ramték. | 37 |
| 5 | Chemical based | 88-89 | minyen | 38 | 38 | All tahsiIs | 294 |
| | Industries. | 89-9Ø | | 21 | 21 | | 2Ø2 |
| 6 | Engineering and | 88-6 7 | | 41 | 41 | Nagpur, Kamptee, Katol,Kalmeshwar, | 245 |
| | Allied, | 89-9Ø | _ | 22 | 22 | Saoner, Hingana, Mouda, Ramtek, Umred, Narkhed, Parshioni, | 113 |
| 7 | Building material | 88-89 | | 2Ø | 2Ø | Umred, Bhivapur, Kalmeshwar, Katol | 4Ø3 |
| | based Industries. | 89-90 | **** | 24 | 24 | Kamptee, Kúhi, Saoner, Prashioni Ramtek, Hingana. | 356 |
| 8 | Animal Husbandary | 88-89 | 6 | 8 | 14 | Nagpur, Kamptee, Hingana. | 164 |
| | based Industries | 89-90 | 3 | 4 | 7 | | 1Ø8 |
| 19 | Ancillary | 88-89 | | 1Ø | 1Ø | Nagpur, Kalmeshwar | 173 |
| | Units | 89-9Ø | - | 9 | 9 | | 53 |
| Ø | Other | 88-89 | **** | 17 | 17 | Nagpur | 179 |
| | Industries | 89-90 | pariga | 6 | 6 | | 76 |
| | TOTAL , | 88-89 | 6 | 3ØØ | 3Ø6 | | 2,4 66 |
| | * | 89-90 | 3 | 259 | 262 | 1 | .,961 |

(Source :- Action Plan of D.I.C. Nagpur, 1988-90)

Package Scheme :-

The order to achieve disperal of industries outside Bombay-Pune belt and to attract them to the under-developed and developing areas of the State, the State Government has been giving a package of incentives to the new units/expansion set up in developing regions since 1964. The Government revised the scheme time to time. Recently under Industries, Energy and Labour Department Resolution No. IDL-1088/(6603)/IND-8, dated 30-9-88, the Government brought into force a new scheme i.e. Package Scheme of Incentives -1988

from 1-10-88. According to the scheme, the areas of Maharashtra State has been classified under the groups as indicated below:-

Group "A" - comprising the developed areas of the State where no incentives available.

Group "B" - comprising the areas where some development has already taken place.

Group "C" - comprising the areas which are less developed those shown under Group "B".

Group "D" - comprising the least developed areas of State not covered under Group "A", "B", or "C".

No Industry — as notified by the Government of India. district.

For the detailed classification of the areas, tahsiIs are taken as unit.

The classification of tabsils according to Government Resolution IELD, dated 30/9/88 and as ammeded under IELD Resolution dated 31/1/1989, is given below:

| District | Group "A" | Group "B" | Group "C" | Group "D" |
|----------|--|--|--|---------------------|
| Nagpur | , was take take take tuga tuga gala mag alab rawa hada saga saga saga sa | the dates relate these bases from patter group through gard states gaths all | ma dalle sage time pari vari rele delle hari side alle alle delle side side side side side side side sid | Entire district. |

The industries set up in this area will be eligible to get incentives embodied in Government Resolution dated 30/9/1988.

The Government of Maharashtra proposed to develop Kuhi, Umred, Rela, Butibori, Kondhali, Katol, Mowad, Narkhed, Khapa, Mohapa, Hingana, Ramtek, and Parshioni as industrial growth centres.

In addition to above mentioned units are registered and likely to be started soon -

| Sr. No. | Type of Industry | Location | Item of manufa- cture. | Investment proposed (Rs. in-crores) | Expected Employment Potential (No.) |
|------------|--|-----------------------|---|-------------------------------------|-------------------------------------|
| 1. | 2. | 3, | 4 . | 5. | 6. |
| 1. | M/s The Vidarbha S.S.K. Ltd. | Mohagaon | Sugar | 1950,00 | 993 |
| 2. | M/s Sold Star Tyres Ltd. | Ramtek | Auto tyres Auto tubes Flaps. | 17825,00 | 2425 |
| ₃. | Ram Ganesh Gadkari S.S.K. Ltd. | Saoner | Sugar | 2780,00 | 993 |
| 4, | Nagpur Pulvarizers & Minerals Pvt. Ltd. | | Advanced Technical Ceramics vi: high alimin powders com unds, silice Nitrode Powe | ium po- on | |
| 5. | Shri Basantlal Shaw. | Butibori | Cement bond Particle bo | | ••• |
| 6. | M/s Nagpur Alloy Casting Ltd. | Butibori | M.S. Steel casting | 1300,00 | 1200 |
| 7. | M/s Nagpur Alloy Casting Ltd. | Butibori, Hingana. | Sponge Iron only | 1830,00 | 25Ø |
| 8. | M/s Nagpur Alloy Casting Ltd. | | Alloy & Cari Steel forgi | | 45Ø |
| 9. | M/s Vasantrao Dada Sahakari Santra Prakriya Karkhana Ltd. | Narkhed | Contrate of citrons and tropica fruits. | | 81 |
| 10. | Jaywant Chemical Ltd. | Nagpur | Iron Casting viz. Casting. | | 595 |

(Source :- Directorate of Industries Office, Nagpur)

3.2 MAHARASHTRA INDUSTRIAL DEVELOPMENT CORPORATION:

Maharashtra Industrial Development Corporation popularly known as M.I.D.C. is a State Government undertaking constituted under a special statute. It was established in 1962 with a view to achieve decentralisation and to accelerate industrial development of district. To achieve balanced industrial development, emphasis has been given to provide suitable locations in all district places and taluka places, basic infrastructure like plots, roads, water supply,drainage and common facility centres for enterpreneurs for setting up the industries in those locations.

The Maharashtra Industrial Development Corporation is StateLevel corporation having its regional office at Nagpur. The
Corporation is mainly entrusted with the job of providing infrastructural environment for the small-scale as well as medium
scale and large scale industries in the district. The corporation
has developed industrial area on Hingma Road, about 10 Kms. away
from Nagpur and at Kalmeshwar about 16 Kms. from Nagpur.

TABLE 3.2

M.I.D.C. areas in Nagpur district on March.89

| Sr. No. | Details | M.I.D.C. N | agpur District |
|------------|--------------------|--------------|------------------|
| 1. | 2. | Nagpur 3. | Kalmeshwar 4. |
| 1. | Area (in hect.) | 749.28 | 116.76 |
| 2. | Plots laid down | 11Ø8 | 135 |
| 3. | Plots alloted | 1Ø14 | 133 |
| 4. | Sheds construted | 1Ø8 | 1Ø |
| 5. | Units functioning | 458 | 45 |
| ۵. | Employment | 13000 | 1100 |
| 7. | Industrial settled | 561 | 57 |
| | | | |

Programme of M.I.D.C. in future-

It is also proposed to set up M.I.D.C. area at Butibori, Borkhedi, Kamptee, Umred, Narkhed and Ramtek.

3.3 CO-OPERATIVE INDUSTRIAL ESTATE:

The details of co-operative industrial estates upto March.

1988 is given below.

| Sr. No. | Details | | | Nagpur | Katol |
|------------|---------------------------|-----|-----|------------|---|
| 1. | erry Aire A | | | 3. | 4. |
| 1. | Area (in hect) | A A | A A | 9.0 | 3.10 |
| 2. | Plots laid down | 4 4 | | 95 | proce addre doubl |
| 3. 1 | Plots alloted | | | 2Ø | *************************************** |
| 4. | Sheds constructed | | | 5 2 | 19 |
| 5. | Units functioni ng | 4 4 | | 37 | 14 |
| 6. | Employment | | * * | 300 | could addres about |

(Source: - D.I.C. action plan 1988-90)

3.4 MINI INDUSTRIAL ESTATES:

There is no mini industrial estate in the district at present but it may be developed in Ramtek. Parshioni and Umred in future.

3.5 REGIONAL DEVELOPMENT CORPORATION :

Vidarbh Development Corporation Ltd. has been incorporated on 3 December, 1970 as a Government Organisation under administrative control, of Industries and Labour Department for promoting industrial growth in Vidarbh region comprising of Nagpur, Chandrapur, Wardha, Bhandra, Gadchiroli, Amravati, Yeotmal, Buldhana and Akola districts. The role of corporation is to act as a catelytic agent for development of area.

The corporation has placed great emphasis on industrialisation and building up of entrepreneurship in Vidarbh. In order to accelarate the pace of industrialisation, it has performed the dual role of promotional agency as well as entrepreneur, thereby directly participating in the process of industrialisation.

ACTIVITIES OF VIDARBH DEVELOPMENT CORPORATION:

(A) Employment Promotion Programme for the educated unemployed.

Under this programme, Corporation on behalf of the Government of Maharashtra offers seed money assistance to the extent of 10-22.5% of project cost, to eligible entrepreneur to start a small scale industry or a service industry. Enterpreneurs who have passed at least S.S.C. or I.T.I. and are in the age group of 18 to 40 years are eligible for this assistance. The assistance is by way of a long term loan bearing nominal interest rate of 4% payable after a long gestation. The scheme from 1-11-79 has been liberalised in respect to Artisans, village or cottage industry, wherein no margin is insisted on by any financing institution provided the total cost of the project is less than Rs. 1.00 lakh. Government also provides interest subsidy at the rate of 1% to 1.5% on the total loan advanced by the financing institution.

TABLE 3.4

Statement showing the seed money assistance disbursed by
the Development Corporation of Vidarbha Ltd. for Nagour district.

| Year | No. of units | Amount. (Rs. in Lakhs) |
|---------|--------------|---------------------------|
| 1972-73 | 28 | 1.19 |
| 1973-74 | 69 | 1.77 |
| 1974-75 | 184 | 6.69 |
| 1975-76 | 3 8 9 | 14.42 |
| 1976-77 | 422 | 15.97 |
| 1977-78 | 487 | 19.73 |

Contd...

| | es servi sadio alles elles cents come salles parte comp alles quenç bisso, pada anha que que sono sono servi com es sono servi | |
|------------------|--|--------|
| 1. | 2. | 3. |
| 1978-79 | 511 | 28.85 |
| 1979- 8 Ø | 337 | 26.23 |
| 1980-81 | 435 | 40.62 |
| 1981-82 | 321 | 44.Ø2 |
| 982-83 | 351 | 42.82 |
| 1983-84 | 352 | 46.00 |
| 1984-85 | 3 4 Ø | 31.40 |
| 1985-86 | 434 | 42.00 |
| 986-87 | 467 | 50.00 |
| 987-88 | 389 | 49.20 |
| 988-89 | 1105 | 104.76 |
| | | |

(Source :- Development Corporation of Vidarbha Limited)

(B) SUBSIDY AND STIPENDARY SCHEME:

1) Interest subsidy to Engineering Enterprises :-

To encourage technocrats for self-employment an amount of Rs. Ø.31 lakh interest subsidy to 1 Engineer Entrepreneurs has been disbursed during the year 1988-89 bringing the total disbursement of Rs. 7.98 lakhs to 34 candidates since inception of the scheme.

(2) Stipendary Scheme :-

For incidential survival of small Entrepreneur in the gestation period, corporation disburses stipend to the proprietors of Small Scale Units, where the cost of the project is less than Rs. 1.00 lakhs at the rate of Rs. 100/- per month for initial period of 6 months. Under this scheme an amount of Rs. 0.10 lakh has been disbursed to 18 proprietors in the year 1988-89 bringing the total disbursement to Rs. 1.22 lakhs to

214 proprietors of the small scale units since inception.

(3) Special Financial Assistance to the Artisans from Scheduled Castes and Neo-Bhudhists under Special Component Programme for urban bank areas.

Corporation has been assigned with the task of Seed Money
Assistance to Scheduled Castes and Neo-Buddhists for income gene-rating self-employment schemes for Artisance engaged in the manu-facture of Bamboo baskets, mats, sisal ropes and other economic
and productive activities. The activity was serving the village,
cottage and tiny agricultural and allied sector. The incumbent
being a person living below poverty line and belonging to Scheduled
Castes and Neo-Buddhists is entitled for subsidy of 50% of the cost
of scheme or Rs. 2500/- whichever is lower. Coroproation has disbursed subsidy an amount of Rs.10.68 lakhs to 5.3 entrepreneurs as
subsidy till 1986. The scheme there after being implemented by Mahatm
Phule Backward Class Development Corporation.

- (C) COMMERCIAL PROJECT OF THE CORPORATION THROUGH ITS OWN
 UNITS FOR NAGPUR DISTRICT:
 - (1) SHIVRAJ FINE ART LITHO WORKS. NAGPUR:

M/s Shivraj Fine Art Litho Works, owns a factory for Lithography and Printing and provides employment to about 450 persons. The Unit is in operation and it has achieved a turnover of Rs.559 lakhs from the date of takeover under I.D.R. Act in the year 1980-81 till March 1988. In the year 1987-88 it has achieved turnover of Rs. 106 lakhs.

(2) GONDWANA PAINTS AND MINERALS LIMITED, KAMPTEE,
DISTRICT-NAGPUR:

M/s Gondwana Paints & Minerals Limited, is an old closed unit, wherein the Government of Maharashtra was holding 66%

shares. This silk unit was taken up for revial initially on a proposed lease of ten years by the Government. Later on, the shares held by the Government were transferred in favour of M/s. Development Corporation of Vidarbha Limited, from 28th August, 1978. After carrying out repairs, renovations and additions to the plant, machinery and building it has been brought to the state of production in the year 1979-80.

At present the Company is running in loss and made a turnover of Rs. 3.87 lakhs in the year 1987-88 and provide employment to about 60 persons.

(d) PACKAGE SCHEME :

Government entrusted Package Scheme of incentives 1976.

1979 and 1983 for Small Scale Industries for implementation on agency basis to the Corporation. The disbursement from inception of the Scheme at a glance is as under for Nagpur district.

TABLE 3.5 (A)

| TABLE 3.5 (| (A) |
|--|---------------------------|
| PACKAGE SCHEME OF IN | NCENTIVES (Rs. in lakhs) |
| Descriptions | Inceptions upto 31-3-1989 |
| ور الروم المالية وإذا المرام والله و | |
| (A) Special Capital Incentives 1976 and 1979 | |
| (i) Amount disbursed (ii) No. of units | 286.32 612 |
| 1983 Scheme | |
| (i) Amount disbursed (ii) No. of units | 334.32 303 |
| (B) SALES TAX INCENTIVES | · |
| 1976 and 1979 | |
| (i) Amount disbursed (ii) No. of units | 23.66 46 |
| (C) M.I.D.C. INCENTIVES | |
| 1976 and 1979 | |
| (i) Amount disbursed (ii) No. of units | 53.06 1 9 5 |
| | |

Contd...

| Con | td | | |
|----------------------------|--|--|------|
| *************** | 1 | 2. | |
| ************************** | tine that after the file had after the chiracolis and the chiracolis a | the state of the s | **** |
| (D) | OCTROI INCENTIVES | | |
| | 1979 and 1983 | | |
| | (i) Amount disbursed | 31 .8 5 | |

(Source :- Development Corporation of Vidarbh Limited, Nagpur)

134

TABLE 3.5 (B)

(ii) No. of units

Units assisted by the Development Corporation of Vidarbh. Limited. Nagpur in Nagpur district during 1987-88 and 1988-89.

| Sr. No. | Descriptions | No. of units assisted | | |
|------------|--|-----------------------|---------|--|
| | | 1987-88 | 1988-89 | |
| 1. | | 3. | 4. | |
| 1. | Chemical Industries | 11 | 9 | |
| 2. | Engineering Industries | 16 | 15 | |
| 3. | Pharmacy Industries | 2 | | |
| 4. | Electrical Industries | 3 | 1 | |
| 5. | Ceramic Industries | ***** | 1 | |
| 5. | Agro Industries | 11 | 16 | |
| 7. | Dairy Industries | 3 | 3 | |
| 3. | Transport | 117 | 172 | |
| 7. | Agro Sericulture Centre | 1 | | |
| ıø. | Small Business | 176 | 251 | |
| 11. | Other Industries (Servicing Centre, Plastic unit, wooden furniture, electronic components, Data Processing, Off- set Printing, Xerox, paper printing etc.) | 35 • | 33 | |
| | Total | 375 | 5ø1 | |

⁽Source: - Development Corporation of Vidarbh Limited, Nagpur)

3.6 MAHARASHTRA SMALL SCALE INDUSTRIES DEVELOPMENT CORPORATION (M.S.S.I.D.C.):

The Maharashtra Small Scale Industries Development
Corporation (MSSIDC) was established in 1962 to aid, assist and
finance small industries and to provide them with capital, credit
means, resources and managerial assistance to develop and improve
their methods of manufacture and technique. MSSIDC has its
Regional office at Nagpur. Corporation extends marketing
assistance to the small scale industries units and supply controlled
raw mateirals on recommendations of the Directorate of Industries.

Upto the year 1988-89 total 302 units were registered with the Corporation in Nagpur District. The type of units were RCC pipes, wooden furniture, steel furniture, fabrication, polythene bags, paints, chemical, electrical items, medicine and hospital equipment etc. The Corporation has rendered assistance to 206 Small Scale Industries and provided market to the products valued to Rs. 383.44 lakhs during the year 1988-89.

Positions of marketing assistance during 1988-89 in Nagour district is as below :-

| Sir. No. | Item | No. of units served | Amount (Rs. in lakhs) |
|-------------|--------------------------------|------------------------|--------------------------|
| 1. | 2. | | 4 . |
| 1. | RCC pipes (RCT) | 5 | 75.77 |
| 2. | Metal Fabric and Engineering | 38 | 84.42 |
| ₹. | Medicine and hospital equipmen | nt 5 | 2.48 |
| 4. | Chemical and paints | 3 | 22.68 |
| 5. | Electrical items | 5 | 15.72 |
| 6 | Steel furniture | 22 | 11.49 |
| 7. | Wooden furniture | 2ø | 24.31 |
| . 8 | Printing and Stationery | 2 | Ø.64 |
| · • | Miscellaneous Items | 44 | 17.85 |

| \mathbb{C}^{0} | ~. ┏ | ÷ | | | |
|------------------|------|----|----|----|--|
| 1, | '! | 16 | 11 | Α. | |

| 1. | 2. | 3. | 4 . |
|----------------------|----------------------------|--------|--------|
| 1Ø. | Manglori Tiles | 3 | 3.71 |
| 11. | PSC Pole | 1 | 28.89 |
| 12. | CI Products | 2 | 9.10 |
| 13. | Material of Rubber plastic | only 3 | 2.66 |
| 14. | PVC Pipes | 1 | Ø.12 |
| 15. | Poluthene bags | 4ø | 27.61 |
| 16. | AC Pipes | 2 | 12.91 |
| 17. | Sluice volve | 1 | 10.11 |
| 18. | Ashram shed | 9 | 32.97 |
| \$2000 \$2000 \$2000 | Total | 206 | 383.44 |

(Source :- MSSIDC, Nagpur)

3.7 KHADI AND VILLAGE INDUSTRIES BOARD:

In 1946, the then Government had established Gramodyog Comm:ttee for development of Khadi and Village industries. Then after formation of maharashta State, ot has been converted into Khad: and Village Industries Board in 1962. The purpose of establishing this Board is for encouragement, organisation, development and regulation of Khadi and Village industries in Maharashtra State. Primarily it acts as service institute. Its main purpose is to assist and help the artisans especially in rural areas by providing them finance, technical knowledge and trairing etc. The main thrust is on organising such programmes through co-operative societies. Twenty five industries have been included in the jurisdiction of Khadi and Village Industries Board.

The following type of institutions, societies and person can get financial assisatance from Khadi and Village Industries

Boarc

- 1. Institutions registered as per 1960 Act.
- 2. Co-operative Societies registered as per 196Ø Co-operative Act.
- 3. Artisans.
- 4. Persons/Industrialists.

The financial assistance disbursed by the Khadi and Village Industries Board in Nagpur district during the last three years is given in the following table.

TABLE 3.7 (A)

| Year | Units | Loan | Assistance | Total |
|-------------------|-------|-------|------------|-------|
| 1 | | 3. | 4. | 5. |
| 1986-87 | 162 | 19.46 | Ø.41 | 19.87 |
| 1987-88 | 94 | 7.5Ø | Ø.27 | 7.77 |
| 1 9 8 8~89 | 68 | 7.17 | ø.23 | 7.40 |
| | | | | |

There are about 20 village industries under the jurisdiction of Khadi and Village Industries Board in the district. The important village industries are carpentry, Blacksmithy, pulses, leather, Khandsari, cane and bamboo, industries.

The information regarding production, sale and employment available in total units assisted by the Khadi and Village Industries Board is shown in following table.

TABLE 3.7 (B)

Units assisted by Khadi and Village Industries Board

| Year | Units | Production (Lakhs) | Sale (Lakhs) | Employment |
|------------------|-------|-----------------------|-----------------|------------|
| 1. | 2 , | | 4. | 5. |
| 1 986- 87 | 7ø3 | 140.00 | 200.00 | 22ØØ |
| 1987-38 | 513 | 136.00 | 184.00 | 161Ø |
| 1188 B-59 | 652 | 137.93 | 194.02 | 2143 |

(Source :- Khadi and Village industries Board)

In addition to this there are 7539 artisans who were members of Balutedar Co-operative Society have been brought under the Rural Artisans Employment Guarantee Scheme implemented by Khadi and Village Industries Board.

Sericulture, Bio-gas plant, artisans employment scheme are the main programmes of Khadi and Village Industries Board. The programmes will be intensified in future years.

3.8 MAHARASHTRA STATE FINANCIAL CORPORATION:

The Maharashtra State Financial Corporation (MSFC) has been set up under the Act of Parliament entitled the "State Financial" Corporation Act-1951" to assist industrial development by catering to financial needs of the medium and small scale industries in accordance with the industrial policy of the Government. The Corporation is established during 1961.

The main function of the Corporation is to meet the term loan requirements of small and medium scale industries for acquisition of fixed assests like land, building, machinery, and equipment. The loans are given for setting up new industrial units as well as for expansion and modernisation of the existing units. The objective of the Corporation is to promote more industries in backward and developing areas.

In terms of MSFC's act, the concerns which are engaged in or to be engaged in manufacture, processing, preservation, mining, hotel industry, transport of passengers or goods by raod or water, maintenance, repair, testing or servicing of machinery of any description or vehicle or vessels, assembling, repairing or packing any article with the aid of machinery or power are eligible for financial assistance from the Corporation. Industrial concerns whose constitution is proprietory, partnership, Hindu undivided family, Private or Public Ltd. company, registered Co-operative Society are eligible to get financial assistance from the Corporation.

The development of mines, developments of any process of product where research is undertaken, are also eligible for existance from the corporation.

The Corporation considers term loan only for acquisition of fixed assets such as land, building or plant and machinery.

Loans for working capital, re-payment of old debts, whether from Bank or private party are not considered.

The Maharashtra State Financial Corporation has assisted to small scale and medium scale industries and transport sector in Nagpur District during the last two years is as below.

| Type of Units | | No. of un | its assis | sted |
|---|-----------------------------------|---|---|--|
| | 1986- | 87 | 1988 | 3-89 |
| MIC 1807 1807 1807 1807 1807 1807 1807 1807 | Units Rs.in lacs | | Units | Rs.in lacs |
| Small and medium Scale industries | 71 | 572.Ø1 | 80 | 773.24 |
| Transport Sector | 24 | 19.27 | 38 | 32.28 |
| Total | 95 | 591.28 | 118 | 8Ø5.52 |
| | Scale industries Transport Sector | Units Small and medium 71 Scale industries Transport Sector 24 | Small and medium 71 572.01 Scale industries Transport Sector 24 19.27 | Units Rs.in Units lacs Small and medium 71 572.01 80 Scale industries Transport Sector 24 19.27 38 |

3.9 STATE INDUSTRIAL AND INVESTMENT CORPORATION OF MAHARASHTRA. (SICOM):

This is one of the most dynamic State Level Organisation in the field of promotion of industries in developing parts of the State. The SICOM offers a package of multipurpose service to entrepreneurs, helps in project identification and project promotion.

It assists entrepreneurs in selection of locations, equipment leasing and supply of raw materials and machinery. It also acts as consultancy organisation.

(Source: M.S.F.C. Nagpur)

The financial assistance given by the SICOM in Nagpur district assortance. 1988 is as below.

| | | | | (Rs. in | lakhs) |
|--|---|--|--|---|--|
| Under SI Schem | | Package of Inc | Scheme entives. | Central | Subsidu |
| Sanction | Disbur- sement | Sanction | Disbursement | Sanction | Disbursement |
| 5572.10 | 3794.62 | 1350.85 | 1050.81 | *************************************** | |
| ***** ***** ***** ***** ***** ***** **** | errer happe had de apply althou years about const about subject too | t erman egyet bolgor goldon tadog abbon acast abboy adast debus bygger . | ilder wilder derma verbet endgen. 1985 baker sellijk okteb 1990s sellijk 1990s dellijk 1990s dellijk 1990s del | | ··· 1000 1000 0000 11200 MMG 10200 1000 4007 2000 5000 4000 6000 |

(Source :- SICOM, NAGPUR)

The number of units committed investment catalused and employment generated in Nagpur district as on 30th June, 1988 is as below.

| | | | (Rs. in Lakhs) | | |
|------------|-----------------------------|--------------|-------------------------|-------------------------|--|
| Sr. No. | Item | No. of Units | Financial assistance | Employment generated | |
| 1. | Units in Produ- ction. | 354 | 21783.83 | 41212 | |
| 2. | Units under construction. | 16 | 15866.07 | | |
| 3. | Units in proposal stage. | 45 | 10047.11 | Made | |

3.10 OTHER FINANCIAL INSTITUTES :

The institutions such as Life Insurance Corporation, Unit Trust of India, etc. render financial assistance directly to the entrepreneurs in the district.

MAHATMA PHULE BACKWARD CLASS DEVELOPMENT CORPORATION :

The corporation has been established in the month of July 1978 with an object of development of backward class communities. Persons belonging to scheduled castes, scheduled tribes and nomadic tribes are getting advantage of the Margin Money Scheme being implemented by the Corporation.

The regional office of Corporation is located at Nagpur.

The loan upto Rs.5000/- is given by the Corporation. The

Corporation acts as an implementing agency for the welfare of

beneficiaries of the scheme should not have a family income exceeding Rs.4200/- and Rs.3600/- per annum in the urban and rural areas respectively.

Mahatma Phule Backward Class Development Corporation Ltd.

mobilises the resources to the neglected sector by providing

marginal capital to the entrepreneurs.

The Corporation implements the following scheme:-

- 1. Loan Subsidy Scheme: Rs.2500/- or 50% subsidy is sanctioned by the Corporation on sanction of Rs.2500/- or 50% loan by bank.(Maximum scheme cost Rs. 5000/-)
- 2. I.R.D.P. Tie-up Scheme: 16.67% or 25% additional subsidy is disbursed by the Corporation on sanction of 50% loan by banks and 33.33% or 25% subsidy is sanctioned and disbursed by D.R.D.A. under I.R.D.P.
- 3. Training Programme: Stipend and other expenses are paid by the Corporation to impart training in various technical trades to School/College drop-outs in urban area. The scheme is implemented on the line of TRYSEM.
- 4. Co-oprative Societies Share Purchase Scheme: Amount to the extend of Rs.200/- is given to each. In case of Sugar Co-operative and Spinning Co-operative the amount is Rs.1000/- and Rs.2000/- respectively. (50% Bank loan and 50% subsidy)
- 5. Employment Promotion Programme: Seed Capital Assistance to educated unemployed is paid at the rate of 22.5% for the projects involving cost upto Rs.1 lakhs and 15% for the projects above Rs. 1 lakh and upto Rs. 3 lakhs. (Maximum cost considered as Rs. 3 lakhs)
- 6. Share Capital Scheme: Under this scheme the Corporation sanctions 25% Share capital (Margin Money) after sanctioning the 75% loan Rs.12000/- and necessary working capital.

The financial assistance given by the Mahatma Phule
Backward Class Development Corporation during the year 1987-88
and 1988-89 is given below.

(Rs.in lakhs)

| Sr. | Scheme | No. of | Borrowers | Amou | rit |
|-----|---|---------|-----------|---------|---------|
| | | 1987-88 | 1988-89 | 1987-88 | 1788-87 |
| 1. | Under SCP 50% subsidy | 1101 | 1260 | 21.64 | 27.87 |
| 2. | Under Margin Money | 116 | 152 | 4.93 | 6.66 |
| 3. | Under IRDP Scheme | 856 | 218 | 6.89 | 2.15 |
| 4. | Under Training Scheme | 1Ø4 | 129 | 1.40 | 1.43 |
| | ern. Hint dram there fame pare? Care based fame trade haden haden haden pades taken taken haden haden based taken based to the based taken to the based taken to the based taken to the based taken taken based to the based taken taken taken based to the based taken taken taken based | | | | |

LOKSHAHIR ANNABHAU SATHE DEVELOPMENT CORPOTATION :

Lokshair Annabhau Sathe Development Corportaion is established on 11th July 1985 for the development of the people in Matang caste. It implements subsidy and seed money assistance scheme.

The financial assistance given by the Corporation during the year 1987-88 and 1988-89 is given below.

(Rs.in lakhs)

| Sr. | Scheme | No. of | Borrowers | Amount |
|-----|-----------------------|---------|-----------|-----------------|
| No. | | 1987-88 | 1988-89 | 1987-88 1988-89 |
| 1. | Under Seed 50% | 224 | 255 | 4.42 5.05 |
| 2. | Under Margin Money | 1 1 | 16 | Ø.38 Ø.57 |
| 3. | Under IRDP Scheme | 33 | - 120 M | Ø.21 |
| 4. | Under Training Scheme | 15 | 12 | Ø.28 Ø,25 |
| 4. | Under Training Scheme | 15 | 12 | Ø.28 Ø, |

VASANTRAO NAIK SCHEDULED TRIBE & NOMADIC TRIBE DEVELOPMENT CORPORATION :

The Corporation is established on 8th February,1984 for the development of Scheduled Tribe and Nomedic Tribe people below poverty line. The Corporation implements the scheme of Seed Money assistance on the interest of 4 percent.

The financial assistance given by the Corporation during the year 1987-88 and 1988-89 is given below.

| | _ | | |
|---|-----|----|--------|
| 1 | Rs. | 17 | lakhs) |
| | | | |

| Sr. | Scheme | No. of Bor | rowers | Amount | t |
|-----|---|------------|--------|---------|---------|
| ~ | and the fact has been seen the contract the | 1987-88 1 | 988-89 | 1987-88 | 1988-89 |
| 1. | Margin Money Scheme | 13Ø | 7Ø | 1.66 | 1.13 |

MAHARASHTRA AGRO INDUSTRIES DEVELOPMENT CORPORATION :

The Maharashtra Agro Industries Development Corporation Ltd. has its Regional Office in Nagpur. The M.A.I.D.C. is mainly active in the field of agricultural inputs and processing of agricultural product like dustribution of tractors, manufacture of different grades of fertilizers and pesticides formula of animal feed for cattle, poultry etc.

The M.A.I.D.C. has taken over NOGA plant at Nagpur for processing of fruits and vegetables. In addition to this M.A.I.D.C. is also implementing the Government of India Scheme of providing comprehensive services to agricultural communities through the agricultural graduates by motivating them to start such ventures. MAIDC has sponsored 15 Agro Service Centres at various places in the district.

(A) Processing of Fruits and Vegetables:- The Corporation took over the NOGA factory at Nagpur in 1972. The capacity of the plant is incereased upto 4300 M.T. per annum. The total investment as on 30/4/1987 amounted to Rs. 89.04 lakhs. The actual production, sales of product exported under the brand name 'NOGA' to various countries is given below.

| Year | Production (in M.T.) | Sales (in lakh) | Value of Product exported (Rs. in lakhs) |
|------------------|-------------------------|--------------------|---|
| 1984-85 | 3Ø74 | 372.36 | 8Ø.22 |
| 1985-86 | 364Ø | 356 .27 | 83.49 |
| 1986- 8 7 | 1722 | 265.26 | 15.85 |
| | | | |

(B) Sprinkler Irrigation System: The Corporation supplies "Sprinkler Irrigation System" sets for upliftment of production of oil seeds under National Oil Seeds Development Project. During 1986-87, 2304 sets were supplied/installed.

The Corporation supplied Mini Kits of Fertilizers under Govt. Scheme. It also supplies bio-fertilizers like Rhizobium Culture and Azotobactor Culture under Government programme.

MAHARASHTRA STATE HANDLOOM CORPORATION :

The Maharashtra State Handloom Corpotation was set-up in 1971 with its head office at Nagpur. It is particularly aimed at development of Handloom Industries in Vidarbh region. The MSHC is assisting the handloom weavers out-side the co-operative fold and has implemented the production marketing scheme etc. covering approximately 12,625 handloom weavers from Nagpur city with the help of commercial banks. MSHC is also undertaking yarn distribution, marketing of handloom weavers assisted by the Corporation.

TABLE
Position of Maharashtra State Handloom Corporation for
Nagpur district during 1987-88 and 1988-89 is given below.

| Sr No. | Description. | 1987-88 | 1988-89 |
|-----------|-------------------------|---------|---------|
| 1. | Total No. of Handlooms | 8665 | 8716 |
| ~~ A A | Total No. of Workers | 21663 | 2179ø |
| 3. | Production (Lakh Meter) | 156.95 | 155.10 |
| 4. | Production Value (Lakh) | 937.Ø8 | 1152.68 |
| 5. | Production Sale (Lakh) | 485.83 | 390.38 |

⁽ Source :- M.S.H.C. Limited, Nagour)

MAHARASHTRA ELECTRONICS CORPORATION :

Maharashtra Electronics Corporation has been established on 4th May,1978 for balanced development of Electronics Industry.

About 25 Hectares land is reserved for Electronics Zone by the Corporation at Nagpur in M.I.D.C. area. The work of providing facilities like constructed accomposation, roads, water and other facilities on this land is undertaken by the Corporation.

As the land is limited, the Corporation has adopted the policy to provide constructed blocks on hire purchase to the industrialists as detailed below.

| Details | Block No.1 | Block No.2 | Block No.3 | Block No.4 |
|--|--------------------|----------------|-------------------|-------------------|
| Constructed area (Hire Purchase) | 95 8 sq.ft. | 1660 sq.ft. | 2069.68 sq.ft. | 3945.ØØ sq.ft. |
| Cost of Block (including cost of land) | Rs.1,82,000 | Rs.3155ØØ/- | - May Man | 411 466 |

SMALL INDUSTRIES SERVICE INSTITUE :

The Small Industries Service Institute is an independent service institute having its office at Nagpur. The institute provides basic information to the entrepreneurs such as existing production of a particular item, market, project demand, technical demand, technical guidance, Govt. policy regrading Small Scale industries, management and technical guidance, training courses, industrial designing, export promotion, modernisation, quality control are the main activities of the institute.

3.11 LEAD BANK: gmaja

The Bank of Mabarashtra is the Lead Bank for the Nagpur district.

The eradication of poverty is the important goal. The "Area approah" idiology has been converted into "Lead Bank Scheme". one particular bank in the district was vested with the

responsibility to co-ordinate functions of various banks and different Government agencies in their aim to eradicate the poverty.

The Reserve Bank of India co-ordinates the scheme and issues guidelines keeping in view the national policy.

The sector-wise performance of lead bank in Nagpur district during 1985,1986 and 1987 is given below:-

TABLE 3.7
-----Performance of Lead Bank during 1986-88

| | | | | | (Rs. in Lakhs) | | | | | | |
|------------|--|----------------|---------------|------|----------------|----------------|-------|--------|-------|-----|--|
| Sr. No. | Sector | | 1986 | | 198 | 7 | | 198 | | | |
| 1 | 2 | | Achie ment | | Target | Achiev ment | ve- % | Target | Achie | - % | |
| Ø1. | Agricul- ture | 1Ø46 | 13822 | 1321 | 47ø | 1232 | 262 | 1374 | 1732 | 126 | |
| Ø2. | Activi- ties allia to Agri- culture. | | 149 | 45 | 200 | 166 | 83 | 231 | 264 | 115 | |
| Ø3. | Small Scale Industries | | 394 | 282 | 259 | 487 | 188 | 274 | 4Ø9 | 149 | |
| Ø4. | Transport | 116 | 158 | 135 | 109 | 110 | 1Ø1 | 95 | 111 | 117 | |
| Ø5. | Retail Tra | ade 79 | 117 | 149 | 9Ø | 142 | 158 | 212 | 149 | 7Ø | |
| Ø6. | Small Business | , - | 1Ø9 | | | 1Ø8 | | | 1Ø7 | | |
| Ø7. | Profess- ionals & self-emplo persons. | | 63 | 79 | 85 | 78 | 92 | 77 | 56 | 73 | |
| Ø8. | Others. | 15 | 6 | 39 | 1Ø | 4 | 42 | 2 | 4 | 218 | |
| | Total | 181Ø | 14818 | 818 | 1223 | 2327 | 19ø | 2265 | 2832 | 125 | |

(Source :- Lead Bank Report, Nagpur)

DISTRICT CREDIT PLAN : 1988-90

The sector-wise allocation under the District Credit Plan

1988-90 of Nagpur district as prepared by the Lead Bank is given
below:-

TABLE : 3.8

Credit Plan for Lead Bank 1988-90

| Sr. No. | | Accounts | Credit to be Provided (Rs. in '000') |
|----------------------------------|--------------------------------------|--|--|
| 1 | 2 | ************************************** | <u>4</u> |
| Ø1. | Agriculture | 38Ø77 | 29Ø755 |
| Ø2. | Allied Agriculture | 11636 | 69212 |
| Ø3. | Small Scale Industries | 5222 | 8272Ø |
| | Other Sectors - | | |
| Ø4. | Transport Operator | 32 8 | 3 Ø872 |
| Ø5. | Retail Trade & Small Business. | 8945 | 62615 |
| Ø6. | Professional and Self-Employment. | 2374 | 2374Ø |
| Ø7. | Others | 6Ø | 600 |
| dette Grave trace scour bases as | TOTAL- | 66642 | 56Ø514 |

(Source :- District Credit Plan 1988-90)

Block-wise Credit allocation under District Credit Plan 1988-90

The following table gives tabsil-wise break-up of credit plan allocation-

| Tahsil-wise | allocation | of Credit | Plan 1988-9Ø |
|-------------|------------|-----------|--------------|
| | | | |

TABLE : 3.9

| Sr. No. | Tahsil | total dis | | % Share to total credit for the |
|------------|------------|-----------|------------------------------|---------------------------------|
| 1 | 2 | No. of | Amount (Rs.in 'ØØØ') 4 | 5 |
| 1. | Nagpur | 5648 | 52944 | 9.44 |
| 2. | Kamptee | 5134 | 4614Ø | 8.23 |
| 3. | Hingana | 5331 | 43124 | 7.7Ø |
| 4. | Katol | 4686 | 35610 | 6.35 |
| 5. | Narkhed | 5746 | 46253 | 8.25 |
| 6. | Kalmeshwar | 3436 | 28112 | 5.01 |
| 7. | Saoner | 6255 | 5Ø936 | 9.08 |
| 8. | Ramtek | 4862 | 47156 | 8.42 |
| 9. | Parshioni | 4371 | 37129 | 6.62 |
| 10. | Mouda | 6376 | 57731 | 10.30 |
| 11. | Umred | 667Ø | 52915 | 9.45 |
| 12. | Bhivapur | 3816 | 32233 | 5.75 |
| | Kuhi | 43Ø1 | 3Ø231 | 5.4ø |
| | Total | 66642 | 56Ø514 | |

(Source :- Lead Bank Credit Plan 1988-90)

medit Plan 1988-

The Credit Plan for the year 1988 was as under -

| Sr. No. | Sector | | Credit proposed (Rs. in '000') |
|------------|-------------------------------------|---------------|-----------------------------------|
| 1 | 2 | 3 | 4 |
| 1. | Agriculture | 21921 | 137437 |
| 2. | Allied Agriculture | 3954 | 23Ø53 |
| 3. | Small Scale Industries | 1761 | 27435 |
| | Other Sectors - | | |
| 4. | Transport Operator | 1Ø6 | 9486 |
| | Retail traders & Small business. | 3035 | 21945 |
| 5. | Professional & Self-employment. | 772 | 772Ø |
| 7. | Others | 19 | 19Ø |
| ···· | Total - | 3 1568 | 226566 |

(Source :- District Credit Plan 1988-90)

The following table gives tabsil-wise break-up of Credit
Plan 1988 :-

TABLE 3.10
----Tahsil-wise Credit Plan 1988

| | | (Rs. in 'ØØØ') | | | | | |
|------------|------------|--------------------|--------------------|--|--|--|--|
| Sr. No. | Tahsil | No. of Accounts | Credit Proposed | | | | |
| 1 | | 3 | 4 | | | | |
| 1. | Nagpur | 2719 | 21269 | | | | |
| 2. | Kamptee | 2171 | 17135 | | | | |
| 3. | Hingana | 3Ø86 | 19091 | | | | |
| 4. | Katol | 2265 | 1528Ø | | | | |
| 5. | Narkhed | 2638 | 18514 | | | | |
| 6. | Kalmeshwar | 1593 | 11152 | | | | |
| | | | | | | | |

Contd.

| 1 | 2 | 3 | 4 | * 1000 NOT NOW |
|----------------------------|-----------|-------|---------------|----------------|
| 7. | Saoner | 3Ø18 | 21444 | |
| 8. | Ramtek | 2000 | 16565 | |
| 9. | Parshioni | 2164 | 15159 | |
| 1Ø. | Mouda | 3161 | 24899 | |
| 11. | Umred | 2989 | 2Ø 477 | |
| 12. | Bhivapur | 1778 | 12752 | |
| 13. | Kuhi | 2062 | 12839 | |
| ***** **** ***** ***** *** | Total - | 31568 | ~ | · |
| #100 datas come 2-011 da | | 31366 | 226566 | |

3.12 (A) INTEGRATED RURAL DEVELOPEMENT PROGRAMME (IRDP) :

The Intergrated Rural Development Programme was initially started in the year 1978-79 in Mahrashtra State. The IRDP is an individually beneficiary oriented programme and is under implementation as per guidelines of Government of India.

The object of this programme is to provide productive income generating package to all rural families below poverty-line i.e. rural families whose net income does not exceeds Rs. 3500/- and who have un-irrigated land holding size upto two hectar in Non-DPAP area and three hectar in DPAP areas; and imparting training in self-employment etc.

The IRDP involves identification of families belonging to target group consisting of agricultural labourers, small and marginal farmers, non-agricultural labourers, rural artisans as per census of house-holds below poverty line carried out in 1982. In Nagpur district about 76,838 families were below poverty as on 1-4-1986. The families who were given financial assistance during sixth plan but who have not crossed the poverty line and found eligible for second dose of assistance have also been covered. These families were treated as new families for purpose of identification.

The progress under IRDP (covering new and old benificiaries) during the year 1987-88 and 1988-89 is given below :-

TABLE : 3.11
Progress of I.R.D.P.

| Sr. No. | Tahsil | Tahsil Year | | Benificiaries (New + Old) covered under | | | | |
|------------|------------|------------------------|-------------------------|--|-------------------|--------------------|------------|--|
| | | | (Rs.in lacs) | | | 9T | Women | |
| 1. | Nagpur | 87-88 88-89 | 17.99 8.70 | 966 446 | 212 9 6 | 3Ø3 12Ø | 27ø 1ø7 | |
| 2. | Kamptee | 87-88 88-89 | 9.25 6.60 | 621 366 | 182 127 | 58 51 | 272 143 | |
| 3. | Hingana | 87-88 88-89 | 15.85 10.99 | 8Ø2 48Ø | 11Ø 92 | 375 238 | 445 259 | |
| 4. | Sacner | 87-88 88-89 | 16.17 11. 9 9 | 96ø 597 | 242 233 | 196 110 | 221 124 | |
| 5. | Kalmeshwar | 87-88 88-89 | 11.95 5.58 | 678 334 | 181 88 | 152 4 5 | 17Ø 73 | |
| 6. | Katol | 87-8 8 88-89 | 17.19 11.30 | 8 48 552 | 211 128 | 335 182 | 75 9ø | |
| 7. | Narkhed | 87-88 88-89 | 19.Ø5 13.5Ø | 900 618 | 247 215 | 168 115 | 35Ø 164 | |
| 8. | Ramtek | 87-88 88-89 | 12.Ø9 10.2Ø | 628 479 | 14Ø 99 | 226 172 | 153 123 | |
| 9. | Mouda | 87-88 88-89 | 13.41 6.92 | 825 344 | 2Ø1 71 | 118 84 | 191 143 | |
| 10. | Parshioni | 87-88 88-89 | 13.91 10.14 | 728 451 | 181 1Ø3 | 116 81 | 1Ø3 151 | |
| l1. | Umred . | 87-88 88-89 | 8.82 8.67 | 893 4ø6 | 224 83 | 2 94 169 | 223 118 | |
| 12. | Bhivapur | 87-88 88-89 | 14.45 7.20 | 838 377 | | | | |
| 13. | Kuhi | 87-88 88-89 | 13.41 7.61 | 863 45 7 | 31Ø | 54 | 185 | |
| | | | 191.54 119.41 | 1Ø55Ø 59Ø7 | 2763 | 26Ø 8 | | |

(Source : Project Director, D.R.D.A.)

During the year 1988-89 the per beneficiary investment in the district was Rs.2021/- as against the State average of Rs.5512/-.

(B) National Rural Employment Programme (NREP):

The National Rural Employment Programme was also implemented by the D.R.D.A. This programme is sponsored by the Government of India. The programme should lead to generation of employment, creation of durable community assets, improvement in standard of poor rural population.

The programme (1) Village Panchuat Works, (2) Housing facilities for SC/ST and Social Forestry were implemented in the district.

(C) TRYSEM :

A centrally sponsored scheme "Training of Rural Youth for Self Emplyment (TRYSEM)" was launched by the Government of India in the department of Rural Development on 15th August, 1978.

TRYSEM is a facilitating component of the Integrated Rural Development Programme.

The objective of TRYSEM is to provide techinical skills to rural youth from families below poverty line to enable them to take-up self-employment in the broad fields of agriculture and allied activities, industries, services and business activities.

The training under TRYSEM would be provided on the basis of actual need and requirement and hence there would be no separate targets at a micro level under TRYSEM. The cost of training in the form of stipend, etc. is to be met out of the funds set out for infrastructure, etc. under IRDP. The Government has decided to establish Trysem Training Centre at Katol. A syllabus of 13 techinical trades has been finalised by the Rural Development Department.

The tahsil-wise position of progress of TRYSEM year 1987-88 and 1988-89 is given below :-

| Sr. No. | Tahsil | Trained | | Ass | iste\ |
|------------|---|---------|-------|-------|-------|
| | r madd than bloor time times their reas along their blook their blook along their | 87-88 | 88-89 | 87-88 | 88-89 |
| | Nagpur | | 52 | 24 | 25 |
| 2. | Kamptee | 44 | 45 | 3Ø | 22 |
| 3. | Katol | 55 | 58 | 13 | 20 |
| 4. | Kalmeshwar | 4Ø | 4Ø | 2ø | 22 |
| 5. | Kuhi | 5Ø | 33 | 25 | 20 |
| 6. | Mouda | 41 | 41 | 39 | 23 |
| 7. | Ramtek | 43 | 4Ø | 22 | 15 |
| 8. | Umred | 42 | 56 | 21 | 22 |
| 9. | Bhivapur | 44 | 43 | 22 | 24 |
| ø. | Narkhed | 31 | 41 | 2ø | 22 |
| . 1 . | Saoner | 42 | 41 | 24 | 22 |
| 2. | Hingana | 43 | 41 | 2Ø | 23 |
| 3. | Parshioni | 53 | 64 | 28 | 22 |
| | Total | | 595 | | |

(Source 1-D.R.D.A., Nagpur)

The expenditure incurred under TRYSEM scheme during the year 1987-88 and 1988-89 was Rs. 7.99 lakhs and Rs. 10.43 lakhs respectively.

(D) Tribal Sub Plan :

The Tribal Sub Plan area scheme has been made applicable to selected villages in Ramtek tahsil. The special schemes for upliftment of tribals are under implementation. Funds from State's annual plan have been earmarked for this scheme. The scheme is also extended to the tribals residing outside tribal sub plan area.

(E) Waste Land Development Programme :

The Forest Development Corporation of Maharashtra is implementing this scheme. It is proposed to cover an area of 4620 hectares under this scheme during 1988-89.

3.13 EMPLOYMENT :

Employment Trend -

The Employment Exchange collects information about employment in Private and Public sector consist of offices of State and Central. local self-Government and other organisations controlled by these agencies and private sector comprises non-agricultural, non-house-hold establishments.

The following table indicates the employment trend in Private and Public sectors during the year 1986-87. 1987-88 and 1988-89.

TABLE 3.12

No. of Establishments in Public and Private Sectors in Nagpur District.

| Year | No. of | Establis | nments | Employment | | | |
|-----------------|----------------|-----------------|------------------|-------------|--------------|------------|--|
| 1 | Public 2 | Private 3 | Total 4 | Public 5 | Private 6 | Total 7 | |
| 1986-87 | 56Ø | 6Ø1 | 1161 | 177,554 | 35,192 | 212,746 | |
| 9 87-8 8 | 6Ø6 (+8.21) | 767 (+27.62) | 1373 (+18.26) | 181,731 | 4ø,367 | 222,098 | |
| 988-89 | 625 (+3.13) | 7Ø7 (-7.83) | 1332 (-3.00) | 181,407 | 41,853 | 223,26Ø | |

(Source :- Employment Exchange, Nagour)

(Note: - Figures in bracket shows the percentage change over.)

3.14 EMPLOYMENT IN WOMEN:

The following table shows the position of employment in women in Public and Private sectors for the year 1986-87, 1987-88 and 1988-89 as supplied by the Employment Exchange, Nagour.

TABLE 3.13

Employment of Women in Public and Private sector

| Year | Employment in Women | | | % Change over | | | |
|---|---------------------|---------|--------|-------------------|---------------|-------------------|--|
| 6000c (2000 301)5 38000 Above Seven 331 Shape whole Seven | Public | Private | Total | Public | Private | Total | |
| 1986-87 | 16 8 3Ø | 6Ø47 | 22,877 | Marie Sanda Sayan | suit tira kem | \$770 Make appear | |
| 1987-88 | 16919 | 6612 | 23,531 | +Ø.52 | +9.34 | +2.85 | |
| 1988-89 | 17403 | 794Ø | 25,343 | +2 .8 6 | +20.08 | +7.70 | |
| | | | | . | | | |

It will be seen from the above table that the Public Sector was the main employer for women.

3.15 UN-EMPLOYMENT POSITION:

One of the important sources of assessing unemployment is, the data relating to number of employment seeker on live register of District Employment Exchange.

The imformation regarding persons registered and on Live Register with the Employment Exchange is given below :-

TABLE 3.14

Persons registered with Employment Exchange and remaining on Live Register.

| Year | Perso | ns Regis | tered | Persons on Live Registere | | |
|--|---------|----------|----------------|---------------------------|--------|---------|
| ······································ | Male | Female | Total | Male | Female | Total |
| 1987-88 | 19241 | 938Ø | 28621 | 149,924 | 47,55Ø | 197,474 |
| 1988-89 | 24755 | 9Ø51 | 33 8 Ø6 | 145,817 | 48,057 | 193,874 |
| | (+28.6) | (-3.6) | (+18.Ø) | (-2.4) | (+1.6) | (-1.6) |

⁽Figures in brackets indicate percentage change over the previous year)

⁽ Source :- Employment Exchange, Nagour.)

3.16 UN-EMPLOYMENT AMONG EDUCATED PERSONS:

The Employment Exchanges have classified the educated unemployed persons on live Register by their qualifications.

This classification is presented in the statement given below: -

TABLE 3.15

Classification of Educated unemployed on Live Register of Employment Exchange for 87-88 & 88-89

| Sr. Oualifications No. | No. of e un-emplo Live Reg | % change over 1987-88 | |
|------------------------------------|----------------------------------|-----------------------------|--|
| | 1987-88 | 1988-89 | |
| 1. Non-Technical - | | | and then dept that the last hard aller pair pair ann ann ann ann |
| i) S.S.C. Passed | 74,320 | 79.840 | +7.42 |
| ii) Higher Secondary | 10,506 | 10,418 | -0.84 |
| iii) Graduates | 8,437 | 8,689 | +2.98 |
| iv) Post Graduates | 1.694 | 1,258 | -26.Ø |
| 2. Technical - | | | |
| a) Engineering Diploma Holders | 738 | 9ø2 | +22.2 |
| b) I.T.I. trained, apprentices. | 2,560 | 2,780 | +8.59 |
| TOTAL | 98.255 | 103,887 | +5.73 |

⁽ Source :- District Employment Exchange, Nagpur.)

3.17 PERSONNEL IN DEMAND :

As per the Compulsory Notification of Vacancies Act, 1959; the vacancies were required to be notified to the Employment Exchanges. The information regarding number of vacancies notified, number of vacancies filled and outstanding at the end of December 1987 and December 1988 is given below:

TABLE 3.16

| Sr. No. | Occupations | No. of vacancies | | | | | | |
|------------|---|------------------|---|--------------|------|--|--------|--|
| NOA | | Not | ified | Fil | led | Outsta | nding | |
| i | 2 | 87 3 | 88 4 | 87 5 | | 87 . 7 | | |
| 1. | Chemist | 1 | | , pare | | eren merri brade pende pende annah ennah ennah | **** | |
| 2. | Geophysicist | 1 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | •••• | **** | | |
| 3. | Laboratory Asstt. (Chemical) | a- u | **** | **** | **** | **** | 2 | |
| 4. | Laboratoru Asstt. (Geological) | 2 | again. | 1 | **** | 2 | 2 | |
| 5. | Laboratory Asstt. (Others) | 1 | 3 | •••• | 1 | 2 | week?) | |
| 6. | Electrical Engineer (General) | 1 | | 10710 | i | . 1 | 1 | |
| 7. | Mechanical Engineer (Production) | • | 1 | **** | | Mones | 1 | |
| 8. | Mining Engineer (Non-metal) | 1 | | *1000 | | | | |
| 9. | Planning Engineer | | | ***** | | - 2 | 2 | |
| ıø. | Industrial Engineer | 2 | | **** | • | | • | |
| 11. | Surveyor | 3 | | ***** | | 3 3 | 3 | |
| 12. | Textile Technologist | | **** | **** | - | - 1 | 1 | |
| 13. | Draughtsman Civil | 1Ø | 1Ø | 1 | : | 2 8 | 15 | |
| 14. | Draughtsman Mech. | 4 | 1 | 2 | | | 4 | |
| 15. | Overseer.Civil Engg. | 22 | 9 | 12 | 8 | 3 34 | 13 | |
| 16. | Civil Engineering Technician. | 1 . | | **** | | ast 40000 | | |
| 17. | Electrical Engineering Technician. | 2 | 1 | ***** | - | - , 2 | 4 | |
| 18. | Electronic Technician | ***** | 3 | **** | | - 9 | 14 | |
| 19. | Telecommunication Technician. | | • | 1 | | tara tahun | ***** | |
| 20. | Electrical & Electronics Technician. | **** | **** | 1 | • | - 7 | 7 | |
| 21. | Technician (M.E.Overseer) | 5 | 3 | 11 | • | - 2 Contd. | 117 | |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|------|--|--------------|-----------|---------------|-------|------------|-------------|
| 22. | Laboratory Asstt. (Petroleum.Lubricant) | 3 | . | | 4 | 3 | |
| 23. | Rock Slicer | | 1 | **** | | | ***** |
| 24. | Plane Tabler (Ground Surveyor) | 1Ø | Manuel | ***** | 6 | | 8 |
| 25. | Tracer | 1 | 3 | 1 | | 24 | 1 |
| 26. | Blue Printer | 3 | **** | | *** | 4 | |
| 27. | Laboratory Asstt. (Chemical Medical) | 14 | 15 | 2 | 15 | 8 | 8 |
| 28. | Laboratory Technician (Artificial Breeding) | ••••• | ***** | 6,150 | **** | 1Ø | ***** |
| 29. | Chemist Pharmaceutical | ***** | 1 | ***** | 2 | | |
| 3Ø. | Pharmacist Dispenser | 6 | 21 | 11 | 3 | 16 | 19 |
| 31. | Vaccinator | 1 | | 4 | **** | **** | |
| 32. | Dresser | *** | 3 | 1 | | ******* | 3 |
| 33, | Nurse General | 11 | 14 | 5 | 3 | 26 | 25 |
| 34. | Midwife | 5 | 6 | 1 | 3 | 6 | 2 |
| 35. | X-Ray Technician | 1 | 33 | **** | | 3 | 34 |
| 36. | Optician General | •••• | ***** | **** | **** | | 1 |
| 37. | Nursing Attendent | 7 | 19 | 1 | | 5 | 13 |
| 38. | Sanitory Inspector | 14 | 2 | 4 | 1 | 1Ø3 | 5 |
| 39. | Scientific Medical and Techinical & Helth Inspector. | 2 | | . | 1 | 5 | 2 |
| 4Ø . | Statistical Assistant | 1 | 3 | 1 | | o- | 3 |
| 41. | Accountant | 2 | 1 | 1 | ***** | 3 | 4 |
| 42. | Librarian | 4 | 3 | | 1 | 4 | 1Ø |
| 43. | Womenn's Welfare Officer | 3 | | **** | **** | 3 | 3 |
| 44. | Labour Welfare and Social Workers. | **** | | _ | | nines. | 4 |
| 45. | University and College Teachers. | •••• | | *** | | | 1 |
| 46. | Primary School Teacher | 1 5 5 | 122 | 72 | 49 | 111 | 1Ø2 |
| 47. | Middle School Teacher | | - | | | - Conto | 8 i. 118 |

| 1 | | | 4 | 5 | 6 | 7 | 88 |
|-------------|--|--------------|--------|----------------|-------------------|-------------|----------|
| 48. | Teacher Infant School | 85 | 1 | | | 95 | |
| 49. | Manual Training Teacher | 7 | 3 | 34499 | MID | 4 : | 2 |
| 5Ø. | Art Teacher | 7 | 14500 | **** | ***** | 7 | - |
| 51. | Photographer | 1 | 1 | 2 | 1 | **** | 2 |
| 52. | Sculptor, Painter | 17564 | • | ****** | 1 | | 1 |
| 53. | Singer, Vocal Musician | 3 | 20,709 | 1 | **** | ***** | , |
| 54. | Instrument Musician | | **** | 2 | *** | **** | - |
| 55. | Physical Training Instruct | or1 | ement. | · | t orio | •••• | |
| 56. | Laboratory Attendant (Demonstrator) | 6 | 6 | | 7 | 15 | 4 |
| 57. | Administrative and Executive Official. | | | ***** | ***** | 1 | • |
| 58. | Working Proprietor | Lines | ***** | | ***** | 1 | 1 |
| 59. | Manager | **** | ****** | **** | | | 1 |
| 6Ø. | Senior Clerk | 8 | 22 | nin | 6 | 3 | 19 |
| 61. | Tucist | 53 | 29 | 32 | 1Ø | 58 | 34 |
| 62. | Teleprinter Operator | 1 | Impa | 4 | ***** | 2 | 3 |
| 63. | Stenographer. Steno-Tupist | . 34 | 29 | 11 | 1Ø | 45 | 55 |
| 64. | Key Punch Operator. Card Punching. | 1 | *7944 | 2 | **** | | |
| 65. | Account Clerk | 13 | 7 | 4 | 5 | 12 | 15 |
| 66. | Machine Supervisor | 11 | 2 | **** | 10 | 16 | • |
| 67. | Clerk (General) | 107 | 7Ø | 63 | 52 | 118 | 114 |
| 68 . | Store-keeper | 4 | 1 | 2 | 1 | 3 | |
| 69. | Library Clerk | 1 | | | **** | | - |
| 7ø. | Time-keeper | 1 | - | - | | 1 | |
| 71. | Daftaru | ***** | 70.00 | | 1 | 3 | |
| 72. | Pean, Office-boy | 208 | 136 | 1Ø1 | 87 | 129 | 206 |
| 7 3. | Dusting Man. Farash | 28 | 7 | 13 | 2 | 19 | = |
| 74. | Supervisor (Wireless) | 1 | 2 | 1 | | 4 | 4 |
| 75. | Line Inspector (Telegraph) | | m-a | | ** *** | 6 | ć |
| 76. | Conductor(Tram) | ATOM | - | 10000 | | _ Contd. | 1 119 |

| 1 | 2 | | 4 | 5 | 6 | 7 | 8 |
|------------|----------------------------|--------------|---------|------|----------------|-------------|---------|
| 77. | Conductor(Bus) | 109 | 13Ø | 31 | 87 | 82 | 129 |
| 78. | Messenger, Dak Peon | 1 | | 6 | **** | 5 | 3 |
| 79. | Telephone Operator(Trunk) | 6 | 3 | 1 | 3 | 4 | 5 |
| 8Ø. | Telephone Operator(Local) | 1 | | **** | e deliment | 1 | |
| 81. | Station Technical Asstt. | 1 | 1 | - | **** | 5 | 6 |
| 82. | Wireless Operator | 2 | 3 | | 3 | - | 3 |
| 83. | Sales Representative | 4 | 1 | 4 | **** | **** | 1 |
| 84. | Salesman (Wholesale) | 2 | 1 | | | 2 | 1 |
| 85. | Salesman (Retail) | 1 | 3 | | 1 | 1 | 1 |
| 86. | Cook | 18 | 14 | 10 | 5 | 3 | 10 |
| 87. | Waiter | 7 | 5 | 6 | 1 | 6 | 1 |
| 88. | Ayah, Nurse-Maid(domastic) | 3 . 3 | | | _ | 1 | 6 |
| 89. | Sweeper Wet | 81 | 1Ø2 | 62 | 33 | 37 | 9Ø |
| 9Ø. | Water Carrier | 8 8 3 | 36Ø | 330 | 3Ø1 | 9 | 20 |
| 91. | Dhobi | 1 | 4 | | 1 | 3 | 2 |
| 92. | Barber | 2 | 1 | 1 | _ | •••• | 1 |
| 93. | Fire Officer | | • | | | 10 | 5 |
| 94. | Fire Fighter | 1 | 3 | | _ | 1 | 3 |
| 95. | Sub-Inspector Police | 2 | ••• | _ | | 2 | ***** |
| 96. | Pólice Constable | 53Ø | 77 | 79 | 19 | 195 | 3 |
| 97. | Detective | 5 | | - | | 5 | terito. |
| 98. | Security Officer | 1 | 22 | | 15 | 2 | 8 |
| 99. | Watchman, Chowkidar | 1Ø7 | 24 | 18 | . 38 | 1Ø5 | 48 |
| 100. | Gateman | 26 | 22 | 1 | 8 | 42 | 17 |
| 1Ø1. | Tractor Operator | 1 | 1 | 1 | •••• | | 1 |
| 1Ø2. | Live Stock Workers | | | 1 | | | |
| 1Ø3. | Gardener, Maļi (General) | 21 | 5 | 5 | 8 | 31 | 8 |
| 1Ø4. | Forest Guard | 1 | 13 | | | | |
| 105. | Overman, Mine Foreman | | 2 | _ | | **** | •••• |
| 1Ø6. | Drilling Operatives | 32 | 26 | **** | 29 C | 4ø ontd. | 120 |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 & | } `` |
|------|---|---------------|----------|---------|-------|-----------------|------------|
| 107. | Supervisors (Mining Drilling) | •••• | Binages. | | 2 | | |
| 108. | Moulder | 4 | | **** | ***** | 1 | 1 |
| 109. | Gasman, Coke Oven Operator | 1 | | • | •••• | 1 | 1 |
| 110. | Refining Machine Operator | "" | ***** | | 6 | 7111 | |
| 111. | Tailor (General) | 1 | 5 | | 1 | **** | 4 |
| 112. | Shoe Maker (General) | 2 | 1 | **** | | **** | 1 |
| 113. | Shoe Repairs (Cobbler) | | 1 | **** | | | 1 |
| 114. | Leather Cutter(Hand) | | **** | | | | 1 |
| 115. | Carpenter(General) | 5 | 3 | ***** | 6 | 4 | 3 |
| 116. | Black-smith (Lohar) | 2 | News | | | 1 | |
| 117. | Machinist (General) | 10 | 1Ø | 3 | 8 | 5 | 38 |
| 118. | Turner | 4 | 1 | 2 | 1 | | |
| 119. | Machine Tool Operator | 3 | 53 | . 3 | 29 | | 2 |
| 12Ø. | Mechanic Dental | 1 | | | *** | "… | |
| 121. | Fitter (General) | 22 | 12 | 2 | 1 | 18 | 42 |
| 122. | Fitting. Assembling. Machine Operator. | 2 | ***** | **** | | • | |
| 123. | Motor Vehicle Repairing Operatives. | | 45 | | 1 | ***** | 45 |
| 124. | Mechanic (Diesel engine, oil engine) | ***** | 8 | territo | 5 | 1 | 1 |
| 125. | Mechanic (Gas engine) | **** | 12 | **** | | **** | **** |
| 126. | Millwright Mechanic- Maintenance. | 3 | 3 | **** | 1 | 4 | 1 |
| 127. | Machanic (Refrigeration- and air-conditioning) | | 1 | | | | 2 |
| 128. | Mechanic (Sewing Machine) | 1 | ***** | 10 | **** | 16 | 16 |
| 129. | Supervisor and Foreman (Electrician) | 1 | 1 | | | 1 | ,4004 |
| 13Ø. | Elctrician (General) | 17 | 8 | 1 | 6 | 15 | 9 |
| 131. | Mechanic Precision Instrument (Electrical) | •••• | 1 | *** | ennes | a | |
| 132. | Electrician (Repairing) | 6 | . 1 | 5 | | 3 Contd. | 3 . 121 |

| 1 | | 3 | 4 | 5 | 6 7 | | 8 |
|------|--|-------|--------|----------------|---|----------|-------|
| 133. | Electronics Mechanic | 2 | 1 | 1 | 1000 | | 1 . |
| 134. | Radio Mechanic | - 3 | 1 | | 2 | 3 | 1 |
| 135. | Radio & Television Mech. | ***** | 1 | **** | | **** | 2000 |
| 136. | Wireman | 7 | 2 | 3 | 6 | 7 | 5 |
| 137. | Electrician (Automobile) | 1 | **** | *** | **** | 1 | |
| 138. | Electrical Wiring- Operatives. | ***** | 1 | | | ***** | **** |
| 139. | Maintenance Mechanic (Telephones) | | 7 | ••• | - Carrier | | 6 |
| 140. | Lineman | 4 | 1 | • | **** | 4 | ····· |
| 141. | Television Broadcasting Station Operator. | , | 1 1 | tions | 11 | | plane |
| 142. | Cinema Operator | | 1 | | ***** | **** | ***** |
| 143. | Plumber (General) | 2 | 1 | 4 | ***** | 3 | 2 |
| 144. | Welder (Gas) | 9 | 5 | 3 | 1 | | 4 |
| 145. | Blower, Glass Blows . | 1 | | | ****** | **** | |
| 146. | Machineman(Offset Printing) | | - | •••• | ****** | 4 | |
| 147. | Printing Press Operatives | - | . 1 | | *************************************** | | |
| 148. | Book-Binder | 3 | arese | | ***** | 1 | 1 |
| 149. | Painter (General) | _ | | | **** | 3 | •••• |
| 15Ø. | Coner | | 1 | | 2 | •••• | 1 |
| 151. | Stone Mason | 2 | 3 | **** | 1 | 1 | 1 |
| 152. | Stationery Engine Driver | 2 | sof## | **** | | 60100 | |
| 153. | Air Compressor Operator | | 2 | **** | - | **** | 3 |
| 154. | Turbine Operator | 2 | | **** | | **** | |
| 155. | Pumpman | 4 | | 11 | | 3 | 2 |
| 156. | Boilor Attendant | 5 | 5 | ***** | | 1 | 1. |
| 157. | Boilor house operatives cleaner (Motor) | 13 | 5 | , PRESS. | 8 | 12 | 6 |
| 158. | Oiler | *** | **** | **** | ***** | | 42 |
| 159. | Crane operator | anger | 100-99 | 60173 6 | Co | 9 ntd | . 122 |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|------|---------------------------------------|-------|---|---|--|---|----|
| 16Ø. | Tester | | *************************************** | *************************************** | 10000 court 10000 gazar garar court antes 10000 | *************************************** | 2 |
| 161. | Liftman | Maria | 1 | êryda | · · · · · · · · · · · · · · · · · · · | | 1 |
| 162. | Lascar | 71 | 11 | 3 | 14 | 38 | 6 |
| 163. | Driver (Car) | 17 | 6 | 14 | 2 | 45 | 21 |
| 164. | Driver (Truck) | 61 | 51 | 4Ø | 16 | 76 | 35 |
| 165. | Driver (Autorickshaw. Motor-cycle) | 1 | 4444 | 1 | _ | **** | |

(Source :- Employment Office, Nagpur)

The job opportunities that were notified were far less than the inflow of registration.

The Government was the main employer, but during the last two years the Government had stopped the new recruitment and there were less opportunities.

CHAPTER-IV

VOCATIONAL EDUCATION - CURRENT STATUS AND STUDY IN FUTUROLOGY

- 4.1 INTRODUCTION: The concept of vocational education moves around divertification in educational opportunities to enable the students to choose subjects and programme of study in wide field of knowledge and skills keeping with their aptitude, interest and abilities. This will ultimately help them to increase their confidence in relevant areas and increase their employability. Those in turn will provide society with personnel having a wide spectrum of knowledge and training to meet diverse manpower for the economic development.
- 4.2 In less than 12 years, from now we will be entering 21st century. The young generation with secondary and higher secondary education with competancy in knowledge and skills would serve as agents of change. Vocational education is an important in-put for all round development not only in the fields of Science and Technology and other feasibility areas but it will contribute to increase productivity in all sectors of economy keeping in view all these important aspects and previous experiences in the field of Vocational Education. The New Educational Policy emphatically lays stress not only on vocational education at +2 stage but even it has recognised the importance of divisification of vocational education from 9th standard.

The objects and methodology of Vocational Survey has been given in beginning. The present chapter enumerates the vocations which will be important in the present economic set—up of the district. Attempt has been made to obtain possible manpower requirements both with the help of Survey and by holding discussions with the various heads of offices, trade organisations, associations and knowledgeable persons in the district. The details of sector—wise finding are discussed in the forth—coming paragraphs.

The methodology of the survery adopted for summing up of findings of this survey was as below :-

- a) The economy of the district studied in depth with its agricultural, industrial, educational, infrastructural and
 resources available for arriving fair assessment of existing
 and emerging occupations.
- b) The views of progressive cultivators and knowledgeable persons in different fields were ascertained. But though the views expressed have indicated certain types of vocations and courses, the suggestions have to be considered from the point of views of practicability and Government Policy on vocational education.
- c) The findings of survey revealed only broad areas but not level of competancy which requires a detailed job analysis of occupations.

4.3 CURRENT STATUS :

As stated in the chapter on objectives and ideology due to the recommendations of various committees and working group on vocation-alisation. Govt. of India recommended introduction of vocational courses at +2 level with the objectives viz. -

- i) This vocationalisation should help to solve the unemploument problem among educated persons.
- ii) The provision of vocational courses at +2 stage should siphon out a large number of students from entering into area of university education, indirectly reducing pressure on University education.

As a follow up measure, the Govt. of Maharashtra has introduced the scheme of vocationalised education in 1978-79 initially in four districts and subsequently it was extended to all districts of Maharashtra. The Maharashtra State Board of Secondary and Higher Secondary Education, Pune initially designed 24 courses belonging to

six different groups. The courses were of bi-focal nature. After completion of the courses the student can go either to world of work or proceed for higher education. Most of the passed out students have continued higher education.

The courses were as under :-

I) TECHNICAL GROUP :

Same come being some month board bloom when an Mil bases water have been appeal to the course

- 1. Electrical Maintenance.O
- 2. Mechanical Maintenance.
- Scooter Motor-Cycle Servicing.
- 4. General Contracting.
- 5. Electronics.
- 6. Chemical Plant Operation.0
- 7. Computer Science.

II) COMMERCE GROUP :

8. Banking.

spring pages agent to our other bases office agent billing agent being spring tracks

- 9. Insurance.
- 10. Office Manadement.
- 11. Marketing and Salesmanship,
- 12. Small Industries & Self Employment.
- 13. Elementary Industrial Management.

III) AGRICULTURAL GROUP

- 14. Animal Science and Dairying.
- 15. Farm Mechanic.

- 16. Horticulture.
- 17. Crop Science.O

IV) FOOD TECHNOLOGY GROUP :

- 18. Cookery.
- 19. Bakery and Confectioneru.
- 20. Food Preservation.

V) FISHERY GROUP :

- 21. Fish Processing Technology.
- 22. Fresh Water Fish Culture.

VI) FARA-MEDICAL GROUP :

- 23. Multi-Purpose Helth Worker's Course,
- 24. Elementary Labouratory Technology.

In Nagour district at present fourteen vocational courses with 1210 intake capacity have been introduced in Higher Secondary Schools/Junior Colleges as given below :-

TABLE 4.1

Institutes and Vocational Courses

| Sr. No. | Tahsil | | Course Started | Year of starting | |
|------------|---------------------------------------|--|--|---------------------|-----------|
| 1, | , , , , , , , , , , , , , , , , , , , | | 4 . | 5. | 6. |
| 1. | Nagpur | 1) Govt. Technical High School, Nagpur. | a) Elect.Maint b) Mech. Maint | | 25 25 |
| | | 2) Patwardhan (Z.P.) High- School, Nagpur. | a) Elect.Maint | . 1986-87 | 25 |
| | | 3) Govt. Medical College. Nagpur. | | | 3Ø |
| | | 4) Public Helth Institute, Nagpur. | a) Multipurpos Helth- Worker. | ≥ 1979-8Ø • | 3Ø |
| | | 5) G.S. College of Commerce, Nagpur. | a) Banking,b) Marketing& S'manship | 1978-79 1978-79 | 25 25 |
| | | . | c) Insurance. | | 25 |
| | | 6) C.P. & Berar College, Mahal, Nagpur. | a) Banking b) Marketing & S'manship | 1978-79 1978-79 | 25 25 |
| | | · | c) Insurance,d) Office-Management. | | 25 25 |
| | | 7) Anjuman Jr. College. Nagpur. | a) Electronics b) Fresh Water Fish Culture | 1979-8Ø | 25 25* |
| | | Marina I | c) Scooter & Motor-Cucle Servicing. | 1979-8Ø | 25 25* |
| | | 8) Somalwar Jr. College. Ramdas Peth Ngp | <pre>a) Electronics</pre> | 1979- 8 Ø | 25 |
| | | 9) Shivaji Science College, Nagpur | A | | 25 25* |
| | | | b) Fresh Wate Fish Cu l tu | | 25* |

| 1Ø) | Hislop College, Nagpur. | a) Electronics. b) Fresh Water Fish Culture | 1979–8Ø 1979–8Ø | 25 25 |
|-----|---|--|--------------------|----------------------------|
| 11) | Dharampeth- College. Nagpur. | a) Banking b) Marketing & S'manship | 1979–8Ø 1979–8Ø | 25 25 |
| | | c) Electronicsd) Elect Maint. | 1979-8Ø 1979-8Ø | 25 * 5Ø * |
| 12) | Dhanwate National | a) Marketing & Salesmanship | 1979-8Ø | 25 |
| | College. Nagpur. | b) Small Indus- tries & Self Employment. | 1979-8Ø | 25 |
| 13) | S.F.S.Jr. College. | a) Fresh Water Fish Culture | 1983-84 | 25 |
| | Nagour. | b) Elect.Maint. | | 25 |
| 14) | Guru Nanak Jr.College, Nagpur. | a) Electronics | 1985-86 | 25 |
| 15) | Baba Nanak Jr.Colleg e . Nagpur. | a) Electronics | 1985-86 | 25 * |
| 16) | Sindhi Hindi Jr.College. Nagpur. | a) Électronics | 1985-86 | 25 |
| 17) | Hadas High- School,Nagpur. | a) Electronics | 1985-86 | 25* |
| 18) | C.P.& Berar High School, Nagpur. | a) Electronics | 1985-86 | 25* |
| 19) | New English High School, Nagpur. | a) Electronics | 1986-87 | 25* |
| 20) | Dharampeth High School, Nagpur. | a) Electronics | 1987-88 | 25* |
| 21) | Dinanath High School, Nagpur. | a) Electronics | 1987-88 | 25* |
| 22) | Ramnagar Bharat | a) Marketing & | 1987-88 | 25* |
| | Vidhyalaya.Ngp. | S'manship. b) Elec t.M aint. | 1987-88 | 25* |
| 23) | Somalwar Jr. College. Khamla.Ngp. | a) Electronics | 1987-88 | 25* |
| 24) | Nabira Maha- vidualaua. Katol. | a) Electronics b) Crop Science c) Horticulture | | 25* 25 25 |
| | | | | |

2. Katol

3. Umred 25) Jivan Vikas Jivan Vikas a) Banking 1985-86 Mahavidyalaya, b) Electronics

25* 25*

Umred.

26) Vasantrao

a) Electronics 1987-88

Naik Jr. College, Sirsi.

Total Courses -14

Total Intake -

121Ø

4.4 In 1986, National Education Policy envisaged the introduction of vocational courses approved by the NCERT. New Delhi. These courses provide Minimum Competancy Level required for particular vocation to enable student to do in the "World of Work" and the courses are of terminal nature. However. the student passing this course will be eligible for apprenticeship under Apprenticeship Act, 1961. This provides him opportunity of receiving experience on shop-floor of the productive industry. The twenty courses as listed below are being introduced from 1988-89 in the State. These courses are designed by the Maharahtra State Board of Secondary and Higher Secondary Education.

LIST OF MINIMUM COMPETANCY VOCATIONAL COURSES :

GROUP I : TECHNICAL

- 1. Electronics Technologu.
- 2. Building Maintenance.
- Auto Engineering Technician.
- 4. Maintenance and Repairs of Electrical Domestic Appliances,
- 5. Mechanical Technology.

GROUP II : COMMERCE

6. Accounting and Auditing.

- 7. Marketing and Salesmanship.
- 8. Purchasing and Store-keeping.

GROUP III : AGRICULTURE

- 9. Horticulture.
- 10. Crop Science.

^{(*} Permission is granted on No-Grant-in-Aid basis.)

GROUP IV : HOTEL MANAGEMENT

- 11. Cookery.
- 12. Bakery and Confectionary,
- 13. Industrial House-keeping.
- 14. Travel and Tourism.

GROUP V : FISHERIES

- 15. Inland Fisheries.
- 16. Fish Processing Technology.

GROUP VI : PARA-MEDICAL

- 17. Medical Laboratory Technician.
- 18. X-ray Technician.
- 19. Opthalmic Technician,
- 20. Creach and Pre-school Management.

In Nagpur district Minimum Competancy Vocational Courses has been introduced since 1988-89. The details of the institutes and the courses introduced is given in following table:-

TABLE 4.2

| 1000 1400 1400 1414 | | emps profes states . | Mine alone from carri pring pulser | | |
|---------------------|--------|---|------------------------------------|---|--------------------|
| Sr. No. | Tahsil | Name of Institute | Year of Starting | | Intake Capacity |
| 1 | Z | 3 | 4 | 5 | 6 |
| 1) | Nagpun | 1) Govt.Tech. Highschool. Nagpur. | 1988-89 | 1) Mech.Tech. 2) Electronics Technology 3) M.&R. E.D.A | 20 20 . 20 |
| | | 2) Anjuman Jr. College Nagpur | | 1)Mech.Tech. 2) Electronics Technology 3) M.&R. E.D.A | 20 20 . 20 |
| | | 3) New English High School Nagpur | | 1) Electronics Technology 2) M.&R. E.D.A 3) A/C & Audit: | . 2Ø |
| | | 4) Ramnagar Bharat- Vidualaya Nagpur | 1988-89 | 1) Electronics Technology 2) A/C & Audit: 3) Bakery & Confectiary | 20 ing 20 20 |
| | | 5) Sindhi Hind High School Nagpur | i 1988-89 | 1) Electronics Technology 2) M. & R. E.D 3) Auto Engg.Te | |

| 6 . |) Baba-Nanak Jr. College, Nadbur | 1 988 -89 | | Electronics Technology M.&R. EDA | 2Ø 2Ø |
|--|---|--|----------------------------|--|----------|
| | | | | A/C & Auditing | 2Ø |
| 7: | Dharampeth Hidh School | 1988-89 | 1) | Electronics Technologu | 2Ø |
| | Nagpur | 1989-90 | 2) | M.&R. EDĀ | 2Ø |
| | | 1989 -9Ø | 3) | A/C & Auditing | 2Ø |
| 8.3 | Dinanath High School | 1989-90 | 1) | Electronics Technologu | 2ø |
| | Nagpur | | 2) | Marketing & | |
| | | | | Salesmanship | 2Ø |
| | | | (ن | Institutional Housekeepina | 2ø |
| | | | | udazekeebtud | 2.90 |
| 9) | Dharampeth Arts.Com& | 198 9 -9Ø | 1) | Electronics Technologu | 2Ø |
| | Sci. College, | | 2) | M.&R.E.D.A. | 2Ø |
| | Nagour | | 3) | Inland | |
| | | | | Fisheries | 2Ø |
| 2) Katol 10) | Govt.Tech. | 1988-89 | 1) | Auto Engg. | |
| | H.S.Centre | | ~ . | Technician | 20 |
| | Katol | | | M.&R.E.D.A. | 20 |
| Miles usua apaga wang salah salah salah salah salah salah salah daga salah salah salah salah salah salah salah | ay under think word again stade year state, galler grown about think again some and | mit litere prodit oppost games actic appeal from the | کر جیرو سیریسیرہ سیدرین | Mech. Tech. | 2Ø |
| Tatal | Causes | | Înt | ske | 6ØØ |

4.5 Other Vocational Education & Training facilities:

Details of other Vocational Education & Training facilities available in Nagour district is given below.

| Sr. No. | Tupe of Institution 2 | Tahsil 3 | Total No. of Instt. 4 | Location | |
|------------|-------------------------------------|------------------------------|-----------------------------|------------|-------------|
| | | | | Rural 5 | Urban 6 |
| 1. | Polytechnic | Nagpur | 7 | | 7 |
| | | Katol Umred Kamptee | 1 2 1 | • | 1 2 1 |
| 2. | Industrial Training Institutes | Nagpur Katol | 5 | | 5 |
| | at transfer at the safe of safe and | Umred Ramtek | 1 1 | **** | 1 1 |
| ᠍. | Technical High- Schools. | Nagour Saoner | 4 1 | | 4 1 |
| | | Katol Narkhed Deolapar | 1 1 | | 1 1 |
| 4 . | Agriculture School | Hindaua | 1 | 1 | |

| ***** ***** ***** **** | NOTE THAT THE THE THE THE THE THE THE THE THE TH | raped bloom basse bloom ender that, while all, while all or all an expensions using which we | ayo) angas, pamino penyri ddiddin endesa pangay gappad mpilan badasa | | | |
|------------------------|---|---|--|---|--|--------|
| 1 | 2 | 3 | 4 | 5 | 6 | |
| 5. | Veterinary Research- Institute. | Nagpur Ramtek | 1 1 | | 1 1 | • •••• |
| 6. | Public Health Institute. | Nagour | 1 | 17-04 | 1 | |
| 7. | Radio Audio Servicing | Nagpur | 5 | | 5 | |
| 8. | Television Servicing | Nagpur | 2 | ***** | 2 | |
| 9. | Hand Composing | Nagour | 1 | ***** | 1 | |
| 10. | Beauty Culture | Nagiona | 1 | | 1 | |
| 11. | Photography | Nagpur | 1 | | 1 | |
| 12. | Craft & Handicraft | Nagpur | 3 | | 3 | |
| 13. | Textile Training N Institute. | agpur | 1 | 48014 | 1 | |
| 14. | Computer Training Institute. | Nagpur | 7 | - | 7 | |
| 15. | Phármacy (D.Pharm.) | Nagpur | 1 | | 1 | |
| 16. | Printing Institute | Nagpur | 1 | ***** | 1 | |
| 17. | Tailoring School | Nagpur Katol Kalmeshwar Bhivapur Narkhed Kuhi Hingana Saoner Kamptee Parshioni Ramtek Mouda Umred | 113 16 5 3 8 6 25 9 6 9 5 | 12 4 2 - 2 1 1 9 2 3 7 1 | 1Ø1 12 3 6 5 1 6 7 3 2 4 | |
| 18. | National Environment- al Engg.& Research Institute. | Nagpur | 1 | | 1 | |
| 19. | Central Food Tech- nology Research Instt | Nagpur • | 1 | | 1 | |
| 20. | Central Fuel Research Institute. | Nagpur | 1 | ******* | 1 | |
| 21. | Central Agmark Laboratory. | Nagpur | 1 | | 1. | |
| 22. | Cotton Research Centre of C.S.I.R. | Nagpur | 1 | | 1 | |

| 1 | 2 | | 4 | 5 | 6 |
|-----|---|--|--|-------------|--|
| 23. | Fruit Preservation & Training Centre. | Nagpur | 1 | | 1 |
| 24. | Mineral & Metal Trg. Corporation. | Nagpur | 1 | ****** | i |
| 25. | Small Industries Service Institute. | Nagpur | i . | | 1 |
| 26. | One Year & Two Year Diploma Courses under Board of Tech. Exams. | Nagpur | 3 | | 3 |
| 27. | Tupewriting Instts. | Nagpur Kamptee Saoner Parshioni Ramtek Kalmeshwar Katol Mouda Umred Kuhi Bhivapur Narkhed | 266 12 2 4 4 3 3 1 7 2 2 | | 266 12 2 4 4 3 3 1 7 2 2 |

4.6 : OTHER PROFESSIONAL INSTITUTES :

Following Professional Colleges/Institutes are functioning in Nagpur District.

| Sr. No. | Name of Institute | Tahsil | Total No. of Instt. | Location | |
|------------|--------------------------------------|------------------|---------------------|----------|-------|
| 140.7 A | | | CT 110567 | Rural | Urban |
| 1. | Engineering College | Nagpur Ramtek | 4 | | 4 |
| 2. | Pharmacy College | Nagpur | 1 | | 1 |
| 3. | Agriculture College | Nagpur | 1 | | 1 |
| 4. | Animal Science Veterinary College | Nagpur | 1 | _ | 1 |
| 5. | Medical College (Allopathic) | Nagpur | 2 | ***** | 2 |
| 6. | Dental College | Nagpur | 1 | u00 Ng | 1 |
| 7. | Auurved College | Nagpur | 2 | ***** | 2 |
| 8. | Homoeopathy College | Nagpur | 1 | 48.764 | 1 |
| 9. | Fire Service College | Nagour | 1 | | 1 |

| Sr. No. | Name of Institute | Tahsil | | Location | |
|------------|--|--|-----------|---------------|--------|
| 14.77 | . Whi the day one are the too tag two too and any too the same and the | et time ones part total trade trade control co | of Instt. | Rural | Urban |
| 1Ø. | Chitrakala(Fine Arts) Mahavidyalaya. | Nagpur | i | **** | 1 |
| 11. | Home Science College | Nagpur | 1 | ***** | 1 |
| 12. | Law College | Nagpur | 1 | **** | i |
| 13. | Laxminarayan Instt. of Technology. | Nagpur | 1 | 800-01 | 1 |
| 14. | Physical Education | Nagpur | 2 | adente. | 2 |
| 15. | Diploma in Education | Nagpur | 9 | | 9 |
| 16. | B.Ed. College | Nagpur Katol | 2 1 | ***** | 2 1 |

4.7 FUTURE PROSPECTS :

Issues involved -

It is needless to emphasize the importance of very basic requirment of infrastructure in conducting all vocational training programmes, adequate accommodation, availability of required tools and equipment and raw material, learning and teaching aids, trained and qualified staff and to maintain all the aforesaid things, good financial condition of the institute. If the institute lacks one of the above essentials, the student emerging out will not be acceptable in "World of Work" and ultimately a waste. The Government must extend co-operation/financial assistance to the educational institution for proper implementation of vocational courses.

4.8 APPROACH IN NUT-SHELL:

The objectives and methodology adopted in conducting vocational survey have seen discussed previously. Efforts were made to illuminate the factual vocations essential with respect to the economic set-up of dustrict and aspiration of the people. The manpower requirements was estimated through various shedules and

through discussions with various officers, knowledgeable people, commercial/industrial establishments etc. responsible for or associated with the district development.

Also an Ad-hoc Committee was appointed under the Chairman-ship of Collector comprising of various district level officers of developmental departments.

The Sub-Committee of the Ad-hoc Committee were formed to study in detail the various sectors of economu (1) Primaru Sector, (2) Secondary sector and (3) Tertiary sector. Officers-Members of these committees were implementing the devlopment schemes in the district and had knowledge of district economy, aspiration of public and hence they were helpful to obtain authentic opinion of the present situation and future development of the district. Besides discussion with experts and knowledgeable persons of various fields, office bearers of industrial and other associates, progressive cultivators, Block Development Officers, owner/manager of selected industrial units helped to assess manpower requirment and identification of courses. addition to all this, the secondary data already available with various Government departments, helped finallu to draw a possible picture of manpower requirment of the district and courses at various levels. The whole position was again discussed in the Ad-hoc Committee meeting and conclusion drawn after through discussions.

4.9 The economic development of the district is principally depends upon natural resources and progress made in various sectors viz.— (1) Primary Sector, (2) Secondary sector and (3) Tertiary Sector. These economic development sectors were examined for identifications of courses suitable to the district.

I) PRIMARY SECTOR :

This sector covers mainly agriculture, animal husbandry, fishery, forestry, plantations, mining and quarrying. To study this sector the strategy adopted included contacting knowledge—able persons, Block Development Officers, Progressive Cultivators from each tabsil, Project Director of D.R.D.A. and district officer in-charge of execution of various schemes of development in agriculture and allied activities like animal husbandry, fishery, dairying etc. The official statistics available with various departments also helped enormously.

The consultations and duscussions were held with the above personnel and their views were studied and analysed in the prospective of vocations and expected vocational courses, their probable level and manpower requirment were determined and tabulised.

4.10 AGRICULTURE :

Agriculture mainly covers all branches of applied activities which deal with scientific cultivation of land, water management for production of food, fodder, fibre and other cash crops.

Allied to this activity are animal husbandary, fisheries, forestry, agriculture engineering, post harvest technology, home economics, agriculture products—marketing, co-operative societies and others. Growth of agricultre depends on available technology and inputs which have assumed highly specialised character. In the sense, its development is equally complex phenomenon as industrial development and demands multi-disciplinary education for tackling various challanges involved in the growth of agriculature.

Orange is the main fruit in Nagpur district and is popular for the production of oranges all over the country. NOGA factory for processing of fruits and vegetables is already in force in Nagpur. Total product of the factory is 3640 tonnes per year.

Various types of jams, squashes, syrups, canned fruits and vegetables are prepared in the factory.

Also M/s Vasantrao Dada Sahakari Santra Prakriya Karkhana will be started in future at Narkhed. Considering the production of orange and indigenous food, fruits and vegetables processing and presrvation, vocational courses have lot of scope in the district.

The yield of food-grain crops can be substantially increased by using improved seeds, application of adequate doses of fertilizers and adoption of plant protection measures. Seed production of hybrid jowar, cotton, tur, mug, groundnut and soyabeen is the demand of the district and hence it requires skilled manpower for seed production.

More than 60 percent of total cropped area is dry land in the district. At present only 20 percent of the cropped area is irrigated by different means. Irrigated area will be increased to 40 percent in future.

Soil Conservation is the basic of any programme of improving agricultural production. Since agriculture is carried-out on varying types of land, it is imperative that the productivity of these land should not only be maintained but also improved by various methods of soil conservation and water management.

Considering above justification agro-climatic condition and crop development of agriculture in Nagpur district and also taking into consideration the opinion of progressive cultivators, knowledgeable persons and valuable suggestions of the members of sub/committees, the following courses are identified in the field of agriculture.

- 1) Fruit, food and vegetables processing and preservation.
- 2) Seed Production Technology.
- 3) Farm Supervisor/plant protection-Technique & Management. (600.20 and 600.10).

- 4) Crop Science.
- 5) Horticulture Supervisor (602.10 and 610.30)
- 6) Plasticulture,
- 7) Agro-Science Centre Supervisor/Agriculture Implements Production and repairs.
- 8) Dry Land Farming.
- 9) Soil Conservation and Water Management.
 - (Note: Figures in the bracket are National classification of occupation codes as per compendivem prepared by the Directorate General of Employment & Training, New Delhi.)

4.11 ANIMAL HUSBANDRY & DAIRY DEVELOPMENT :

As per Live-stock Census conducted in 1982. total Livestock in the district was 1070037 and poultru 377015. However. looking at the workers engaged in this sector as per population census, there is a decreasing trend of the workers engaged. The main reason for this is that animal husbandru provides supplementry vocation and can not by itself provide full-fledged vocations unless organised on substantial large scale. This sector is important from the point of view of supplementry income in the persons engaged in other occupations. The opportunity in this occupation is vitallu linked with necessaru veterinaru infrastructure particularly animal health cover available in the district, supply of nutrient fodder and feed for healthy growth of live-stock. Government of Maharashtra through media of five years plan scheme is attempting to give boost to this supplimentry occupation for agriculture and landless labourers. Systematic attempt is being made in organising dairy-societies. collection and distribution of milk, improvement in breed and rearing live-stock and providing health cover and other incentives.

Dairy Development Department has organised 199 dairy societies upto 87-88 with 13017 members in the district. This

department has fixed target of 275 dairy societies with 22,000 members upto 1990-91. It collects milk on 14 different milk routes. Govt. Milk Scheme, Nagpur has its present storing capacity of 50,000 liters milk per day and it plans to increase its capacity upto 1,00,000 litres per day. There are also 3 chilling units in Saoner and Katol tahsils having the total capacity of 2500 litres per day. There is also demand for milk products like white butter, table butter, Ghee, Shrikhand, paneer, energy milk etc.

Thus, there is an ample scope for dairy development and allied activities like cross-breed and fodder development in the district.

Keeping in view, the above justification suggestions made by sub-committee, knowledgeable persons in the field of dairy development and veterinary development following vocational courses are identified:

- 1) Animal Science & Dairying.
- 2) Live-stock Supervisor (651.10).
- 3) Poultru Manader/Subervisor(605.10).
- 4) Fodder Development and preparation of feed.
- 5) Veterinary Assistant.
- 6) Dairy Supervisor (622.10)

4.12 FORESTRY:

The forest plays an important role in the overall development of the agriculture apart from protecting land against erosion and floods which helps to establish agriculture. Forests are valuable productive resources in economy. Total area of forest in Nagpur district is 17.46 percent of the total geographical area of the district. It is nearly equal to the State average of 17.4 percent.

Major forestry is managed by the Government and Forest

Development Corporation. They have got their training institutes

for their required man-power like forest rangers and forest

guards. However, there is some scope for the training in social

forestry as the existing forest cannot meet the need of society

in spite of wood and fodder, so it is necessary to take up social

forestry in massive stage on all private and community waste land.

Sub-committee and knowledgeable persons suggested that the develop
ment of nurseries for social forestry is essential.

Keeping in view the above recommendations, following vocational course is identified.

1) Nursery Supervisor (652.10).

4.13 FISHERIES:

Inland fresh water fisheries does not compete with the marine fisheries, yet it can be developed in this district. Rivers, tanks and reservoirs are the principal sources of inland water fisheries. There are 416 tanks and perennial river length of 690 km is suitable for inland fisheries in the district. Similarly, 8486 hectares area of ponds, lakes and reservoirs is also suitable for inland fisheries. Upto 1987-88, 5791 hectares area is brought under pisci-culture. There is much scope for development of fish ponds along the side of main irrigation canal of Pench project in Parshioni, Ramtek and Mouda block. There are 60 fisheries co-operative societies with 5955 members. However, fish production was 4175 M.Tonnes during 1987-88. This production can be increased if all available water area is utilised and skilled man-power is made available.

Fisheries Development Department and the Fish Farmers Development Agencies are actively implementing the schemes of 1) production and supply of fish seeds, 2) marketing of fish through

societies and 3) providing subsidies and finance for purchasing of mylon twins and construction of wooden boats.

Keeping in view the above justification and recomendations of concerned knowledgeable persons and Sub-Committee, following vocational course is identified for the district.

1) Inland Fisheries.

4.14 CU-UPERATION:

Nagpur district has made good progress in the field of cooperation with a view to bring about a change in the socio-ecomomic life in the district. This covers practically all aspects
of economy like banking, agriculture, dairy, farming, processing
of agricultural products and house-building etc. There are 3409
co-operative societies of different types in the district. Each
society requires Secretary. Generally, S.S.C. passed candidates
recruited for this post. For every two districts, there is a
Co-operative Training Institute under Co-operative Board which
imparts training to the secretaries. The training imparted by
such co-operative institutes is sufficient to meet the needs of
the societies. Therefore, there is no scope to introduce any
additional vocational course.

4.15 MINING AND QUARRYING :

The district is rich in mineral wealth. Coal, manganese, iron-ore, lime-stone and clay deposits are the main minerals found in the district. The exploration activity involves numbers of sub-activities like location of mineral grounds, assessment of mineral potential both in terms of qualitative and quantitative data by indicating total geographical surveys, collection of survey samples, exploration by fitting, trenching and drilling collection of sub-surveys samples, analysis and testing of rocks/minerals samples in laboratory.

Production of major and minor minerals was 35.6 lakh tonnes and about 14 lakhs tonnes respectively during 1987-88 from the mines of the district and its revenue realised during 1987-88 was Rs. 2 Crores 37 lakhs.

Coal deposits is found in Kamptee and Umred coal-fields.

Manganese is found in Khapa and Ramtek tahsils and iron-ore

is found in Bhivapur tahsil. Lime-stone is also found in number of places in Saoner and Ramtek tahsil.

Considering the need of mining and quarrying activities in the district, following courses are identified:

- i) Crane Operator.
- 2) Dumper Operator,
- 3) Pump Operator.
- 4) Driller/Drilling Mechanic,
- Blasting Technician.

4.16 MANPUWER FURECASTING :

Since 1952, we have adopted the path of economic development through the various five year plan schemes, but no attempts have been made to forecast requirement for middle level manpower at micro-level.

In fact, effective implementation of economic planning depends upon manpower planning which draws its blood and flesh from educational planning, in absence of micro-level planning, dis-equilibrium prevailed among these factors which has led to top sided development in some sectors. Now the attempt is made to forecast manpower requirement for various courses identified above.

In order to estimate the man-power requirements two approaches, viz.(1) Programmatic and (11) Normatic are possible.

Using these approaches, man-power requirements for different courses are estimated.

TABLE 4.2

MAN-POWER REQUIREMENT

| Sr. | Name of Course | Man-power Requirement |
|-----------|--|---|
| No. 1. | 2 . | 3. |
| 1. | Fruit, Food and Vegetable processing & Preservation. | - Average uield of fruit, oil-seeds chillies & vegetables - 80,000 M.T. per uear. One trained person is required for every 2000 M.T. of fruit & vegetable processing and preservation. Hence about 200 persons would be required for next five years. |
| 2. | Seed production Technolgy. | - Requirement of seed production is about 7000 quintals. One trained person will be required for 350 quintalseed, hence about 100 persons will be required for next five years |
| 3. | Plant protection Technique and Management/Farm Supervisor. | - Total cultivable are is 557300 Hect. One trained person will be regired for supervision of 5000 Hect. of cultivable area. Hence about 400 persons will be required for next five years. |
| 4. | Crop Science | - Same as above. |
| 5. | Horticulture Supervisor. | - Total area under fruit and vegetable 17600 Hect. One trained person will be required for about 200 Hect. Hence, about 400 persons will be required for next five years. |
| 6. | Plasti-Culture · | - lotal area irrigated of the district is Y0061 Hect. Une trained person will be required for 2000 Hect. |

Hence, 200 persons will be required

for next five years.

- 7. Adro-Service Centre Supervisor/ Adriculture Implements Production & Repairing.
 - Total cutivable area is 557300 Hect. and 1 lakh adricultural implements including 18054 electric motor pumps and 81 tractors are there in the district. One trained person will be required for 5000 Hectares. Hence. about 400 persons will be required for next five uears.
- 8. Dru Land Farmina

There are 10 farming co-operative societies. Tendencu of dru land fruit farming is increasing in the district. Hence about 100 persons will be required for next five wears.

- 9. and Water Management
- Soil Conservation Total bundable area of the district is 278 hectares. 18650 hectares area is under the control of Command Area Development Authority (CADA). This area will increased after completion of new irrigation project. Hence, about 200 persons will be required for next five wears.
- 10. Animal Science and Pairuing
- There are 89979 milch animals and 199 dairy societies. Une trained person will be required for 1000 milch animals. Hence, about 400 persons will be required for next five years.
- 11. Live-Stock Supervisor
- Total live-stock is 1,070,037. One trained person will be required for 10.000 cows and buffaloes. Hence, about 500 persons will be required for next five years.
- 12. Poultru Subervisor
- There are 377,015 birds and 10 poultry societies in the district. One trained person will be required for 10,000 birds. Hence, nearly 200 trained persons will be required for next five uears.
- 13. and preparation of feed.
- Fodder Development For every milch animal 10 Kg. fodder and feed is required per day. 900 auintals fodder & feed is reauired per day in the district. Hence. about 200 persons will be required for next five years.
- 14. Veterinaru Assistant
- There are 73 veterinary hospitals. dispensaries and aid-centres in the district, and total Live-stock is 1.070.037 for every 15000 animals one veterinary doctor is required and for one doctor one veterinary assistant is required. Hence, about 400 persons will be required for next five wears.

- 15. Nursery Supervisor
- There are 300 nurseries. Une supervisor will be regired for five nurseries. Hence, 300 persons will be required for next five years.
- 16. Inland Fishery
- lotal area suitable for fish culture is 11905 hectares. Considering one trained person is required for 500 hectares. Hence, 100 persons will be required for next five years.
- 17. Crane Operator
- Production of major minerals from minnes is about 35.6 lakh tonnes and production of minor minerals is about 14 lakh tonnes. Each of these categories will require at least 100 persons for next five years.
- 18. Dumper Operator
- Same as above.
- 19. Pump Operator
- Same as above.
- 20. Driller/Drilling
- Same as above.
- Mechanic
- 21. Blasting Technician Same as above.

11. SECUNDARY SECTOR:

This is an important sector in view of the employment and self-employment avenues. This sector covers manufacture, processing and servicing industries in the district. As per 1980 Economic Census, there were 37,148 establishments having 117,232 workers therein. As per 1981 Population Census about 5.4 percent of the total main workers were engaged in the above activities in the district.

4.17 In order to study this sector, three-fold strategy was adopted such as (1) to obtain data from primary source, two types of schedules designed, one schedule to study existing establishments and other for the prospective establishments with a view to know their requirements of man-power: (2) the view and opinions on the existing future need were collected from the knowledgeable persons and (3) secondary data available with Industries department and various financial institutes in the district also studied.

Briefly, the methodology adopted for survey was as follows:-

- Selection of establishments through the Inspector of Factories. District Industries Centre and the Director of Employment.
- Assessing industry-wise shortages of occupations.
- 3) Ascertaining Employer's views
 - a) Selection preference in employment,
 - b) Adequacy of existing training programmes,
 - c) Gaps in practical aspects and training programmes observed by employers.
 - d) Demands for occupations for various categories of industries.
- 4) Views of knowledgeable persons.
- 5) Views of Ad-hoc committee of Officers under the Chairmanship of Collector.
- 4.18 As it is well-known that "District Industries Centre" in each district working under the Directorate of Industries, is mainly responsible for the development of small scale industries. This District Industries Centre maintains lists of permanent establishments as well as provisional establishments, that is establishments which will come up in future. This list was cross-checked with the list available with Factory Inspector to avoid duplication of industry for survey work.

All the establishments were classified as per National Classification of Industries and further analysed tabsil-wise.

In order to examine courses emerged from above study, a Sub-Committee under Chairmanship of the President, Vidarbha Industries Association, Nagpur was formed. He got the expertise from various industries prominent in the district and new up-coming industries also. Secondary data available with DIC, MIDC, MSSIDC, MSFC, SICOM and other catalytic agents was used in arriving at the decision various courses and man-power required. While studying this sector, it was experienced that the employers generally do not disclose to what type of occupations with their educational qualifications would be needed by them in near future. Also they do not reveal their expansion plans as it depends upon the Govt. policy regarding taxation, incentives, supply of raw material, export and import etc. Thus the findings of the survey will best indicate the broad possibilities.

4.19 EXISTING INDUSTRIAL STATUS :

Industrial development of the district is mostly confined to urban areas of the district. Dut of 56 large and medium scale industries in the district, 53 industries are located at Nagpur only. Also out of 3833 small scale industries 92 percent SSI units are concentrated in Nagpur tahsil. Rural area is not much industrialised and depend mostly on agriculture. The non agricultural employment in rural area is however, in traditional crafts with locally available raw material and by and large for local demands. Traditional crafts are conducted on house-hold and cottage industry and included handloom weaving, oil-ghanies, tanning and leather goods manufacturing, pottery, bricks manufacturing cane and bamboo work, dueing and printing etc. Nagpur handloom saries are famous and have good market all over the State. The well known silk-bounded cloth is exported to various parts of the country.

The large and medium scale units comprising of Cotton textile, metal and allow products, paper-mill, antibiotics and pharmaceuticals, plastic products, machine parts, electronic instruments manufacturing etc.

Amongst small scale industries major industeries are saw mills, printing press, manufacture of house hold coal, manufacture

of bricks, metal fabrication, manufacture of wood product and furniture, bakery and confectionary, manufacture of textile products, metal and allow industeries, paper and paper products and refrigeration and air-conditioning parts and components.

An Electronics Zone is being developed by M.I.D.C. Nagpur. There are some electronics industerial units. Prominent among them are (1) Radio Communication project by MELIKUN, and (2) Acharya Electronics. Apart from this, there are number of small scale units having wide range of highly sophisticated testing instruments. The lest and Development Centre financed by Electronics Commission housed at Visvesvaraya Regional College of Engineering, Nagpur with sophisticated testing and measuring instruments. Apart form this testing facility of specialised nature is available at National Environmental Engineering and Research Institute and Mineral Exploration Corporation Ltd., Nagpur.

(1) Existing status of large and medium scale industries as on 1-12-88.

| Sr. No. | Category | , 1965, 1966, 1966, 1966, 1966, 1966, 1966, 1966, 1966, 1966, 1966, 1966, 1966, 1966, 1966, 1966, 1966, 1966, 1 | No. of units | Employment |
|-----------------------------|----------------------|---|--------------|-------------|
| 1. | Agro-based | | 7 | 14,396 |
| 2. | Forest based | | 5 | 841 |
| 3. | Mineral based | | *** | n, min |
| 4. | Food Industries | | 5 | 2.474 |
| 5. | Engineering & Allied | | 19 | 6,071 |
| 6. | Chemical | | 2 | 139 |
| 7. | Animal Husbandry | | **** | 12.744 |
| 8. | Building Material | | **** | |
| 9. | Other Industries | | 17 | 7,847 |
| PP No. 24699 (Velja 4861) w | Total | r. yang 846- y and be ing bedak inga anter karan Mangapangan | 56 | 31,768 |

2) Existing Status of Small Scale Industries as on 31-3-88.

| Sr. No. | Category | No. of Units | Employment |
|----------------------------------|----------------------|--------------|------------|
| 1. | Hgro based | 267 | 4,737 |
| 2. | Forest based | 351 | 5,052 |
| 3. | Mineral based | 5ø | 1,884 |
| 4. | Food Industry | 184 | 4,152 |
| 5. | Engineering & Allied | 1,505 | 29,806 |
| 6. | Chemical | 617 | 11,124 |
| 7. | Animal Husbandry | 26 | 696 |
| 8. | Building Material | 144 | 4,148 |
| 9. | Other Industries | 689 | 12,818 |
| pobler space ample expen andre s | Total | 3,833 | 74,417 |

3) Existing Status of Cottage & Village Industry as on 31-3-88.

| Sr. No. | Categoru | No. of Units | Employment |
|---|------------------|---------------|-------------|
| 1. | Agro based | 83 | 185 |
| 2. | Forest based | 45 5 。 | 98 Ø |
| 3. | Chemical | 5 | 24 |
| 4. | Animal Husbandru | 2 Ø1 | 474 |
| 5. | Other Industries | 66 | 152 |
| *************************************** | Total | 81Ø | 4 24 6 |
| - | IUUAI | 91% | 1,815 |

4) Tahsil-wise details of establishments having less than 10 and more than 10 employees ($a_b = m \cdot march-aa$).

| Sr. No. | Tahsil | No. of Establishments | |
|------------|---|---|-------------------------|
| | | Less than 10 workers | More than 10 workers |
| 1. | Nagpur | 2,716 | 728 |
| 2. | Kalmeshwar | 34 | 21 |
| 3. | Kamptee | 48 | 26 |
| 4. | Saoner | 33 | 8 |
| 5. | Katol | 16 | 4 |
| 6. | Kuhi | 9 | |
| 7. | Umred | 35 | 7 |
| 8. | Ramtek | 35 | 14 |
| 9. | Bhiyapur | გ | 5 |
| ıø. | Parshioni | 18 | 12 |
| 11. | Mouda | 7 | 13 |
| 12. | Narkhed | 4 | 1 |
| 13. | Hingana | 6 | 11 |
| | s times times prime times being light have bade made justice judge light light light paints drow what times times | ning rive water stage within balls boom tiged body young think place page, upon myord angue gother copy; gother these body gother | |

5. The detail industrial pattern of the district is as follows.

It includes large, medium and small scale industries.

| Sr. No. | NIC Code | Industry Category | No. of units. |
|------------|------------|---|---------------|
| 1. | 2. | 3 . | 4. |
| 1. | 100 to 199 | Mining | 3Ø |
| 2. | 200 | Processing & Preservation of meat | 2 |
| 3. | 2Ø1 | Manufacture of dairy product | 16 |
| 4. | 202 | Canning & Preservation of fruit & vegetables | 15 |
| 5. | 204 | Dal Mill | 7Ø |
| 6. | 205 & 209 | Manufacture of Bakery & . Confectionery product. | 81 |

| 1. | 2. | 3. | 4. |
|---|--|--|------------------------------------|
| COMP MANY STATE STATE STATE STATE STATE STATE | 990 MANA BALE, CARL, CIPCA ELVING BANGO 33000 AMPER ERALY SEMES AIRSON GARGA FAREIS PA | | come with more price supply forth- |
| 7. | 206 | Sugar Factory | 2 |
| 8. | 211 | Oil Mill | . 37 |
| 9. | 212 | Tea Processing | 1 |
| 1Ø. | 215 | Manufacture of Ice | 18 |
| 11. | 216 | Manufacture of animal food | 8 |
| 12. | 220 to 223 | Manufacture of Spirit, liquor, Country liquor and wine. | 1Ø |
| 13. | 224 | Manufacture of Soft Drinks | 26 |
| 14. | 226 to 229 | Manufacture of bidi & tobacco | 6 |
| 15. | 23Ø | Cotton Ginning and Pressing | 6 |
| 16. | 231 to 2 39 | Cotton Spinning, Dyeing, bleaching and weaving. | 5Ø |
| 17. | 240 to 249 | Manufacture of wool, silk & synthetic fibre. | 35 |
| 18. | 260 to 269 | Mnufacture of textile products | 74 |
| 19. | 27Ø | Manufacture of Plywood | 1 |
| 2Ø. | 271 | Saw Mills | 5Ø5 |
| 21. | 272 to 279 | Manufacture of wood product and furniture | 75 |
| 22. | 280 to 283 | Manufacture of paper and paper product. | 74 |
| 23. | 284 to 286 | Printing Press | 315 |
| 24. | 287 | Engraving, etching & Block-making. | 14 |
| 25. | 288 | Book binding | 19 |
| 26. | 290 to 299 | Leather industries | 26 |
| 27 | 300 to 307 | Manufacture of Rubber, Plastic, Petroleum & Coal. | 325 |
| 28. | 310 | Manufacture of Chemicals | 37 |
| 29. | 311 | Manufacture of fertilizer & Pesticides. | 13 |
| ЗØ. | 312 | Mfr. of paints & varnishes | 28 |
| 31. | 313 | Mfr. of drugs & medicines | 36 |

| 1. | Z. | 3 . 4 |
|--------------------------------------|--------------------|---|
| 32. | 314 & 315 | Manufacture of Soap, tooth-paste, 66 Shampoo and edible oil. |
| 33. | 32Ø to 329 | Mfr. of non-metalic mineral 268 (Bricks, cement, lime & glass) |
| 34. | 33Ø to 33 9 | Metal and Alloy industries 203 |
| 35. | 340 to 349 | Metal fabrication products 1087 and parts. |
| 36. | 35ø | Manufacture of Agriculture- 20 machinary & equipments. |
| 37. | 351 to 357 | Manufacture of Machine tools 8 |
| 3 8 . | 352 to 354 | Mfr. of Machinery 55 |
| 3 9. | 355 | Mfr. of Refrigerator, Air- 64 conditioner parts & components. |
| 4Ø. | 360 to 363 | Mfr. of Elect. Machinery. 74 Appratus & appliances. |
| 41. | 364 | Mfr. of Radio, T.V. & Transistor 18 |
| 42. | 366 & 367 | Mfr. of Electronic Components. 8 & Control instruments. |
| 43. | 37Ø to 379 | Mfr. of Transport equipment parts 32 |
| 44. | 38Ø | Mfr. of medical, surgical and Scientific equipments. |
| 45. | 387 | Manufacture of Stationery articles 17 |
| 46. | 41.0 | Domestic gas filling and distribution. |
| DOGS gyagg godd bladt brake brake sa | Total | 3889 |

4.20 PROSPECTIVE INDUSTRIES :

Prospective establishments really indicate emerging occupations. Sugar, auto tyre & tubes, cement, cermaic, casting and fruit (orange) processing industries are registered and likely to be started in the district.

Provisional units registered as on 31-3-88.

| Sr. No. | Category | No. of units |
|------------|------------------------|--------------|
| 1. | Agro based | 438 |
| 2. | Forest based | 491 |
| 3. | Mineral based | 264 |
| 4. | Food Industries | 5Ø8 |
| 5. | Engineering and Allied | 3,296 |
| 6. | Chemical | 1,237 |
| 7. | Animal Husbandry | 9ø |
| 8. | Building material | 464 |
| 9. | Other Industries | 1,364 |
| | | |

4.21 VIEWS OF EMPLOYERS !

The views of employers on various items were collected in the prescribed schedules. They are summarised below for information.

- (a) Most of the employers told that mode of recruitment upto supervisory cadres was by promotional channel. The recruitment to supervisory cadre was mostly by direct recruitment.
- (b) The employers, at a large expressed satisfaction about the adequacy of training institutes as I.T.I. for skilled workers. However, the employers opined the necessity of improvement/additions into the trades to cope-up the demand emerging out of developing technology. It was also reiterated the need of training for the jobs like Accountant, Salesman, Personnel Assistant, Receptionist etc. as management technique is also going to change.

(c) The opinion of the employers on man-power shortages, experience was also saught. The employers had experienced the shortages of man-power in respect of following occupations.

TABLE 4.3
Industry-wise Shortages in Occupations

| Sr. No. | Industry | Shortages in Occupations |
|------------|--|---|
| 1. | Metal Product & parts | i) Forging Expert, ii) Cold Rolling & Hot Rolling Operator. iii) Compressor Operator, iv) Electroplator, v) Heating Furnace Operator & Maintenance Mechanic, vi) Galvanising Mechanic. |
| 2. | Machinery. Machine Tools & Parts | i) Gear Hubbing Technician. ii) Mēdical Equipment Repairer. |
| 3. | Electric and Electronics Products | i) Repairer of Electric and Electronics products.ii) Service Technician,iii) Salesman. |
| 4. | Paper. Paper Products and orinting | i) Photo-litho Operator, ii) Camera Operator and Plate-maker, iii) Mono Operator, iv) Dark-room Worker, v) Colour Photographer, vi) Rulling and Folding Machine Operator. |
| 5. | Chemical and Chemical Products | i) Photo Composer, ii) Chemical Plant-Mainten- ance Supervisor, iii) Pharmaceutical Machine Operator, iv) Medicine Testing Expert. |
| 6. | Textile and Textile Products. | i) Dress Maker & Designer ii) Calico Printer. |
| 7. | Non-metallic Mineral Product | i) Dumper Operator,ii) Crane Operator. |
| 8. | Rubber, Plastic and Petroleum Product. | i) Ture Remoulding Mechanic,ii) Plastic Mould Maker,iii) Ceramic Machine Operator. |

- 9. Repair and Servicing i) Electronic Mechanic, ii) Electrical Equipment Mechanic.

4.22 VIEWS OF KNOWLEDGEABLE PERSONS :

The persons from various fields like education, construction, agriculture, industry, medical, mining etc. were contacted and their views were ascertained. They identified the demands for following occupations.

| Sr. No. | Industry | Occupations in demand |
|------------|---|---|
| 1. | Metal products & parts of machinery and equipments. | 1) Mining Machine Operator, 2) Electric Motor & Pump Repairer 3) Welder 4) Forger 5) Plastic processing Technician 6) Electric Equipment Repairer, 7) Medical Equipment Repairer. |
| 2. | Printing and Allied Industry. | Photo Litho Operator. Compositer. |
| 3. | Chemical Industry | 1) Chemical Plant Operator. |

The knowledgeable persons recommended following courses based on occupational needs.

| Sr. No. | Industru | Courses sugge ste d |
|------------|-------------------------|--|
| 1. | Metal Products & Parts. | 1) Maintenance & Repair of Ele- |
| | Machinery & Equipments. | ctric Domestic Appliances. |
| | | 2) Electronics Technician. |
| | | Gear Hobbing Technician. |
| | | 4) Mechanical Technology. |
| | | 5) Maintenance & Repair of Medi- cal Laboratoru Equipments. |
| | | 6) Fording Expert. |
| | | 7) Mining Machine Maintenance & Repair. |
| | · | 8) Dress-maker & Designer. |
| 2. | Printing | 1) Compositer. |
| | | 2) Block-maker, |
| | | |

3) Photo Litho Operator.

Chemical

of Communical Plant Operator,

4. Plastic

- 1) Plastic Processing Technique.
- 2) Plasic Mould-maker.
- 3) Fibre Glass Technician.

4.23 RECOMMENDATIONS FOR VOCATIONAL COURSES:

As indicated previously, survey could not pin-point the needs of vocations and level of competencies in a precise manner. The courses suggested are either for isolated vocations or of a highly qualified character and prima-facie terminal in nature. Still from available data and discussions with various authorities following courses can be introduced to meet man-power requirement.

| Sr. No. | | Courses recommended |
|------------|-----------------------------|---|
| 1. | Engineering | Mechanical Technology. Maintenance and Repair of Medical Laboratory-Equipments. Forging Expert. Gear Hobbing Technician. Mining Machine Maintenance and Repair. |
| 2. | Electrical and Electronics. | Electronics Technology. Maintenance & Repair of Electric Domestic Appliances. Radio & T.V. Mechanic. Computer Techniques. Maintenance and Repair of Pump & Electric Motor. Electro Plator. |
| 3. | Chemical | Galvanising Mechanic, Chemical Plant Operator, Photo Litho Operator, |
| 4. | Plastic | Plastic Mould Maker, Plastic Processing Technician Fibre Glass Technician. |
| 5. | Textile | Knitting with Machine. Dress Making & Designing. Calico Printer. |

MAN-POWER REQUIREMENT :

Considering the flow of various project and industries in near future in the district, the probable man-power requirement for next five years will be as below.

Engineering -

As for basic installation and development of all types of industries, the engineering industry is mainly responsible. There are 1505 small-scale and 19 large and medium scale industries in metal fabrication, product and parts. Also 3,296 SSI are provisionally registered in engineering and allied sector, and 3 large scale units are likely to be started soon in the district.

Considering above potential engineering technicians required for next five years in this sector in the district will be as follows:-

| 1) | Mechanical Technology - | 500 |
|----|---|-----|
| 2) | Maintenance & Repairs - of Medical Laboratory - equipments. | 200 |
| 3) | Forging Expert - | 100 |
| 4) | Gear Hobbing Technician | 100 |
| 5) | Mining Machine - Maintenance and Repair. | 100 |

2) Electrical and Electronics -

There are more than 100 small scale industries in this sector in the district. Electronics zone is declared at Nagpur. There is increasing demand of sales and service-man in this sector. The use of computer and electronics technology is rapidly increasing in every field of activity. The use of electric domestic appliances, T.V. and video is also increasing. Moreover, the

All India Radio station and T.V. relay station functioning in the district will also require skilled technicians.

Considering above potenttial, electrical and electronics technicians required for next five years in this sector in the district is as follows:

- 1) Electronics Technology -1000.
- 2) Maintenance & Repairs -1000, of Electric Domestic Appliances.
- 3) Radio & T.V. Mechanic 500
- 4) Computer Techniques 200
- 5) Maintenance & Repair of 500 Pump and Electric Motor
- 6) Electroplator 100

3) Chemical and Plastic -

There are 2 large and medium scale and 617 small scale units in this sector in the district. Steel is being fastly replaced by plastic and hence there is good scope for plastic industry. There are 1237 provisionally registered small scale industries in this sector in the district.

Considering above potential technicians required for next five years in this sector in the district will be as follows:

- 1) Galvanising Mechanic 100
- 2) Chemical Plant Operator 100
- 3) Photo Litho Operator 100
- 4) Plastic Mould Maker 200
- 5) Plastic Processing Technician- 200
- 6) Fibre Glass Technician 200

4) Textile -

There are 165 small scale units in this sector in the district. Nagpur handloom saries are famous and have a good market all over the State. The well-known silk bounded cloth of

Nagpur is sold in various parts of the country. Empress Mill and Model Mill located in Nagpur city are the largest composite mills employing more than 12000 workers. Besides, there are six large scale cotton-ginning and pressing units knitting, printing and dress making have sufficient scope in the district.

Considering above potential technicians required for next five years in this sector in the district will be as follows :-

- 1) Knitting with machine 500
- 2) Dress-making & Designining 500
- 3) Calico-printer 500
- 4.24 In Nagpur district, there are 5 Government and 2 private Industrial Training Institutes having 2012 and 645 in-take capacity respectively. The trades introduced in I.T.Is. are as follows.
- A) One Year duration :
- (1) Welder, (2) Moulder, (3) Carpenter, (4) Mech.Diesel,
- (5) Mech. Tractor, (6) Plumber, (7) Sheet-metal Worker,
- (8) Data Preparation and Computer Software, (9) Preservation of fruits and vegetables, (10) Dress-Making, (11) Book-binding,
- (12) Letter Press Machine Minder, (13) Hand Compositor.
- (14) Stenography (English), (15) Stenography (Marathi),
- (16) Secretarial Practice.

B) Two years duration :

- (1) Electrician, (2) Mech. (Instrument). (3) Draughtsman(civil)
- (4) Draughtsman(Mech.) (5) Surveyor, (6) Mech. Radio & T.V.
- (7) Mech. Refrigeration & Air Conditioning, (8) Mech. Grinder,
- (9) Tool and Die Maker, (10) Electronics, (11) Fitter
- (12) Turner, (13) Watch & Clock Repairer, (14) Mech. Motor Vehicle, (15) Building Construction, (16) Pattern Maker.
- (17) Wireman, (18) Painter(General), (19) Machinist.

These courses are of terminal nature. The SSC and non-SSC students are admitted in these courses. Due to proposed industrial development in the district and also the vacancies arising out of death/retirement/migration of the skilled workers in the existing industries, 5 to 10 percent of vacancies in the total strength of workers arises every year. Hence these courses need to be continued in the Industrial Training Institutes in the district.

In addition to above courses in I.T.I., following courses to meet the demand of existing and prospective industries in the district, need to be started.

- (1) Plastic Processing Operator,
- (2) Wireless Operator.
- (3) Mech. Millwright Maintenance,
- (4) Knitting with Machine.
- (5) Electroplator.
- (6) Auto-Electrician,
- (7) Farm Mechanic.

III. TERTIARY SECTOR :

4.25 TRADE AND COMMERCE :

Nagpur is one of the biggest districts of the State which have 14 tahsils having 16 urban towns. From the point of view of Trade and Commerce, towns like Nagpur, Katol, Saoner, Ramtek and Umred are more important. The chief atricle of export from the

district contain cotton bales, gas cylinders, steel pipes, handloom saries and cloth, mineral like coal and manganese and
oranges. Against this district imports steel plates, cotton yarn,
rice, machinery, plastic material, salt, sugar and kerosene oil
etc. Nagpur city is a big market place for clothe, ready-made wears,
food-grain, oranges and machinery parts. It is biggest city of
Vidarbha region and recently declared as second capital of
Maharashtra.

There are 220 branches of commercial banks in Nagpur district, out of which 121 branches are in Nagpur city and 99 branches are in semi-urban and rural area.

All sorts of organisations, big or small have to maintain record, correspond with public and private parties. For this purpose, commercial organisations required trained persons like Accountants, Office Assistants, Stenographers & typists, Salesman, Receptionists etc. are required under Trade and Commerce. Hence, the vocational courses suggested and the probable man power requirement for next five years in the district would be as follows—

- (1) Office Management 200
- (2) Stenography & Typewriting 500
- (3) Accounting & Auditing 500
- (4) Marketing & Salesmanship 500
- (5) Purchasing & Store-keeping 200
- (6) Secretarial Practice 200

4.26 TRANSPORT :

Transport sector is growing very fast and it is likely that this growth rate will be maintained due to the importance of industries. Nagpur district have the facility of Air travel and railways. Total road length in the district is 6769 km. out of which National Highways and State Highways road length is 1066 km. There are 128,319 two-wheelers and 30528 four-wheelers, out of which 9938 are trucks and lorries, 1308 tractors and 11,967 cars and

jeeps. Vechicles from neighbouring district and State plu through this district. Facility of vehicle repairs is very poor except well-organised workshops of P.W.D. and State Transport Corporation located at Nagpur. The Sub-Committee stressed the need of well organised vehicle repairing workshops in Nagpur and other important places in the district. This will require trained man power, therefore, courses like Auto Engineering Technician have scope in the district.

Considering the need and available infrastructure in the district, the following courses have been identified. The man-power requirement for the next five years will be as follows-

| (1) | Auto Engineering Technician | | 500 |
|-----|---------------------------------|------|-----|
| (2) | Body Building(vehicle) Mechanic | • | 200 |
| (3) | Heavy Vehicle Driver | **** | 500 |
| (4) | Tyre Remoulding & Vulcanising | | 500 |
| (5) | Transport Management | | 200 |

4.27 INSURANCE :

There is a scope for "General Insurance" course in this sector in the district. About 20 persons can opt self-employment in this sector. However, the course should be designed in accordance with the General Insurance Companies requirements.

The man-power requirement for the next five years in this sector will be about 500 persons.

4.28 CONSTRUCTION:

The Government of Maharashtra has accepted the idiology of 'District Planning' since fifth five year plan. The District Planning and Development Council consisting of Member of Parliament, M.L.A., and M.L.C. and representatives of different sectors of economy with the Collector of district as Member-Secretary. The responsibility to prepare the annual district plans on the

basis of guide-lines issued by Government rest with the District Planning & Development Councils. There are large number of
Constitutional activities in the district level scheme such as
major and medium irrigation parojects constructions and repairs
of roads, housing, construction of office building, staff quarters
etc. as included in the various development scheme under
implementation in the district. This sector was discussed with
the knowledgeable persons but not definite indication of indirect
employment could be obtained. However, it is suggested that
building maintenance activity is not organised and if man-power
is trained for this activity, it will certainly be useful for
the society. Hence, a composite course containing building
repair, colouring and interior decoration will be useful.
Also in rural areas, courses like Rural Engineering Technology will be useful.

Considering the need and available infra-structure in the district, the following courses are suggested and the man-power requirement for the next five years will be as follows.-

- (1) Building Maintenance 500
- (2) Rural Engineering Technology 500

4.29 MEDICAL & PUBLIC HEALTH :

Health is cherished goal. It is an important input for development of man and thereby social and economic development of the area. An adequate and equitable health care system stimulates development of improving human productivities, that is why, investment in health is sometimes called an investment in human capital. Since last 30 years or so we have adopted a path of development. In order to ensure effective infra-structure, efforts are being made to strength the medical man-power through medical, dental, nursing and other para-medical education. Adequate supply of

trained man-power is one of the important parameter of economic development: Maharashtra State has made significant progress in proviing health services since last 15 years. As a result of this general health standard has improved, but at the same time, it is well recognised fact that the urban population, an avowed objective is to provide minimum medical care to all by the year 2000 A.D. The needs and necessities and special requirements of rural population have to be kept in view. The Government of Maharashtra has recognised the importance of para-medical personnel which has vital link between professional experts at one end and patients at the other end.

In Nagpur district, there are 23 hospitals, 130 dispensaries, 23 maternity homes and 41 primary health centres. Medical
College Hospital is a well-known hospital in Maharashtra. Beside
this, there is another Indira Gandhi Medical College & Hospital
in the city. Public Health Institute is also an important
feature of the district. While discussing with the concerned
persons, it was pointed out that considering number of private
hospital and dispensaries trained man-power in the field of
maintenance and repair of hospital equipments is the need of
the district.

Considering the need and available infra-structure in the district, the following para-medical courses and the man-power requirement for the next five years identified.

| (1) | Medical Laboratory Technician | **** | 200 |
|-----|--------------------------------|-------|------|
| (2) | X-ray Technician | •••• | 100 |
| (3) | Opthalmic Technician | ***** | 100 |
| (4) | Creach & Pre-school Management | • | 500 |
| (5) | Multi-purpose Health Workers | 1999 | 1000 |
| | (Male/Female) | | |
| (6) | Dental Hygenist | **** | 100 |
| (7) | Medicine Testing Expert | | 200 |

4.30 PHARMACY :

There are number of medical shops in the district and 10 percent increase every year is to be expected. At present, the course of Diploma in Pharmacy is being conducted in privatte institutes. Still there is a potential for Pharmacist course and man-power requirement would be about 200 for next five years.

4.31 HOTELS AND RESTAURANTS :

There are about 3515 restaurants in the district and every year number of Hotels and restaurants increases. Big industries and establishments have their own canteen and mess. There is no trained man-power available in the district in this sector. Hence following courses have scope in the district. Courses and man-power requirement for next five years will be as follows.

| (1) | Catering & Restaurant Management | •••• | 500 |
|-----|----------------------------------|-------|-----|
| (2) | Bakery & Confectionery | | 500 |
| (3) | Institutional House-keeping | ***** | 200 |
| (4) | Cookeny | | 200 |
| (5) | Receptionist | ***** | 200 |
| (6) | House & Interior Decoration | 1.000 | 200 |
| (7) | Beauty Technician | **** | 200 |

4.32 TRAVEL AND TOURISM :

Ramtek, Adasa village, Dhapewada, Khinsi, Totaladoh, Koradi are the places of travel and tourism in the district. No trained man-power is available in this sector. Hence a course on Travel and Tourism is the need of the district. About 200 persons will be required for next five years in this sector.

4.33 IDENTIFICATION OF LOCATIONS AND EXISTING FACILITIES AVAILABLE WITH INSTITUTIONS :

Since 1978-79, few vocational subjects were introduced in the Junior Colleges and Higher Secondary Schools in the district. Some infrastructural facilities has been created by these institutes. The information regarding infrastructure facilities available with the institutes and other facilities available in the vicinity of the institute is given in the Table No. 4.4.

The choice of running vocational course/s rest with the management of the institute and hence no specific course for the institute can be suggested. However, the locations of courses can be finalised by discussions with the institute and keeping in view the existing infrastructural facilities available.

TABLE 4.4

Infrastructural facilities available with Institute and around their vicinity

| ITEM | 1 1: Existing facilit: | ies and voca | | rses introduced. |
|------------|------------------------|---|--|---|
| Sr. No. | Name of Institution | Faculties | | Vocational courses introduced |
| 1. | 279 821 A | 3. | 4. 5. | 6. |
| | NAGPUR TAHSIL | eri genet ikan many agant 1994 tenet tetri shira ugun tetri ann | a haare wedern sooss office spinner whose comment organic staded deput | -atti kumba tabah salah galan patin katal tabu tabu kuma para banda panga galan danah tapag |
| • | Conjection Australia | Chamada am | 4 4 | |

| 1. | | 3. | 4. | 5. | 6. |
|----|--|---|----|-------------------------------------|----|
| | NAGPUR TAHSIL | emer i her saker sakat tiber emer saker saker upper saker s | | and share commy sepace models popul | |
| 1. | Saibaba Arts & Commerce Jr. College | Arts | 1 | 1 | • |
| | Sneha Nagar, Wardha- Road, Nagpur. | Commerce | 1 | 1 | |
| 2. | Arts & Commerce Jr. | Arts | 1. | 1 | Ą |
| | College, Ganesh Peth Nagpur. | Commerce | 3 | 3 | |
| 3. | Arts & Commerce Jr. | Arts | 1. | 1 | |
| | College, Ganesh Peth, Nagpur.(Night) | Commerce | 1 | 1 | |
| 4. | Santaji Arts & Comm- | Arts | 1 | 1. | |
| | erce Ĵr. College. Wardha Road, Nagour. | Commerce | 1 | 1 | |
| 5. | Kamala Nehru Jr.Coll- ege. Sakkandana Road. | Arts | 2 | 2 | |
| | Nagpur. | Commerce | 2 | 2 | |

| 1. | 2. | 3. | 4. | 5. | 6. |
|----------|--|--------------------------|------------|----------|---|
| ა. | Dr. Ambedkar Jr. Coll- | · Arts | 1 | 1 | gast som t gast somt somt en gast some some some som gast som to some some som gast some |
| | ege. Dikshabhumi, | | 3 | 3 | |
| | · | Commerce | 2 | 2 | |
| 7. | Dhanwate Jr. College | Arts | 3 | 2 | Bi-focal |
| | *** | Commerce | 5 | 5 | 1904 SHIRT 1994 SAME FASA 1994 (1844)-416 |
| | Nagpur. | | | | 1)Mktg.& S'manship 2) Small Ind. & Self Employment. |
| 8. | Hislop College, | Arts | 1 | 1 | Bi-focal |
| | Civil Lines, | Science | 3 | 2 | |
| | Nagour . | Commerce | 5 | 4 | 1)Electronics 2)Fresh Water Fish Culture. |
| 9. | Womens Jr. College. Nandanvan, Nagpur. | Arts | 2 | 2 | |
| 1Ø. | L.A.D. Jr. College. | Arts | 3 | 3 | |
| | Ambazari Road, | Science | 2 | 2 | |
| | Nagour. | Commerce | 3 | 3 | |
| 11. | Vimens College of | Arts | 1. | 1 | |
| | Commerce, Gita Mandir Nagpur. | Commerce | <i></i> | 2 | |
| 12. | C.P. & Berar Jr. | Arts | 2 | 2 | Bi-focal |
| | College, Tulsibag Nagpur. | Commerce | 4 | 4 | 1)Banking 2)Mktg.& S'manship 3)Insurance 4)Office Mngmt. |
| 13. | Shri Mathuradas Mohata | Science | 4 | 4 | |
| in the a | Science Jr. College, Umred Road, Nagour. | Sale has the first first | · T | | |
| 14. | P.W.S. Jr. College. | Arts | 4 | 4 | |
| | Indora Chowki. Nagpur. | Commerce | 4 | 4 | |
| 15. | G.S. Jr. College. Amravati Road. | Commerce | 6 | ۵ | Bi-focal |
| | Nagpur. | | | | 1)Banking 2)Mktg&S'manship 3)Insurance |
| 16. | Smt. Binzani Mahila Jr College, Mahal, Nagpur | | 5 | 5 | |
| 17. | Sindhu Jr. College, Pachpaoli, Nagpur. | Science Commerce | 3 3 | 3 | |
| 18. | Shri. Binzami Nagar Jr | . Arts | 1 | 1 | |
| # W # | College, Umred Road, Nagour. | | | 2 | |
| 19. | Shri Ramchandra Mokhar Jr. College, Ring Road Swavalambi Nagar, Nagp | ÷ | 1 | 1 | |

| 1. | 2 . | 3. | 4, | 5. | 6. |
|-----|---|------------------|---------|----|--|
| ZØ. | S.F.S. Jr. College, Seminari Hill, | Science | 3 | 3 | Bi-focal |
| | Nagour. | | | | 1)Elect.Maint. |
| 21. | Shri Shivaji Jr. College, Congress Nagar, Nagpur. | Science | 3 | 3 | Bi-focal 1)Electronics 2)Fresh Water- |
| | | • | | | Fish Culture. |
| 22. | V.M.V. College. | Arts | 2 | 2 | |
| | Wardhman Nagar, | Science | 1 | 1 | |
| | Nagpur. | Commerce | 5 | 5 | |
| 23. | Dharampeth Jr. | Arts | 3 | 3 | Bi-focal |
| | College, Ambazari | Scinece | 5 | 5 | 4 N 75 |
| | Nagpur. | Commerce | 4 | 4 | 1)Banking 2)Mktg. &S'manship 3)Insurance 4)Elctronics 5)ElectMaint. |
| | | | | | M.C.V.C. |
| | | | | | 1)M.& R.E.D.A. 2)Electronics 3)Inland Fishery. |
| 24. | Dr.Punjabrao Deshmukh Memorial (Night)Colleg Cotton Market, Nagpur. | Commerce e. | 1 | 1 | |
| 25. | Anjuman Jr.College, Sadar, Nagpur. | Science | 2 | 2° | Bi-focal |
| | napari Madinu v | | | | Electronics. Fresh Water- Fish Culture. |
| | | | | | 3) Scooter & Motor cucle Servicing |
| | | | | | M.C.V.C. |
| | | | | | 1) Electronics. 2) Mech.Technology 3) M. & R.E.D.A. |
| 26. | Annapurnabai Deshmukh- Jr. College, Lakadganj, Nagpur. | Arts | 1 | 1 | |
| 27. | Abhinandan Jr College, Umred Road, Nagpur. | Arts | 1. | 1 | |
| 28. | Indira Gandhi Girls- Jr. College, Jawahar- Nagar, Nagaur. | Arts Commerce | 1. 1 | 1 | |
| 29. | Islamiya Jr.College. Mominpura, Nagpur. | Science | 1 | 1 | |

| 1. | Z. , | 10 g | 4. | 55 4 | 6. |
|-------------|---|----------|----|------------------------------------|--|
| 30. | Umiya Shankar Nara- yanji Jr. College, Lakadganj, Nagpur. | Science | 1 | 1 | |
| 31. | Kurvej New Model Jr. College, Shraddhanand Peth, Nagpur. | | | 1 1 | |
| 32. | Kurvej New Model Jr. College, Sitabuldi, Nagpur. | Commerce | 1 | 1. | |
| 33. | Gajanan Jr. College, Juna Subhedar Layout, Nagpur. | Commerce | 1 | 1 | |
| 54. | Arts & Commerce Jr. College, Dawalamethi, Nagpur. | Arts | 1. | 1 | |
| 35. | Gurunanak Jr. College, Bezonbag, Nagpur. | Science | 1 | 1)Ele 1)Ele 1)2)A/c 3) Ma | ectronics ctronics ctronics Tech. ctronics Tech. ctronics Tech. Elect. Domest |
| 56. | Gopabai (Night) Jr. College, Lakadganj, Nagpur. | Arts | 1 | 1 | |
| 57. | Chhatrapati Jr. College, Chitanvispura, Nagpur. | Commerce | 1. | 1 | |
| 88. | Jaibai Chaudhari Jr. College, New Colony Sadar,Nagpur. | Arts | 1 | 1 | |
| 39 . | Pakawasa Gujrathi Girls Jr. College,(Itwari) Nagpur. | Science | 1 | 1 | |
| Ø. | Kidwai Jr. College, Lashkaribag, Nagpur. | Arts | 1. | 1. | |
| 1. | Pratibha High School, Khairipura, Nagpur. | Commerce | 1. | 1 | |
| | Patwardhan Jr. College, | Scinece | 1 | 1 <u>F</u> | Ri-focal |
| 12. | Sitabuldi, Nagpur. | | | 1) E | Elect. Maint. |
| 2. 3. | | Science | 1. | 1)E | Elect. Maint. |

| 1. | 2. | 3. | 4. | 5. | 4. |
|-----|--|---------------------|--------|--------|---|
| 45, | Bharat Mahila Jr. College, Mahal, Nagpur. | Arts | 1 | 1 | |
| 46. | Bharat Night Jr.College, Bezanbag, Nagpur. | , Arts Commerce | | 1 1 | |
| 47, | Bhartiya Krishi Jr. College, Zingabai Takli, Nagpur. | Commerce | 1 | 1 | |
| 48. | Model Jr. College, Station Road, Nagpur. | Science Commerce | | 1 2 | |
| 49. | M.A.K. Azad Jr.College, Katol Road, Nagpur. | Arts | 1. | 1 | |
| 50. | ***** | Science Commerce | | 1 1 | |
| 51. | Dinanath Jr. College, Dhantoli, Nagpur. | Science | 1 | . 1 | Bi-focal |
| | · · · | | | | 1)Electronics M.C.V.C. |
| | | | | | 1)Electroncis 2)Mktg & S'manship 3) Institutional House keeping. |
| 52. | Dayanand Arya Kanya Jr. College, Jaripataka, Nagpur. | | | 1. | |
| 53. | D.D. Nagar Jr. College, | Arts | 1 | 1 | |
| | Mahal, Ñagpur. | Science | 1 | 1 | |
| | | Commerce | 1 | 1. | |
| 54. | Nagpur Night Jr.College, | . Ants | 1 | 1 | |
| | Auditya Darwaja, Mahal, Nagpur. | | | Ž | |
| 55. | Narendra Night Jr. College, Siraspe t h, Nagpur. | Arts | 1. | 1 | |
| 56. | Navpratibha Girls Jr. College, Siraspe t h, Nagpur. | Arts Commerce | 1 1 | 1. | |
| 57. | Navpratibha Jr.College, | Commerce | 2 | 2 | |
| 37, | Mirchibazar, Nagpur. | | | | |

| 1. | 2. | 3. | 4. | 5. | 6. |
|-------------|---|---------------------|---------------|-------------|---|
| 59. | New English Jr.College, Mahal, Nagpur. | Science Commerce | 2 2 | 2 2 1 |)Electronics M.C.V.C. |
| | | | | 2 |)Electronics)M.R.E.D.A.)A/c & Auditing |
| 50. | Nutan Bharat Jr.College, Abhyankar Nagar, Nagpur. | Science | 1 | , | |
| 51. | Dharampeth Jr. College, Ambazari Road, Nagpur. | Science | 1 | 1 | Bi-focal |
| | | | | | 1)Electroncs M.C.V.C. |
| | | | | : | 1)Flectronecs 2)M.R.E.D.A. 3)A/c & Auditing |
| 52. | Rashtriya Jr. College, Hanuman Nagar, Nagpur. | Commerc | a 1 | 1 | |
| 53. | Ramnagar Bharat Jr.Colley Ramnagar, Nagpur. | | 1 1 | | |
| | | | | ; | 1)Electronics 2)A/c & Auditing 3)Bakery & Confectionary. |
| 54. | Lokanchi Shala Jr.College Siraspeth, Nagpur. | e, Arts Science | 1 1. | 1 1 | |
| 55. | Navnath Jr. College, Juna Subhedar Layout, Nagpur. | Arts | 1 | 1 | |
| 56. | Lokmanya Night Jr.College Gadikhana, Nagpur. | e, Commer | ce 1 | 1 | |
| 5 7. | Vidarbha Buniyadi Jr. College, Omnagar, Nagpur. | Scienc Commer | | | |
| 68. | Vidarbha Night Jr. Colleg Itwara Bazar, Nagpur. | ge, Arts Commer | | 1 | |
| 59. | Vinayakrao Deshmukh Jr. College, Lakadganj, Nagpur. | Scienc | > 1 | 1 | |
| 7Ø. | Vanita Vikas Jr. College. Ganesh Nagar, Nagpur. | , Arts Commer | | - | |
| 71. | College, Moninpura Near | Arts | 1 | 1. | |
| | Hafiz Fakery, Nagpur. | | | | Karana da K |

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| 1. | 2, 3 | | | 5. | 6. |
|-----|--|-----------------------------|----|-------------|--|
| 72. | Shivaji Night Jr. College Sevasadan Building, Gandhibag, Nagpur. | Arts | 2 | 2 | |
| 73, | St. Joseph's Jr. College, Mohan Nagar, Nagpur. | Science | 1. | 1 | • |
| 74. | S.F.S. Jr. College, Sadar, Nagpur. | Science | 1. | 1. | |
| 75. | Sindhi Hindi Jr. College, Panchpaoli, Nagpur . | Science | 1 | 1. | Bi-focal |
| | | | | | 1)Electronics M.C.V.C. |
| | | | | | 1)Electronics 2)M.R.E.D.A. 3)Auto Engg.Tech |
| 76. | Somalwar Jr. College, Ramdaspeth, Nagpur. | Science | 1 | 1 | Bi-focal 1)Electronics |
| 77. | Somalwar Jr. College, Khamla, Nagpur. | Science | 1 | 1. | Bi-focal |
| | | | | - | 1)Electronics |
| 78. | S.C.S. Girls Jr. College, Panchpaoli, Nagpur. | Arts Science Commerce | 1. | 1 1 1 | |
| 79. | Ghashtrinagar Jr. College, Shashtrinagar, Nagpur. | Commerce | 1 | 1 | |
| 80. | Sakkardara Jr. College, | Commerce | 1 | 1 | × |
| | Sakkardara Chowk, Nagpur. | | | | 1) Electronics |
| 81. | C.P. & Berar Jr. College, Ravinagar, Nagpur. | Science | 2 | 2 | - \$ |
| 82, | Sane Guruji Jr. College, Bhutya Darwaja, Nagpur. | Arts | 1. | 1 | |
| 83. | Shri Sant Gadge Maharaj (Night) Jr. College, Gokulpeth, Nagpur. | Arts Commerce | | 1 | |
| 34. | Shriram Swami Jr. College, Hansapuri, Nagpur. | Commerce | 2 | 2 | |
| 85. | Shanti Niketan Jr. College Hanuman Nagar, Nagpur. | • | 1. | 1 1 | |
| 86. | Vishvanath Baba Jr. College, Wadi, Nagpur. | Arts | 1 | 1 | |
| 87. | Hadas Jr. College, Ambazari Road, Nagpur. | Science | 1 | 1 | Bi-focal 1)Electronics |
| | | | | | The Property of the Section of the S |

| 1, | | 3. 4, | | | 6. |
|------|---|-----------------------------|----|-------------|-----------|
| 88, | Nirala Jr. College,Hansa- puri, Gandhibag, Nagpur. | Commerce | 1 | 1 | |
| 89. | Dr. Babasaheb Ambedkar Jr. College, Untkhana, Nagpur. Untakhana, Nagpur. | Science | 1 | 1 | |
| 9ø. | Vinayakrao Deshmukh Jr. College, Shantinagar, Nagpur. | Ants | 1. | - | |
| 91. | Ravi Jr. College, Azamsha Layout, Nagpur. | ha Arts | 1 | 1. | |
| 92. | Jawahar Night Jr. Colle ge Sitabuldi, Nagpur. | , Arts Commerce | | 1 | |
| 93. | Jai Vidarbha Jr. College, Jaripataka, Nagpur. | Commerce | 1. | 1. | |
| 94. | Sainath Night Jr. Colle ge Mahal, Nagpur. | , Arts | 1. | 1 | |
| | Kamptee Tahsil | | | | |
| 95. | S.K. Porwal Jr. College, Kamptee. | Arts Science Commerce | 2 | 3 2 4 | |
| 96. | S.M. Rabbani Jr. College, Kamptee. | Science Arts | 1 | - 1 | |
| 97. | Seth Ramnath Lohiya Jr. College, Kamptee. | Commerce | 1 | 1 | |
| 98, | Vidya Mandir Jr. College, Kamptee. | Arts Science | | i 1 | |
| | Hingana Tahsil | | | | • |
| 79. | | Commerce | 1 | 1 | |
| | Saoner Tahsil | | | | |
| 100. | Arts & Commerce Jr. College, Saoner. | Arts Commerce | | | |
| 101. | Vinoba Jr. College, Telkamthi. | Arts | 1 | 1 | |
| 102, | Adarsha Jr. College, Patansavangi. | Arts | 1 | 1 | |
| 103. | Maharashtra Jr. College, Khaparkheda. | Science | 1 | 1 | |

| 1. | 2. | 3. 4. | | | 6. |
|------|--|-------------------------------|----|-------------|-----------|
| 1Ø4. | Shankar Rao Chawhan Jr. College, Khaparkheda. | Ants | 1 | 1 | |
| 105. | Bhalerao Jr. College, Saoner, | Science | 2 | 2 | |
| 106. | Commerce & Arts Jr. College, Gaoner. | Arts | i. | 1 | |
| | Kalmeshwar Tahsil | | | | |
| 107. | Indira Gandhi Jr. College Kalmeshwar. | , Arts Commerce | | 1 | |
| 1Ø8. | New English Jr. College, Mohapa. | Arts Science | | 1. 1 | |
| 109. | Nagar farishd Jr. College Kalmeshwar. | , Arts Science Commerce | 1 | 1 1 1 | |
| líØ. | Br. Krushnarao Wankhade, Jr. College, Kohali. | Arts | 1 | 1 | |
| | Narkhed Tahsil | | | | |
| 111, | Pandharinath Jr. College, Narkhed. | Arts Commerce | | 1 1 | |
| 112. | 3.B. Nagar Prishad Jr. College Mowad. | Arts Commerce | | 1 1 | |
| 113. | Gurusmruti Jr. College, Bhishnwr. | Arts | 1 | 1 | |
| 114. | Nadekar Jr. College, Narkhed. | Science | 1. | 1 | |
| 115. | Raosaheb Ingole Jr. College, Bharsingi. | Arts Commerce | | 1 | |
| 116. | B.N. Chaudhari Jr. College, Jalalkheda. | Arts Science | | 1 1 | |
| 117. | Arts & Commerce Jr. Collage, Narkhed. | Arts | 1 | 1 | |
| 118. | Janata Jr. College, Khairgaon. | Arts | 1 | 1 | |
| 119. | Ranilaxmibai Jr. College, Sawargaon. | Arts | 1 | ***** | |

| 1, | 20 4 | 3. 4. | 5. | 6. |
|------|---|-----------------------------|-------------|--|
| | Katol Tahsil | | | |
| 12Ø. | Nabira Jr. College, Katol. | Arts Science Commerce | 2 2 2 | 2 Bi-focal 2 2 1)Electronics 2)Crop Science 3)Horticulture |
| 121. | Govindrao Umap Jr. Yenwa. | Arts | 1 | 1 |
| 122. | Banarasidas Jr. College, Katol. | Science | 1. | 1 |
| 123. | Lakhotiya Bhutada Jr. College, Kondhali. | Arts Science Commerce | 1 1 1 | 1 1 1 |
| | Umred Tahsil | | | |
| 124. | Nutan Jr. College, Umred. | Arts Commmerce | | 1 1 |
| 125. | Ashak Jr. Callege, Umred. | Arts Science | 1 1 | 1 1 |
| 126. | Jivan Vikas Jr. College, Umred, | Arts Science Commerce | | 1 Bi-focal 2 |
| 127. | Lokjivan Jr. College, Bela. | Arts | 1 | 1 |
| 128. | Vasantrao Naik J r. College, Sirsi. | Arts Science | | 1 Bi-focal 1 1)Electronics |
| | Bhivapur Tahsil | | | |
| 129. | Bhivapur Education Societ Jr. College, Bhivapur. | | | 1 1 |
| | Mouda Tahsil | | | |
| 13Ø. | Janata Jr. College, Mounda. | Science Commerce | | 1 1 |
| 131. | Gramin Jr. College, Salva | . Arts | 1 | i |
| 132. | Zilla Parishad Jr. Colleg Kodamendhi, | e, Arts | 1. | 1 |

| 1. | 2, | 3. 4. | 5 , | • Marie 11000 00000 00000 00000 00000 10000 00000 | 6. |
|------|---|------------------------|-----|---|----|
| | Kuhi Tahsil | | | | |
| 133. | Zilla Farishad Jr. Colleg Mandhal. | ge, Arts | 1. | 1 | |
| 134. | Rukhhadashram Jr. College Kuhi. | e, Sciecne Commerce | | 1 1 | |
| 135. | Vishvavyapi Jr. College, Weltur. | Arts | 1 | 1 | |
| | Ramtek Tahsil | | | | |
| 136. | Narendra Tidke Jr. College, Ramtek. | Arts Commerce | 2 | 2 1 | |
| 137, | Samarth Jr. College, Ramtek. | Science | i | 1 | |
| | Parshioni Tahsil | | | | v |
| 138. | Bharat Ratna Smt. Indira Gandhi Jr. Colleg e , Kanhan. | Arts | 1 | 1 | |
| 139. | Harihar Jr. Collge, Parshioni. | Arts | 1. | 1 | |
| 14Ø. | Sarvodaya Jr. College, Parshioni. | Science | 1. | 1 | |
| 141. | Jawahar Jr. College, Khapa. | Arts Science | | 2 | |

TABLE NO. 4.4 (Contd.)

ITEM 2 :- Infrastructural facilities available with the

Institute.

| Sr. No. | Name of the Institute | Item | Num- ber | Accommodation available in sq.ft. and open space available |
|------------|--|--|---------------------------------|--|
| 1. | 2. | 3. | 4. | 5. |
| 1. | Dayanand Arya Kanya Shala, Jaripatka, Nagpur. | Class Rooms Laboratory | -12 - 1 - 1 - 1 - 2 | Construction 16,000 sq.ft Construction in progress- 5000 sq.ft. Open Space - 32000 sq.ft. |
| 2. | Shri Ramswami Vidya Mandir, Timki Road, Nagpur, | Chemistry Biology | - 1 - 1 | Construction 3,900 sq.ft. Rented Construction - 4,000 sq.ft. Open space available. |
| 3. | S.F.S. Jr. College, Sadar, Nagpur. | Class Room Laboratory Physics Chemistry Riology Vocational Other | - 1 - 1 - 1 - 2 | Construction 1,16,970 sq.ft. Open Space 50,000 sq.ft. |
| 4. | C.P.& Berar Jr. College, Mahal, Nagpur. | Class Room Other | - 4 Ø - 5 | Construction 35,000 sq.ft. Construction in progress - 10,000 sq.ft. Open space 8,000 sq.ft. |
| 5. | Ravi Jr.Colle- ge, Ganesh Nagar, Nagpur. | Class Room Other | -16 - 1 | Construction 8,000 sq.ft. Open space 46,000 sq.ft. |
| 6. | Ram Nagar Bharat Vidyalaya Ramnagar, Nagpur. | Class Room Laboratory Physics Chemistry Biology Vocationa Other | - 1 - 1 - 1 | Construction 24,500 sq.ft. Construction in Progress 3,000 sq.ft. Open space- 90,000 sq.ft. |
| 7. | Baba Nanak Jr. College,Garoba Maidan, Nagpur | Class Room Laborator Physics Chemistry Biology Vocationa Other | - 1 - 1 - 1 | Construction -13,500 sq.ft. Construction in Progress -4,000 sq.ft. Open space- 40,000 sq.ft. |

| 1. | 275 2 | | 4. | 5 . |
|-----|--|--------------------------------|--|---|
| 8. | Sindhi Hindi Jr. College, Panchpaoli, Nagpur. | Chemi: Biolo, Vocat | tory | Construction- 14,000 sq.ft. Construction in Progress 5,000 sq.ft. Open space- 40,000 sq.ft. |
| 9. | Dinanath Jr. College, Dhantoli, Nagpur. | Labor: Phys Chem Biol | - | Construction 30,000 sq.ft. Construction in Progress 5,000 sq.ft. Open space - 90,000 sq.ft. |
| 10, | Shri Mathuradas Mohata Jr. College, of Science, Umred Road, Nagpur. | Labor Phys Cher Bio | Room -10 ratory sics - 3 mistry- 3 logy - 3 logy - 1 | Construction 26,000 sq. ft. Open space available |
| 11, | New English Jr. College, Main Branch, Mahal, Nagpur. | Labor Phys Chem Biolo | •• | Construction 10,000 sq.ft. Construction in Progress 3,000sq.ft. Open space- 20,000 sq.ft. |
| 12. | Oharampeth High School, North Ambazari Road, Nagpur. | Labor Phys Cher Bio | Room -20 ratory sics - 1 mistry- 1 logy - 1 ational 1 | Construction 20,000 sq.ft. Construction in Progress 3,000 sq.ft. Open space available |
| 13. | Somalwar Jr. College, Khamla Road, Nagpur. | labor Phys Cher Biol | Room -15 ratory sics - 1 mistry 1 logy - 1 ational 1 | Construction 10,000 sq. ft. Open space available |
| 14, | Sainath Night Jr. College, Mahal, Nagpur. | Class | Room -10 | Construction 4,000 sq.ft. Open space available. |

| 1. | 27 | 3. 4. | THE SECOND PROPERTY OF |
|-----|---|--|--|
| 15. | Samarth Jr. College, Ramtek Dist:- Nagpur. | Class Room -10 Laboratory Physics - 1 Chemistry- 1 Biology - 1 Work shop shed - 1 Drawing Room - 1 | Construction 12,000 sq.ft. Open space avilable |
| 16. | B.N. Chaudhary Jr. College, Jalalkheda, Tah Narkhed, Dist Nagpur. | Class Room -17 Laboratory | Construction 5,000 sq.ft. Open space available |
| 17, | Sarvodaya Jr. College of Science, Parshioni, Dist.— Nagpur. | Class Room -10 Laboratory | Construction 6,000 sq.ft. Open space available |
| 18. | Vasantro Naik Jr. College, Sirsi, Tah Umred, Dist Nagpur, | Class Room - 6 Laboratory Physics - 1 Chemistry- 1 Biology - 1 Vocational 1 | Constructio 8,000 sq.ft. Open space available |
| 17. | Ashok Vidyalaya Umred. | Class Room - 6 Laboratory Physics - 1 Chemistry- 1 Biology - 1 Vocational 1 | Construction 8,000 sq.ft. Open space available |
| 20. | Vinayakrao Deshmukh High School, Nagpur. | Class Room -20 Laboratory Physics - 1 Chemistry- 1 Biology - 1 | Construction 16,009 sq.ft. Open space availab |
| 21. | Dhanwate National College, Nagpur. | Class Room -27 | Constructio 10,897 sq.ft. Open space available |

TABLE NO. 4.4 (Contd). gather from letter gauge within month to any letter trade, and the easy count arises a respectively and december as the large of the angle of the an

ITEM 3 :— Other infrastructural facilities available in the

| • . , , | · · · | vicinit | y. | |
|------------|-------|---------|--|---|
| Sr. No. | Name | of Tab | tinitis elkota aasija likkoka jirjiin Shikka askool dhaaba kulkoka gastig dii uuri guu | Other infrastructural facilities available in the vicinity. 3. |
| (1) | Nagp | | (۴ | 1) Agriculture 1) Agriculture farms 2) Horticultur (Nursary) 3) Social Forestry (Nursary) |
| | | | (F | 1) Animal Husbandry 1) Dispensaries/Poly- clinic 2) Aid Centres 3) Poultry farms |
| | | | (0 | 1) Chilling Plants |
| | | | (1 | 1) Fishery 1) Fishing ponds 2) Tanks |
| | | | (€ | 1) I.T.I. 2) Technical High School 3) Industrial Estate 4) Engineering Work Shop 5) Computer Centre 6) Engineering College 7) Polytechinc |
| | | | (F | 1) Banks 2) Business Centre 3) Big Hotels |
| | | | ((| 1) Medical 1) Medical College 2) Primary Health Centre 3) Hospitals 4) Dispensaries 5) X-Ray Machines |

- 5) X-Ray Machines 6) Pathological Laboratories 7) National Fire Service College 8) Matru Seva **Sangh**
- 9) Chemist and Druggist

1. 3. (H) Transport -----1) Vehicle Repairs and Service Centre 2) Motor Driving School 3) Travel and Tourist Agencies 4) Goods and Motor Transport (I) Construction 1) Building Builders 2) Architects and Engineers. (2) Katol (A) Agriculture abets augus 2107 - alaga 2724 : 2520 Maya 2540 5540 5557 agass 1) Agricultural farms Social Forestry (Nursary) (B) Animal Husbandry mark) nongo dalah, paper kitan kitara direng diri. Sanan direti papen kilaya andara dangga d 1) Dispensaries/Poly-clinic 2) Aid Centres 3) Poultry farms (C) Fishery 1) Fishing Ponds 2) Tanks (D) Technical 1) I.T.I. 2) Technical High School 3) Polytechine (E) Trade and Commerce anner ellen brank blaks brerr sekra plank akan 1700s krite. 72015 banks ellen danne danne danks danns bedan 1) Banks 2) Business Centre (F) Medical ----1) Dispensaries 2) Primary Health Centre (G) Transport ----1) Goods and Motor Transport (3) Ramtek (A) Animal Husbandary **** 1) Dispensaries 2) Aid Centres (B) Dairy

1) Chilling Plants

er to a part will will state and ever age of the fact that the transfer and the fact 1. 2. 3, (C) Fishery 1) Fishing Ponds 2) Tanks (D) Technical 1) I.T.I. 2) Technical High School 3) Engineering College (E) Trade and Commerce 1) Banks 2) Business Centre (F) Medical 1) Dispensaries 2) Primary Health Centre (4) (A) Agriculture Umned 1) Agricultural farms 2) Horticulture Farms(Nursary) (B) Animal Husbandary 1) Dispensaries 2) Aid Centre 3) Poultry farms (C) Fishery 1) Fishing Ponds 2) Tanks (D) Technical ---i) I.T.I. 2) Polytechnic (E) Trade and Commerce 1) Banks 2) Business Centre (F) Medical 1) Dispensaries 2) Primary Health Centre (G) Transport

> Vehicle Reparts and Servicing Centre

| 1, | 27.4 | . The same time and the same same same same same pass and all same same same same same same same same | 3 • |
|-----|---------|---|---|
| (5) | Saoner | (A) | Agriculture |
| | | | 1) Agriculture farms 2) Horticulture (Nursary) |
| | | (8) | Animal Husbandary |
| | | | 1) Dispansaries 2) Aid Centre |
| | | (C) | Fishery |
| | | | 1) Fishing Ponds 2) Tanks |
| | | (a) | Technical |
| | | 1 | l) Technical High School |
| | | (E) | Trade and Commerce |
| | | | 1) Banks 2) Business C entre |
| | | (F) | Medical |
| | | | 1) Dispensaries 2) Primary Health Centre |
| | | (G) | Transport |
| | | | 1) Vehicle Repairs and Servicing Centre |
| (6) | Narkhed | (A) | Agriculture |
| | | | 1) Agriculture farms 2) Horticultural Nursary |
| | | (8) | Animal Husbandary |
| | | | 1) Dispensaries 2) Aid Centre |
| | | (0) | Technical |
| | | | 1) Technical High School |
| | | (I)) | Trade and Commerce |
| | | | 1) Banks 2) Business Centre |
| | | (E) | Medical |
| | | | Dispensaries Primary Health Centre |

(F) Transport 1) Vehicle Repairs and Servicing Centre (7) Kalmeshwar (A) Agriculture 1) Agriculture farms 2) Horticultural Nursary (B) Animal Husbandry 1) Dispensaries 2) Aid Centre (C) Technical 1) Engineering Work shop 2) Industrial Estate (D) Trade and Commerce 1) Banks 2) Business Centre (E) Medical 1) Dispensaries 2) Primary Health Centre (F) Transport 1) Vehicle Repairs and servicing centre (8) Kamptee (A) Agriculture 1) Agriculture farms 2) Social Forestry (Nursary) (B) Animal Husbandary 1) Dispensaries 2) Aid Centre (C) Technical 1) Engineering Work Shop 2) Polytechnic (D) Trade and Commerce 1) Banks 2) Business Centre

| 1. | 2. | 3 . | ni - Jones 1974 alter desse beløv alder sport kom - køret kom - | nder endelse dikasa essas, armas yayı |
|------|-----------|--|---|---------------------------------------|
| | | (E) Medical | (E) | |
| | | 1) Despensaries 2) Primary He alth Centr e | | |
| | | (F) Transport | (F) | |
| | | 1) Vehicle Repair and Servicing Centre | | |
| (9) | Parshioni | (A) Agriculture | (A) | |
| | | 1) Agriculture farms 2) Social F orestry (Nursary) | | ary) |
| | | (8) Animal Husbandry | (8) | |
| | | 1) Dispensaries 2) Aid Centres | | |
| | | (C) Trade and Commerce | (C) | |
| | | 1) Banks | | |
| | | (D) Medical | (D) | |
| | | 1) Dispensaries 2) Primary Health Centre | | |
| (1Ø) | Mouda | (A) Agriculture | (A) | |
| | | 1) Agricul ture farms 2) Horticultu re (Nursary) 3) Social Foresty (Nursary) | | |
| | | (B) Animal Husbandry | (日) | |
| | | 1) Dispensari es 2) Aid Centre | V. | |
| | | (C) Trade and Commerce | (C) | |
| | | 1) Banks 2) Business C entre | | |
| | | (D) Medical | (D) | |
| | | 1) Dispensaries 2) Primary Health Centre | | |
| | | (E) Transport | (E) | |
| | | 1) Vehicle Repairs and Servicing Centre | | |
| (11) | Hingana | (A) Agriculture | (A) | |

1) Social Forestry (Nursary)

(B) Animal Husbandry 1) Dispensaries 2) Aid Centre (C) Trade and Commerce 1) Banks (D) Medical 1) Dispensaries 2) Primary Health Centre (12) Kuhi (A) Animal Husbandru and the first transfer and the state state and the state of the state 1) Dispensaries 2) Aid Centre (8) Trade and Commerce 1) Banks (C) Medical 1) Dispensaries 2) Primary Health Centre (13)Bhivapur (A) Animal Husbandry mana ayang arang dimba arawa wakan giyalin kabar yi naga hayan banda ayan didan ayand dimba dibba maddi 1) Dispensaries 2) Aid Centre (B) Trade and Commerce 1) Banks 2) Business Centre (C) Medical 1) Dispensaries 2) Primary Health Centre (D) Transport 1) Vehicle Repairing and Servicing Centre

4.34 VOCATIONAL COURSES FOR WOMEN :

The Ad-hoc Committee also considered the local demands and suitability of courses for women to enable them to enter in to 'World of Work' or to start own venture.

The vocational courses have been suggested for women are as below. :-

| Sr. No. | Group | Name of Courses . |
|------------|--------------|--|
| (1) | Home Science | Fruit, food and vegetable processing and preservation. Bakery and Confectionery Receptionist Institutional House-keeping Cookery House and Interior Decoration Beauty Technician |
| (2) | Commerce | Stenography and Typewriting Marketing and Salesmanship Secretarial Practice |
| (3) | Health | Creche & Pre-school Management Multi-purpose Health Worker Pharmacist. |
| (4) | Technical | 1) Electronics Technology 2) Computer Technician 3) Knitting with Machine 4) Dress-making and Designing. |

4.35 LIMITATIONS OF SURVEY :

The limitations of the survey have been stated elsewhere. However, the constrains on implementation of the vocational education are given below.

- I) Vocational education is expansive than the academic education. But generally inadequate funds from Govt. impose limit on qualitative improvement and expansion of the scheme.
- II) The scheme is expected to be implemented in private school. They experience constraints of equipments, materials and other infrastructural facilities like building, trained teachers, collaborative arrangement for practical training and co-ordination and liasion with departments and industries. Sufficient and timely finance from Government side is necessary.

- III) The vocational education scheme is the process of changing the attitudes of students, parents, employers, teachers and so it is slow. The participation of community and industries is a must for the success of scheme.
 - IV) Vocational courses are selected on the basis of felt needs of the areas. The technology is changing very rapidly and it is necessary to keep up-to-date liasion with latest technology. The district vocational surveys should be repeated after every 2 or 3 years in order to assess the relevance of existing courses and to moniter the changing occupational trends calling for introduction of new vocational courses.

4.36 VOCATIONALISATION OF EDUCATION:

The Government has given priority for Vocational Education at +2 level scheme. As per Government policy, the Vocational courses should cover 10 percent of students by 1990 and 25 percent by 1995. The number of students enrolled under vocational alisation of education at +2 level, fot Bifocal Vocational Courses and Minimum Competancy Vocational Courses together was 1650 during 1988-89 in the district. Hence enrolment in vocational courses is about 5 percent of total enrolment at +2 level.

TABLE 4,5

SUMMARY

Summary of Vocational Courses idendified and probable man

power requirement for next five years

| Co | urses for S.S.C. | students | s Co | | for non 5.S | .C. stud | dents |
|-----------|--|--------------------------------------|----------------------------|-----|--|-------------------------------------|-------------|
| Sr No | • | Durati- on in years/ months | Proba- ble man power | Sr. | Course | Durti- on in years/ months | able man |
| 1. | · · · · · · · · · · · · · · · · · · · | 3, | 4, | 5, | 5 , | 7. | 8. |
| \$ | PRIMARY SECTOR | | | | | | |
| 6 | Fruit,food & veg- etable Processing & Preservation. | ••• | 200 | | Dry Land Farming. | 1 year | 100 |
| 2. | Seed Production Technology, | 2 yrs. | 100 | | Poult ry Su p ervi sor. | - 1 year | ~ 200 |
| 3. | Flant Protect- ion techniques and management/ farm supervisor | 2 yrs. | 4ØØ | · · | Veterinary Assistant | 6 montl | - 4ØØ |
| 4. | Crop Science | 2 yrs. | 4ØØ | | Fodder deve- lopment & Preparation of feed. | 6 montl | n 200 |
| 5. | Horticulture Supervisor | 2 yrs. | 400 | | Nursary sup- ervisor. | 1 year | 3ØØ |
| 6. | Plasticulture | 1 year | 200 | | Crane opera- tor. | 6 month | 100 |
| 7, | Agro Service Centre supervi- sor/Agriculture implements prod- uction & repair. | | 400 | | Dumper opera tor. | - 6 mont | h 100 |
| 8. | Soil Commentation & Water management | | 20 0 | 8. | Pump operat | or 6 mai | nth 100 |
| Ÿ. | Animal Science & Dairying | . 2 yrs. | 4∅Ø | 9. | Driller/Dri ling Machin (Mines) | | nth 100 |
| tØ. | Live stock Supervisor. | 2 yrs. | 5ØØ | 10. | Blasting Te nician.(Min | | onth 100 |
| 11. | Inland fishery | 2 yrs, | 100 | | | | |

| 1. | Z., | | 4 , | 5, | 6. | 7. 8. |
|-------------------|--|---------------------------------|------------------------------------|------------------------------|--|-----------|
| 2111 4/mg 2401 44 | SECONDARY SECTOR | 01 102 164 04 CHILLIAN HAI 1101 | ne vizito e em organismo e en el m | 1 May 4 107 d 12441 - 1671 - | and the same and t | |
| 12. | Mechanical Tech- nology. | 2 yrs, | 5øø | 11, | Forging Expert | 1yr. 100 |
| 13. | Maintenance & repair of Med-cal laboratory equipments, | 2 yrs. | 200 | 12, | Gear K ubbing technic ia n | 1yr. 100 |
| 14. | Electronics Technology | 2 yrs, | 1000 | 13. | Mining machine Maintenance & repair. | 1yr, 100 |
| 15. | Maintenance & repair of electric domestic appliances. | 2 yrs, | 1000 | 14, | Maintenance & repair of pump & electric motor. | 1yr. 500 |
| 16. | Radio & T.V. Mechanic | 2 yrs, | 5ØØ | 15. | Electroplater | 6mth,100 |
| 17. | Computer Technician | 2 yrs. | 200 | 16. | Galvnising Mechanic. | 6mth. 100 |
| 18, | Chemical Plant Operator | Z yrs. | 100 | 17, | Photo L itho Opera tor. | 1 yr. 100 |
| 19. | Plastic mould | 2 yrs. | 200 | 18, | Fibre g i ass Technic ia n. | 1 yr. 200 |
| 20, | Knitting with Machine. | 2 yrs. | 5ØØ | 19. | Calico Printer | 1 yr. 500 |
| 21. | Dress Making & designing, | 2 yrs. | 500 | | | |
| 22. | Plastic process- ing Technician, | 2 yrs. | 200 | | | |
| | TERTIARY SECTOR | | | | | |
| 23. | Office Manage- ment | 2 yrs. | 200 | 20. | Body Building (Vehicle) Machine. | 1yr, 200 |
| 24. | Stenography & : | l yr. | 5øø | 21, | Heavy Vehicle driver. | 6mth 500 |
| 25, | Accounting & G Auditing | Z yrs. | 5ØØ | 22. | Tyre Remould- ing & Valcani- sing | 6mth 5ØØ |
| 26. | Marketing & Salesmanship | ? yrs, | 5øø | | <u></u> | |

| 1. | 23 | | 4. | | 8. |
|-------------|--|---------------|------|--|----|
| 27. | Purchasing & Store-keeping | 2 yrs. | 200 | | |
| 28. | Secretarial Practice. | 2 yrs, | 200 | | |
| 2 9. | Transport Management. | 1 yr, | 2ØØ | | |
| 3Ø, | General Insurance, | 2 yrs, | 5ØØ | | |
| 31, | Auto Enginee- ring Technician. | | 5ØØ | | |
| 32, | Builiding Maint- enance. | 2 yrs. | 5ØØ | | |
| 33. | Rural Engineer ring Technology. | | 500 | | |
| 34. | Medical Labora- tory Technician. | *** | 200 | | |
| 35, | X-Ray Techni- cian. | l yrs. | 1ØØ | | |
| 36. | Opthalmic Tech- nician, | 1 yrs. | 100 | | |
| 37. | Creche & Pre School Managemen | *** | 500 | | |
| 38. | Multipurpose Health Worker (Male/Female) | 2 yrs. | 1000 | | |
| 39. | Dental Hyginist | 1 <i>yr</i> . | 100 | | |
| 4Ø. | Medicine Test- ing Expert, | Z yrs. | 200 | | |
| 41. | Pharmacist, | 2 yrs. | 200 | | |
| 42, | Catering & Res- taurent Manage- ment. | 2 yrs. | 5øø | | |
| 43. | Bakery & Confectionery. | 2 yrs. | 5øø | | |
| 44, | Institutional House keeping. | 2 yrs. | 2øø | | |
| 45, | Cookery | 2 yrs. | ZØØ | | |
| <i>n ,</i> | Receptionist | lyr, | 200 | | |

| 1, | 2. | 3, | 4. | Ε̈́Σ , | 6. | 7. | 8. |
|-----|-----------------------------------|---------|-----|--------|----|----|----|
| 47, | House & Inter- ior Decoration. | i ur. | 200 | | | | |
| 48. | Besuty Technician | n 1 yr. | 200 | | | | |
| 49. | Travel & Tourism | Z yrs. | 200 | | | | |

Note :- The duration of curriculum is mentioned here as per advice of the field experts and knowledgeable persons. However, this is subjected to change depending upon the views of the Courses Committee members and relative topics.

TABLE 4.6

Tahsil wise summary of courses identified

PRIMARY SECTOR Dist.:- Nagpur

| | C 1 V 3.1 H 11 V 1 | A-16, Sept. 15,41 A. Francisco con septembria | | D.1. 15 C + 4 T | naghar. |
|------------|--------------------|---|--|--|---------------|
| Sr. No. | Tabsil | | Courses identified for 8,8.0. students | | |
| 1. | 2, | Course Du | aration 4. | Course 5. | |
| Ø1. | Nagpur | 1) Fruit,food and vegetable process ing & Preservaric | ā | 1) Dry land farming | 1 yr. |
| | | 2) Seed production Technology. | | 2) Poultry Sup erv iso | |
| | | 3) Plant protection Techniques and Management/Farm Supervisor. | 2 yrs. | | 6 mths. |
| | | 4) Crop Science | 2 yrs. | 4) Fodder de lopment a preparati of feed. | nd |
| | | 5) Agro Service Centre Supervi- sor/Agriculture implements procuc ion & repair. | 2 yrs. :t- | | er- 6 mths |
| | | 6) Soil Conservation& water Managemen | | • | pe- 6 mths |
| | | 7) Animal Science & | 2 yrs. | 7) Pump Op | er- 6 mths |

ator.

Dairying.

| 1. | 2. | | 4, | 5. 6. |
|-----|---------|--|-------------|--|
| | | 8) Live stock supervisor. | 2 yrs. | 8) Driller/ 6 mt Drilling Machines (Mines) |
| | | 7) Inland Fis hery | 2 yms, 9 |) Blasting 6 mths Technician (Mines) |
| Ø2. | Kamptee | Plant Protection Techniques and management/Farm Supervisor. | 2 yrs, 1 |) Dry Land 1 yr. Farming |
| | | 2) Crop Science | 2 yrs. 2 |) Paultry 1 yr. |
| | | Agro service cen- tre Supervisor/ Agriculture imple ments Production repair, | | supervisor.) Veterinary 6 mths Assistant |
| | | 4) Soil Conservation & Water managemen | *** | 4) Fodder 6 mths development & prepara- tion of feed. |
| | | 5) Animal Science & Dairying 6) Live stock supervisor. | | 5) Crane 6 mths Operator 6) Dumper 6 mths Operator. 7) Pump Ope-6 mths rator. 8) Driller/6 mths Drilling Machine (Mines) 9) Blasting 6 mths Technician (Mines) |
| Ø3. | Hingana | Plant Protection Tehchniques & Mar agement/farm supervisor. | | 1) Dry Land 1 yr. farming |
| | • | 2) Crop Science | 2 yrs. | Poultry 1 yr. supervisor. |
| | | 3) Agro service cent re supervisor/Agr culture Implement Production & repa | ci- ts | 3) Veterina- 6 mth ry Assistant |
| | | | n 2 yrs. | 4) Fodder dev-6 mth elopment & preparation of feed. |
| | | 5) Animal Science & | 2 yrs. | Section 1 to the second of |
| | | Dairiging. - 6) Live Clock Copart | - 2 yrs. | |

visor.

| 1. | 2. | | 3. | 4, | er transcription : | | 5 | | 5. |
|---|---------------|--------------|--|---------------|---------------------------------|-----|--|----|-------|
| ··· • • • • • • • • • • • • • • • • • • | to -1-9 Metro | | Control of the contro | | THE STREET STREET STREET STREET | . , | any tito a stood court month makes with action where define their of | | |
| Ø4. | Kalmeshwar | 1) | Seed Production Technology. | 2 | Hrs. | 1) | Dry Land Farming | 1 | yr. |
| | | 2) | Plant Prot. Tech. & Mgmt/Farm Super- visor. | F. | urs. | 2) | Poultry Supervisor | 1 | yr. |
| | | 3) | Crop Science | 2 | flue t | 3) | Vetrinary Assistant. | ద | mths. |
| | | 4) | Honticulture Supervisor. | 2 | yrs, | | | | |
| | | 5) | Plasticulture | 1 | Lyim, | | | | |
| | | <i>(</i> ,) | Agro Service Centre superviso/Agri Imp. Prod. & Rep. | | yrs. | | | | |
| | | 7) | Soil Conservation & Management. | 2 | Yrs. | | | | |
| | | | Animal Science & Dairying. | Z | yrs. | | | | |
| | | 7) | Live Stock Super- visor. | 7 | yrs. | | | | |
| | | 10) | Inland Fishery | | yrs, | | | | |
| Ø5. | Katol | 1) | Fruit, food & vegetable processing & preservation. | | yrs. | 1) | Dry land Farming. | 1. | yr. |
| | | 2) | Seed Prod. Tech. | 2 | yrs. | 2) | Poultry Supervisor | 1 | ñu. |
| | | 3) | Plant Prot. Tech. & Mgmt./Farm Super visor. | | yrs. | 3) | Vetrinary Assistant. | S | mths. |
| | | 4) | Chop Science | 2 | urs. | | | | |
| | | | Horticulture Supervisor. | | yrs, | | ı | | |
| | | | Plasticulture | | 1 JI" , | | | | |
| | | 7) | Agro Service centre Sup/Agri. Imp. Prod. & repai | | yrs. | | | | |
| | | 8) | Soil cosernvation & water management | 2 | yrs. | | | | |
| | | | Animal science & Dairying. | | yrs, | | | | |
| | | 10) | Live stock super- visor. | 2 | yrs. | | | | |
| Ø6. | Narkhed | 1) | Fruit, food & vege. Proc. & preserva- tion. | 2 | yrs. | (E | Dry Land Farming | 1. | ñ. |
| | | 2) | Plant Prot.Tech. & Mgnt./farm supervisor. | 2 | urs. | 2) | Poultry Supervisor | 1 | yr. |
| | | 3) | Crop Science | 2 | yrs. | 3) | Veterinary Assistent. | 6 | mths. |
| | | 4) | Honticulture Supervisor. | 2 | urs. | | • | | |
| | | | Plasticulture | | yrs. | | | | |
| | | 6) | Agro service coder imp./Agri. imp.prod.& repair. | | yrs. | | | | |
| | | 7) | Soil conservation & water management | \mathcal{Z} | yrs. | | | | |

| 1. | 2. | | .3 , | 4, | ago com again transports | E : | 5, 6, | |
|-----|-----------|----------|--|------|--------------------------|------------|--|------------|
| | | 8) | Animal Science & | 2 | yrs. | | | |
| | | <i>e</i> | Dairying. | /" | | | | |
| | | 9) | Live stock super- visor. | đển. | yrs. | | | |
| ø7. | Ramtek | 1) | Seed Production Technology. | 2 | urs. | ([| Dry land 1 yr | • |
| | | 2) | Plant Prot. tech. & management/ farm Supervisor. | | Ph. et * | 2) | Poultry 1 yr Supervisor | • |
| | | 3) | Crop Science | 2 | yrs. | 3) | Veterinary 6 mt Assistant. | hs. |
| | | 4) | Honticulture Supervisor. | 2 | yrs. | 4) | Nursery 1 yr Supervisor | • |
| | | 5) | Plasticulture | 1 | yrs. | 5) | Crare Oper- 6 m | ths |
| | | 6) | Agro service centre Sup./Agri. imp.prod.& rep. | 2 | yrs. | 5) | Dumper Ope- 6 m rator. | ths |
| | | 7) | Soil Conservation & water management | | yrs. | 7) | Pump opera- 6 m | ths |
| | | (3 | Animal Science & Dairying | | yrs. | 8) | Deiller/ 6.mt Drilling Machine | hs. |
| | | 9) | Live-Stock Super- visor. | 2 | yrs. | 9) | (Mines) Blasting 6 mt Technician (Mines) | hs. |
| | | 100) | Inland Fishery | 2 | yrs, | | | |
| Ø8. | Farshioni | 1) | Plant Prot. Tech. & Mgmt./Farm Super visor. | | | | | ` • |
| | | 2) | Crop Science | 2 | yrs. | 2 |) Poultry 1 yr Supervisor | • |
| | | 3) | Agro Science centre supervisor/ Agri, Imp.Prod. & repair. | | yrs, | 30 |) Veterinary 6 m Assistant | ths |
| | | 4) | Soil Conservation & Water menagement | | IJr° ≅. , | 4 | 4) Nursary 1 y Supervisor. | ır. |
| | | 5) | Animal Science & Dairying. | | yns. | | , | |
| | | 6) | Live Stock Super- visor, | 22 | yrs. | | | |
| Ø9. | Saonen | 1) | Plant Prot. Tech. & Mynt./Farm Supervisor | 2. | yrs. | 1) | Dry Land 1 yr Farming | ٠. |
| | | 2) | Crop Science. | 2. | yrs. | 2) | Poultry 1 yr Supervisor | ٠. |
| | | 3) | Honticulture Supervisor | 7 | urs. | 3) | Veterinary 6 mt Assistant. | hs. |
| | | 4) | Agro Service Centre supervisor/Agriimp. prod. & repai | • | yrs. | 4) | · | hs. |

| offers a week grown sewert over the court of a contract of the | aga ya a wasan | | | atable count desire spaces and as clause ways in a comme |
|--|--|--------|---|--|
| 1. 2. | 3, 4 | · | Part A | 6. |
| | 5) Soil conservarion & Water Management | 2 yrs. | 5) Crane Op | er-6 mths. |
| | | 2 yrs. | 6) Dumper O | pe-6 mths. |
| | | 2 yrs. | 7) Pump Ope | r- 6 mths. |
| | A 7' 00.191 | | <pre>8) Driller/ Drilling Machine (Mines)</pre> | • |
| | | | 9) Blasting Tech. (Mines) | 6 mths. |
| lø. Kuhi | 1) Flant prot, Tech, & Mgmt./Farm Super- visor. | ••• | , 1) Dry Lan Farming | (|
| | | 2 yrs | . 2) Poultry Supervi | |
| | 3) Agro Service Centre Supevisor/Agri, imp Prod, & Repair | | • | ary 6 mths |
| | 4) Soil Conservation & Water Mont. | 2 yrs | . 4) Nursary Supervi | |
| | 5) Animal Science & Dairying. | 2 yrs | • | |
| | 6) Live Stock supervisor. | 2 yms | • | |
| 11. Bhivapur | <pre>1) Plant protection Tech, & Mgmt./Farm Supervisor</pre> | 2 yrs | , 1) Dry Lar Farming | |
| | 2) Crop Science | 2 yrs | . 2) Poultry Supervi | - |
| | 3) Agro Service Centre Supervisor/Agri. im | | | ary 6 mths |
| | prod, & repair 4) Soil Conservation & Water mgmt. | 2 yrs | • | |
| | 5) Animal Science & | 2 yrs | • | |
| | Dairying 6) Live Stock Super- visor | 2 yrs | • | |
| 12. Umred | <pre>1) Plant Protection Tech. & Mgnt./farm Supervisor</pre> | 2 yrs | . 1) Dry Lar Farming | |
| | 2) Crop Science | 2 yrs | . 2) Poultry supervi | |
| | 3) Agro Service Centre Supervisor/Agri. im Prod. & Repair | | • | |
| | 4) Soil Conservation & Water Mgmt. | 2 yrs | . 4) Crane Operato | 6 mths. |

| 1. 2. | 3, | 4 . | 5, | <u>.</u> |
|-----------|--|-------------|------------------------------------|----------|
| | 5) Animal Science Dairying | ·& 2 yrs | s, 5) Dumper Operator | |
| | 6) Live Stöck Sup Visor | er- 2 yrs | . 6) Pump Operator | 6 mths |
| | 7) Inland Fishery |) 2 yrs | | 6 mths |
| | | | 8) Blasting Technici (Mines) | |
| 13. Mouda | 1) Fruit, food and Processing & Pr | | . 1) Dry Land Farming | 1 yr. |
| | 2) Plant Prot. Tec Mgmt./Farm Supe | h, & 2 yrs | | |
| | 3) Crop Science | | • | 6 mon |
| | 4) Horticulture su visor | per- 2 yrs | | 6 mths. |
| | 5) Agro Service Ce Supervisor/Agri Prod. & Repair | | | |
| | 6) Soil Conservari& Water Managem | ••• | 3. | |
| | 7) Animal Science & Dairying | 2 yrs | 5 . | |
| | 8) Live Stock Supe | visor 2 yrs | 5 , | |

TARLE 4.6 (Contd.)

SECONDARY SECTOR

| Sr. No. | Tahsil | | Courses identif for S.S.C. stud | ent | 5 | | ourses identifi or non-SSC stud | | |
|------------|---------|-------------|--|-----|------|------|---|-----|------|
| | | | | | | | Course Du | ra: | tion |
| 1. | 2, | | 3, | | 4, | | 5. | | 6. |
| Ø1. | Nagpur | 1) | Mechanical Technology | 2 | yrs. | 1.) | Forging Expert | 1 | yr. |
| | | 2) | Maintenance & Repair of Medic: Laboratory Equipments | | yrs. | 2) | Gear Hubbing Technician | 1 | yr, |
| | | 35) | Electronics Technology | 2 | yrs. | 3) | Maint. & Rep. of Pumps & elect. motor | 1 | yr. |
| | | 4) | Maint. & Rep. of elect. domestic | f 2 | yrs. | 4) | | 6 | mths |
| | | 5) | appliances Radio & T.V. Mechanic | 2 | yrs. | 5) | Galvanising Mechanic | 6 | mth |
| | | <i>(</i> 5) | Computer Technician | 2 | yrs. | 6) | Photo Litho Operator | 1 | ur. |
| | | 7) | Flastic Mould Maker | 2 | yrs. | 7) | Fibre glass Technician | 1 | yr. |
| | | 8) | Knitting with Machine | 2 | yrs. | 8) | Calico printer | 1 | yr. |
| | | | Dress Making & Designing | | | | • | | |
| | * . | 1Ø) | Plastic Process ing Technician | - 2 | yrs. | | | | |
| ð2. | Kamptee | .1 > | Maint. & Rep. o elect. domestic appliances | f 2 | yrs. | 1.) | Mining Machine maint. & repai | | yr. |
| | | 2) | Radio & T.V. Mechanic | 2 | yrs. | 2) | Maint, & Rep. of Pump & elec motor | | yr. |
| Ø3. | Hingana | 1) | Mechanical Technology | 2 | yrs. | 1.) | Forging Expert | 1 | yr. |
| | | 2) | Electronics Technology | 2 | yrs. | 2) | Gear Hubbing Technician | 1 | yr. |
| | | 3) | Maint. & Rep. of elect. dom. appliances | 2 | yrs. | 3) | Maint. & Rep. of pump & elect. motor. | 1 | yr. |
| | | 4) | Radio & T.V. Mechanic | 2 | yrs. | 4) | Electroplater | 6 | mths |
| | | 5) | Plastic mould maker | 2 | yrs. | | | | |
| | | 6) | Plastic Processing Technician | - 2 | yrs. | | | | |

| Ø4, | Kalmes- hwar | 1) | Maint, & Rep, of elect, dom. appliances | 2 | yrs, | 1) | Maint. & Rep. 1 of pump & Elect. motor | yr. |
|-----|-----------------|-----|---|---|-------|-----------|--|-------|
| | | 2) | | 2 | yrs. | | Galvanising 6 Mechanic | |
| | | | | | | <i>3)</i> | Calico printer 1 | yr. |
| Ø5, | Katol | 1) | Mechanical Technology | 2 | yrs, | 1) | Maint & rep. 1 of pump & Elect. motor | |
| | | 2) | Maint, & Rep, of elect, dom, appliances | 2 | yrs. | | | |
| | | 3) | Radio and T.V. Mechanic | 2 | yrs. | | | |
| øs. | Narkhed | 1.) | Maint, & Rep. of elect, dom, appliances | 2 | yrs. | 1.) | Maint, & Rep. 1 of pump & elect. motor | yr. |
| | | 2) | Radio & T.V. Mechanic | 2 | yrs. | | | |
| Ø7. | Ramtek | 1.) | Maint. & Rep. of elect. dom. appliances | 2 | yrs. | 1.) | Mining Machine 1 maint. & repair | yr. |
| | | , | 2) Radio & T.V. Mechanic | | 2 yrs | B. 3 | 2) Maint. & rep. of pump & elect. motor | 1 yr. |
| Ø8. | Parshi- oni | 1) | Maint. & rep. of elect. dom. appliances | 2 | yrs. | 1) | Maint, rep. 1 of pump & elect, motor | yr. |
| | | 2) | Radio & T.V. Mechanic | 2 | yrs. | | • | |
| | Saoner | 1.) | Maint. & rep. of elect. dom. appliances | 2 | yrs. | 1. > | Mining machine 1 maint. & repair | yr. |
| | | 2) | Radio & T.V. Mechanic | 2 | yrs. | 2) | Maint. & rep. 1 of pump & elect. motor | yr. |
| 1Ø. | Kuhi | 1) | Maint, & rep. of elect. dom. | 2 | yrs. | 1) | of pump & | yr, |
| | | 2) | appliances Radio & T.V. Mechanic | 2 | yrs, | | elect. motor | |
| 11. | Bhivapur | 1) | Maint. & rep. of elect. dom. appliances | 2 | yrs. | 1.) | Maint. & rep 1 of pump & elect. motor | yr. |
| | | 2) | Radio & T.V. Mechanic | 2 | yrs. | | ereco • Heben. | |

| Umred | 1) | of elect, dom. | 2 yrs. 1 |) Mining machine maint. & rep. | 1 yr. |
|-------|--------|---|---|---|--|
| | 2) | Radio & T.V. Mechanic | 2 yrs. 2 |) Maint. & rep. of pump & elect. motor | 1 yr. |
| Mouda | 1) | Maint, & rep. of elect, dom. appliances | 2 yrs. 1 |) Maint. & rep. of pump & elect. motor | 1 yr. |
| | | Radio & T.V. Mechanic | 2 yrs. | | |
| | ` ভ্র> | Chemical plant Operator | 2 yrs. | | |
| | | 2) Mouda 1) 2) | of elect. dom. appliances 2) Radio & T.V. Mechanic Mouda 1) Maint. & rep. of elect. dom. appliances 2) Radio & T.V. Mechanic 3) Chemical plant | of elect, dom. appliances 2) Radio & T.V. 2 yrs. 2 Mechanic Mouda 1) Maint. & rep. 2 yrs. 1 of elect. dom. appliances 2) Radio & T.V. 2 yrs. Mechanic 3) Chemical plant 2 yrs. | of elect, dom. appliances 2) Radio & T.V. Mechanic 2) urs. 2) Maint. & rep. of pump & elect. motor Mouda 1) Maint. & rep. of elect. dom. appliances appliances 2) Radio & T.V. Mechanic 3) Chemical plant 2 yrs. maint. & rep. of pump & elect. motor 2 yrs. Maint. & rep. of pump & elect. motor 2 yrs. |

TERTIARY SECTOR

| Sr. No. | Tahsil | | | | | | Courses identified for non-SSC students | | |
|------------|--------|-----|---|----------------------|------|---------------|--|----------|-----------|
| | | | Course D | urat | ion | | Course | Dura | tion |
| 1. | 2. | | 3, | alook albig sagas as | 4. | pa pa a ana 1 | | - | ٥. |
| Ø1. | Nagpur | 1) | Office Manage- | 2 | yrs, | 1) | Body buildin (Vehicle) Me | | yr. |
| | | 2) | Stenography & Typewriting | 1 | yr. | 2) | | - | mth: |
| | | 3) | Accounting & Auditing | 2 | yrs. | 3) | Tyre remould ing & Valca- nising | | mth: |
| | | 4) | Marketing & Salesmenship | 2. | yrs. | | 114 241123 | | |
| | | 5) | Purchasing & Store-keeping | 2 | yrs. | | | | |
| | | 6) | Secretarial practice | 2 | yrs. | | | | |
| | | 7) | Transport Management | 1• | yr. | | | | |
| | | 8) | General Insurance | 2 | yrs. | | | | |
| | | ዓ) | Auto Engg. Technician | 2 | yrs. | | | | |
| | | 1Ø) | Building Maintenance. | 2 | yrs. | | | | |
| | | | Rural Engg. Technology | 2 | yrs, | | | | |
| | | | Medical Lab. Technician | | yrs. | | | | |
| | | | X-ray Technicia | | | | | | |
| | | | Opthalmic Technician | | yr. | | | | |
| | | 15) | Creche & Pre- school manageme | | yrs. | | | | |
| | | 16) | Multi-purpose Health Worker (Male/Female) | 2 | grs. | | | | |

| 1. | 2. | p | 3 | • | 4. | | | (| 5. |
|-------|-----------------|------------|--|----------|--------------|-------------|---|------------|------------|
| | | 47 | D 4 2 14 | | | | | | |
| | | | Dental Hyginist | | _ | | | | |
| | | | Medicine Testing Expert | | | | | | |
| | | | Pharmacist | | | | | | |
| | : | 2Ø) | Catering & Rest- aurent management | | yrs. | | | | |
| | : | 21) | Bakery & Confectionery | | yrs. | | | | |
| | | 22) | Institutional House keeping | 2, | urs. | | | | |
| | • | 23) | Cookery | 2 | yrs. | | | | |
| | | | Receptionist | 1 | ur. | | | | |
| | | | House & interior decoration | | | | | | |
| | ; | 26) | Beauty Tech- nician | 1 | yr. | | | | |
| | : | 27) | Travel & Tourism | 2 | yrs. | | | | |
| Ø2. | Kamptee | 1) | Office Manage- ment | 2 | yrs. | 1> | ing & Valcani- | 6 1 | mths |
| | | 2) | Stenography & | 1 | yr, | | sing | | |
| | | | Typewriting Mktg. & Salesman | | • | | | | |
| | | | | | yrs. | | | | |
| | | 4) | | | ÿr. | | | | |
| | | | Management | | | | | | |
| | | | Auto Engg. Tech. | | | | | | |
| | | 6) | Rural Engg.Tech. | | | | | | |
| | | 7) | Health Worker | 2 | yrs. | | | | |
| | | ~ \ | (Male/Female) | , | | | | | |
| | | | Bakery & Confec- | | yrs. yrs. | | | | |
| | | | tionery | | | | | | |
| ø3. | Hingana | 1) | A/c & Auditing | 2 | una | 1 } | Hazvu Vahicle | 4 1 | nt h |
| o., • | mingana | | Auto Engg. Jech. | | _ | | Driver | | |
| | | استد | navo engg. Jech. | <u>ت</u> | St.p. | <i>i.</i> / | ing & Valcani- | . I | 111 6 1 1: |
| | | 3) | Rural Engg. | 2 | yrs. | | | | |
| | | 4) | Technology Multipurpose | 2 | yrs. | | | | |
| | | 5) | Health Worker (Male/Female) Cookery | | | | | | |
| | | | | | | | | | |
| ð4. | Kalmesh- war | 1) | Rural Engg. Technology | 2 | yrs. | 1) | Tyre remould- ing & Valcani- sing | 6 1 | mt h |
| | | 2) | Multipurpose Health Worker (Male/Female) | 2 | yrs. | | 311 13 | | |

| 1. | 2 + | | 3. | | 4. | | 5. | 6. |
|-----|----------------|------|--|---|------|-----|--|-------|
| Ø5. | Katol | 1) | Auto Engg. Tech. | 2 | yrs. | 1) | (Vehicle) | ur. |
| | • | 2) | Bldg. Mainte- nance | 2 | yrs, | 2) | Mechanic Tyre remould- 6 ing & Valcani- sing | mths, |
| | | 3) | Rural Engg. Technology | 2 | yrs. | | | |
| | | 4) | Medical Lab. Technician | 2 | yrs. | | | |
| | | 5) | Creche & Pre- school Manage- ment | 2 | yrs. | | | |
| | | 6) | Multipurpose Health Worker (Male/Female) | 2 | yrs. | | | |
| | | | Pharmasist Bakery & Confec- | 2 | yrs. | | | |
| | | wy r | tionary | 2 | yrs. | | | |
| Ø6. | Narkhed | 1) | Rural Engg. Technology | 2 | yrs. | 1 > | Tyre remould- 6 ing & Valcani- sing | mths. |
| | | 2) | Multipurpose Health Worker (Male/Female) | 2 | yrs, | | | |
| Ø7. | Ramtek | 1) | Auto Engg Technician. | Z | yrs. | 1) | Tyre remould- 6 | mths |
| | | 2) | Rural Engg. | 2 | yrs, | | sing | |
| | | 3) | Technology Multipurpose Health Worker | 2 | yrs. | | | |
| | | 4) | (Male/Female) Travel & Tourism | 2 | yrs. | | | |
| Ø8. | Parshi- oni | 1) | Rural Engg. Technology | 2 | yrs. | 1) | Tyre remould6 ing & Valcani- sing | mths, |
| | | 2) | Multipurpose Health Worker (Male/Female) | 2 | ýrs. | | | |
| Ø9. | Saoner | 1.) | Bulilding Maintenance | 2 | yrs. | 1) | Tyre remould- 6 ing & Valcani- sing | mths. |
| | | 2) | Rural Engg. Technology | 2 | yrs. | | 22 # 1 JPJ | |
| | | 3) | Medical Lab. Technician | 2 | yrs. | | | |
| | | 4) | Multipurpose Health Worker (Male/Female) | 2 | yrs. | | | |
| | | 5) | Pharmacists | 2 | yrs. | | | |

| 1. | 2. | | 3. | | 4. | ······································ | 5. | 6. |
|-----|----------|-------------|---|----|--------------|--|---|--------|
| ıø. | Kuhi | 1) | Rural Engg. Technology | .5 | yrs. | 1) | Tyre Remould- ing & Valcani- sing | 6 mon |
| | | 2) | Multi-purpose Health Worker (Male/Female) | 2 | yrs. | | 2103 | |
| 11. | Bhi∨apur | 1) | Rural Engg. Technology | 2 | yrs. | 1) | Tyre remould- ing & Valcani- sing | 6 mth |
| | | 2) | Multi-purpose Health Worker (Male/Female) | 2 | yrs. | | | |
| 12. | Umred | 1) | Auto Engg. Tehcnician | 2 | yrs. | 1) | Body Building (Vehicle) Mechanic | 1 yr, |
| | | 2) | Building Maint- enance | 2 | yrs. | 2) | Tyre remould- ing & Valcani- sing | 6 mths |
| | | 3) | Rural Engg. Technology | 2 | yrs, | | | |
| | | 4) | Multipurpose Health Worker (Male/Female) | 2 | ūrs. | | | |
| | | | Pharmacists Bakery & Confec- tionary | | yrs. yrs. | | | |
| 13. | Mouda | 1) | Rural Engg. Technology | 2 | yrs. | 1) | Tyre remould- ing & Valcani- sing | 6 mths |
| | | 2) | Multipurpose Health Worker (Male/Female) | 2 | yrs. | | = 1 * 125 | |
| | | | • | | • | | | |

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APPENDIX - 1

LAND USE PATTERN 1985-86

(Area in 100 Hectares) Sr. Tahsil Geogra Area not available for cultivation Other cultivated land Area phical Total under No 4 area. Land put Barran & forest Cultivable total Posture & Land under to nonuncultiwaste agricul. grazing misc. trees vated use. ľand DADVES etc. land. (Permanent 6. 8. 9. 10 З. 5. 7. 2. 4. 11. 1. Nagpur 39 15 74 54 209 1 14 88 (urban) (7-17)(100.00) (0.47)(35.41)(6.70)(42.10)(18.66)(25.84)++4+++++++ 10 82 2. | Nagpur 620 37 16 53 . 24 20 38 (2.58)(3.23)(Rural) !(100.00) (1.61)(5.96)(0.8.55)**93.87**) (6.12) (13.22)TTÖLLLILLI 34 7E6 138 39 11 50 11 102 147 3. Hingma (4.33) (1.40)(18-70) (100.00) (17.56)**9**4.96) (12.98)(1.40)(6.36)53 9 5b 1C 4. Kampthi -- * 50 63 424 (2.36)(11:79)(12.50)(2.12)(11.79)-(14.86)(100.00 ++4+++--78 73 842 128 5 54 151 49 5. | Katol (6.41)(9.26)(8.67)杜 (17.93)(15.20)(5.82)(0.59)(100.00)21 119 18 80 6. | Narkhed 768 47 19 27 46 (2.73)(5.99)(2.34)(10.42)(15.49)(100.00)(6.11)(2.47)(3.52)__ 🛠 47 80 127 33 7. Saoner 619 1 (100.00); (0.16)(5.33)(5.33)(7.59)(12.92)(--) (20.52)

- 204 --12x -2-

| 1. 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10 | 11. |
|----------------|-----------------------------------|---------------------------------|---------------------------------|------------------------|---------------------------------|---------------|------------------------|-----------------------|-------------------------|
| 8. Kalmeshwar | 543 (100.00) | 40 (7.37) | 8 (1.47) | 19 (3.50) | 27 \$ 4.97) | 32 (5.89) | 65 (11.97) | . | 97 (17 . 86) |
| S. Ramtek | 1143 (100.00) | 629 (55 . 3) | 32 (2 . 80) | 37 (3.23) | 69 (6 . 03) | 45 (3.94) | 74 (6.47) | 13 (9-09) | 132 (11.54) |
| 10. Parshivani | 787 (100.00) | 224 9 28 . 46) | 13 (o.38) | 122 (15.50) | 135 (11 . 81) | 13 (0.38) | ÷ | A | 13 (0.38) |
| 11.Mauda | 613 (100.00) | 1 9 0.16) | | ÷ | ~ | 25 (4.07) | 71 (11.58) | | 96 (15 .6 6) |
| 1.2.Umred | 9 7 9 (100 . 00) | 220 (22 . 47) | 29 (2.97) | 75 9 7.66) | 104 (10. <u>6</u> 2) | 13 (1.33) | 37 (3.78) | 25 (2 . 55) | . 75 (7 . 66) |
| 13.Bhivapur | 702 (100.00) | 126 (17 . 95) | 52 (7.41) | 13 (0.42) | 65 (9 . 25) | 15 (2.14) | 16 (0.85) | 9 ¢1. 28) | 40 (5 . 59) |
| 14.Kuhi | &29 (100.00) | 137 (16.53) | 44 (5.3 1) | 8 (0.96) | 52 (6.27) | 20 (2.41) | | 51 (6.15) | 71 (8 . 56) |
| TOTAL | 9864 (100.00) | 1711 (17 . 35) | 479 (94 . 86) | 347 (3.52) | 826 (8.37) | 403 (4.08) | 552 (5 . 60) | 312 (3.16) | 1267 (12.84) |

-205 - APPENIDX -1 (Contd)

| Sr.No. Tahsil | | Fellow lar | nd | Net area sow | | Gross cropped Arca |
|----------------------|-------------------|-------------------|-----------------|----------------------|-------------------|-----------------------------|
| 8 1 6 6 | Current Fallow | Other fallow | Total | | more than опсе | |
| 1. 2. | 12. | 13 | 14 | 15 | 1668888 | 17 |
| 1. Nagpur (urban) | . 6 (2.87) | 19 (9.09) | 25 (11.96) | 41 (19.62) | - 5 (2,39) | 46 (22.01 0) |
| 2. Nagpur | 40 | .19 | 59 | 416 | 23 | 439 |
| (Rural) | (6.45) | (3.06) | (9 . 52) | (67.09) | (3.71) | (70.81) |
| 3.Hingna | 17 | 60 | 77 | 374 | 22 | 396 |
| | (2.16) | (7 . 63) | (9 - 80) | (47 . 58) | (2 .80) | (50,38) |
| 4. Kampthi | 2 | 8 | 10 | 292 | 28 | 32 |
| | (00 47) | (1.88) | (2.36) | (68 . 86) | (6.60) | (7.55) |
| 5. Katol | 26 | 25 | 45 | 464 | 48 | 512 |
| | (2.38∌ | (2 . 97) | (5 .34) | (55.10) | (5.70) | (60,80) |
| 6. Narkhed | . 10 | 30 | 40 | 516 | 61 | 577 |
| | (1.30) | (3 . 90) - | (5 . 21) | (67 . 19) | (10.14) | (75 . 13) |
| 7. Saoner | 20 | 50 | 70 | 388 | 30 | 418 |
| | (3.23) | (8 ÷ 08) | (11.31) | (62.68) | (4 .8 5) | (67.53) ثم |
| 8. Kalmeshwar | 17 | 31 | 48 | 331 | 30 | 361 |
| | (3.13) | (5.71) | . (8.84) | (60 . 96) | (5.52) | (66.48) |
| S. Rammeek | 18 | 26 | %6 44 | ##269 | %69 2 | 271 |
| | (1.57) | (2.27å | (3.85) | (23.53) | (0.17) | (23.71) |
| 10.Parshivani | | 67 (8.51) | 67 (8.51) | 348 (44.21) | 11 (1.40) | 559 (45.62) |

(CONTD)

| 1. 2. | 12. | 13. | 14. | 15. | 16. | 17. |
|-------------|---------|---------------------|-----------------|------------------|-----------------|------------------|
| 11.Mauda | 6 | 38 | 44 | 472 | 11 | 483 |
| | (0.97) | (6.20) | (7.18) | (76 , 99) | (1.79) | (78.79) |
| 12. Umred | 7 | 86 | 93 | 487 | ~ 24 | 511 |
| | (0.72) | (8.78) | (9 . 95) | (49.74) | (2.45) . | (52 .2 0) |
| 13.Bhivəpur | 3 | 14 | 17 | 454 | 16 | 470 |
| | (0.43) | (2. ₀₀) | (2.42) | (64.67) | (2.27) | (66.95) |
| 14, Kuhi | 6 | 14 | 22 | 547 | 30 | 577 |
| | (0.96) | (1.69) | (2.65) | (65.88) | (3 . 62) | (67 . 60) |
| TOTAL | 174 | 487 | 661 | 5399 | 341 | 5740 |
| | (1.76) | (4.94) | (6.70) | (54.73) | (3.46) | (58 - 19) |

(Source : District Stastical Abstract)
1987-88)

NOTE: 1) * less than 50 hectares.

22 figures in bracket indicate percentages to the geographical area.

APPENDIX-2
Tahasilwise classification of villages to population ranges in 1981.

| | | | | | | | | | | | | (Population | in hundred) | | , |
|-----------------|-------------|---------------|--------|--------------|--------------------|-------------|--------|---------------|-------|------|----------------|--------------------------|---------------------------|----------------------------|---|
| Tahasil | | | | No. | of vill | ages hav | ing pu | oulation | | | | | | | |
| | | ess an 500 | 500-99 | 9 | 1000-1 | 999 | 2000- | 4 99 9 | 5000- | 9999 | 10000 مواری | and epward Sve | To | otal | - |
| | No. | Pers- ons | 110. | Per- sons | KN N No. | Per sons | No. | Per sons | Mo. | Per- | No. | Persons | No. | Persons | |
| 1. 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. | 11. | 12. | 13. | 14. | 15. | 16 | |
| 1. Nagpur | 69 | 202 | 41 | 310 | 12 | 165 | 2 | 71 | 1 | 63 | - - | 9 | 145 (8.74) (| 811 7.24) | · |
| 2. Hingna | 77 | 169 | 30 | 210 | 10 | 132 | 2 | 74 | 4 | 254 | _ | | 123 (7.42) | 839 *18. 49) | |
| 3. Kampth. | i 31 | 100 | 21 | 141 | 15 | 184 | 5 | 174 | 1 | 87 | 1 | 133 | 74 (4.46) | 819 (7.32) | |
| 4. Katol | 104 | 230 | 40 | 280 | 19 | 243 | 4 | 131 | 1 | 93 | - | _ | 169 (10 . 19)(8 | 977 3 - 73) | |
| 5.Narkhed | 70 | 151 | 37 | 270 | 18 | 253 | 6 | 193 | 1 | 53 | - | _ | | 920 (8.22) | |
| 6.Saoner | 60 | 139 | 38 | 255 | 18 | 256 | 5 | 149 | 4 | 244 | _ | - | 125 (7.53) | 1043 (9.32) | |
| | hwear 43 | 99 | 29 | 204 | 14 | 189 | 5 | 153 | | - | - | - | 91 (5.49) | 645 (5.76) | |
| !!!! C.Rmtek | 8 6 | 191 | 43 | 287 | 16 | 228 | 3 | 121 | - | _ | 1 | 112 | | 939 (8.380 ₎ | |

| | | | | 1 | | 1 | | | 1 | <u> </u> | | | | |
|---------------------|-------------|------|-------------|--------------|-----|------|-------------|--------------|----|----------|-----|-----|------------------|-----------------------------|
| 1 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 9. Parshivani | 58 | 153 | 27 | 184 | 19 | 261 | 3 4 4 | 79 | 1 | 67 | 1 | 136 | 109 (6.57) | 880 (7 - 86) |
| 10.Mauda | 65 | 192 | 38 | 241 | 10 | 145 | 7 | 191 | 1 | 56 | - | | 121 (7.29) | 825 (7 . 36) |
| 11. Umred | 108 | 233 | 28 | 199 | 9 | 122 | 6 | 135 | 2 | 118 | - | | 153 (9.23) | 807 (7 . 21) |
| 1 2.Bhivapur | 63 | 157 | .35 | 236 | 12 | 161 | 1 | ,38 | - | | 1 | 102 | 112 (6.76) | 694 (6.20) |
| 13.Kuhi | 63 | 228 | 51 | 346 | 17 | 231 | 2 | 60 | 2 | 132 | - i | | 155 (9.35) | 997 (8.90) |
| TOTAL : | 93 8 | 2244 | 4 58 | 3 163 | 189 | 2570 | 51 | 156 <i>9</i> | 18 | 1167 | 4 | 483 | 1658 (100.00) | 11196 (100 2. 00) |

Note: 1) Figures in bracket indicate percentage to totals.

2) Total will not tally due to rouning.

(Source : Population census 1981.)

APPENDIX-3

Tahasilwise occupation Pattern Rural and Urban Classification as per 1981 Census

Culti- Agricus Vancable Colors Total

(Figures in '00')

| r. Tahsil | ULDan | ! | | Main | workers | | Marginal workers | Non workers | Total population | 1 |
|------------------------|---------------------------|------------------------|--------------------------------|--|----------------------|------------------------------|------------------------|---------------------|----------------------------------|---|
| | Total | Culti- vators | Agricu- ltural labourers | Household industries & mfg. processing. | Other workers | Total main workers. | | | | |
| 1. 2, | 3. | 4. | 5. | 6. | . 7 . | 8. | 9 | . 1099 | 11. | |
| 1. ¹ Nagpur | Rural UrbAN Total | 107 38 145 | 177 44 - 221 | 13 267 280 | . 88 2880 2968 | 385 3229 3 6 14 | 15 97 112 | 409 8887 9296 | 811 12213 13024 | |
| 2. Hingnə | Rural Urban Total | 116 11 <u>6</u> | 167 167 | 14 14 | 72 72 | 369 369 | 16 16 | 454 454 | 839 839 | 1 |
| 3. Kampthi | Rural Urban Total | 99 4 103 | 130 6 136 | 6 34 40 | 143 228 371 | 378 2 7 2 650 | 17 20 37 | 424 566 990 | 819 857 1676 | |
| 4. Katol | Rural Urban Total | 177 12 189 | 234 28 . 262 | 7 2 9 | 50 36 86 | 468 78 546 | 45 1 46 | 464 162 626 | 977 240 1217 | 1 |
| 5.Narkhed | RURAL Urban Total | 169 23 192 | 216 '39 255 | 8 6 14 | 39 20 59 | 432 88 520 | 32 6 38 | 456 135 591 | 920 229 1149 | 1 |
| €. Saoner | Rural Urban Total | 174 16 190 | 181 30 211 | 12 20 32 | 100 59 159 | 4 67 125 592 | 55 0 7 62 | 521 236 757 | 1043 367 1410 | : : : |
| 7. Kalmeshwea | r Rural Urban Total | 122 12 134 | 120 16 136 | 12 2 14 | 53 19 72 | 307 49 356 | 44 15 59 | 294 92 386 | 645 15 8 803 | |

| | | | | | | | | A. | | |
|---------------|-------------------------|---------------------|----------------------------|-------------------|----------------------------|-----------------------------|----------------------|------------------------|-------------------------|---|
| 1. 2. | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11. | 1 |
| 8. Ramtek | Rural Urban Total | 133 6 139 | 140 8 148 | 7 2 9 | 145 35 180 | 425 51 476 | 52 5 57 | 462 111 573 | 939 167 1106 | 1 |
| 9. Parshivani | Rural Urban Total | 109 1 110 | 121 4 125 | 7 1 8 | 153 26 1 1 79 | 390 3#9 <u>37</u> 422 | 45 3 48 | 445 86 531 | 880 121 1001 | |
| 10.Mauda | Hural Urban Total | 146 146 | 159 159 | 16 16 | 43 43 | 364 364 | 5 1 51 | 410 - 410 | 825 825 | - |
| 11.Umrec | Rural Urban Total | 130 10 140 | 177 - 24 2 01 | 15 20 35 | 64 48 112 | 386 102 488 | 32 19 51 | 389 219 608 | 807 339 1146 | ; ; ; ; ; ; |
| 12.Bhivapur | Rural Urban Total | 120 120 | 179 179 | 14 14 | £ 31 31 | 344 344 | 29 29 | 322 322 | 694 694 | |
| 13.Kuhi | Rural Urban Total | 193 193 | 218 218 | 14 14 | 47 47 | 472 472 | 62 62 | 463 463 | 997 997 | |
| TOTAL | Rural Urban Total | 1795 122 1917 | 2219 199 2418 | 145 354 499 | 1028 3351 4379 | 5188 4026 9213 | 495 172 667 | 5513 10495 16008 | 11196 14693 25888 | |

(Source : Population 1981)

Note: 1) Total will not tally due to recounding.

^{2) *} This asterisk shows that the figures are less than 50.

^{3) &}quot;Other workeers" showm in column 7 indicates live stock forestry-

Fishing, hunting, plantation etc. add also construction trades, transport, storage and communication otherthan household industries add other sector.

APPENDIX-4

Statement showing Tahsilwise area under different crops

| | | | 1 | Statemen | t showin | g Tahsilwi: | s e area un der | different | | rea in '100' Hectares) |
|----------------------|--------------------------------------|----------------------|-----------------------|-------------------------|------------------|--|------------------------|---------------|--------------------|------------------------|
| Tahsil | Year | Rice | Wheat | | Jawar (rabbi) | Bajari | Maka | Wa y i | Other | Total |
| 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10 | 11. |
| l. Nagpur (Urban) | 1984 -6 5 1985 - 86 | 307 268 | 751 728 | 1880 1810 | 2 2 | - - | 44 68 | _ | - ! 2 | 2984 2878 |
| | 1984 - 85 1985 - 86 | 630 531 | 3916 4095 | 13801 13358 | 9 26 | - | 5 2 | - | i i i | 18361 18012 |
| 3. Hingna | 1984 - 85 1985 - 86 | 570 784 | 1808 1666 | 16416. 15174 | - - | <u>1</u> - | ε 1 | - - - | • • • • | 18803 17625 |
| 4.Kampthi | 1984 - 85 1985 - 86 | 1684 1717 | 7942 7782 | | 106 115 | 1 1 | 11 22 | - - | 3 5 | 16917 16062 |
| 5. Katol | 1984 - 65 1985 - 86 | 948 898 | 3219 2716 | 20 22 3 19941 | | 55 51 | 21 17 | <u> </u> | 8 6 | 24474 23629 |
| 6.Narkhed | 1984 - 85 1985 - §€ | 845 655 | 3734 3628 | 21525 20655 | | 115 111 | 7 9 | | 3 6 | 26229 25064 |
| 7. Saoner | 1984 - 85 1985 - 86 | 344 295 | 2 64 1 2512 | 17027 186 8 7 | 1 1 | 8 | 6 2 | - | _ 1 | 20027 21478 |
| C.Kalmeshwear | 1985-86 | 401 300 | 3398 2667 | 17089 15186 | - | and the second s | - | _ | 1 -1 | 20888 18154 |
| S.Ramtek | 1984 - 85 1985 - 86 | 8501 7795 | 2707 2342 | | 5261 5192 | <u>-</u> | 26 466 | - | - 1 | 20659 19807 |
| 10.Parshivani | 1984 - 85 1985 - 86 | 2150 213 4 | 5724 5601 | 11684 11028 | 254 155 | - | 24 26 | - | € 8 | 19844 18949 |

| | | | | | | | | | L | ! | 4 | deneral en |
|------|----------------|--|-----------------------|------------------------|------------------|----------------|------------|------------|-------------------|------------|-------------------------|--|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11. | 1 |
| 11. | M a uda | љ 984-85 1985-86 | 11551 12373 | 9377 2 10029 | 1588 2124 | 9522 235 | 2 | - | i – i – | 7000 | 32040 31761 | |
| 12. | Umrec | 198 7- 85 1 985 - 86 | 3 351 2406 | 7113 6958 | , | 4618 4461 | _ | - | - | - | 23284 2 24 83 | |
| 13. | Bhivapur | 1984-85 1985 - 86 | 42 1 2 4412 | 6794 6656 | 473 431 | 12961 12569 | | - | - * - | ± - | 24440 24038 | |
| 14. | Kuhi | 1984 - 85 1985 - 86 | 8351 8592 | 8125 7951 | 2987 2661 | 12795 12741 | _ | 1 1 | - - | - 2 | 32259 32148 | |
| TOTA | AL : | 1984 - 65 1985 - 86 | 42845 43157 | 67249 65331 | 145229 140324 | 45529 35497 | 182 163 | 153 614 | <u>-</u> | 22 7032 | 301209 292118 | |

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(Appendix 4 Contd.)

| | | | | | | i | <u> </u> | | 1 | |
|----------------------|--|-----------------------|--------------|--------------|---------------------|----------------------|--------------------------|---------------|----------------------|--------|
| Tahsil | Year | Gram | Tur | Nug | Other pulses | Total pulses | Total food grain: | SugAR cane | Spices. | 1 |
| 1. | 2. | 32 | 13 | 14 | 15. | 16 | 17. | 18 | 19. | |
| 1. Nagpur (urban) | 1984 - 85 1985 - 86 | 82 89 | 4 | 3 7 | 9 177 | 412 572 | 3396 3450 | 7 | - 46 57 | |
| 2. Nagpur (Rural) | 1984 - 85 1985 - 86 | 589 799 | 1696 1954 | 575 314 | 532 2925 | 3382 5992 | 21743 4004 | ~- | 569 649 | 1 |
| 3. Hingna | 1984 - 85 1985 - 86 | 506 11 96 | 2195 2454 | 412 411 | 942 492 | 4055 3853 | 22858 21478 | 1 | 128 128 | |
| 4. Kampthi | 19 84- 85 1985 - 86 | 687 681 | 1371 1274 | 56 18 | 900 <u>.</u> 546 | 3014 2519 | 19931 18581 | 69 | 2118 2232 | 1 |
| 5. Katol | 1984 - 85 1985 - 86 | 1600 17 5 7 | 2620 2564 | 1172 1216 | 2207 2262 | 7599 7820 | , 3,0 73 31449 | 20 22 | 343 350 | |
| 6. Narkhed | 19 84- 85 1985 - 86 | 1894 2397 | 2834 2766 | 920 812 | 2331 4021 | 7979 9 996 | 34208 35060 | 87 86 | 329 340 | |
| 7. Saoner | 1984 - 85 1985 - 86 | 890 931 | 5117 5464 | 350 277 | 754 697 | 7111 7369 | 27138 28847 | . 15 17 | 244 240 | |
| €. Kalmeshwa | r 1984 - 85 1985 - 86 | 686 732 | 2467 2405 | 343 511 | 1145 68 | 4641 4331 | 25529 22485 | 17 6 | 389 365 | i i |
| S. Ræmtek | 1984 - 85 1985 - 86 | 709 857 | 1770 2030 | 106 108 | 475 · 298 | 3060 3293 | 23719 23100 | 51 44 | 566 690 | |
| 10.Parshovan | i 1984-85 1985-86 | | 5383 5058 | 143 138 | 1542 1597 | 8231 7848 | 28075 26797 | 3 31 | 1 0 12 901 | |
| 11.M e ude | 1984 - 85 1985 - 86 | | 2455 2263 | 24 20 | 2426 485 | 6404 4434 | 38444 36195 | 8 17 | 2092 2254 | |

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| 1. | 2. | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | |
|--------------|--------------------------------------|--------------|----------------|--------------|-----------------------|----------------------------------|-------------------------|------------|----------------|---|
| | 1984 - 85 1985 - 86 | 1012 1161 | 1637 1777 | 228 202 | 7658 8 40 6 | 10 5 35 11 5 46 | 33819 34029 | 1 | 3€38 3810 | |
| 13. Bhivapur | 1984 - 85 1985 -88 | 980 981 | 1189 1192 | 28 38 | 5738 6335 | 7935 8546 | 32375 ~ 32614 | | 6214 6068 | |
| | 198 5-86 1985 - 86 | 1220 1285 | 2340 2326 | 83 52 | 5181 2111 | 8824 5774 | 41083 37922 | 22 | 7315 8064 | |
| | 1984 - 85 1985 -86 | | 33392 33826 | 4443 4124 | 31840 31035 | 83182 83893 | 384391 376011 | 202 322 | 25003 26148 | , |

-215-(Appendix 4 contd.)

| Tahsil | year | Fruits & veg e tables | Misc. edible cropsQ0 | TOTAL A de diblum crops. | Cotton | Other fibres. | Total fibres. | Ground - nut. | Linseed | Safflower. | |
|--------------------------|--|---------------------------------|----------------------------|---|----------------|------------------|-----------------------|------------------|--------------|------------|------------------|
| ‡ _* ×N¤ÿRuz×× | 2. xx 1984x85 xx | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | |
| 1. Nagpur (Urban) | 1984 - 85 1985 -8 6 | 502 465 | | 3 544 3979 | 96 102 | 3 4 | 9 9 106 | 2 1 | 326 314 | 1 | |
| 2. Nagpur | 1984 - 85 1985 - 86 | 2075 2149 | | 2 4 387 26802 | 9560 10650 | 4 3 | 9564 10653 | 84 96 | 3026 3006 | 1 | |
| 3. Hingna | 198 4- 85 1985 - 86 | 1456 1476 | ! | 24443 23082 | 16048 15601 | 85 8 4 | 16133 15655 | 114 95 | 129 98 | - - | |
| 4. Kampthi | 1984 - 85 1985 - 86 | 2162 2135 | 13 12 | 24224 23029 | 712 746 | 14 20 | 726 766 | 18 13 | 4978 5001 | 2 2 | |
| 5.Narkhed | 1984 - 85 1985 - 86 | 3684 3921 | | 38308 39407 | 13434 11392 | 296 204 | 13730 11596 | 5322 5962 | 237 · 258 | 5 2 | |
| €. Katol | 1984 - 85 1985 - 8 6 | 4053 3937 | | 36489 35758 | 9473 9179 | 156 183 | 9629 9362 | 4582 4770 | 147 81 | - - | |
| 7. Saoner | 1984 - 85 1985 - 86 | 2518 2890 | 2 | 29917 31995 | 5694 6508 | 12 10 | 5706 6518 | 1674 1926 | 485 362 | 1 - | - - |
| €. Kalmeshw | ar 1 8 84-85 1985-86 | 4380 4273 | | 30315 27129 | 7442 6325 | 18 5 | 7460 6330 | 1356 1536 | 528 414 | - | |
| S.Ramtek | 1984 - 85 1985 - 86 | 841 784 | - | 25177 24618 | 4 121 | 83 94 | 87 215 | 15 13 | 1191 1513 | 10. 1 | 4 4 4 4 |
| 10.Parshiva | ni 1984-85 1985-86 | 1747 1733 | | 30837 29462 | 2275 3292 | 89 54 | 2861 2446 | 321 .203 | 2624 2021 | | |

| 1. | 2. | 20. | 21,. | 2 2 . | 23 | 24. | 25. | 26. | 27. | 28. | |
|----------|--------------------------------------|--------------------|------------------|---------------------------|----------------|-------------------|-----------------------|------------------------|----------------|-----------|--|
| 11.Meuda | 1984 - 85 1985 - 86 | | 10 | 41843 39757 | 2 | 58 9 32 | 58 34 | 13 12 | 4609 4465 | 10 - 2 | |
| 12.Umred | 1984 - 85 1985 - 86 | | 36 | 37870 38227 | 6621 7119 | 21 7 | 6642 7126 | 11 7 | 4254 4263 | | |
| 13.Bhiva | pur 1984- 1985 - 86 | | | 39132 39141 | 1074 1130 | 25 33 | 1099 11 6 3 | 2 | 4323 4716 | 1 | |
| 14.Kuhi | 1984 - 85 1985 - 86 | 90 7 905 | 28 3 2 | 49333 46945 | 6 9 · | 243 281 | 249 2 9 0 | 1 2 | 5625 5631 | i i i | |
| TOTAL : | 1984-65 1985 - 86 | 26534 26805 | 89 45 | 436 1 19 429331 | 72439 71276 | 1112 984 | 73551 72260 | 2 3408 14435 | 32273 32148 | 28 10 | |

- 217-(Appendix 4 contd.()

| Total | Year | Sesamam | Other oil s ee ds | Total oil seeds | Tobacco | Other drugs and ngrcoities. | FEGGET Crops | Misc non- food crops. | Total non- food crops- | |
|--------------------|---------------------------------------|----------------|--------------------------------|-----------------------|---------------|--------------------------------------|--------------------|--------------------------------|------------------------------------|---|
| 1. | 2. | 2 922 x | я́ж 30 | fix 31 | 32 6 . | 33 | 34 | 35- | 38. | |
| | 1984-85 1985 - 86 | 66 | 323 108 | 717 424 | | | 35 31 | 41 32 | 892 593 | |
| | 1984 - 65 1985 - 86 | 604 | 2246 33 5 8 | 5960 6461 | | | 9 16 | 11 10 | 1554 4 17140 | , |
| 3. Hingma | 1984 - 85 1985 - 86 | 369 | 683 | 612 875 | | | 6 | 37 21 | 16782 16557 | |
| | 1984 - 85 1985 - 86 | 1782 | 614 3173 | 7387 8189 | | | 1 | 3 | 8 117 &955 | |
| | 1984-85 1985-86 | 522 | 672 1225 | 5923 6076 | | 25 | 4% 35 30 | 17 26 | 15604 15494 | |
| €. Narkhed | 198 4 - 85 1985 - 86 | 221* | 1236 500 | 7021 6722 | | | 60 21 | 16 3- | 20821 18342 | |
| | 1984-85 1985-86 | 726 | 364 1009 | 3249 3297 | 15 10 | | 4 € | 1 1 | & 97 5 9 & 33 | |
| E.Kalmeshw | ar 1984-85 1985-86 | | . 522 A46 | 2807 2596 | | | 3 1 | 4 14 | 10274 8941 | |
| S.Ramtek | 1984 - 85 1985 - 86 | 319 | 110 768 | 164 5 2295 | | 1 | | | 1733 2510 | |
| 10.Parshi- vani | 1984 - 85 1985 - 86 | 2038 | 5 1772 | 4680 3996 | | | 1 1 | 1 1 | 7051 6444. | |

| _ | 7 | 1 | J | |
|---|---|---|----|---|
| | | • | 13 | _ |

| | | | | | | | | , | | |
|------------|--------------------------------------|-----------|---------------------|--------------------------------|----------|-------------|------------|------------|---------------------------|----------------------------|
| 1. | 2. | 29. | 30. | 31. | 32. | <i>3</i> 3. | 34. | 35. | 36. | 4 4 4 |
| 1 Mauda | 1984 - 85 1985 - 86 | 1584 | 27 3 84 6 | 6243 8225 | | | 9 9 | | 6310 8268 | 4 4 4 4 8 8 |
| 12.Umred | 1984 - 85 1985 - 86 | 1418 | 8 1458 | 5691 5733 | | | 3 | 19 | 12333 12881 | 1 1 1 1 1 |
| 13.Bhivapu | ur 1984 - 65 1985-86 | 2096 | 18 1976 | 6439 6693 | | | 6 7 | 32 | 7544 7895 | |
| 14.Kuhi | 1984 - 85 1985-86 | 1477 | 12 4852 | 7115 1 0 485 | | | | | 7364 10775 | • • • • • |
| TCTAL: | 198 6- 85 1985 - 86 | 13623 | 6157 24474 | 65489 7 20 67 | 15 10 | 1 - | 163 131 | 131 159 | 139350 14 6 627 | i i |

Source: District Statistical Abstract 1985-86 and 1987-88-

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Statement showing tahasilwise area under varous crops irrigated.

| Taluka | Year | Rice | Wheat | Jawar | Other cereals | | Gram | Ot he r pulses | Total pulses | Sugarcane | 1 42 |
|-----------------------|---|--------------|-------------------------|-----------|------------------|-----------------------|-----------------|--------------------------|----------------------|-----------|------------|
| 1 | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. | 11. | 12. |
| 1. Nagpur (Urban)- | 198 5- 85 1985 - 86 | 202 182 | [.] 506 478 | 1 | 30 49 | 739 709 | 9 2 2 | 1 10 | 10 32 | 7 | 3 9 |
| 2.Nagpur (Rural) | 1984 - 85 1985 - 86 | 60 61 | 1654 1873 | - | | 171 24 1935 | 112 199 | 3 | 112 202 | | <i>5</i> 3 |
| 3.Hingna | 1984 - 85 1985 - 86 | 4 4 | 1 | 2 1 | | 1620 1585 | 194 183 | 2 18 | 1 9 6 201 | 1 - | 30 44 |
| 4.Kampthi | 1984 - 65 1985 - 86 | 776 686 | 155 4 1684 | 6 - | 8 - | 2344 1585 | 82 183 | 43 18 | 12 5 201 | - | 371 44 |
| €.Katol | 198 4- 65 1985 - 66 | | 2559 2413 | | 1 | 2560 2413 | 894 871 | ∴32 34 | 926 905 | 19 22 | 279 291 |
| 6.Narkhed | 1984-85 1985 - 86 | 4 | 3072 2994 | | 1 1 | 3077 2995 | 884 1035 | 33 43 | 917 10 0 8 | 87 86 | 277 267 |
| 7.Saoner | 1984 - 85 1985 - 86 | S 5 | 2050 210 6 | _ | <u>-</u> | 2059 2111 | 370 390 | 137 66 | 507 456 | 15 17 | 129 129 |
| E.Kalmeshwar | 1984 - 85 1985 7 686 | - | 2768 2159 | | - | 2768 2 1 59 | 509 532 | 162 24 | 671 556 | 17 6 | 187 209 |
| 9.Ramtek | 1984 - 85 1985 - 86 | 2830 3406 | 433 685 | 1 | <u>-</u> 497 | 3264 4586 | 5 717 | - 2641 | 5 3358 | 51 44 | 35 40 |
| 10.Parshivani | 1984 - 85 1985 - 86 | 731 770 | 1205 1265 | _ | - | 1936 2035 | 44 21 | 13 18 | 57 39 | 2 31 | 149 94 |
| 11.M e udə | 1984-85 1985-86 | 8539 9251 | 3 3 21 3669 | 122 33 | - | 11882 12953 | 3 12 | 8 11 | 11 23 | 8 17 | 464 594 |

| 1. 2 | • | 3. | 4 | 5. | 6. | 7. | 8. | 9. | 10. | 11. | 12. | i i i |
|-----------------|--------------------------------------|----|--------------------|-----------|-----------|----------------|--------------|-------------|--------------|------------|--------------|------------------|
| 12.Umred | 1984-85 1985-86 | • | 1655 1674 | 5 4 | | 2323 2516 | 36 50 | 5 | 41 50 | - | . 28 32 | ; ; ; ; |
| 13.Bhiva pur | 1984-85 1985-86 | | 36 0 616 | 10 9 | | 1067 1436 | 19 21 | 6 2 | 25 : 23 | - | 65 89 | |
| 14.Kuhi | 1984-85 1985-86 | • | 837 859 | 1 | | 4605 4759 | 9 5 | | 9 5 | 22 | 65 137 | |
| TOTAL:iux. | İMİMƏ n 1984-85 1985-86 | | 23288 24055 | 147 48 | 40 556 | 41958 44572 | 3170 4130 | 442 2913 | 3612 7043 | 200 321 | 2165 2268 | |

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| | | | i | | # | PPENDIX | _ 5 COI | V1 <i>D</i> . | | | | |
|--------------------------|---------------------------------------|------------------|---------------------|------------------|---|-----------------------|--|---------------------------------------|---------------------|------------------------|----------------------------|-------------|
| Gr.No. Distric Tahsil | t/ Year | Tamarind | Total spices | Potato | & vege- f | otal ood rops. | Cotton | Total fibres. | Groundnut | Total pil seeds. | Crops. | |
| xxxxxxxxxxxxx | xxxx 18 xxxx | ***** | xxxxx 1.5x x | xxx16xxx | xxxxxxxxx | x18xxxx | xxx Q £xx | xx # @xxxx | xxxxx 21 xxx | xxx 22 . | | |
| 1. | 2, | 13, | 14. | 15. | 16. | 17. | 18 | 19. | 20. | 21. | 22. | : : : |
| . Nagpur(urban | 1 884-8 5 -1985-86 | 1 | 5 11 | | 359_ 327 | 1114 1080 | 12 14 | 13 14 | | 2 1 | 60 53 | |
| 2.Nagpur(Rural) | 1984 - 85 1985 - 86 | | 9 5 77 | | 1215 13 0 99 | 3135 3523 | 44 38 | 44 38 | 2 3 | 2 3 | 51 25 | , |
| C.Hingna | 1984 - 85 1985 - 86 | | 35 52 | | 1124 社外 (元 1120 社20 五 | | 182 109 | 182 110 | 3 6 | 3 17 | 202 129 | |
| 4.Kampthi | 1984 - 85 1985 - 86 | 1 | 35 5211 6 | • | 1 124 8구 1120 약자 | 2981 2958 | 1 02 — 1 09 — | 1 62 _ 110 _ | .9 - 6 5 | 3 4 17 7 | 2 02 🕦 6 129 | |
| 5. Katol | 1984 - 85 1985 - 86 | | 312 319 | 2002 | 3642 3504 | 7460 7163 | 218 98 | 218 98 | о Э | 9 4 | 256 138 | |
| €. Narkhed | 1984 - 85 1985 - 8€ | 5 8 | 316 310 | 5 8 | 3574 3790 | 7975 8259 | 324 255 | 346 268 | 16 11 | 19 13 | 381 293 | |
| 7.Saoner | 1984 - 85 1985 - 86 | | 136 136 | | 1472 1826 | 4191 45 5 6 | 2 1 | 2 1 | 64 33 | 69 . 38 | 71 42 | |
| 8.Kamm≭ki Kalmeshwar | 1 984 - 85 1985 - 86 | -2 1 | 221 234 | i i i i | 3316 2588 | 6994 5543 | 28 24 | 28 21 | 13 10 | 23 15 | 55 39 | |
| 9.Ramtek | 1984 - 85 1985 - 86 | 1 1 1 1 | 50 54 | i | 311 38/ | 3682 8431 | 120 | 211 | 2 12 | 2 2294 | 23 2506 | |
| 10.Parehiveni | 198 4- 65 1985 - 86 | 4 | 161 113 | · | 842 800 | 29 89 3018 | 4 | 4 | 24 69 | 24 69 | 25 74 | |
| 11.Mauda | 1984 - 85 1985 - 86 | | 483 612 | | 358 162 | 12742 13767 | 2 | 2 | 11 | 11 18 | 20 20 | |

| | | | | | ŧ | | - 22 - | -222- | | | | |
|-------------|--------------------------------------|------------------|------------------|------|----------------|----------------|-------------------|--------------|--------------------|-------------|--------------|------------------|
| 1. | ‡. 2. | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 1 |
| | 1984-85 1985-86 | 9 <u>5</u> 21 | 3 3 56 | | 192 187 | 2588 2809 | 49 29 | 49 29 | 7 3 | 7 5 | 56 35 | |
| 13.Bhivapur | 1984 - 85 1985 - 86 | 54 61 | 123 152 | | 135 134 | 1350 1745 | | | 4 4 4 - | 1 | 2 13 | i i i i |
| 14.Kuhi | 1984-85 1985-86 | 1 1 | 67 141 | | 194 246 | 4974 5173 | | | 1 | 1 | · 1 | |
| | 1984 - 85 1985 - 86 | 64 93 | 2451 2563 | | 17608 17311 | 65941 71810 | 659 694 | 882 796 . | 15 1 172 | 177 2490 | 1189 3400 | i i i |

Source: District Stastical Abstract 1985-86 & 1987-88

. . . .

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Livestock in each tahsil of Nagpur Disrict durong the year 1978-82

| S.No. District/ | Year | Ca | ttle male (| over 3 years | | | Cattle female | over 3 years. | | |
|------------------------|-------------------------|----------------------------------|-------------------------|--------------------|-------------------------|----------------------|-------------------------------------|---------------|-------------------------|------------------|
| Tahsil | | Used for breedin & work | Work only | Others | Total | Inmilk | Dry & not calved even once | Cthers | Total | |
| 2. | 3. | 4, | 5. | 6. | 7. | 8 | 9- | 10. | 1.4. | |
| 1. Nagpur | 1978 1982 | 331 291 | 15514 15323 | 200 229 | 16191 15981 | 10577 9777 | 14162 13580 | 84 25 | 24859 23393 | 4 4 4 4 |
| 2. Hingna | 1978 19 82 | 9 . 7 | 13116 12118 | 191 126 | 13401 12348 | 5374 4213 | 11192 11387 | 12 110 | 16578 15710 | |
| C.Kampthi | 1978 1982 | 23 114 | 11674 11334 | 145 132 | 11905 11652 | 3288 4578 | 8005 } 740 | 43 42 | 11336 11386 | |
| 4,Katol | 1978 1982 | 35 201 | 15519 21180 | 92 -228 | 15756 21704 | 6430 6752 | 13185 13455 | . 56 8 | 19€72 -20232 | |
| 5. Narkhed | 1978 -12 1982 | 224 31 | 17577 176 7 9 | 196 163 | 18120 17962 | 6774 4746 | 14997 17048 | 200 87 | 21978 21973 | |
| E. Saoner | 1978 1982 | 741 275 | 15361 15746 | 337 22 3 | 16512 16302 | 534 <i>0</i> 5488 | 15364 15474 | 483 184 | 21261 21146 | : |
| 7.Kalmeshwar | 1978 1982 | 2 56 | 12528 12941 | 23 224 | 12590 13267 | 6070 3949 | 9393 124 9 1 | 3 161 | 15466 16910 | : |
| C.Ramtek | 1978 1982 | 738 44 | 1427 7 15144 | 155 144 | 18447 153 9 9 | 5 042 4803 | 10896 106 4 0 | 59 19 | 16 070 15498 | |
| S. Parshiva n i | 1978 1982 | 719 9 | 13120 11742 | 140 64 | 14056 11949 | 5731 4580 | 108 91 10200 | 15 <i>0</i> | 17237 14 7 83 | : |

| 1. 2 | 2. 3 | 4 | 5. | 6. | 7. | 8. | 9. | 10. | 11. | i i |
|-------------------|--------------|--------------|------------------|--------------|-----------------------------|-----------------------|------------------------|-------------|------------------|-------------|
| 1⊽ M a uda | 1978 1982 | 394 438 | 17501 16932 | 320 478 | 18223 - 17913 | 4293 5940 | 9461 9339 | 17 136 | 13781 15417 | i i i |
| 11.Umrec | 1978 1982 | 373 378 | 18641 19045 | 326 240 | 19468 19889 | 6166 - 6264 | 12399 14803 | 526 99 | 19486 21243 | |
| 12.Bhivapur | 1978 1982 | 48 113 | 19128 18320 | 250 215 | 19680 197 9 8 | 3 9 34 3892 | 10099 12551 | 58 33 | 14393. 16476 | |
| I3.Kuhi | 1978 1982 | 194 56 | 23384 22531 | 172 481 | 23764 ⁻ 23110 | 6102 6390 | 13 428 12754 | 31 102 | 19600 19264 | |
| TCTAL: | 1978 1982 | 3821 2013 | 207350 210035 | 2548 2949 | 215123 216204 | 75121 71375 | 153794 160462 | 1720 946 | 231717 233431 | |

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| Sr.no. Distr Tahsi | | ear | Bu f al o e | es male over | 3 year | | Bui | ffaloes female | over 3 years. | | |
|-----------------------|----------------------|-----------------------|---------------------------|--------------------|---------------|-------------|--------------|-----------------------|-----------------|----------------|--|
| 1ansi. | 1 | i i i i i | Ereeding only | Ereeding & Work | other | Total | Inmilk | Dry & not calved even | <i>Gthers</i> | Total. | |
| 1. 2. | 1 | з. | 1 2. | 15. | 14 £ . | 15%. | 16≌. | 17.9. | 10- | 19 9‡ | |
| 1,Nagpur | 1978 1982 | | 183 205 | 12 16 | 10 7 | 242. 276 | 7142 6700 | 3978 3422 | 15 8 | 11156 10138 | |
| 2.Hingma | 1978 1982 | | 109 82 | 15 . 7 | 4 7 | 151 126 | 1420 1078 | 1508 141 5 | 1 21 | 2929 2519 | |
| C.Kamthi | 1978 1982 | 4 | 97 51 | 2 4 | 2 | 112 76 | 1065 1005 | 790 771 | 5 4 4 | 1910 1795 | |
| 4.Katol | 1978 1982 | • | 116 105 | 5 7 | 6 8 | 166 176 | 2008 1352 | 2170 2318 | 8 30 | 4189 3728 | |
| 5.Narkhed | 1978 1982 | | 105 75 | 5 - 9 | 12 4 | 138 136 | 1886 1549 | 1886 2383 | 44 4 | 3803 3949 | |
| E.Saoner | 1978 1982 | • | 61 68 | 6 . - | 14 21 | 99 89 | 1052 800 | 1237 1367 | 94 37 | 2397 2204 | |
| 7.Kalmeshwar | 197 8 1982 | | 153 48 | 3 5 | 4 | 175 82 | 1113 649 | 970 1042 | <i>22</i> 5 | 2107 1724 | |
| E.Ramtek | 1978 1982 | | 70 84 | 30 47 | 21 17 | 427 394 | 1124 867 | 1051 1266 | 10 6 | 2255 2162 | |
| 9.Parshiv MU | *(8' 1982 | | 81 60 | 11 7 | 4 14 | 120 95 | 794 666 | 831 842 | 26 | 1730 1508 | |

| 1. 2. | 3. | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|-------------|--------------|----------|--------|--------|-----------|------------|------------|-------------|----------------|
| 10. Mæudə | 1978 | 56 | 22 | | 164 | 1157 | 1113 | 1 | 2272 - |
| | 1982 | 35 | 28 | 10 | 153 | 1422 | 1518 | 21 | 3085 |
| 11.Umred | 1978 | 98 | 12 | 3 | 147 | 1381 | 1471 | 44 | 2929 |
| | 1982 | 116 | 18 | 10 | 215 | 1124 | 1715 | 7 | 2860 |
| 12.Bhivapur | 1978 1982 | 89 64 | 3 3 | 3 3 | 101 98 | 626 656 | 877 965 | 14 12 | 1517 1633 . |
| 13.Kuhi | 1978 | 42 | 35 | 10 | 137 | 719 | 1361 | 2 | 2092 |
| | 1982 | 37 | 7 | ភ្ | 69 | 736 | 936 | 1 | 1678 |
| Total : | 1978 | 1259 | 161 | 87 | 2179 | 21487 | 19223 | 33 5 | 41286 |
| | 1982 | 1030 | 158 | 112 | 1985 | 18604 | 19961 | 156 | _~38983 |

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APPENDIX -6 CONTD.

| | | | | | و | 3) | | | | L |
|--------------|------------------------|--------------|-------------------------|-------------------------|----------------------|----------------------------------|----------------|--------------------------------|-------------------------|--------------|
| | sil/ Year trict. | Euffaloe | | otal Berne | Sheeps | Goats | Cther live | Total live | Poultry. | |
| | 4 | | Total buffaloes | | | | stock | stock. | | |
| 1. 2 | . 3. | 20. | 21 | 22. | 23. | 24. | - 25. | 26. | . 27. | |
| 1. Nagpur | 1978 1982 | 5158 3716 | 16553 14 1 30 | 81556 75297 | 95 47 | 40159 45085 | 1874 10427 | 123684 130944 | 05702 7 2 252 | |
| Zilingna | 1978 1982 | 1846 1131 | 4926 3776 | 48430 45635 | 1441 3735 | 196 6 7 202 6 5 | 845 4618 | 70383 74307 | 24557 23298 | |
| 3. Kampthi | 1978 1982 | 1046 894 | 3068 2765 | 36250 36383 | 247 113 | 157 0 4 165 1 7 | 773 4030 | 52974 57062 | 166 0 5 15654 | |
| 4.Kət&1 | 1978 1982 | 2650 1928 | 7005 5732 | 57690 63627 | 608 647 | 175 0 1 189 0 9 | 405 2435 | 76204 85761 | 16976 15 1 77 | |
| 5.Narkhed | 1978 1982 | 2818 2379 | 6759 6464 | 66147 63625 | 5502 4316 | 19478 21291 | 1190 4953 | 92 31 7 94328 | 17664 1669 3 | 1 1 1 |
| €. Saoner | 1978 1982 | 1682 1224 | 4178 351 1 | 6 0 574 58880 | 892 1 0 64 | 245 6 9 24424 | 1624 - 4765 | 87659 89206 | 20816 18301 | |
| 7. Kalmebhwa | r 1978 : 1982 - | 1326 857 | 3608 2663 | 48531 47639 | 2243 4379 | 179 6 8 21077 | 1050 4234 | 6979 <i>2</i> 77365 | 17049 14506 | |
| C, Ramtek | 19 67 8 1982 | 1908 1706 | 4590 4262 | 50687 49637 | 7 | 16705 16681 | 537 1710 | 67936 68148 | 37878 34575 | |
| S.Parshivani | 1978 1 8 82 | 1165 919 | 3015 2522 | 48392 42742 | 274 379 | 152 2 5 17834 | 634 1417 | 65065 69347 | 13980 15260 | |
| 10.Meuda | 1978 1982 | 1797 1551 | 4233 4789 | 49884 52635 | 7 4 | 18037 172 2 7 | 262 2102 | 68150 73026 | 26769 24128 | - - |

| 1 11 1 2. | _ 3 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | |
|------------------|-------------------------|----------------|----------------|------------------------|----------------------|-------------------------|----------------------|----------------------------|---------------------------|--|
| Umred | 1978 1982 | 2030 1732 | 5106 4807 | 62094 64831 | 2989 3488 | 120 <i>3</i> 6 19380 | 971 ~ 4265 | 78090 92074 | 19318 36881 | |
| 12,Bhivapur | 1978 1982 | 1025 1131 | • | 4623 3 51989 | 1513 2466 | 13138 147 8 8 | 290 3076 | 61219 72409 | 13137 30219 | |
| 13. Kuhi | 2981 978 1982 | 1506 1023 | 3735 2770 | 64246 63095 | 753 1194 £ | 18069 25080 | 9 4 3 3551 | 84011 93060 | 38431 54872 | |
| Total: | 1978 1982 | 25954 20091 | 69419 61059 | 721299 716015 | 16571 21802 | 240256 278556 | 11398 52583 | 997524 10 70 037 | 334 88 2 377015 | |

Source : District Statistical Abstract.

APPENDIX - 7

Agricultural Market Commitee - Committeesie Statement of Commodities arrived and its value (30th June, 1988)

| | | | | | | | | | | (Un: | ts = ME | TRIC TO | ONNES, R | s. in Th | ousand) | | | | |
|------------------|--------------|--------------|--|-----------------------|------------------|------|---------------------|-----------------------|-----------|-------|---------|-----------------|----------|----------|---|---------------------|-------|-------|-------------|
| Sr. No. | Name thwe | of Tahs. | il Type | Year | Annual arrivals- | | | | | | | | | | | | | | |
| regula market | | ated ma®ket. | | raddy(1) Rice (2) | | (2) | Wheat (3) Jawar(40) | | Cottqn(5) | | Tur(6) | Mug(7) | | Udid (8) | | | | | |
| | | | - | | Units | Vlue | Units | Value | Units | Value | Units | Vaue | Units | Value | Units Value | Units | Value | Units | Value. |
| 2: | 22 | 3. | 3 222 x 4 | . 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | - 14 | 15 | 16 17 | 18 | 19 | 20 | 21 |
| 1.Na | gpur | Nagpur | Agril. Produce Mkt. Committee | 1984 x 1974 | | | 27288 | 100927 | 5407 | 15875 | 9579 | 15 6 66. | 6865 | 37217 | 126 66 89346 | | | | |
| 2.Hi | ngna | Hingna | -do | 1986 | | | | | | | | | | | | | | - | |
| J.Ka | mpthi | Kampthi | | 1974 | | | | | | | - | | | | | | | | |
| 4 . Ka | tol | Katol | -do- | 1940 | | | | | 43 | 108 | 3393 | 3392 | 2423 | 14538 | 76 494 | 2 | 8 | 1 | 7 |
| 5.Na | rkhed | Narkhed | -do- | 1969 | | | 1 | 6 1 1 1 6 | 1 | 22 | 2712 | 3773 | 169 | 886 | 42 275 | | | | 4 4 4 |
| 6.5a | oner | Saoner | -do- | 1973 | | | 2479 | 77 2 9 | 3405 | 7210 | 4524 | 5902 | 1356 | 7379 | 2158 14358 | 2 | 7 | 1 | 5 |
| 7.Ka | lmeshw | ar Kalmes | hwar -co- | 1974 | | | | | i | | 793 | 1 9 62 | 875 | 6660 | | | | | |
| €.Rø | mtek | Ramrtek | -do- | <u> </u> | | | | | | | - | | | | from the second | | | | |
| S.Pa | rshiva | oi Pashkia. | ni -00- | 1986 | | | | i | | | - | | 679 | 3524 | | | | | |
| 10,M | lauda. | Mauda | -do- | | | | | | | | - | | | | 1 | | | | |
| 11.U | mred | Umred | do- | 1974 | 9 | 24 | 1124 | 431 | 855 | 2222 | 791 | 1344 | 2769 | 20617 | 1823 12291 | 3 | 16 | 51 | 227 |

| 1. 2. | з. | 4. | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
|--------------|------------------|------|---------------|---|----|-------|--------|------|--------|------------|------------|-------|-------|----|--------|----|----|----|-----|
| 12,.Bhivapur | <i>Bhivapur</i> | APMC | 1968 | | | 125 | 396 | 139- | 311 | 6 3 | 7 9 | | | 45 | 303 | | 3 | 5 | 24 |
| | hian00 Mandaq | AFMC | 19 7 2 | | | | | | i i | | | | | | | | | | |
| Total: | | | | 9 | 24 | 31016 | 109473 | 9850 | ì | 21845 | | 15136 | 90831 | i | 117067 | 7£ | 34 | 58 | 263 |

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APPENDIX-7 (contd)

| th | me of .Tah e regul | - | | | | <u></u> | | | Annua | | | | | | | | | |
|---------|----------------------------|---------------|-----------------|-----------------------------|---------|-----------------------|---------|---------|--------------|-------------|----------|----------------------|--------------------|-----------------|----------------|----------------------|--------|--|
| | ted : arkedt : | G | ram(¢) | Grounnut(10) 9Linseed (10)2 | | | 9 Till: | i(*12). | Soyabi | Soyabin(13) | | Dry chilli(14) | | Oragb(15) Total | | | | |
| | | Unit | Value | unit | value | Unit | Value | Unit | Value | Unit | Value | Unit | Value | Unit | Value | Unit | Value | |
| . 2 | . 3. | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | |
| .Nagpur | Nagpur | 2215 | 11076 | 1815 | 12058 | 3120 | 28978 | 696 | 7 071 | 11158 | 55660 | 19348 | 199350 | 9203 | 42045 | 109360 | 615269 | |
| .Hingna | Hingna | | | | | | | | | | | | | | | | | |
| .Kampth | i Kampthi | | | | | | | | | | | | | | | | | |
| .Katol | X. 3.5 | 11 | 55 | 1257 | 6283 | | | 51 | 638 | 257 | 1348 | | | 2020 | 7992 | 9534 | 34863 | |
| .Narkhe | d Narkhed | 12 | 70 | | | | | | 5 | 141 | 796 | | | 3072 | 20280 | 6149 | 26087 | |
| .Saoner | Saoner | 2 8413 | 1948 | 1312 | 8961 | 34 | 286 | 81 | 632 | 84 | 423 | | | | | 15849 | 55030 | |
| .Kalmes | hwar Kalmr | 7, | | | | | | | | | | | | 3763 | 3 <u>534</u> 7 | _5431 | 43069 | |
| .Ramtek | Ramtek | | | | | | 1 | | | | | | | | | ~- | | |
| .Parshi | vani Pars0iveNI | | | | | | | | | | | | | | | 79 22 | 3534 | |
| C.Mauda | | | | | | | | | | | | | | | | | | |
| 1.Umrec | ' Umred | 387 | 1796 | | | : 2 8 9 | 3530 | 171 | 1757 | 6238 | 30709 | 887 | 88 3 7 | - | | -15497 | 83771 | |
| 2.Bhiva | pur 📜 | 22 | 99 | | | 44 | 380 | 4 | 45 | 966 | 4722 | 538 | 7276 | | | 1941 | 13632 | |
| l3.Kuhi | Matidá Matidá Matida | | 1 | | | | | | | | #268 | 42465 4369 | ex 12465 | жж | *268 | 12×65 4369 | 12465 | |
| Total: | | 2060 1 | 5044 | 4384 | 27302 3 | 58 <i>7</i> | 33174 | 1003 | 10348 | 18844 | 93658 | 25142 | 227898 | 18058 1 | 05664 | 166809 | 887720 | |

Source: District Stastical Abstract 1927-88