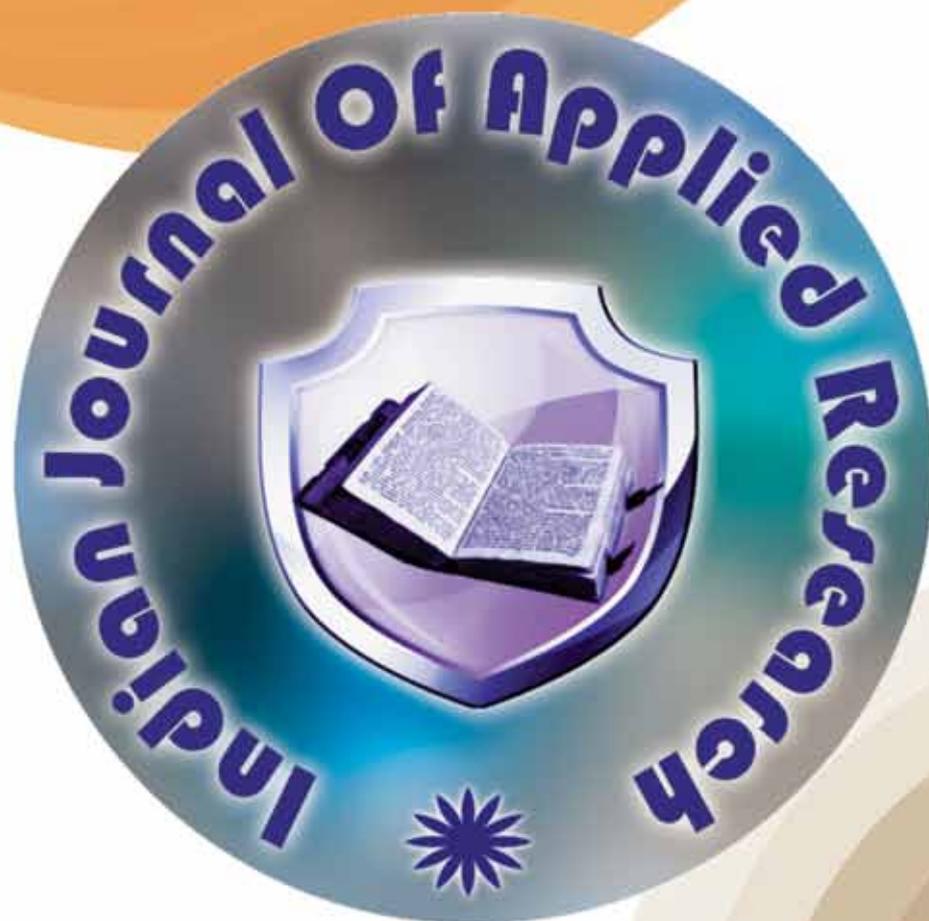


₹ 200

ISSN - 2249-555X

Volume : 1 Issue : 6 March 2012



Journal for All Subjects

www.ijar.in

Listed in International ISSN Directory, Paris.



ISSN - 2249-555X

Indian Journal of Applied Research

Journal for All Subjects

Editor-In-Chief

Dr A Kumar

Director, College Development Council (CDC)
Director, Internal Quality Assurance Cell (IQAC)
Professor in Management,
Department of Business Administration, Faculty of Management,
Bhavnagar University,

Editorial Advisory Board

Dr. S. N. Pathan
Maharashtra

Dr. SM. Ramasamy
Gandhigram

Dr. M. M. Goel
Kurukshetra

Dr. S. Ramesh
Tamil Nadu

Dr Ramesh Kumar Miryala
Nalgonda.

Dr. B. Rajasekaran
Tirunelveli

Dr. A. R. Saravankumar
Tamilnadu

Dr. Roy M. Thomas
Cochin

Dr. G. Selvakumar
Salem

Dr. Apurba Ratan Ghosh
Burdwan

Dr. Shrawan K Sharma
Uttarakhand

Dr. Sudhanshu Joshi
Uttarakhand

Prof. (Dr.) B Anandampilai
Pudhukottai

Advertisement Details

Position	B/W (Single Color)	Fore Color
Full Inside Cover	₹ 6000	₹ 12500
Full Page (Inside)	₹ 5000	-

Subscription Details

Period	Rate	Discount	Amount Payable
One Year (12 Issues)	₹ 2400	Nil	₹ 2400
Two Year (24 issues)	₹ 4800	₹ 200	₹ 4600
Three Year (36 issues)	₹ 7200	₹ 300	₹ 6900
Five Year (60 issues)	₹ 12000	₹ 600	₹ 11400

You can download the Advertisement / Subscription Form from website www.ijar.in. You will require to print the form. Please fill the form completely and send it to the **Editor, INDIAN JOURNAL OF APPLIED RESEARCH** along with the payment in the form of Demand Draft/Cheque at Par drawn in favour of **INDIAN JOURNAL OF APPLIED RESEARCH** payable at Ahmedabad.

1. Thoughts, language vision and example in published research paper are entirely of author of research paper. It is not necessary that both editor and editorial board are satisfied by the research paper. The responsibility of the matter of research paper/article is entirely of author.
2. Editing of the Indian Journal of Applied Research is processed without any remittance. The selection and publication is done after recommendations of atleast two subject expert referees.
3. In any condition if any National/International University denies accepting the research paper published in IJAR, then it is not the responsibility of Editor, Publisher and Management.
4. Only the first author is entitle to receive the copies of all co-authors
5. Before re-use of published research paper in any manner, it is compulsory to take written permission from the Editor-IJAR, unless it will be assumed as disobedience of copyright rules.
5. All the legal undertaking related to Indian Journal of Applied Research is subject to Ahmedabad Jurisdiction.
7. The research journal will be send by normal post. If the journal is not received by the author of research papers then it will not be the responsibility of the Editor and publisher. The amount for registered post should be borne by author of the research paper in case of second copy of the journal.

Editor,

Indian Journal Of Applied Research

8-A, Banans, Opp. SLU Girls College, New Congres Bhavan, Paldi,
Ahmedabad-380006, Gujarat, INDIA

Contact.: +91-9824097643 E-mail : editor@ijar.in

INDEX

Sr. No.	Title	Author	Subject	Page No.
1	Impact of Liquid biofertilizers, Chemical fertilizers and Vermicompost on the Growth and Yield of <i>Chenopodium album</i> (L.)	Dr. Sivgami Srinivasan, A. Sabitha	Biochemistry	1-3
2	Production Of Biodiesel From Microalgae Using Sodium Methoxide	M. R. Ananadhi Padmanabhan, Dr. Shaleesha A.Stanley	Biotechnology	4-6
3	Profitability Analysis Of Bharath Sanchar Nigam Limited (Bsnl)	Dr. M.Dhanabhakyaam, Swapna Kurain	Commerce	7-9
4	Water Resource Management Through Community Initiatives	Dr. Mahalaxmi Krishnan	Commerce	10-11
5	IPO Grading – An Insight	Dr. Bheemanagouda	Commerce	12-14
6	Public Private Partnership (PPP) in West Bengal: A Study	Suvarun Goswami	Commerce	15-17
7	Factors Influencing Impulse Buying of Personal Care Products in Salem City	Dr. A. Vinayagamoorthy, P. kannan	Commerce	18-21
8	Employees Savings and Investment Behaviour of Selected Chemical Industries in Cuddalore District	Dr. G. Sasikumar, R. Punniyaseelan	Commerce	22-28
9	Object Oriented Mutation Applied to Java platform and C++ classes	Ravindra K. Gupta, Dr. Shailendra Singh, Titu Singh Arora	Computer Science	29-32
10	Estimating The Intravenous Fluid Resuscitation In Patients In The Intensive Care Units (A Fuzzy Logic Based Expert Advisory System)	Kamal Kumari Dadhirao, M. Surendra Prasad Babu, Mr. Suresh Kumar Maddila	Computer Science	33-36
11	An Evaluation of Women Construction Workers	T. Christy Chanchu, T. Christy Cresida	Economics	37-39
12	Carlson's Tropic State Index(CTSI) Used in Mandya Lakes	Nagarathna, Hosmani S P	Economics	40-42
13	A water pollution of metropolitan cities in India	Dr. Pawar A.S.	Economics	43-44
14	Urbanization & Pollution in India	Dr. Pawar Ashok Shankarrao	Economics	45-46
15	Motivational Strategies on Enhancing Competencies of LIC Professionals	Dr. K. Gunasekaran	Education	47-49
16	Awareness On Socio - Educational Rights Among Students Studying in Secondary School	Dr. A. Selvan, Dr. P. Paul Devanesan	Education	50-52
17	Major Approaches in Instilling Values Related to Human Rights	Dr. A. Selvan, P. Paul Devanesan	Education	53-54
18	A Study On Achievement In Mathematics of IXth Standard Students in Relation to Locus of Control and Test Anxiety	Dr. N .Rajashékara, Prathima .H.P, Narayana Swamy.Y.R	Education	55-58
19	Impact of value-orientation on Leadership Behaviour of Secondary School Teachers in Tumkur District	Dr. Umme kulsum, G.P.Nagaraja	Education	59-62
20	Performance Comparison between LMS and NLMS Algorithm	Baljit Kaur	Engineering	63-65
21	Overview of Speech Enhancement Techniques for Various Applications	N B Umashankar, Anand Jatti	Engineering	66-67

22	Hanford and Radioactive Tumbleweeds: A Case Study	Rajesh Gopinath	Engineering	68-69
23	Construction of a Knowledge Test for Tennis Players	Sanjay Singh, Sani Kumar Verma	Engineering	70-72
24	A Noval Switch Mode Power Supply for Flash Lamp Pumped Nd: Yag Laser	Kireet Semwal, S. C. Bhatt	Engineering	73-75
25	Uniform Price Electricity Market Model in Deregulated Power System	T. Nireekshana, Dr. G. Kesava Rao, Dr. S. Siva Naga Raju	Engineering	76-79
26	Effect of Notch Orientation, Temperature and Filler Material on Impact Toughness of GFRP Composites	M.C.Muruges, Dr. K. Sadashivappa	Engineering	80-83
27	Prediction of Heat transfer rate for Indian coal slurry based on regression analysis	C.M. Raguraman, A. Ragupathy, L. Sivakumar	Engineering	84-86
28	A study of antimicrobial activity of the flavonoid- Kaempferol-3-rutinoside- from <i>Gliricidia sepium</i> (Jacq.) kunth.ex.Walp.	Anandhi, B., Sukumar. D, Arivudainambi. R	Engineering	87-88
29	Amitav Ghosh: Transfiguration of Memory and Imagination in the Shadow Lines	S.Kokila	English	89-90
30	Shareholder Activism in the U.S. and India	Ch. Chaitanya	Finance	91-93
31	Growth and Trends of Population in Nanded City, Maharashtra	Dr. Rathod S. B.	Geography	94-96
32	Regional Disparities of Ground water irrigation in Solapur District: A Geographical Analysis	Dr. G.U.Todkari, Shri B.D. Patil	Geography	97-99
33	Women and Employment in Textile Industries	Dr. S. S. Vijayanchali, Dr. E. Arumuga Gandhi	Home Science	100-102
34	Transition in Nutrition and Marketing of Agro Products	Dr. Anjali Rajwade	Home Science	103-104
35	Assessment of Knowledge About Effects of Inadequate Dietary Pattern on Mother and Child Health	Dr. Anjali Rajwade, Dr. Charuta Rajwade	Home Science	105-106
36	Job Enrichment	Kapil Dev Upadhyay, Dr. (Prof.) Vijay Kumar Soni	Human Resource Management	107-108
37	Quality of Work Life	Himani Avasthi, Dr. (Prof.) Vijay Kumar Soni	Human Resource Management	109-110
38	Understanding Security Requirement Engineering	Velayutham Pavanasam, Chandrasekaran Subramaniam	Information Technology	111-112
39	GENE Prediction	Er. Pankaj Bhambri, Dr. O.P. Gupta, Er. Meenakshi	Information Technology	113-114
40	Predictive Analysis In Data Mining Using Weighted Associative Classifier	Suwarna Gothane	Information Technology	115-119
41	Exchange Rate Forecasting	Dr. T. Koti Reddy	International Trade	120-124
42	Mass Media in India – New Trends	J. Ramanjaneyulu	Law	125-127
43	Right to Education Under the Indian Constitution	Mannava Muni Hemachand	Law	128-130
44	Criminal Law: A Tool for Consumer Protection in India	Aneesh V. Pillai	Law	131-132

45	Public Trust Doctrine: A Repository of Governmental Obligations to Protect the Environment	Dr. Kaumudhi Challa	Law	133-134
46	Application of Biometrics in the Investigation of Crime	Dr. R. Thilagaraj, Mr. G. Deepak Raj Rao	Law	135-137
47	Factors and Situations of Language Change	Dr. Syed Mohammed Haseebuddin Quadri	Literature	138-139
48	Omprakash Valmiki ke kahanio me chitrit dalitoki samajik stithi	Dr. V. P. Mahalinge	Literature	140-141
49	Fund Management in Pharmaceutical Industry in India	Dr. R. Perumal	Management	142-145
50	A study of Relationship management with customers in hospitality sector	Afreen Nishat A. Nasabi	Management	146-147
51	Outsourcing of Geriatric Services	Dr. V. Sreedevi	Management	148-150
52	Factor Analysis and Business Research	Dr. Kakali Majumdar	Management	151-154
53	Faculty Turnover Intention in Educational Institutions	K. R. Sowmya, Dr. N. Panchanatham	Management	155-156
54	Corporate Governance	Kalola Rimaben A., Chauhan Lalit R.	Management	157-159
55	Investment Avenues and Tax Implications for Small Investors	P. Menakadevi, Dr. V. Kumaravel	Management	160-163
56	Analyzing the IT Industry Progressions and Comprehensive Market Downfall Consciences through Deliberate Thinking	Dr. Venkatesh. J, Ms. Aarthy. C	Management	164-166
57	A Study On Problems and Prospects of Farmers in Cultivation of Paddy in Mahabubnagar District, A.P	Mr. M. Madhu Mohan	Management	167-170
58	An Analytical Study of Cash Management of IT Industries in Global Era	Bhaves P Chadamiya, Mital R Menapara	Management	171-173
59	The Status & Performance of Registered Small Enterprises; A Study in Karnataka	Dr. D. Kumuda	Management	174-179
60	Malnutrition – A Business Opportunity for State Cooperative Dairy Federations (Scdfs)	Dr. N. Ramanjaneyalu	Management	180-181
61	Financial Performance of Indian Corporate Sectors During Pre and Post Mergers and Acquisitions	Dr. Shailesh N. Ransariya, Dr. Butalal C. Ajmera	Management	182-184
62	A Study on Influence of Pedagogical Effectiveness on Academic Achievement of Students of B Schools	Dr. Viral Shilu	Management	185-186
63	Stimulation of Entrepreneurship through Venture Capital in India	Vijayakumar, Subrahmanya K C	Management	187-189
64	Performance Analysis of Indian Banks	Ajay K. Shah	Management	190-192
65	An Emprical Study on Effect of Combination of Sun with Different Zodiac Signs on Return of it Sector of Indian Stock Market	Dr. Jaydip Chaudhari, Pinkal Shah	Management	193-197
66	Internet Banking Customer Satisfaction and Online Banking Service Attributes	Md. Mahtab Alam, Dr. Umesh R. Dangarwala	Management	198-199
67	Changing Customer expectations & preferences in Indian Banking	Ms. Smita S. Shetty	Management	200-202
68	Current e-Governance Scenario in Healthcare sector in India	Samir Roy	Management	203-204

69	Liver function abnormality & Vestibular symptoms with Azithromycin	Dr. Parveen Kumar Sharma, Dr. Rekha Bansal	Medical Science	205-206
70	Unicornuate Uterus with Functional Noncommunicating Rudimentary Horn - A Rare Mullerian Anomaly	Anju Kumari Rani, Anand Prakash, Deepa Kapoor	Medical Science	207-208
71	Antenatal Diagnosis and Successful Delivery of a Fetus with Complete Heart Block	Anju Kumari Rani, Aditya Kapoor, Deepa Kapoor	Medical Science	209-210
72	Kangaroo mother care diminishes pain from heel lance in preterm neonates:	Dr.S.Valliammal, Dr. Ramachandra, Mr. Raja Sudhakar	Nursing	211-213
73	Experiential Domain and Extentionalistic Vocabulary : A Critical Consideration of Behaviourism	Dr. Jatinder Kumar Sharma	Philosophy	214-215
74	The Effect of a Mindfulness-Based Stress Reduction (MBSR) Program on Stress and Well-Being in Adolescents: A Pilot Study	Urvashi Anand, Dr. Mahendra P. Sharma	Psychology	216-218
75	Personality Profile of Patients with Somatic Complaints at a Rural Health Centre	Dr. Mahendra P. Sharma, B. Padmasri and, Dr. Ramchandra	Psychology	219-220
76	Psychological Well-being: A study of the institutionalized aged	Dr. Pankaj S. Suvera	Psychology	221-223
77	Crystal Growth, Thermal and Optical Studies on L-arginine Based Nonlinear Optical Material	J. Ramajothi	Science	224-226
78	Encapsulation of Lactic Acid Bacteria in Calcium Alginate Beads for Bacteriocin Production	Vijay S. Wadhai, Shweta G. Kayarkar, Archana N. Dixit	Science	227-229
79	Synthesis Of Nonatitnate Based Dielectric Ceramic Using Various Grain Size of Starting Materials	Parul, Anand K Tyagi	Science	230-232
80	Separate Telangana Movement and Related Literary Works: A Study In Sociology of Literature	Dr. M. Sreedevi Xavier	Sociology	233-234
81	Changing Interests In Fine Arts as a Profession: A Study In Sociology of Art	Dr. Poonam Gandhi-Moirangthem	Sociology	235-236
82	Modeling Fertility and Growth of Mising Community of Assam, India	Deba Kr. Baruah, S. C. Kakaty	Statistics	237-239
83	Fort Vasota an Adventure Tourism Destination in Satara District	Dr. Ananadrao S. Patil	Tourism	240-242



Growth and Trends of Population in Nanded City, Maharashtra

*Dr. Rathod S. B.

* Asst. Professor, Dept. of Geography, Chh. Shivaji College, Satara

ABSTRACT

The present paper attempts to analyze decadal variation of population growth and trends in Nanded city. The study of population is very important from socio-economic point of view. The features, growth and trends of population in any region are most essential requirements to know from the stand point of economy, society and planning. The present study endeavored. Therefore to find out the differential growth and trends of population in the city from 1901-2001. All the relevant data meant for the purpose have been obtained from various publication of the census data of India. The tabulated data have been depicted on maps by using different cartographic techniques.

Keywords : Population growth and Trends, Socio-economic factors

INTRODUCTION

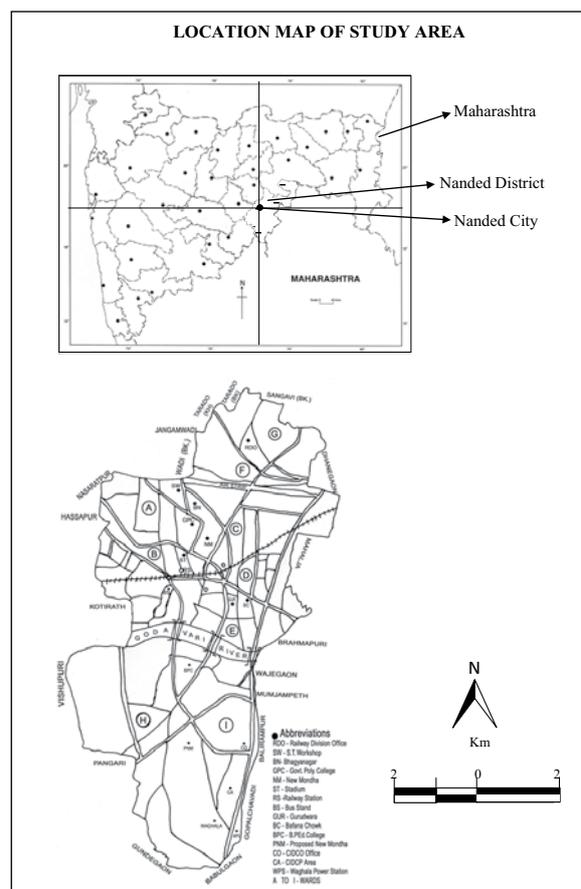
Nanded is an ancient city. According to 2001 census, population of the city is 430733 persons and the city rank 8th in size order of the cities of Maharashtra. In the post independence period (1951), Nanded was classified as class 'I' city by census Authority of India.

If compared with the census of MoI, the present population increased by 11 times what it was 110 years back. Demographic growth in an expression commonly used indicate quantitative as well as quantitative changes in the population structure of the area under study. The growth of population refers not only to numeried increase but also the changes in the population structure. Under the population structure normally sex-ratio, population distribution, density, age structure etc. are studied.

Several resources such as means of transport as communication, markets, business organization, civil and administration activities, educational facilities etc. have attracted population from nearby and far off rural areas. In the modern period, the process of industrialization accelerates the rate of urbanization. Demographic and ecological structure undergo a vast change in the course of industrialization. The concentration of population on a comparatively limited area raises manifold problems.

STUDY AREA

Nanded is the head quarter of the district, that falls on the boarder of Andhra Pradesh state. The city is located in east Maharastra. It is situated on 18030' N latitude and 77010' E longitude and having attitude of 489 metres above means sea level. The city is located on the left Bank of river Godawari, bounded on the north Sangavi (Bk.), Taroda (Bk.), Taroda (Kh.) village, and Asana river. In the south it is demarcated by Babulgaon village, and on the west the boundaries of Vishnupuri village, Gundegaon village have found (Location Map of Study Area)



The Nanded city is a distance of 237 kms. from Aurangabad, 250 kms. from Hyderabad, 120 kms from Latur, 135 kms. from Parbhani and 70 kms. from Hingoli by road.

It is well connected by Manmad – Kachiguda south central railway line. Nagpur – Solapur state highway and Hyderabad – Akola state highway passes through this city.

OBJECTIVES :

To assessed the status of population growth, Trends and Socio-economic status of city.

DATABASE AND METHODOLOGY :

The present study is based on primary and secondary sources. Various methods have been to study the population growth and trends of the study region. After the collecting data it has been Tabulated and represented with the help of various statistical techniques, various maps and diagrams have been prepared to show different types of data and information. The Gibbs-Mortin method is applied for the computing population growth rate and trends. The analysis and interpretation of data has been done from the geographical point of view.

$$r = \frac{(P_2 - P_1) / t}{(P_2 + P_1) / 2} \times 100$$

GROWTH OF POPULATION (1901 – 2001)

Population of the Nanded city for the year 2001 is calculated. It comes to 430733 registering a growth of 41.73 per cent for the decades 1991-2001.

TABLE NANDED CITY GROWTH OF POPULATION (1901 - 2001)

Sr. No.	Year	Popula-tion *	Decadal verification **	Growth in per cent **	Gibbs growth rate **
1	1901	14184	--	--	--
2	1911	17625	+3441	24.26	2.16
3	1921	21417	+3845	21.82	-1.96
4	1931	26992	+5522	25.72	2.278
5	1941	36689	+9697	35.93	3.045
6	1951	65024	+28335	77.23	5.571
7	1961	81087	-16063	24.70	-2.198
8	1971	126538	+45451	56.05	4.378
9	1981	191269	+64731	51.16	4.073
10	1991	309316	+118047	61.72	4.71
11	2001	430733	+129081	41.73	-3.452

Source : * Census of India, District Census Handbook.
** Author

According to census 1901, the population of Nanded city was 14184. In 1911 growth of population was by 17625 persons (+24.26 per cent). According to 1921 census, total population of Nanded city increased up to 21417 that is an increase of 21.82 per cent and in the year 1931, the total for the entire Nanded city was 26992 persons which was increased by +25.72 per cent. During these two decades, industrial establishment like Shipta tin started functioning, new educational institutes were opened and new schemes of Vishnupuri project. In the year 1941, population increased by +35.93 per cent (i.e. 36689 person). In the year 1951, population growth was recorded to 65024 inhabitants. This means an increases of 77.23 per cent. In 1941 – 51 decaded, maximum growth rate was observed in newly incorporated area in the municipality, in the year 1947. maximum growth rate of the decaded new residential colonies camp up and helped process.

NANDED CITY DECADEAL GROWTH OF POPULATION (1901 TO 2001)

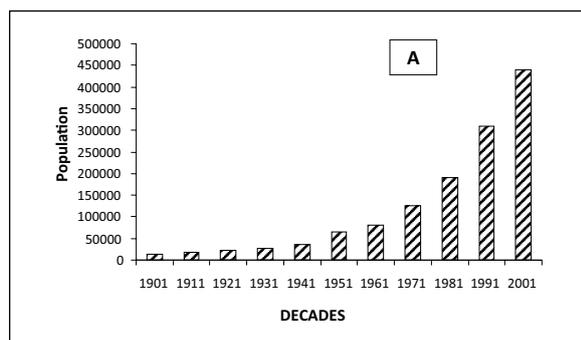


Figure 1

According to 1981 census, the total population has reached to 81087 persons. This increases of +24.98 per cent was mainly attributed to the development of industries and trade, shifting of whole sales market for Vazirabad from bus stand to Guru Govind Sing and considerably improved conditions of living in the city the total population of Nanded city has increased to 126538 persons in the year 1971. In this way after independence, Nanded city was classified as one lakh city. Thus net increase in the population during the decade amounts to 45451 an increase of 56.05 per cent. This growth was due to development of cotton research centre, Vishnupuri Project, improved conditions of living in the city, increasing industrialization in the area etc.

NANDED CITY POPULATION TREND (1901 TO 2001)

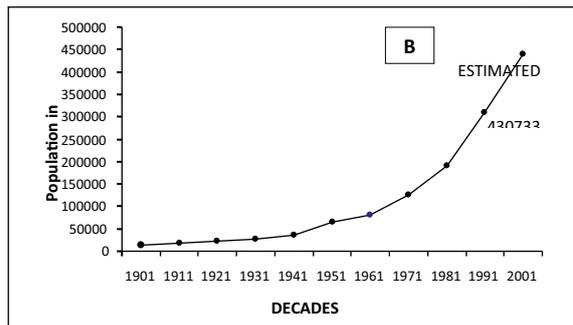


Fig. No. 2

According to 1981 census, population was 191269 persons. Thus net increase in the population during the decade amounts to 64731 persons an increase of 51.16 per cent. According to 1991 census, population crossed three lakh mark and found to 309316 persons. This increase of 61.72 per cent and in 2001, it was reached to a total of 438397 persons. This growth was due to development of S.R.T.M. University as an Educational Center, Guru Govind Sing Engineering College etc.

Minimum growth rate of the population is recorded in the decade 1991-2001. The probable reasons for this low rate of growth may be attributed to the shifting of Maharashtra Industrial Development Corporation outside the municipal area like SIDCO – HUDCO, attraction of job opportunities in the cities like SIDCO – HUDCO which shows growth of 61.72 enriching of the Nanded city by Godavari river. There is a scope for expansion of the city not limits on the Western Northern fronts. Hill of Sangavi area of crossing of air port. South and south-east area and Western areas of SRTM university areas these topographical barriers are adversely affecting the growth rate since 1991-2001.

CONCLUDING REMARKS :

The growth of population from 1901 to 2001 is uneven. The trend of growth of population of the study area indicates gradual increase in population, which shows similarity with the district. The continuous increase since 1901 – 1911 to 1941 – 1951. The urban population of Nanded district shows 42017 per cent growth during decade 1951 – 1961. The growth rate in the next decade (i.e. 1961 – 1971) has increased to 12.70 per cent. The growth rate of urban population of Nanded district shows continuous decline since 1971 to 2001 while the trend of growth for study region indicates highly decline during the decade 1951 – 1961 which was again increased in a slow rate.

REFERENCES

- 1) Bhende, Asha A., Kanitkar, Tara (1988 Fourth Edition), Principles of Population Studies, Himalaya Publishing House, Bombay p. 339. | 2) Chandra, R. C. (1986), A Geography of Population, Concepts, Determinants and Patterns, Kalyani Publishers Ludhiana. | 3) Ghosh, B. N. (1985), Fundamentals of Population Geography, Delhi p.21 | 4) Gibb's J. P. (1966), A Method for Comparing the Spatial Shapes of Urban Units, The Urban Research Methods, Van Nostrand Co. Inc. p. 107 | 5) Maurya, S. D., Population and Housing Problems in India (Volume – 1) Chugh Publications, Allahabad – India. | 6) Sing, V. N. (1986), Spatial Urban Pattern and Growth of Urbanization, Inter-India Publications, New Delhi. | 7) Census of India, 1981, 1991, 2001. Maharashtra Part XII – A and B, District Census Handbook, Nanded District. | 8) Ilanthirayan, Urban demographic structure of Coimbtore City The Deccan Geographer, Volume – 48, pp. 15 – 24.



Sara Publishing Academy
Indian Journal Of Applied Research
Journal for All Subjects



Editor,
Indian Journal Of Applied Research
8-A, Banans, Opp. SLU Girls College,
New Congres Bhavan, Paldi, Ahmedabad-380006.
Contact.: +91-9824097643 E-mail : editor@ijar.in