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Research Paper

Gis Based Educational Information System in Nanded City

Geography

KEYWORDS : School & College Location, Strength student and working teacher

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ABSTRACT

Present paper study education information system in Nanded city. Nanded is known for educational hub in Marathwada. The GIS application is very useful for information system. Use data is of any information system. Any kind of analysis or results mainly depends upon reliability and accuracy of data. The efficiency and performance of any information system highly depends on nature, quality and availability of data. Google Earth is used for collecting geographical locational points. GPS method is used to collect the lat/long points. This institutional set-up positions the city to develop strategies around the existing strengths and provide further opportunities in a dedicated manner for education purposes. This will provide supply of educated staff/ workforce, which would be required to support economic development of the city. The historic area is a great learning resource. It provides a wealth of opportunity for research, education and lifelong learning on a wide variety of cultural, historical and social subjects. The area has Centers for learning Sanskrit and study of Vedas. However, the school numbers are increasing but Quality of Education is Poor.

INTRODUCTION:

Nanded is known for educational hub in Marathwada. City is famous for Private coaching classes. Student from nearing districts studying at colleges of University. Many Engineering, Management colleges located in the city affiliated to Swami Ramanand Teerth University Nanded. Education began in the earliest prehistory, as adults trained the young of their society in the knowledge and skills they would need to master and eventually pass on. In pre-literate societies this was achieved orally and through imitation. Story-telling continued from one generation to the next. As cultures began to extend their knowledge beyond skills that could be readily learned through imitation, formal education developed.

1.2 STUDY AREA:

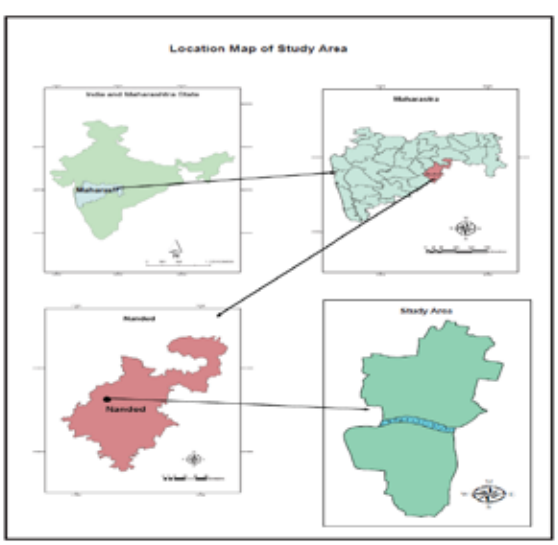

Figure no: 1

Nanded is one of the historical places in Marathwada region of Maharashtra State. It lies in Godavari basin. It is situated between 180 15' to 190 55' N latitude and 770 7' to 780 15' E longitude. The total area under Nanded-waghala municipal corporation jurisdiction is 61.74 sq.k.m. Nanded is the second largest city in Marathwada after Aurangabad. The state of Andhra Pradesh lies to the east and Karnataka state to the south. The river Godavari flows through the city. Deep Black Soils have limited distribution along the bank of Godawari. The entire study region receives rainfall from June to November. As per provisional reports of Census of India, population of Nanded-Waghala in 2011 is 719188; of which male and female are 286152 and 264412 respectively.

1.3 OBJECTIVE:

- To use Geoinformatics for the Study of Education System.
- To Create Education Information System specially for school education of Nanded City.

1.4 DATABASE AND METHODOLOGY:

The required data present study has collected from primary and Secondary Data Collection by various government departments. District Census Hand Book of Nanded District 2001 and 2011. Various branch offices of Nanded Zilla Parishad. Various Municipal Corporation Offices of the Nanded District, Town planning Department Nanded, Nanded Municipal Reports. Data collected data has tabulated, classified, presented, compared and interpreted with help of various appropriate statistical methods. Tables, Diagrams and maps have used at appropriate place and their interpretation has realized the present study.

Google Earth Geographical Coordinates for service area locations are collected from Google Earth (GE) by using "GE Coordinate" Software, it was shareware software. Use of Arc GIS.

Base Layer Preparation this involves digitization (i.e. preparation of vector layers from existing raster images) to prepare theme maps of the study area.

Following theme maps were prepared:

- Boundary area.
- School Maps
- Road network

Global Positioning System as GPS navigation systems became more and more widespread and popular, the pricing of such systems began to fall, and their widespread availability steadily increased.

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1.5 DISCUSSION AND Results:

Table No. I English Medium Students (Year 2013)

Standards	Students Population								Total
	Boys				Girls				
	Cast	Tribal	Other Boys	Total	Cast	Tribal	Other Girls	Total Girls	
A) Total	20	0	51	71	8	0	48	56	123
6th	8	1	50	59	7	1	35	43	102
7th	13	1	43	57	11	2	34	47	104
8th	13	0	42	55	8	0	42	50	105
B) Total	34	2	135	171	26	3	159	196	434
Total (A)+(B)	54	2	186	242	34	3	159	196	434

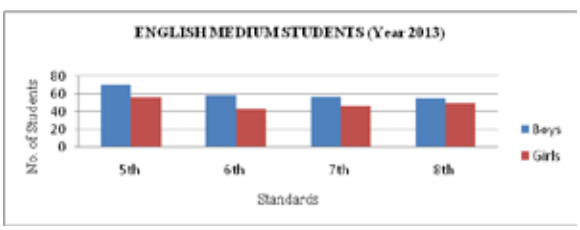


Table No. II Hindi Medium Students (Year 2013)

Standards	Students Population								Total
	Boys				Girls				
	Cast	Tribal	Other Boys	Total	Cast	Tribal	Other Girls	Total Girls	
A) Total	20	0	51	71	8	0	48	56	123
6th	8	1	50	59	7	1	35	43	102
7th	13	1	43	57	11	2	34	47	104
8th	13	0	42	55	8	0	42	50	105
B) Total	34	2	135	171	26	3	159	196	434
Total (A)+(B)	54	2	186	242	34	3	159	196	434

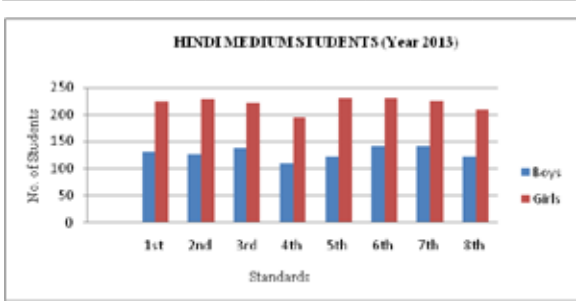
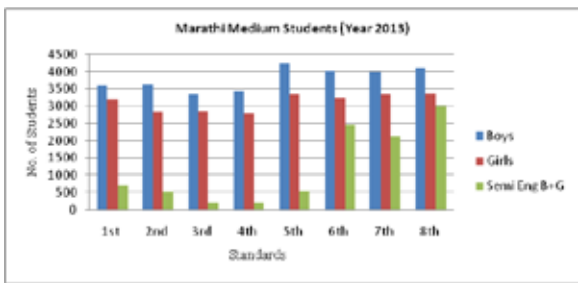


Table No.III Marathi Medium Students (Year 2013)

Class	Requirement							Total	Semi-Eng.
	Boys				Girls				
	S.C	S.T.	Others	Total	S.C	S.T.	Others		
I	0	0	2342	2342	0	0	1901	4318	0
II	1	4	2098	2103	2	2	1789	3894	0
III	0	1	2009	2010	2	2	1709	3723	0
IV	0	3	1598	1601	1	2	1613	3218	100
V	2	0	1536	1538	5	8	1769	3310	100
Total A	3	8	9583	9594	0	0	8856	18463	100
VI	2	0	1339	1341	1	2	1664	3005	100
VII	0	0	1371	1371	2	3	1571	2945	100
VIII	0	0	1093	1093	3	5	1485	2623	150
Total B	2	0	3803	3805	8	13	4720	8533	350
Total A+B	5	8	13386	13399	8	13	13576	270019	450

Here the population of boy's students in decreasing in each class and the number of girls still as it is.

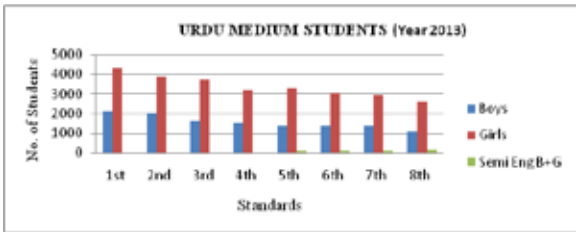


The girls and boys are near about in same proportion in all standards. The population of girls is more than boys in every standard. There is no pattern of semi English in Hindi medium.

The situation is far different from Urdu and Hindi medium here the number of Semi-English students is increasing. The population peaks up from the 6th standards and it goes to maximum in the 8th standards. The Marathi medium schools are focusing on both the type of teaching Marathi as well as English.

Table No. IV Urdu Medium Students (Year 2013)

Class	Requirement							Total	Semi-Eng.
	Boys				Girls				
	S.C	S.T.	Others	Total	S.C	S.T.	Others		
I	0	0	2342	2342	0	0	1901	4318	0
II	1	4	2098	2103	2	2	1789	3894	0
III	0	1	2009	2010	2	2	1709	3723	0
IV	0	3	1598	1601	1	2	1613	3218	100
V	2	0	1536	1538	5	8	1769	3310	100
Total A	3	8	9583	9594	0	0	8856	18463	100
VI	2	0	1339	1341	1	2	1664	3005	100
VII	0	0	1371	1371	2	3	1571	2945	100
VIII	0	0	1093	1093	3	5	1485	2623	150
Total B	2	0	3803	3805	8	13	4720	8533	350
Total A+B	5	8	13386	13399	8	13	13576	270019	450



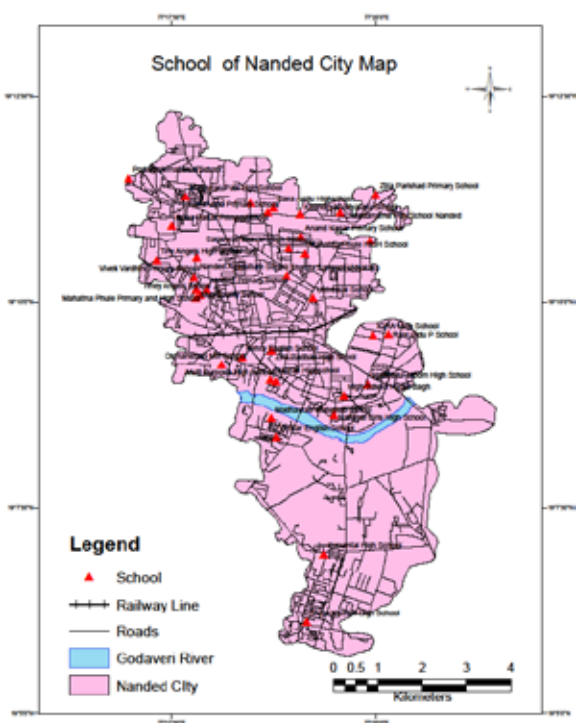
As shown in above graph here in each every standard the numbers of girls are more than the boys the Urdu medium schools the semi English classes starts from the 5th standards and the population is Significant but as compared to total it is very small.

Table No. V TOTAL STUDENT AND TEACHER IN NANDED CITY

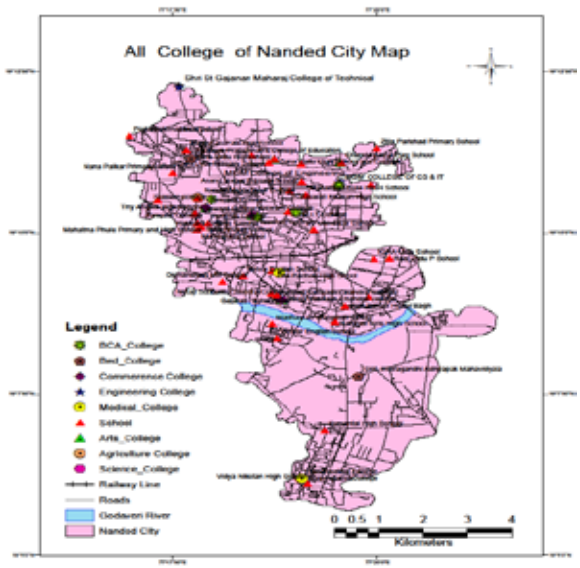
School Location	Schools	Enrolment (1-8)			Enrolment (9-12)		Teachers				Class Rooms
		Boys	Girls	Total (1-8)	Boys	Girls	Male	Female	No. Rasp	Total	
Urban	348	55981	47688	103669	20270	16954	1839	1788	72	3699	3014
All Blocks	348	55981	47688	103669	20270	16954	1839	1788	72	3699	3014

Here as the population of students is more in 5th -10th standards so the numbers of teacher are more. The Govt. and Municipal Corporation has limited standards so they have less teaching staff.

NANDED CITY VARIOUS SCHOOL LOCATION MAP



NANDED CITY VARIOUS COLLEGE LOCATION MAP



CONCUSSION

Nanded has a very good education sector. The value of education has been well-appreciated in Nanded is making progress every day in this regard. This has resulted in Nanded having a large population of students from nearby cities studying in these schools. Nanded city has a literacy rate of 81.50%, one of the highest in the state with male literacy as high as 89% and female literacy at 73%. Nanded is known for its contribution in the field of education. Marathi, being the mother-tongue of the majority of the population in the Nanded city, naturally became the medium of instruction. However, simultaneous arrangements were made for instruction through English, Hindi, and Urdu for the benefit of those students whose mother-tongue was other than Marathi adhering to the principle of giving the instruction through the mother-tongue. The city already houses institutions for higher education such as the school Marathi, Hindi, English and Urdu medium, and others, which attracts students from the region all around Nanded. This institutional set-up positions the city to develop strategies around the existing strengths and provide further opportunities in a dedicated manner for education purposes. This will provide supply of educated staff/ workforce, which would be required to support economic development of the city.

Primary and secondary education in the Nanded is under the control of the Education Officer of the Zilla Parishad. The supervision of primary and secondary education, the administrative control of all government and non-government primary schools, secondary schools and training institutions of primary teachers and such special schools as are placed under the control of the Education Department and the control and inspection of all secondary schools including multi-purpose high schools excepting those in municipal areas.

The historic area is a great learning resource. It provides a wealth of opportunity for research, education and lifelong learning on a wide variety of cultural, historical and social subjects. The area has Centers for learning Sanskrit and study of Vedas.

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