# Trends in Enrolment of Students by Sex in Primary and Upper Primary Schools in Andhra Pradesh 

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#### Abstract

Primary education constitutes a very important part of the entire structure of education. It is at this stage, the child starts going to a formal institution and formal education starts. Elementary education in India has been under the control of a number of agencies. It is still under themanagement of some private agencies, though, the State is increasingly taking the responsibility of providing free and compulsory elementary education to all. A rticle45 of theConstitution provides for free and compulsory education for all children in the age group 6-14 years, up to a minimum level. The whole idea has been woven into the concept of Universalisation of Elementary Education (UEE). The level of compulsory education as envisaged in this Article corresponds to the elementary education of eight year's suration from class I to class VIII for the children aged 6-14 years. Universalisation of upper primary education in India is normally in terms of enrolling and retaining all children belonging to the group 11 to 14. The Universalisation of Elementary Education has been recognized as a constitutional obligation in India by the year 1960 but the target has not been achieved even after 54 years of thetarget year.

Enrolment of boys in primary schools by class implies that total as well as class wise enrolment declined over study period. Enrollment of children at the upper primary level showed that it was not commensurate with the growth of population in the relevant agegroup, notwithstanding thefact that universalization of elementary education has been the avowed objective of the government. The quantitativegrowth of enrollment has been faster in the case of girls than in the case of boys throughout thestudy period of upper primary education


## Introduction

Education offers various economical benefits and contributions to the society. It provides returns to not only individual but also to the society. Education brings economic stability to any society. The Indian Education Commission (1964-66) in its Report "Education and National Development", point out that "education creates aw areness among the poor and it induces the middle class to aspire for better passions and also it enables the affluent to achieve greater success". It is also observed that "a society which is based on Science and Technology, it is the education that determines the level of prosperity,

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welfareand security of thepeople. Thequality and number of peopleachieving success at schooling and colleges will depend on the success in the raising and reconstructing of the standard of living of the people".

Education is often described as economic goods. Education is also regarded as a producer's goods and consumer's goods. A ccording to Baljit Singh "thereis demand for education partly, because it is a consumption goods providing immediate satisfaction, but mainly because it is an investment good intended to help in the production of additional goods at somefuturedate".

Economists have asserted that education affects economic growth of a country. Education influences the economy directly through employment, composition of labor, mobility and division of labour and productivity. Thereis also indirect influence of education on economic development through increased savings by small families and by developing right kinds of attitudes and skills, also by removing some obstacles to social change,
innovations and progress. Education acts as an agent and at the sametime as a condition for change. Paul A Samuelson and William D. Nordhaus observe "educated peoplemake more productive workers. Therefore, investment in schooling and other programmesreduceilliteracy. Beyond reading and writing train people in new techniques of agricultureand industry by sending the best minds abroad to bring back knowledgeof engineering and business. But, beware of brain drain: too often the ablest get drawn off to the affluent north. Schult, reminded the economists of their families to treat human resources explicitly as a form of capital, as a means of production, as the product of investment. Following Schultz, Becker, Harbison and Meyer and Blaug have provided the theoretical basis for analyzing the contribution of human capital as a growth promoter and incomeequalizer.

There has been a marginal fall in the primary school enrolment from 13.7 crorein 2011-12 to 13.4 crore in 2012-13, and 4.8 per cent rise in upper primary enrolment from 6.19 crore to 6.49 crore during the same period. Data also shows that 92.14 lakh children in the 6-14 age group are still out of school. The figures are part of the most comprehensive school education report based on District Information of School Education data compiled by the National University of Educational Planning and Administration (NUEPA). Sources said, "Thefall in primary school enrolment could be ascribed to cleaning up of enrolment data by many states. There are cases of children being enrolled in government schools as well as private schools in the neighborhood." The decline in primary level enrolment is sharpest in Bihar at 11.6 per cent and lowest in Madhya Pradesh ( 3.9 per cent). At primary level, retention rate has increased from 75.9 per cent to 78.65 per cent.

Thepaper is intended to analyzetheenrolment by total pupils, sex wise, class wise, level wise i.e., in primary and upper primary level. The present study covers the time period of 12 years i.e., from $2000-$ 2001 to 2011-2012 for which the uniform and comparable secondary data is avail able. Secondary data relating to the enrolment by total pupils, sex wise, class wise, level wise is tapped from various issues of District Information System of Education (DISE). Supplementary information relating to secondary data is also drawn from A nnual Status of Education Report (ASER) 2012, Socio Economic Survey, Planning Department, Government of Andhra Pradesh, 2012-13, and Working Group Reporton Elementary Education and Literacy, 12th Five Year Plan, 2012-2017, Government of India.

## 1. Trends in Enrolment of total Students by sex at Primary and U pper Primary level

Table-1 is intended to present information about primary and upper primary schools by enrolment considering total as well boys and girls. From the Tableitis observed that, the total enrolment (boys and girls put together) in primary schools declined from 60,60,394 to 52,76,876 and accounted for an average enrolment of $56,02,564$ pupils during the study period 2000-12. At thesametime, enrolment of boys declined from $30,54,724$ to $26,80,955$ whilethat of girlsdedined from $30,05,670$ to $25,95,921$. Further, averageenrolment of boys and girlsduring thestudy period recorded as $28,27,816$ and $27,74,748$ pupils respectively.

M oreover, enrolment of boys and girls declined at an annual rate of 0.8 per cent and 1.04 per cent respectively (which are not statistically significant), while total enrolment declined at an annual rate of 1 per cent, which is not statistically significant. It is pertinent to note that, the share of boys and girls in thetotal enrolment of primary schools is recorded as 50.47 per cent and 49.53 per cent respectively and thus, difference in sex wise enrolment is less than 1 per cent. As revealed by the values of coefficient of variation, total enrolment as well that of boys and girls in respect of primary schools declined moreor less with the sametrend.

Total enrolment (boys and girls) in UP schools, during thestudy period declined from 26,28,185 to $21,57,321$ while that of for boys declined from 14,00,905 to 11,17,233 enrolment of girls declined from $12,27,280$ to $10,40,088$. Further, average total enrolmentrecorded as 28,80,588whilethat of for boys and girls stood at 15,01,472 and 13,79,116 respectively. Further, total enrolment in UP schools declined at an annual rate of 2.97 per cent, while enrolment of boys and girls declined at annual rate of 3.04 per cent and 2.8 per cent respectively during thestudy period. However, the negativegrowth rate of enrolment of boys is statistically significant at 5 per cent level, while that of for girls and total are statistically significant at 5 per cent level. It is interesting to note that the share of boys in the total enrolment recorded as 52.12 per cent, while that of girlsaccounted for 47.88 per cent. Based on thevalues of coefficient of variation, it is inferred that total enrolment as well that of for boys and girls in respect of UP schools declined more or less with the same trend.

Figure 1 presents the comparative changes took place in the enrollment in respect of primary and

Table 1: Trends in Enrolment of total Students by sex at Primary and Upper Primary level

| $\begin{array}{r} \text { Sl. } \\ \text { No. } \end{array}$ | Year | Primary Schools |  |  | Upper Primary Sch ools |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Boys | G irls | Total | Boys | Girls | Total |
| 1 | 2000-2001 | $\begin{gathered} 3054724 \\ (50.40) \end{gathered}$ | $\begin{gathered} 3005670 \\ (49.60) \end{gathered}$ | $\begin{gathered} 6060394 \\ (100.00) \end{gathered}$ | $\begin{gathered} 1400905 \\ (53.30) \end{gathered}$ | $\begin{gathered} 1227280 \\ (46.70) \end{gathered}$ | $\begin{aligned} & 2628185 \\ & (100.00) \end{aligned}$ |
| 2 | 2001-2002 | $\begin{gathered} 2610881 \\ (49.91) \end{gathered}$ | $\begin{gathered} 2619867 \\ (50.09) \end{gathered}$ | $\begin{aligned} & 5230748 \\ & (100.00) \end{aligned}$ | $\begin{gathered} 1729772 \\ (52.06) \end{gathered}$ | $\begin{gathered} 1593054 \\ (47.94) \end{gathered}$ | $\begin{aligned} & 3322826 \\ & (100.00) \end{aligned}$ |
| 3 | 2002-2003 | $\begin{gathered} 3197135 \\ (50.34) \end{gathered}$ | $\begin{gathered} 3153937 \\ (49.66) \end{gathered}$ | $\begin{aligned} & 6351072 \\ & (100.00) \end{aligned}$ | $\begin{gathered} 1761580 \\ (51.98) \end{gathered}$ | $\begin{gathered} 1627609 \\ (48.02) \end{gathered}$ | $\begin{aligned} & 3389189 \\ & (100.00) \end{aligned}$ |
| 4 | 2003-2004 | $\begin{gathered} 3006457 \\ (50.38) \end{gathered}$ | $\begin{gathered} 2960553 \\ (49.62) \end{gathered}$ | $\begin{aligned} & 5967010 \\ & (100.00) \end{aligned}$ | $\begin{gathered} 1636883 \\ (51.97) \end{gathered}$ | $\begin{gathered} 1513081 \\ (48.03) \end{gathered}$ | $\begin{aligned} & 3149964 \\ & (100.00) \end{aligned}$ |
| 5 | 2004-2005 | $\begin{gathered} 2779410 \\ (50.31) \end{gathered}$ | $\begin{gathered} 2744953 \\ (49.69) \end{gathered}$ | $\begin{aligned} & 5524363 \\ & (100.00) \end{aligned}$ | $\begin{gathered} 1647443 \\ (51.92) \end{gathered}$ | $\begin{gathered} 1525434 \\ (48.08) \end{gathered}$ | $\begin{aligned} & 3172877 \\ & (100.00) \end{aligned}$ |
| 6 | 2005-2006 | $\begin{gathered} 2720336 \\ (50.40) \end{gathered}$ | $\begin{gathered} 2677672 \\ (49.60) \end{gathered}$ | $\begin{gathered} 5398008 \\ (100.00) \end{gathered}$ | $\begin{gathered} 1651337 \\ (52.06) \end{gathered}$ | $\begin{gathered} 1520797 \\ (47.94) \end{gathered}$ | $\begin{aligned} & 3172134 \\ & (100.00) \end{aligned}$ |
| 7 | 2006-2007 | $\begin{array}{r} 2788122 \\ (50.57) \end{array}$ | $\begin{gathered} 2725033 \\ (49.43) \end{gathered}$ | $\begin{aligned} & 5513155 \\ & (100.00) \end{aligned}$ | $\begin{gathered} 1691111 \\ (52.10) \end{gathered}$ | $\begin{gathered} 1554985 \\ (47.90) \end{gathered}$ | $\begin{aligned} & 3246096 \\ & (100.00) \end{aligned}$ |
| 8 | 2007-2008 | $\begin{gathered} 2719721 \\ (50.68) \end{gathered}$ | $\begin{gathered} 2647228 \\ (49.32) \end{gathered}$ | $\begin{aligned} & 5366949 \\ & (100.00) \end{aligned}$ | $\begin{gathered} 1615903 \\ (51.95) \end{gathered}$ | $\begin{gathered} 1494783 \\ (48.05) \end{gathered}$ | $\begin{aligned} & 3110686 \\ & (100.00) \end{aligned}$ |
| 9 | 2008-2009 | $\begin{gathered} 2875478 \\ (50.57) \end{gathered}$ | $\begin{gathered} 2810567 \\ (49.43) \end{gathered}$ | $\begin{aligned} & 5686045 \\ & (100.00) \end{aligned}$ | $\begin{gathered} 1302469 \\ (52.26) \end{gathered}$ | $\begin{gathered} 1189729 \\ (47.74) \end{gathered}$ | $\begin{aligned} & 2492198 \\ & (100.00) \end{aligned}$ |
| 10 | 2009-2010 | $\begin{array}{r} 2725513 \\ (50.54) \end{array}$ | $\begin{gathered} 2666740 \\ (49.46) \end{gathered}$ | $\begin{gathered} 5392253 \\ (100.00) \end{gathered}$ | $\begin{gathered} 1248562 \\ (52.11) \end{gathered}$ | $\begin{gathered} 1147287 \\ (47.89) \end{gathered}$ | $\begin{aligned} & 2395849 \\ & (100.00) \end{aligned}$ |
| 11 | 2010-2011 | $\begin{array}{r} 2775065 \\ (50.79) \end{array}$ | $\begin{gathered} 2688831 \\ (49.21) \end{gathered}$ | $\begin{gathered} 5463896 \\ (100.00) \end{gathered}$ | $\begin{gathered} 1214470 \\ (52.13) \end{gathered}$ | $\begin{gathered} 1115260 \\ (47.87) \end{gathered}$ | $\begin{aligned} & 2329730 \\ & (100.00) \end{aligned}$ |
| 12 | 2011-2012 | $\begin{array}{r} 2680955 \\ (50.81) \end{array}$ | $\begin{gathered} 2595921 \\ (49.19) \end{gathered}$ | $\begin{aligned} & 5276876 \\ & (100.00) \end{aligned}$ | $\begin{gathered} 1117233 \\ (51.79) \end{gathered}$ | $\begin{gathered} 1040088 \\ (48.21) \end{gathered}$ | $\begin{aligned} & 2157321 \\ & (100.00) \end{aligned}$ |
|  | Average | 2827816 | 2774748 | 5602564 | 1501472 | 1379116 | 2880588 |
|  | C V | 6.13 | 6.3 | 6.2 | 15.22 | 15.58 | 15.38 |
|  | G R | -0.8 | -1.04 | -0.9 | -3.04** | $-2.8 * *$ | $-2.97^{* *}$ |

Source: DISE data
Note: Figures in parentheses indicate percentages to total
*,**,*** indicate that the coefficients are significant at 1 per cent, 5 per cent and 10 per cent
Fig. 1: Enrolment of Total students by Sex in Primary and Upper Primary Schools


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upper primary schools considering total as well as boys and girls. For thesake of simplicity bar diagrams are presented for the first year and Last year of the study period i.e. 2000-01 and 2011-12.

## 2. Trends in Enrolment of Boys by Class (Class I to Class V )

Table-2 presents theinformation about class wise enrolment of boys from class I to class V. From the Table it is clear that, enrolment of boys in class I declined from 11, 61,617 to 7, 85,884 and resulted in an average number of $8,72,909$ pupils during the study period 2000-12. Theenrolment of classI boys declined at an annual rate of 2.85 per cent, which is statistically significant at 5 per cent and the share of classl in the total enrolment (of fiveclasses) varied in the range 22 per cent to 26 per cent during the study period. Moreover, based on the values of coefficient of variation, enrolment of class I boys noticed to fluctuate widely when compared with total enrolment and enrolment of other classes.

Enrolment of boys in class II declined from 9,39,454 to 7,38,031 and accounted for an average number of $7,90,261$ pupils over thestudy period. The enrolment of class II boysdeclined at an annual rate is of 2.62 per cent, which is statistically significant at 5 per cent level and the sharethis enrolment in total enrolment found to vary in the range 19 per cent to 22 per cent. A srevealed by thevalues of coefficient of variation, enrolment of class II is relatively less fluctuated compared to that of classI but, relatively morefluctuated compared to that of other classes.

Enrolment of boys in class III declined from $8,85,243$ to $7,23,300$ during thestudy period and declined at an annual rate of 2.27 per cent, which is statistically significant at 5 per cent level. The average enrolment of boys in class III stood at $7,67,436$ pupils and its share in total enrolment is noticed to oscillate between 19 per cent to 20 per cent. Based on the values of coefficient variation, enrolment of boys in class III experienced relatively less fluctuations compared to that of for class I and class II, while relatively more fluctuated compared to that of for class IV and class V .

Enrolment of boys in class IV declined from 8,06,360 to $6,85,491$ during the study period 2000-12 and accounted for an average enrolment of $7,37,530$ pupils. Further, enrolment of boys in class IV declined at an annual rate of 1.85 per cent, which isstatistically significant at 10 per cent level
and its share in the total enrolment found to vary in the range 18-20 per cent. M oreover, the value of CV reveals that enrolment of boys in class IV is relatively more fluctuated when compared to that for class V, but relatively less fluctuated when compared to that for other classes.

Enrolment of boys in class $V$ declined from 7 , 60,373 to 6, 87,987 and resulted for an average number of $7,31,684$ pupils during the study period. Further, the enrolment of boys in class V dedined at an annual rate of 1.38 per cent, which is not statistically significant and its share in the total enrolment varied in the range 17 to 20 per cent. Enrolment in class $\vee$ is noticed to experience relatively least fluctuations when compared to all other classes.

Total enrolment of boys (from class I to class V) declined from 45,53,047 to $36,20,633$ during the study period and averaged to $38,99,823$ pupils and registered for a negative rate of 2.22 per cent per annum, which is statistically significant at 10 per cent.

A nalysis of enrolment of boys in primary schools by class implies that total as well as class wise enrolment dedined over study period. Theenrolment is noticed to berelatively low in thedescending order, when movefrom classI to dass V . Thetotal enrolment declined at an annual growth rate of 2.22 per cent, whilethat of in class I by 2.85 per cent, in class II by 2.62 per cent, in class III by 2.27 per cent, in class IV by 1.85 per cent and in class $V$ by 1.38 per cent respectively. Further, A verageenrolment of boys in all classes is found to be $38,99,823$ pupils, whilethat of in class I is $8,72,909$ pupils, in class 11 is $7,90,261$ pupils, in class III is $7,67,436$ pupils, in class IV is $7,37,531$ pupils and in class $V$ is $7,31,684$ pupils respectively over thestudy period.

Figure 2 presents the comparative changes in the class wiseenrollment relating to boys. For the sake of simplicity, bar diagrams arepresented for thefirst year and last year of the study period i.e. 2000-01 and 2011-12.

## 3. Trends in Enrolment of Girls by Class (Class I to class V)

Table-3 presents theinformation relating to class wiseenrolment of girlsfrom classI to classV. From the Table it is observed that, enrolment of girls in class I declined from 11,27,603 to $7,37,755$ and accounted for an averagenumber of $8,38,641$ pupils during thestudy period. Further, the enrolment for

Table 2: Trends in Enrolment of Boys by Class (2000-2012)

| $\begin{aligned} & \hline \mathrm{Sll} . \\ & \text { No. } \end{aligned}$ | Year | 1 | II | III | IV | v | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 2000-2001 | $\underset{(25.51)}{1161617}$ | $\begin{aligned} & 939454 \\ & (20.63) \end{aligned}$ | $\begin{aligned} & 885243 \\ & (19.44) \end{aligned}$ | $\begin{aligned} & 806360 \\ & (17.71) \end{aligned}$ | $\begin{aligned} & 760373 \\ & (16.70) \end{aligned}$ | $\begin{aligned} & 4553047 \\ & (100.00) \end{aligned}$ |
| 2 | 2001-2002 | $\begin{gathered} 988101 \\ (22.55) \end{gathered}$ | $\begin{aligned} & 965569 \\ & (22.03) \end{aligned}$ | $\begin{aligned} & 853555 \\ & (19.48) \end{aligned}$ | $\begin{gathered} 802931 \\ (18.32) \end{gathered}$ | $\begin{aligned} & 771882 \\ & (17.61) \end{aligned}$ | $\begin{aligned} & 4382038 \\ & (100.00) \end{aligned}$ |
| 3 | 2002-2003 | $\begin{aligned} & 977991 \\ & (22.62) \end{aligned}$ | $\begin{aligned} & 87654 \\ & (20.26) \end{aligned}$ | $\begin{aligned} & 885375 \\ & (20.48) \end{aligned}$ | $\begin{aligned} & 799376 \\ & (18.49) \end{aligned}$ | $\begin{aligned} & 784911 \\ & (18.15) \end{aligned}$ | $\begin{aligned} & 4323707 \\ & (100.00) \end{aligned}$ |
| 4 | 2003-2004 | $\begin{aligned} & 848409 \\ & (20.98) \end{aligned}$ | $\begin{aligned} & 828671 \\ & (20.49) \end{aligned}$ | $\begin{aligned} & 80155 \\ & (19.82) \end{aligned}$ | $\begin{aligned} & 803576 \\ & (19.87) \end{aligned}$ | $\begin{aligned} & 762037 \\ & (18.84) \end{aligned}$ | $\begin{aligned} & 4044148 \\ & (100.00) \end{aligned}$ |
| 5 | 2004-2005 | $\begin{aligned} & 800716 \\ & (20.56) \end{aligned}$ | $\begin{aligned} & 751434 \\ & (19.29) \end{aligned}$ | $\begin{aligned} & 785150 \\ & (20.16) \end{aligned}$ | $\begin{aligned} & 764763 \\ & (19.6) \end{aligned}$ | $\begin{aligned} & 792586 \\ & (20.35) \end{aligned}$ | $\begin{aligned} & 3894649 \\ & (100.00) \\ & \hline \end{aligned}$ |
| 6 | 2005-2006 | $\begin{aligned} & 829756 \\ & (22.17) \end{aligned}$ | $\begin{aligned} & 713498 \\ & (19.06) \end{aligned}$ | $\begin{aligned} & 719382 \\ & (19.22) \end{aligned}$ | $\begin{aligned} & 735409 \\ & (19.65) \end{aligned}$ | $\begin{aligned} & 744653 \\ & (19.90) \end{aligned}$ | $\begin{aligned} & 3742698 \\ & (100.00) \end{aligned}$ |
| 7 | 2006-2007 | $\begin{aligned} & 849300 \\ & (22.73) \end{aligned}$ | $\begin{gathered} 757800 \\ (20.28) \end{gathered}$ | $\begin{aligned} & 7(185388 \\ & (18.85) \end{aligned}$ | $\begin{aligned} & 696975 \\ & (18.65) \end{aligned}$ | $\begin{aligned} & 728176 \\ & (19.49) \end{aligned}$ | $\begin{aligned} & 3736789 \\ & (100.00) \end{aligned}$ |
| 8 | 2007-2008 | $\begin{aligned} & 818265 \\ & (22.48) \end{aligned}$ | $\begin{aligned} & 788301 \\ & (20.28) \end{aligned}$ | $\begin{aligned} & 722816 \\ & (19.86) \end{aligned}$ | $\begin{aligned} & 674580 \\ & (18.53) \end{aligned}$ | $\begin{aligned} & 686358 \\ & (18.85) \end{aligned}$ | $\begin{aligned} & 3640320 \\ & (100.00) \end{aligned}$ |
| 9 | 2008-2009 | $\begin{aligned} & 800133 \\ & (22.23) \end{aligned}$ | $\begin{aligned} & 79973 \\ & (20.00) \end{aligned}$ | $\begin{aligned} & 713222 \\ & (19.81) \end{aligned}$ | $\begin{aligned} & 695039 \\ & (19.31) \end{aligned}$ | $\begin{aligned} & 671519 \\ & (18.65) \end{aligned}$ | $3599886$ |
| 10 | 2009-2010 | $\begin{aligned} & 810757 \\ & (22.36) \end{aligned}$ | $\begin{aligned} & 717867 \\ & (19.79) \end{aligned}$ | $\begin{aligned} & 708852 \\ & (19.55) \end{aligned}$ | $\begin{aligned} & 694964 \\ & (19.16) \end{aligned}$ | $\begin{aligned} & 694154 \\ & (19.14) \end{aligned}$ | $\begin{aligned} & 3626594 \\ & (100.00) \end{aligned}$ |
| 11 | 2010-2011 | $\begin{aligned} & 803984 \\ & (22.13) \end{aligned}$ | $\begin{aligned} & 736481 \\ & (20.27) \end{aligned}$ | $\begin{aligned} & 706355 \\ & (19.44) \end{aligned}$ | $\begin{aligned} & 690966 \\ & (19.02) \end{aligned}$ | $\begin{aligned} & 69578 \\ & (19.14) \end{aligned}$ | $\begin{aligned} & 3633364 \\ & (100.00) \end{aligned}$ |
| 12 | 2011-2012 | $\begin{aligned} & 785884 \\ & (21.71) \end{aligned}$ | $\begin{aligned} & 788031 \\ & (20.38) \end{aligned}$ | $\begin{aligned} & 723300 \\ & (19.98) \end{aligned}$ | $\begin{aligned} & 68599 \\ & (18.93) \end{aligned}$ | $\begin{gathered} 687987 \\ (19.0) \end{gathered}$ | $\begin{aligned} & 3620633 \\ & (100.00) \end{aligned}$ |
|  | Average | 872909.4 | 790261.1 | 767436.9 | 737530.8 | 731684.5 | 3899823 |
|  | CV | 12.94 | 11.36 | 9.37 | 7.31 | 5.88 | 8.78 |
|  | GR | -2.85** | -2.62** | -2.27** | $-1.85 * * *$ | -1.38 | $-2.22^{* * *}$ |

Source: DISE data
Note: Figures in parentheses indicate percentages to total *,**,*** indicate that the coefficients are significant at 1 per cent, 5 per cent and 10 per cent.

Fig. 2: Enrollment of Boys by Class (2000-2012)


Table 3 Trends in Enrolment of Girls by Class (Class I to class V)

| $\begin{gathered} \mathrm{Sl.} \\ \text { No. } \end{gathered}$ | Year | I | II | III | IV | V | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 2000-2001 | $\begin{gathered} 1127603 \\ (25.90) \end{gathered}$ | $\begin{aligned} & 921107 \\ & (21.16) \end{aligned}$ | $\begin{aligned} & 848083 \\ & (19.48) \end{aligned}$ | $\begin{aligned} & 760879 \\ & (17.48) \end{aligned}$ | $\begin{aligned} & 695234 \\ & (15.97) \end{aligned}$ | $\begin{aligned} & 4352906 \\ & (100.00) \end{aligned}$ |
| 2 | 2001-2002 | $\begin{aligned} & 965480 \\ & (22.75) \end{aligned}$ | $\begin{aligned} & 954121 \\ & (22.48) \end{aligned}$ | $\begin{aligned} & 832434 \\ & (19.61) \end{aligned}$ | $\begin{aligned} & 768636 \\ & (18.11) \end{aligned}$ | $\begin{aligned} & 723532 \\ & (17.05) \end{aligned}$ | $\begin{gathered} 4244203 \\ (100.00) \end{gathered}$ |
| 3 | 2002-2003 | $\begin{aligned} & 957880 \\ & (22.75) \end{aligned}$ | $\begin{aligned} & 870153 \\ & (20.67) \end{aligned}$ | $\begin{aligned} & 867114 \\ & (20.60) \end{aligned}$ | $\begin{aligned} & 770186 \\ & (18.29) \end{aligned}$ | $\begin{aligned} & 744591 \\ & (17.69) \end{aligned}$ | $\begin{aligned} & 4209924 \\ & (100.00) \end{aligned}$ |
| 4 | 2003-2004 | $\begin{aligned} & 816523 \\ & (20.77) \end{aligned}$ | $\begin{aligned} & 820805 \\ & (20.88) \end{aligned}$ | $\begin{aligned} & 787904 \\ & (20.04) \end{aligned}$ | $\begin{aligned} & 779104 \\ & (19.82) \end{aligned}$ | $\begin{aligned} & 727175 \\ & (18.50) \end{aligned}$ | $\begin{aligned} & 3931511 \\ & (100.00) \end{aligned}$ |
| 5 | 2004-2005 | $\begin{aligned} & 769705 \\ & (20.27) \end{aligned}$ | $\begin{aligned} & 740494 \\ & (19.50) \end{aligned}$ | $\begin{aligned} & 773946 \\ & (20.38) \end{aligned}$ | $\begin{aligned} & 748460 \\ & (19.71) \end{aligned}$ | $\begin{aligned} & 765157 \\ & (20.15) \end{aligned}$ | $\begin{aligned} & 3797762 \\ & (100.00) \end{aligned}$ |
| 6 | 2005-2006 | $\begin{aligned} & 801798 \\ & (21.97) \end{aligned}$ | $\begin{aligned} & 698889 \\ & (19.15) \end{aligned}$ | $\begin{aligned} & 704405 \\ & (19.30) \end{aligned}$ | $\begin{aligned} & 718745 \\ & (19.70) \end{aligned}$ | $\begin{aligned} & 725387 \\ & (19.88) \end{aligned}$ | $\begin{aligned} & 3649224 \\ & (100.00) \end{aligned}$ |
| 7 | 2006-2007 | $\begin{aligned} & 813747 \\ & (22.44) \end{aligned}$ | $\begin{aligned} & 746531 \\ & (20.59) \end{aligned}$ | $\begin{aligned} & 683850 \\ & (18.86) \end{aligned}$ | $\begin{aligned} & 674235 \\ & (18.59) \end{aligned}$ | $\begin{aligned} & 708085 \\ & (19.53) \end{aligned}$ | $\begin{aligned} & 3626448 \\ & (100.00) \end{aligned}$ |
| 8 | 2007-2008 | $\begin{aligned} & 782132 \\ & (22.14) \end{aligned}$ | $\begin{aligned} & 722128 \\ & (20.44) \end{aligned}$ | $\begin{aligned} & 710312 \\ & (20.10) \end{aligned}$ | $\begin{aligned} & 652985 \\ & (18.48) \end{aligned}$ | $\begin{aligned} & 665660 \\ & (18.84) \end{aligned}$ | $\begin{aligned} & 3533217 \\ & (100.00) \end{aligned}$ |
| 9 | 2008-2009 | $\begin{aligned} & 769369 \\ & (21.93) \end{aligned}$ | $\begin{aligned} & 73515 \\ & (20.05) \end{aligned}$ | $\begin{aligned} & 698803 \\ & (19.92) \end{aligned}$ | $\begin{aligned} & 683673 \\ & (19.49) \end{aligned}$ | $\begin{aligned} & 653127 \\ & (18.62) \end{aligned}$ | $\begin{gathered} 3508487 \\ (100.00) \end{gathered}$ |
| 10 | 2009-2010 | $\begin{aligned} & 769013 \\ & (21.90) \end{aligned}$ | $\begin{aligned} & 694935 \\ & (19.79) \end{aligned}$ | $\begin{aligned} & 688675 \\ & (19.62) \end{aligned}$ | $\begin{aligned} & 678461 \\ & (19.33) \end{aligned}$ | $\begin{aligned} & 679613 \\ & (19.36) \end{aligned}$ | $\begin{aligned} & 3510697 \\ & (100.00) \end{aligned}$ |
| 11 | 2010-2011 | $\begin{aligned} & 752683 \\ & (21.56) \end{aligned}$ | $\begin{aligned} & 709846 \\ & (20.33) \end{aligned}$ | $\begin{aligned} & 683132 \\ & (19.57) \end{aligned}$ | $\begin{aligned} & 668319 \\ & (19.14) \end{aligned}$ | $\begin{aligned} & 677596 \\ & (19.41) \\ & \hline \end{aligned}$ | $\begin{aligned} & 3491576 \\ & (100.00) \end{aligned}$ |
| 12 | 2011-2012 | $\begin{gathered} 737755 \\ (21.3) \end{gathered}$ | $\begin{aligned} & 703559 \\ & (20.31) \end{aligned}$ | $\begin{aligned} & 696741 \\ & (20.11) \end{aligned}$ | $\begin{aligned} & 663101 \\ & (19.14) \end{aligned}$ | $\begin{aligned} & 662718 \\ & (19.13) \end{aligned}$ | $\begin{aligned} & 3463874 \\ & (100.00) \end{aligned}$ |
|  | Average | 838640.7 | 773840.3 | 747949.9 | 713898.7 | 702322.9 | 3776652 |
|  | C V | 13.99 | 12.07 | 9.35 | 6.8 | 5.05 | 8.6 |
|  | G R | -3.21** | $-2.89 * *$ | -2.29** | -1.6 | -0.95 | $-2.25 * * *$ |

Source: DISE data
Note: Figures in parentheses indicate percentages to total
$*, * * * * *$ indicate that the coefficients are significant at 1 percent, 5 percent and 10 percent
girls in classI declined at an annual rate of 3.21 per cent, which is statistically significant at 5 per cent level and theshareof enrolment of class I girls in the total enrolment is noticed to vary between 20 to 26 per cent. As revealed by the value of coefficient of variation, enrolment of class I girls is subjected to morefluctuations when compared to that of for all other classes.

Class II enrolment of girls dedined from 9, 21,107 to 7, 03,559 and thus, resulted in an average enrolment of $7,73,840$ during the study period. Further, theenrolment of girls in class II declined at an annual rate of 2.89 per cent, which is
statistically significant at 5 per cent level during the study period and its share in the total enrolment varied in the range 19 to 22 per cent. Moreover, as revealed by the values of CV, enrolment in class II girls is relatively less fluctuated compared to that of for class I but, relatively more fluctuated when compared to all other classes.

Enrolment of girls in Class III declined from 8,48,083 to 6,96,741 and thus, averaged to number of $7,47,950$ pupils over the study period. Further, enrolment of girls in class III declined at an annual rate of 2.29 per cent, which is statistically significant at 5 per cent level during
the study period and its share in the total enrolment varied between 19 to 21 per cent. Based on the values of CV, enrolment class II girls is relatively less fluctuated compared to that of class I and II but, relatively more fluctuated when compared to class IV and V.

Enrolment in respect of girls in class IV, is observed that to dedinefrom 7,60,879to 6,63,101 and accounted on for an averageenrolment of $7,13,899$ pupils during thestudy period. Further, enrolment of girls in class IV is declined at an annual rate of 1.6per cent, which is not statistically significant and its sharein thetotal enrolment varied between 17to 20per cent. A srevealed by the values of CV, enrolment in class IV girls is relatively more fluctuated when compared to that of for class V but, relatively less fluctuated when compared to that for all other classes.

Class V enrolment of girls is noticed to decline from6,95,234 to 6,62,718 and experienced a negative
annual growth rate of 0.95 per cent, which is not statistically significant during thestudy period 200012. Theaverageenrolment of girls in class V is found to be 7,02,323pupils over thestudy period and the share of enrolment of class $V$ girls in the total enrolment varied between 16 to 20 per cent. Moreover, the values coefficient of variation implies that, the enrolment of class V is subjected to least fluctuations when compared to that for all other classes.

Thetotal enrolment of girls in all classes from class I to class V is observed to declinefrom $43,52,906$ to 34, and 63,874 and noticed to experience a negative annual growth rate of 2.25 per cent, which is statistically significant at 10 per cent level and averaged to 37, 76,652 over thestudy period 2000-12.

Figure-3 presents the comparative changes in the class wiseenrollment of girls. For the sakeof simplicity, bar diagrams are presented for thefirst year and last year of the study period i.e. 2000-01 and 2011-12.


Figure 3 Enrolment of Girls by Class (Class I to class V)

## 4. Class Wise Enrolment of Total Students at Primary level

Table 4 presents information about class wisetotal enrolment considering both boys and girls from class I to class V. From the Table it is observed that, enrolment of class I is declined from $22,89,220$ to 15,23,639 and averaged to 17,11,550 pupils over the study period. The enrolment is seen to experiencea negative annual growth rate of 3 per cent, which is
statistically significant at 5 per cent level during the study period. Theenrolment of classI pupils in the total enrolment is noticed to vary between 20 to 26 per cent. Based on the CV values, it is clear that enrolment in class I is subjected to widefluctuations when compared to that for all other classes.

Enrolment in class II declined from 18,60,561 to 14,41,590 and registered for an averageenrolment of 15,64,101 pupils. M oreover, theenrolment of class II is declined at an annual growth rate of 2.75 per cent,
which is statistically significant at 5 per cent level and the shareof class II in thetotal enrolment varied in therange 19to 22 per cent. Based on the values of coefficient of variation, enrolment in class II is relatively less fluctuated when compared to that for classI, whilerelatively morefluctuated compared to all other classes.

Pupil enrolment in class III is declined from 17, 33,326 to $14,20,041$ and averaged to $15,15,387$ pupils during thestudy period. Theenrolment is noticed to decline at an annual growth rate of 2.28 per cent, which is statistically significant at 5 per cent level
during study period 2000-12. Further, the share of enrolment in class III in thetotal enrolment varied between 19to 21 per cent. M oreover, enrolment in class III is seen to fluctuate relatively less when compared to that of class I and class II, but more fluctuated when compared to classIV and classV.

Enrolment in classIV is declined from 15,67,239 to $13,48,592$ and accounted for an averageenrolment of $14,51,435$ pupils over thestudy period. Further, enrolment in class IV experienced a negativeannual growth rate of 1.7 per cent, which is statistically not significant and the share of enrolment in class IV in

Table 4 Class Wise Enrolment of Total Students at Primary Level

| $\begin{gathered} \text { S. } \\ \text { No } \end{gathered}$ | CLASSW ISE ENROLM ENT ALL |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Year | 1 | 11 | III | IV | V | TOTAL |
| 1 | 2000-2001 | 2289220 | 1860561 | 1733326 | 1567239 | 1455607 | 8905953 |
|  |  | (25.70) | (20.89) | (19.46) | (17.60) | (16.34) | (100.00) |
|  |  |  |  |  |  |  |  |
|  |  | 1953581 | 1919690 | 1685989 | 1571567 | 1495414 | 8626241 |
| 2 | 2001-2002 | (22.65) | (22.25) | (19.54) | (18.22) | (17.34) | (100.00) |
|  |  |  |  |  |  |  |  |
| 3 | 2002-2003 | $\begin{gathered} 1935871 \\ (22.69) \end{gathered}$ | $\begin{array}{r} 1746207 \\ (20.46) \end{array}$ | $\begin{gathered} 1752489 \\ (20.54) \end{gathered}$ | $\begin{gathered} 1569562 \\ (18.39) \end{gathered}$ | $\begin{gathered} 1529502 \\ (17.92) \end{gathered}$ | $\begin{aligned} & 8533631 \\ & (100.00) \end{aligned}$ |
|  |  |  |  |  |  |  |  |
|  |  | 1664932 | 1649476 | 1589359 | 1582680 | 1489212 | 7975659 |
| 4 | 2003-2004 | (20.88) | (20.68) | (19.93) | (19.84) | (18.67) | (100.00) |
|  |  |  |  |  |  |  |  |
| 5 |  | 1570421 | 1491928 | $1559096$ | 1513223 | 1557743 | $7692411$ |
|  | 2004-2005 |  |  |  |  |  |  |
|  |  | 1631554 | 1412387 | 1423787 | 1454154 | 1470040 | 7391922 |
| 6 | 2005-2006 | (22.07) | (19.11) | (19.26) | (19.67) | (19.89) | (100.00) |
|  |  |  |  |  |  |  |  |
|  |  | 1663047 | 1504331 | 1388388 | 1371210 | 1436261 | 7363237 |
| 7 | 2006-2007 | (22.59) | (20.43) | (18.86) | (18.62) | (19.51) | (100.00) |
|  |  |  |  |  |  |  |  |
|  |  | 1600397 | 1460429 | 1433128 | 1327565 | 1352018 | 7173537 |
|  |  | (22.31) | (20.36) | (19.98) | (18.51) | (18.85) | (100.00) |
| 8 | 2007-2008 |  |  |  |  |  |  |
|  |  | 1569502 | 1423488 | 1412025 | 1378712 | 1324646 | 7108373 |
|  |  | (22.08) | (20.03) | (19.86) | (19.40) | (18.64) | (100.00) |
| 9 | 2008-2009 |  |  |  |  |  |  |
|  |  | 1579770 | 1412802 | 1397527 | 1373425 | 1373767 | 7137291 |
|  |  | (22.13) | (19.79) | (19.58) | (19.24) | (19.25) | (100.00) |
| 10 | 2009-2010 |  |  |  |  |  |  |
|  |  | 1556667 | 1446327 | 1389487 | 1359285 | 1373174 | 7124940 |
|  |  | (21.85) | (20.30) | (19.50) | (19.08) | (19.27) | (100.00) |
| 11 | 2010-2011 |  |  |  |  |  |  |
|  |  | 1523639 | 1441590 | 1420041 | 1348592 | 1350705 | 7084567 |
|  |  | (21.51) | (20.35) | (20.04) | (19.04) | (19.07) | (100.00) |
| 12 | 2011-2012Average |  |  |  |  |  |  |
|  |  | 1711550 | 1564101 | 1515387 | 1451435 | 1434007 | 7676480 |
|  | C V | 13.44 | 11.7 | 9.35 | 7.0 | 5.4 | 8.72 |
|  | G R | -3.0** | $-2.75^{* *}$ | $-2.28 * *$ | -1.7 | -1.17 | -2.24*** |

## Source: DISE data

Note: Figures in parentheses indicate percentages to total
*, $, * *, * * *$ indicate that the coefficients are significant at 1 percent, 5 percent and 10 percent
thetotal enrolment is noticed vary between 18 to 20 per cent. As revealed by the coefficient of variation, enrolment in class IV is subjected to less fluctuation when compared to that for classes I, II and III, while morefluctuated when compared to that for class V .

Pupil enrolment in class V is noticed to decline from 14,55,607 to 13,50,705 and averaged for an enrolment $14,34,007$ pupils during the study period. Further, theenrolment is observed to dedine at an annual growth rate of 1.7 per cent per annum, which is statistically not significant. The share of enrolment in class IV in thetotal enrolment varied in the range 16 to 20 per cent. M oreover, enrolment in
class IV is seen to bemoreconsistent when compared to all classes, as it possesses the least value of CV.

The total enrolment of all classes from class I to class $V$ is declined from $89,05,953$ to $70,84,567$ and accounted for an averageenrolment of $76,76,480$ pupils and experienced a negative growth rate of 2.24 per cent per annum, which is statistically significant at 10 per cent during the study period.

Figure 4 presents thecomparative changes in the class wiseenrollment of both boys and girls. For the sakeof simplicity, bar diagrams are presented for the first year and last year of thestudy period i.e. 200001 and 2011-12.

Fig. 4 Class Wise Enrolment of Total Students at Primary level


## 5. Trends in Enrolment of Students by Stages at Primary and U pper Primary level

Table-5 is intended to present information about stage wise enrolment of Primary and UP classes. From the Table it is observed that, enrolment in primary stage ( 1 to V classes) is declined from 89,05,953 to $70,84,567$ pupils and averaged to $76,76,480$ pupils. Further, theenrolment in primary stageexperienced a negative annual growth rateof 2.24 per cent, which is statistically significant at 10 per cent during thestudy period 2000-12. Further, in respect of primary stage during thestudy period, the enrolment of boys declined from $45,53,047$ to 36,20,693 pupils, while that for girls declined from $43,52,906$ to $34,63,874$ pupils. At the same time, averageenrolment of boys and girlsstood at 38,99,828 pupils and $37,76,652$ pupils respectively. Moreover,
enrolment of boys in primary stage experienced a negativegrowth rate of 2.2 per cent per annum, while samein respect of girls experienced a negativegrowth rate of 2.25 per cent per annum. Further, these negative growth rates are found to be statistically significant at 10 per cent level. Theshareof enrolment of boys in thetotal primary stage enrolment is noticed to be about 51 per cent, while that of for girls is observed to beabout 49 per cent. A s revealed by the values of coefficient of variation, of enrolment of boys isslightly morefluctuated when compared to girls.

Enrolment of upper primary stage (VI to VII classes) during the study period is increased from $20,71,461$ to $26,06,413$ pupils and averaged to 24,94,817 pupils . Enrolment of boys increased from 11,44,609 in 2000-01 to 1376071 pupils by 200607 and thereafter declined to $13,13,018$ pupils and ultimately averaged to $12,99,014$ by $2011-12$.

Table 5 Trends in Enrolment of Students by Stages at Primary and Upper Primary level

| SI. <br> No. | Year | Primary( I - V classes) |  |  | Upper Primary (VI-VII classes) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Boys | Girls | Total | Boys | Girls | Total |
|  |  | $\begin{gathered} 4553047 \\ (51.12) \end{gathered}$ | $\begin{gathered} 4352906 \\ (48.88) \end{gathered}$ | $\begin{aligned} & 8905953 \\ & (100.00) \end{aligned}$ | $\begin{gathered} 1144609 \\ (55.26) \end{gathered}$ | $\begin{aligned} & 926852 \\ & (44.74) \end{aligned}$ | $\begin{aligned} & 2071461 \\ & (100.00) \end{aligned}$ |
| 1 | 2000-2001 | $\begin{gathered} 4382038 \\ (50.80) \end{gathered}$ | $\begin{gathered} 4244203 \\ (49.20) \end{gathered}$ | $\begin{aligned} & 8626241 \\ & (100.00) \end{aligned}$ | $\begin{gathered} 1222098 \\ (54.05) \end{gathered}$ | $\begin{gathered} 1038797 \\ (45.95) \end{gathered}$ | $\begin{aligned} & 2260895 \\ & (100.00) \end{aligned}$ |
| 2 | 2001-2002 | $\begin{gathered} 4323707 \\ (50.67) \end{gathered}$ | $\begin{gathered} 4209924 \\ (49.33) \end{gathered}$ | $\begin{aligned} & 8533631 \\ & (100.00) \end{aligned}$ | $\begin{gathered} 1307337 \\ (53.15) \end{gathered}$ | $\begin{gathered} 1152287 \\ (46.85) \end{gathered}$ | $\begin{aligned} & 2459624 \\ & (100.00) \end{aligned}$ |
| 3 | 2002-2003 | $\begin{gathered} 4044148 \\ (50.71) \end{gathered}$ | $\begin{gathered} 3931511 \\ (49.29) \end{gathered}$ | $\begin{aligned} & 7975659 \\ & (100.00) \end{aligned}$ | $\begin{gathered} 1322834 \\ (52.87) \end{gathered}$ | $\begin{gathered} 1179296 \\ (47.13) \end{gathered}$ | $\begin{aligned} & 2502130 \\ & (100.00) \end{aligned}$ |
| 4 | 2003-2004 | $\begin{gathered} 3894649 \\ (50.63) \end{gathered}$ | $\begin{gathered} 3797762 \\ (49.37) \end{gathered}$ | $\begin{aligned} & 7692411 \\ & (100.00) \end{aligned}$ | $\begin{gathered} 1349585 \\ (52.39) \end{gathered}$ | $\begin{gathered} 1226599 \\ (47.61) \end{gathered}$ | $\begin{aligned} & 2576184 \\ & (100.00) \end{aligned}$ |
| 5 | 2004-2005 | $\begin{gathered} 3742698 \\ (50.63) \end{gathered}$ | $\begin{gathered} 3649224 \\ (49.37) \end{gathered}$ | $\begin{aligned} & 7391922 \\ & (100.00) \end{aligned}$ | $\begin{gathered} 1373194 \\ (51.95) \end{gathered}$ | $\begin{gathered} 1270111 \\ (48.05) \end{gathered}$ | $\begin{aligned} & 2643305 \\ & (100.00) \end{aligned}$ |
| 6 | 2005-2006 | $\begin{gathered} 3736789 \\ (50.75) \end{gathered}$ | $\begin{gathered} 3626448 \\ (49.25) \end{gathered}$ | $\begin{aligned} & 7363237 \\ & (100.00) \end{aligned}$ | $\begin{gathered} 1376071 \\ (51.61) \end{gathered}$ | $\begin{gathered} 1290151 \\ (48.39) \end{gathered}$ | $\begin{aligned} & 2666222 \\ & (100.00) \end{aligned}$ |
| 7 | 2006-2007 | $\begin{gathered} 3640320 \\ (50.75) \end{gathered}$ | $\begin{array}{r} 3533217 \\ (49.25) \end{array}$ | $\begin{aligned} & 7173537 \\ & (100.00) \end{aligned}$ | $\begin{gathered} 1340274 \\ (51.29) \end{gathered}$ | $\begin{gathered} 1272608 \\ (48.71) \end{gathered}$ | $\begin{aligned} & 2612882 \\ & (100.00) \end{aligned}$ |
| 8 | 2007-2008 | $\begin{gathered} 3599886 \\ (50.64) \end{gathered}$ | $\begin{gathered} 3508487 \\ (49.36) \end{gathered}$ | $\begin{aligned} & 7108373 \\ & (100.00) \end{aligned}$ | $\begin{gathered} 1294024 \\ (51.05) \end{gathered}$ | $\begin{gathered} 1241020 \\ (48.95) \end{gathered}$ | $\begin{aligned} & 2535044 \\ & (100.00) \end{aligned}$ |
| 9 | 2008-2009 | $\begin{gathered} 3626594 \\ (50.81) \end{gathered}$ | $\begin{gathered} 3510697 \\ (49.19) \end{gathered}$ | $\begin{aligned} & 7137291 \\ & (100.00) \end{aligned}$ | $\begin{gathered} 1263750 \\ (51.00) \end{gathered}$ | $\begin{gathered} 1214256 \\ (49.00) \end{gathered}$ | $\begin{aligned} & 2478006 \\ & (100.00) \end{aligned}$ |
| 10 | 2009-2010 | $\begin{gathered} 3633364 \\ (51.0) \end{gathered}$ | $\begin{gathered} 3491576 \\ (49.0) \end{gathered}$ | $\begin{aligned} & 7124940 \\ & (100.00) \end{aligned}$ | $\begin{gathered} 1281369 \\ (50.73) \end{gathered}$ | $\begin{gathered} 1244263 \\ (49.27) \end{gathered}$ | $\begin{aligned} & 2525632 \\ & (100.00) \end{aligned}$ |
| 11 | $\begin{aligned} & \text { 2010-2011 } \\ & 2012 \end{aligned}$ | $\begin{gathered} 3620693 \\ (51.1) \end{gathered}$ | $\begin{gathered} 3463874 \\ (48.9) \end{gathered}$ | $\begin{aligned} & 7084567 \\ & (100.00) \end{aligned}$ | $\begin{aligned} & 1313018 \\ & (50.38) \end{aligned}$ | $\begin{aligned} & 1293395 \\ & (49.62) \end{aligned}$ | $\begin{aligned} & 2606413 \\ & (100.00) \end{aligned}$ |
| 17 | Average | 3899828 | 3776652 | 7676480 | 1299014 | 1195803 | 2494817 |
|  | CV | 8.78 | 8.68 | 8.72 | 5.0 | 9.25 | 6.86 |
|  | GR | -2.2*** | -2.25*** | -2.24*** | 0.5 | 1.98*** | 1.21 |

Source: DISE data
Note: Figures in parentheses indicate percentages to total
*,**,*** indicate that the coefficients are significant at 1 percent, 5 percent and 10 percent
Fig. 5 Trends in Enrolment of Students by Stages at Primary and Upper Primary level


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However, enrolment of girls consistently increased from $9,26,852$ pupils to

12,93,395 pupils and thus, resulted in an average enrolment of $11,95,803$ pupils. Further, total enrolment of UP stageexperienced an annual growth rate of 1.21 per cent, while that of boys and girls experienced annual growth rates of 0.5 per cent and 1.98 per cent respectively. However, the negative growth rate corresponding to girls is statistically significant at 10 per cent, whilethe negativegrowth rates corresponding to total UP stage and for boys are observed to statistically not significant. Further, the share of enrolment of boys in the total UP stage enrolment is noticed to vary between 51 to 55 per cent, while that of for girls is observed to vary between 45 to 50 per cent. As reveal ed by the values of coefficient of variation, enrolment of girls is more fluctuated when compared to boys.

Figure-5 presents the comparative changes in the Stagewiseenrollment. For thesake of simplicity, bar diagrams are presented for thefirst year and last year of the study period i.e. 2000-01 and 2011-12.

## Conclusions

Education in AndhraPradesh follows moreor less the all India pattern. In Andhra Pradesh by 2012, in rural area local body namely Mandal Paja Parishat schools will cater to theneeds of rural pupil; while municipal schools provide the education service to pupil in urban area. However, very few Central government schools and Stategovernment schools exist in thestatebesides. Privateschools also exist in primary, upper primary and high school level in A ndhra Pradesh.

In this paper an attempt is made to anal yze the trends in the growth of enrolment of students in Primary and Upper Primary schools. Thestudy covers thetime period of 12 years i.e., from 2000-01 to 201112 for which the uniform and comparablesecondary data is available.

Our data on the trends in the enrollment of children at the Primary and Upper Primary level showed that it was not commensurate with the growth of population in the relevant age group, notwithstanding the fact that universalization of Elementary education has been theavowed objective of the government. The quantitative growth of enrollment has been faster in the case of girlsthan in the case of boys throughout the period of six and half decades in both primary and upper primary education. Besides, the enrollment of students has
increased at a higher ratethan the number of schools and teachers.

Thefollowing are the major findings of thestudy:

1. Total enrolment as well that of boysand girls in respect of both primary as well as UP schools is declined during thestudy period. Growth rate of girl enrolment in primary schoolsis relatively (marginally) less dedining when compared to that of boys, whiletheoppositeistruein respect of UP schools.
2. A nalysis of enrolment of boys and girls in primary schools by dass implies that total as well as class wise enrolment declined during thestudy period. Theenrolment is noticed to be relatively low in the descending order, when movefrom class I to class V .
3. The analysis implies that total enrolment in respect of primary stage has been declining over timeat an annual rate of 0.9 per cent, whilethat of in respect of UP stage is increasing at an annual rateof 2.97 per cent.

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