



## School Infrastructure Facilities in India and Gujarat State: A Comparative Study

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### ABSTRACT

The number of educational institutions imparting primary education in the State were 45023 in the year 2020-21 as against 45315 in the year 2019-20. The number of pupils enrolled in these schools were 84.65 lakh in the year 2020-21 as against 86.14 lakh in the previous year. The number of institutions imparting secondary and higher secondary education has increased from 12445 in the year 2019-20 to 12709 in the year 2020-21. Whereas, the number of students has decreased from 28.67 lakh in the year 2019-20 to 28.43 lakh in the year 2020-21. (Socio-economic Review-2021-22). The average annual expenditure of a student in technical education has increased by 95.69% in 2014 compared to 2007. In this period, the education for employment has increased by 85.98%. In the year 2007, 1,04.8% expenditure on technical education and 504.6% on employment education is more than general education. Whereas in 2014, 8.5.7% expenditure on technical education and 307.7% on employment education is more than general education.

### KEY WORDS

Infrastructure Facilities, Educational Institutions,

### INTRODUCTION

Technological advancement, the integration of digital tools and resources within educational institutions has become paramount. This transition from traditional methods to digital infrastructure has revolutionized the learning experience, empowering both educators and students with new avenues for knowledge dissemination and acquisition. This study

delves into the significance of digital infrastructure in schools, with a special emphasis on the Indian context, and a detailed analysis of Gujarat, one of its prominent states. This study aims to assess various facets of digital infrastructure, including access to computers or tablets, availability of high-speed internet, digital learning platforms, and training for educators to effectively employ these tools. Through a comprehensive analysis, we endeavor to highlight the impact of digital infrastructure on learning outcomes, engagement levels, and overall educational quality. some of the important key performance indicators such as availability of Integrated Science Lab, Co-curricular activity room, arts and crafts room facility, sustainable development activities related to environment viz., schools with solar panel, rain water harvesting, kitchen garden etc have been.

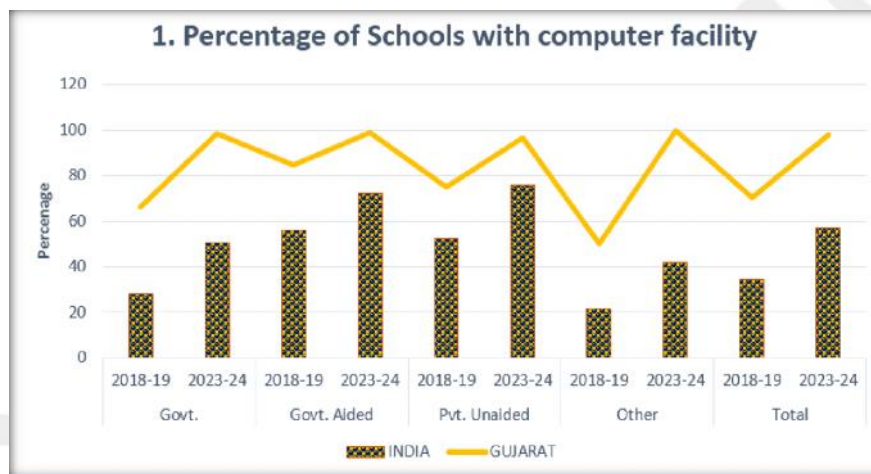
## Objectives

1. To know digital infrastructure in schools in India and Gujarat.
2. To know the comparative study of facilities in schools in India and Gujarat.

## Methodology

The study utilizes secondary data from the educational report released by the Government of India. It focuses on the analysis of infrastructural facilities available in schools. The analysis primarily employs percentage and percentage change methods. Compare the findings with data from previous years, if available, to identify trends and improvements.

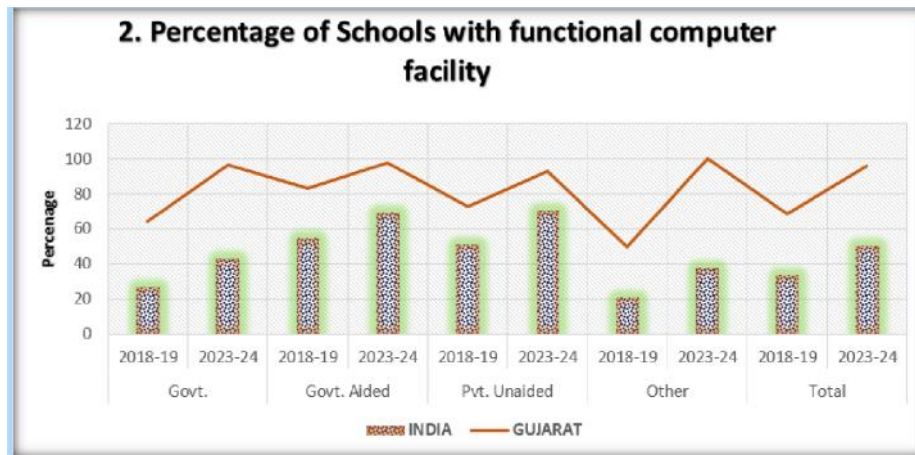
### School Infrastructure Facilities in India and Gujarat State



(Source: UDISE+ 2018-19, Pages-99, UDISE+ 2021-22, Pages-138.)

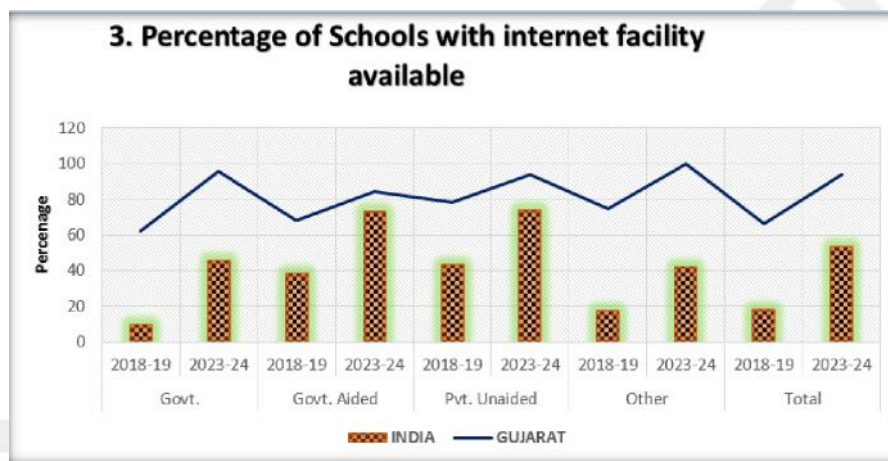
Computer facility in schools in India is available in 707498 schools with an increase of 12.98 % from 2018-19 to 2021-22. While in Gujarat, 27.75 % is available in 52781 schools. Computer facility in Government School has increased by 9.51 % in India and 32.34 in Gujarat. Government Aided School has increased by 12.4 % in India and 14.62 % in Gujarat. Privet schools have increased by 21.1 % in India and 21.57 % in Gujarat. Other schools have increased by 18.82 % in India and 50 % in Gujarat.

Computer facility in Government schools is 37.87 % higher in Gujarat than in India from 2018-19. Whereas in the state of Gujarat it is 60.7 % higher in the year 2021-22. Government Aided School is 28.48 % higher in Gujarat than in India from 2018-19. Whereas in the state of Gujarat it is 30.7 % higher in the year 2021-22. Privet schools is 22.83 % higher in Gujarat than in India from 2018-19. Whereas in the state of Gujarat it is 23.3 % higher in the year 2021-22. Other school is 28.42 % higher in Gujarat than in India from 2018-19. Whereas in the state of Gujarat it is 59.6 % higher in the year 2021-22.



(Source: UDISE+ 2018-19, Pages-100, UDISE+ 2021-22, Pages-139)

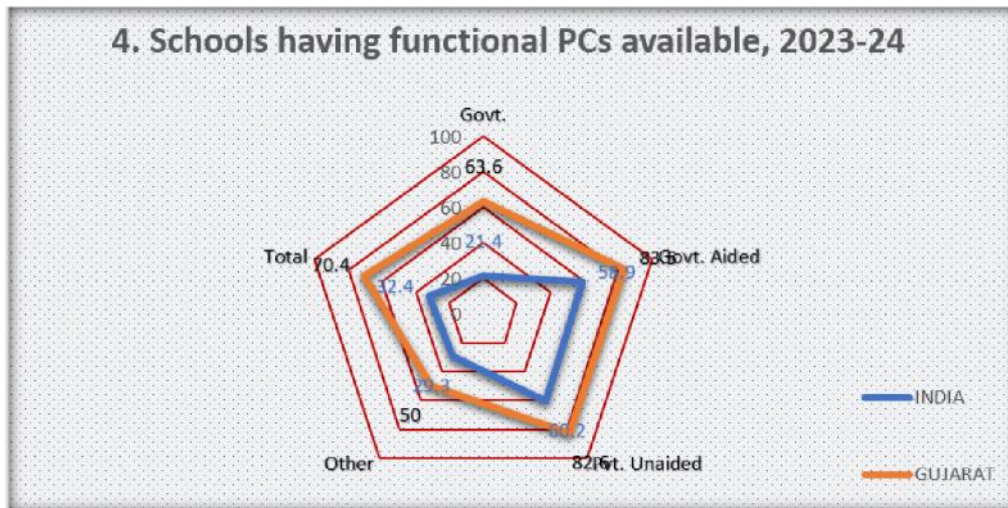
Functional computer facility in schools in India is available in 682566schools with an increase of 12.31 % from 2018-19 to 2021-22. While in Gujarat, 29.19 % is available in 52664schools. Functional Computer facility in Government School has increased by 8.62 % in India and 33.62 % in Gujarat. Government Aided School has increased by 12.34% in India and 15.82 % in Gujarat. Privet schools have increased by 20.9 % in India and 23.38 % in Gujarat. Other schools have increased by 18.1% in India and 50% in Gujarat.



(Source: UDISE+ 2018-19, Pages-101, UDISE+ 2021-22, Pages-140)

Internet facility in schools in India is available in 682566schools with an increase of 15.17% from 2018-19 to 2021-22. While in Gujarat, 25.4% is available in 52664schools. Internet facility in Government School has increased by 14.42% in India and 32.31% in Gujarat. Government Aided School has increased by 14.52 % in India and 15.66% in Gujarat. Privet schools have increased by 16.19% in India and 11.5% in Gujarat. Other schools have increased by 10.68% in India and 25% in Gujarat.

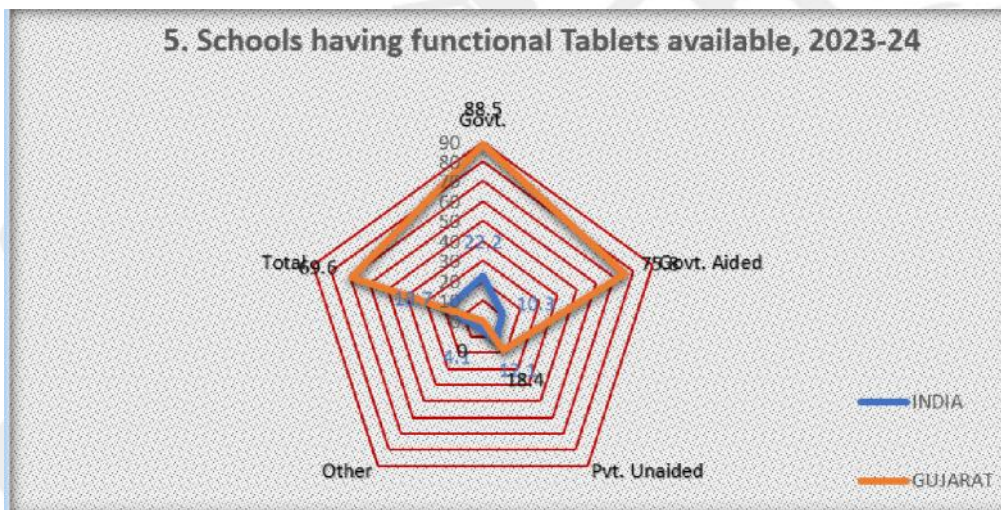
Internet facility in Government schools is 51.11% higher in Gujarat than in India from 2018-19. Whereas in the state of Gujarat it is 70% higher in the year 2021-22. Government Aided School is 29.56% higher in Gujarat than in India from 2018-19. Whereas in the state of Gujarat it is 30.7 % higher in the year 2021-22. Privet schools is 34.69% higher in Gujarat than in India from 2018-19. Whereas in the state of Gujarat it is 30% higher in the year 2021-22. Other school is 56.88% higher in Gujarat than in India from 2018-19. Whereas in the state of Gujarat it is 71.2% higher in the year 2021-22.



(Source: UDISE+ 2021-22, Pages-177)

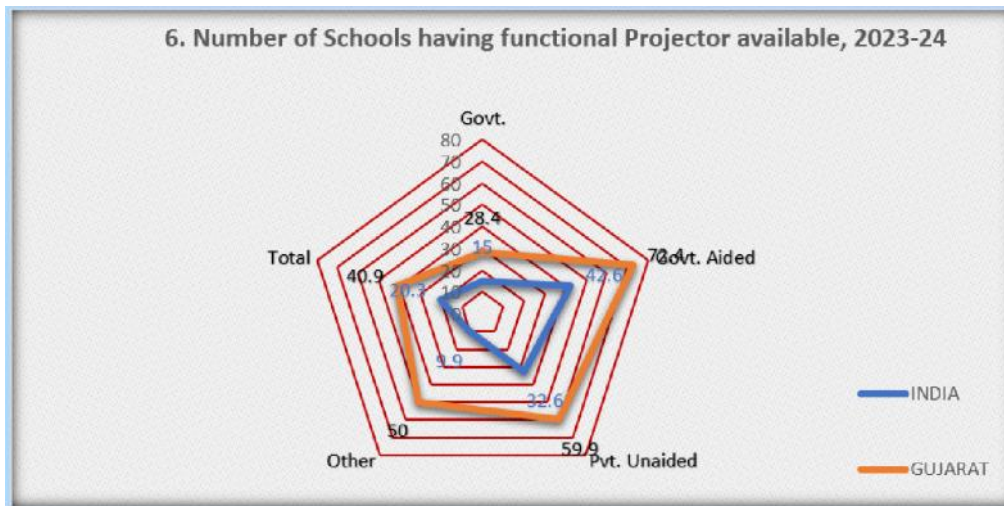
Functional desktop PCs are available in 38553 schools i.e. 25.9 % of schools in India in the year 2021-22. While in Gujarat, 62% is available in 33384 schools. Functional desktop PCs in Government School are available at 16.5% in India and 55.1% in Gujarat. Government Aided School are available at 50.3 % in India and 73.8 % in Gujarat. Privet schools are available at 49.1 % in India and 74.8 % in Gujarat. Other schools are available at 21.2 % in India and 33.3% in Gujarat.

Functional desktop PCs in Government schools is 38.6 % higher in Gujarat than in India from year 2021-22. Government Aided School is 23.5 % higher in Gujarat than in India from year 2021-22. Privet schools is 25.7 % higher in Gujarat than in India from year 2021-22. Other school is 12.1 % higher in Gujarat than in India from year 2021-22.



(Source: UDISE+ 2021-22, Pages-179)

Functional tablets are available in 133633 schools i.e. 9 % of schools in India in the year 2021-22. While in Gujarat, 66.5 % is available in 33384 schools. Functional tablets in Government school are available at 9.4 % in India and 85.1 % in Gujarat. Government Aided School are available at 8.4 % in India and 72.1 % in Gujarat. Privet schools are available at 8.6 % in India and 16.6 % in Gujarat. Other schools are available at 3 % in India and 0 % in Gujarat. Functional tablets in Government schools is 75.7 % higher in Gujarat than in India from year 2021-22. Government Aided School is 63.7 % higher in Gujarat than in India from year 2021-22. Privet schools is 7.2 % higher in Gujarat than in India from year 2021-22.



(Source: UDISE+ 2021-22, Pages-181)

Functional projector are available in 248609 schools i.e. 16.7% of schools in India in the year 2021-22. While in Gujarat, 38.5% is available in 20722 schools. Functional projector in Government school are available at 11.8% in India and 27.4% in Gujarat. Government Aided School are available at 38.3% in India and 66.6% in Gujarat. Private schools are available at 27.7% in India and 55.2% in Gujarat. Other schools are available at 7.3% in India and 66.7% in Gujarat.

Functional projector in Government schools is 15.6% higher in Gujarat than in India from year 2021-22. Government Aided School is 28.3% higher in Gujarat than in India from year 2021-22. Private schools is 27.5% higher in Gujarat than in India from year 2021-22.

## Findings and Recommendations

- Computer facility in total schools is 35.73% higher in Gujarat than in India from 2018-19. Whereas in the state of Gujarat it is 50.5% higher in the year 2021-22.
- Internet facility in total schools is 71.2% higher in Gujarat than in India from 2018-19. Whereas in the state of Gujarat it is 47.87% higher in the year 2021-22.
- Functional desktop PCs in total schools is 36.1% higher in Gujarat than in India from year 2021-22.
- Functional tablets in total schools is 63.5% higher in Gujarat than in India from year 2021-22.
- Functional projector in total schools is 21.8% higher in Gujarat than in India from year 2021-22.

## CONCLUSION

The condition of schools in Gujarat is generally better than that of schools in India, although compared to developed countries there is still room for improvement. Given the current era of emphasis on information and technology, it is important for the Government to focus on increasing computer and internet facilities. Strengthening of school infrastructure is essential for the progress of education. Developing a comprehensive network of educational institutions is important to establish Gujarat as a globally renowned knowledge society.

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