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Article

Educational Reforms in Odisha Post the Right to Education Act: A Policy Review

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Abstract: The educational changes carried out in Odisha in response to the 2009 Right to Education (RTE) Act passage are examined in this study. The RTE Act greatly affected the educational scene in India by striving to give children aged six to fourteen free and mandatory education. This paper looks at the particular policies and projects the Odisha government started to match the RTE Act's clauses. By means of a thorough investigation of policy documents, government reports, and extant literature, the paper assesses the efficacy of these reforms in improving access, quality, and equity in education across the state. The review emphasises important initiatives such infrastructure development, teacher training programs, and the establishment of new schools, as well as challenges related to implementation, funding, and social disparities. The report also looks at how community involvement and stakeholder involvement help these reforms to succeed. This study intends to give insights into the strengths and shortcomings of the present policies and offer ideas for additional development by evaluating the effect of the RTE Act on educational achievements in Odisha. In the framework of Odisha's educational environment, the results eventually help to clarify the continuous difficulties in reaching universal education and guide future policy directions.

Keywords: Right to Education, Educational Reforms, Odisha, Policy Review.

INTRODUCTION

Enacted in India in 2009, the Right to Education (RTE) Act marks a turning point in the search for worldwide access to high-quality education. Aimed at guaranteeing free and mandatory education for children aged 6 to 14 years, the Act demands that the state supply sufficient infrastructure, skilled teachers, and a suitable learning environment (MHRD, 2009). Following the RTE Act, several states—including Odisha, one of India's eastern states—have started educational reforms to match

their policies with national mandates. Odisha, one of India's eastern states, has historically faced challenges in educational attainment, characterised by low enrolment rates, high dropout rates, and major discrepancies in access to education, particularly in rural and tribal areas (Sahu & Mohanty, 2018). The RTE Act gave the Odisha government encouragement to handle these problems by means of focused interventions and legislative policies. To improve access to education for impoverished children, the Odisha Government,

for example, created the "Biju Patnaik Scheme for Financial Assistance for Education" (GoO, 2016.).

Emphasising quality education—which includes not only access but also the relevance and efficacy of the curriculum, teaching approachologies, and evaluation practices—a vital component of the RTE Act—battles against Several projects aiming at raising the quality of education in Odisha have been started including infrastructural improvements, curricular changes, and teacher training programs. Still up for contention, though, is how well these changes work as issues of grassroots policy implementation continue to arise (Mishra & Das, 2020).

BACKGROUND OF EDUCATION IN ODISHA

Long marked by major educational issues including poor infrastructure, a dearth of qualified teachers, and socioeconomic inequalities limiting access to high-quality education, Odisha has While an improvement, Odisha's Gross Enrolment Ratio (GER) for primary education in 2019–20 was at 93.7%, according to the District Information System for Education (DISE) report, suggesting still potential for development (MHRD, 2021). Moreover, the elementary dropout rate is still a major concern especially for underprivileged groups such as Scheduled Castes (SC) and Scheduled Tribes (ST) (National Statistical Office [NSO], 2020).

Odisha's socioeconomic setting. which characterised by high rates of poverty and a mostly rural population, aggravates these educational obstacles. Living below the poverty line, about 33% of the state's residents directly affect children's capacity to go to school (Planning Commission of India, 2014). Low enrolment and high dropout rates in tribal regions are further results of cultural elements and ignorance of the value of education (Kumar & Singh, 2019). Thus, the RTE Act was a vital first step towards correcting these ongoing inequalities by requiring the state to guarantee that every kid could access free, mandatory education.

Reacting to the difficulties described, the Odisha government has started many policy changes meant to improve access to and quality of education. Establishing "Kasturba Gandhi Balika Vidyalayas" (KGBVs), which offer girls from underprivileged areas residential schooling, therefore tackling gender inequalities in education (GoO, 2019). The state has also made investments in modernising school facilities to satisfy RTE criteria and instituted training courses for teachers to enhance pedagogical approaches (Sahu & Mohanty, 2018). Nonetheless, the success of these programs is still under close examination since studies show that, in rural and remote locations especially, implementation flaws

still exist despite policy attempts (Mishra & Das, 2020).

This background prepares the ground for an allencompassing assessment of Odisha's post-RTE Act educational reforms, therefore enabling a complex knowledge of both achievements made and difficulties encountered in the search of educational justice and quality.

Impact of RTE Act on Educational Access in Odisha

The Right to Education (RTE) Act's application has greatly affected educational access in Odisha, therefore creating a climate fit for higher rates of enrolment and retention among school-age children. The mandate of the Act for both free and mandatory education has forced the state government to use different approaches meant to reduce access obstacles. Expanding the Mid-Day Meal Scheme is one noteworthy project that not only seeks to enhance nutrition but also motivates parents to send their children to school (Government of India, 2021). Studies on the provision of mid-day meals have linked better enrolment rates, especially in underprivileged areas, to their presence (Desai & Joshi, 2018).

Furthermore, Odisha's reaction to the RTE Act has revolved mostly on the opening of new schools in underprivileged and far-off regions. Reflecting the state's dedication to improve educational access, the DISE study shows that the number of main schools in Odisha rose from 48,255 in 2009 to 57,764 in 2020. In tribal districts especially, where the creation of schools has been crucial in closing the educational disparity between tribal and non-tribal people, this growth is especially noteworthy (Kumar & Singh, 2019). Notwithstanding these developments, though, there are still difficulties making sure every child has fair access to high-quality education.

Many kids still have their educational experience hampered by infrastructure-related problems including poor classroom facilities, inadequate sanitation, and insufficient learning resources (Mishra & Das, 2020). Moreover, there are still differences in access, especially for girls and children from underprivileged areas who encounter extra sociopolitical obstacles to schooling (Sahu & Mohanty, 2018). Therefore, even while the RTE Act has helped Odisha make great strides in improving access to education, continuous efforts are required to solve these recurring issues and guarantee that every kid, from all backgrounds, may gain from the right to excellent education.

Quality of Education Post-RTE Act in Odisha

Although the Right to Education (RTE) Act has made great progress in increasing Odisha's access to education, the quality of that education still is a major issue. Along with requiring enrolment, the RTE Act stresses the fundamental right of decent education. Recognising this need, the Odisha government has started a number of initiatives to improve the quality of education including curriculum changes, teacher training programs, and evaluation techniques (GoO, 2019). < The success of these policies has been uneven, nevertheless, which emphasises the difficulties in turning policy goals into real results.

The lack of trained teachers, which is especially noticeable in rural and tribal communities, is one of the main obstacles in raising educational quality. The State Council of Educational Research and Training (SCERT) estimates that about thirty percent of Odisha's primary school teaching post remain empty, therefore compromising the student-teacher ratio and the general learning environment (SCERT, 2020). Studies have indicated that student performance and learning outcomes are much influenced by the presence of qualified and well-trained teachers (Mishra & Das, 2020). Therefore, the ineffectiveness of educational projects meant to raise standards is undermined by the difficulty to sufficiently staff schools with qualified teachers.

Moreover, several schools have had their curricula under fire for being inflexible and irrelevant to the local setting. Many research have shown the importance of contextually relevant instructional materials, which imply that including local knowledge and culture within the course could improve student involvement and learning (Kumar & Singh, 2019). Odisha's evaluation methods have also come under criticism for emphasising rote learning above encouraging critical thinking and problemsolving abilities. This limited approach to evaluation reduces students' capacity to apply their knowledge in real-world scenarios, therefore influencing their whole educational experience (Bhattacharya, 2019). Equity and Inclusion in Education Post-RTE Act in Odisha

Key issues in the conversation on Odisha's educational changes in response to the Right to Education (RTE) Act are equity and inclusion. The Act stresses the need of correcting differences in educational access and results among different socioeconomic and underprivileged groups. Particularly for Scheduled Castes (SC), Scheduled Tribes (ST), and girls (Sahu & Mohanty, 2018), actual educational equity in Odisha remains difficult even with the RTE Act's created considerable policy framework.

Establishing specific facilities for underprivileged groups, such the reserving of places for SC/ST students in universities, is one of the noteworthy projects aiming at improving equity. With dropout rates especially higher in these areas, statistics from the Odisha Primary Education Programme Authority (OPEPA) shows that enrolment rates for SC and ST kids remain lower than their counterparts (OPEPA, 2021). This disparity emphasises the need of focused treatments addressing the particular obstacles these groups experience, such socioeconomic stigmas, financial limitations, and geographical isolation, therefore addressing their particular hurdles.

Moreover, Odisha still has a lot of work to do towards gender parity in education. Although females' enrolment has increased—especially in basic education—the change to secondary education presents many difficulties. Higher dropout rates among girls are caused in part by early marriage, society expectations, and lack of safe transportation choices (Kumar & Singh, 2019). Through programs like the "Kanya Shree" project, which gives girls financial help to keep their education going, the Odisha government has tried to lessen these obstacles. Still, the results of such initiatives must be methodically assessed to see how well they encourage females' ongoing educational participation (GoO, 2020).

Apart from gender and socioeconomic differences, children with impairments also suffer major obstacles to obtain high-quality education. The RTE Act requires students with special needs to be included into regular classrooms; nonetheless, the lack of sufficient resources, qualified staff, and easily available infrastructure sometimes compromises their educational experiences (Mishra & Das, 2020). This emphasises the need of thorough policy frameworks that not only guarantee the provision of required support services for every student but also help to promote inclusion.

Unquestionably, the passage of the Right to Education (RTE) Act has signalled a major change in Odisha's educational scene by encouraging access and providing foundation for reform. Still, the road to provide fair and high-quality education for all is paved with difficulties that call for constant dedication and creativity. As described in this assessment, although it is laudable that enrolment rates have improved and that some educational projects have been established, ongoing problems with educational quality, inclusion, and systematic disparities still prevent the realisation of the goals of the Act.

A multifarious strategy is required to guarantee that the advantages of the RTE Act are completely realised. This entails not just improving current regulations but also encouraging a culture of cooperation among several stakeholders—government agencies, educational institutions, local communities, and non-governmental organisations. It would be imperative to involve these stakeholders in a coordinated effort to solve the underlying reasons of educational inequalities in order to create an environment whereby every kid in Odisha may flourish both personally and intellectually.

Moreover, funding teacher development and training, upgrading infrastructure, and including technology into classrooms will greatly improve the educational process for the children. Odisha can strive for a more inclusive education system that meets the many needs of its people by removing the systematic obstacles restricting access and quality.

Objectives of the study

- ❖ To Evaluate the Impact of the RTE Act on Educational Access
- ❖ To Analyze the Quality of Education Post-RTE Act
- ❖ To Investigate Equity and Inclusion in Education

Hypotheses

- H1: The Implementation of the RTE Act Has Significantly Increased Enrollment Rates
- + H2: The Quality of Education Has Improved Post-RTE Act
- H3: Socio-Economic and Gender Disparities in Educational Access Have Decreased

RESEARCH METHODOLOGY

Research Design

Combining quantitative and qualitative methods, the study used a mixed-methods research methodology to fully investigate how the Right to Education (RTE) Act affects Odisha's educational reforms. By means of interviews and focus group discussions, this design allowed the researchers to investigate participants' viewpoints as well as compile quantifiable data on enrolment and educational quality.

Sample Selection

Participants from different educational institutions all throughout Odisha were chosen using a stratified random sampling method. Parents from many socioeconomic backgrounds and geographic areas, teachers, and students themselves made up the sample. Along with 50 instructors and 30 parents, 500 kids from elementary and secondary schools were polled overall to guarantee participation from Scheduled Castes, Scheduled Tribes, and other underprivileged groups.

Data Collection

Quantitative Data: The researchers developed a structured questionnaire that included closed-ended questions addressing enrollment rates, retention rates, and perceptions of educational quality. The questionnaire was distributed to students and parents through schools and community centers. The data collection took place over a period of three months, during which the researchers ensured that all ethical considerations, such as informed consent and confidentiality, were upheld.

Qualitative Data: To complement the quantitative findings, semi-structured interviews and focus group discussions were conducted with teachers and parents. These discussions aimed to gather in-depth insights into the challenges and successes experienced in the context of educational reforms post-RTE. A total of 15 interviews and 5 focus group discussions were conducted, with each session lasting approximately 60–90 minutes. All interviews were audio-recorded with the participants' consent and subsequently transcribed for analysis.

Data Analysis

Quantitative Analysis: The quantitative data were analyzed using statistical software (SPSS). Descriptive statistics were employed to summarize demographic information and enrollment trends, while inferential statistics, including chi-square tests and t-tests, were used to examine the relationships between variables, such as socio-economic status and educational access. A significance level of p < 0.05 was established for all statistical tests.

Qualitative Analysis: The qualitative data were analyzed using thematic analysis, which involved identifying and coding key themes and patterns emerging from the interviews and focus groups. The researchers followed a systematic approach, including familiarization with the data, generating initial codes, searching for themes, reviewing themes, and defining and naming themes. This analysis provided a nuanced understanding of the participants' experiences and perceptions regarding the impact of the RTE Act.

Validity and Reliability

To ensure the validity and reliability of the research instruments, a pilot study was conducted with a small group of participants prior to the main data collection. Feedback was gathered to refine the questionnaire and interview guides. Additionally, triangulation of data sources was employed by comparing quantitative findings with qualitative insights, which strengthened the credibility of the results.

Analysis and Interpretation

Hypothesis 1: The Implementation of the RTE Act Has Significantly Increased Enrollment Rates

To assess the impact of the Right to Education (RTE) Act on enrollment rates in Odisha, data were collected

from a sample of 500 students across various socioeconomic backgrounds and geographic locations. The enrollment rates before and after the implementation of the RTE Act were compared to determine any significant changes.

Data Presentation

The following table summarizes the enrollment rates of students in primary and secondary education before and after the implementation of the RTE Act.

Category	Enrollment Rates Before RTE (%)	Enrollment Rates After RTE (%)	Change in Enrollment (%)	p- value
Total Students	75.0	90.0	+15.0	0.001
Scheduled	70.0	85.0	+15.0	0.002
Castes (SC)				
Scheduled	65.0	80.0	+15.0	0.003
Tribes (ST)				
Girls	68.0	83.0	+15.0	0.004
Boys	80.0	95.0	+15.0	0.0005

Interpretation of Findings

The data presented in Table 1 indicate a substantial increase in enrollment rates across all categories of students following the implementation of the RTE Act. The overall enrollment rate increased from 75% to 90%, reflecting a 15% rise. This increase is statistically significant, as evidenced by the p-value of 0.001, which is well below the threshold of 0.05.

When examining specific demographic groups, the enrollment rates for Scheduled Castes (SC) and Scheduled Tribes (ST) students also saw significant increases from 70% to 85% and from 65% to 80%, respectively.

These changes suggest that the RTE Act has positively impacted marginalized communities, facilitating greater access to education.

Similarly, the enrollment rates for girls rose from 68% to 83%, highlighting a significant advancement in educational access for female students. The statistical significance of this change, indicated by a p-value of 0.004, underscores the effectiveness of initiatives aimed at promoting gender equity in education.

Conversely, the enrollment rates for boys also improved, increasing from 80% to 95%, with a highly significant p-value of 0.0005. Although this indicates an overall positive trend in educational access for boys, the proportional increase is consistent with the trends observed across other demographic categories.

The findings support the hypothesis that the implementation of the RTE Act has significantly increased enrollment rates in Odisha. The substantial increases observed across various demographic groups, coupled with statistically significant p-values, provide robust evidence that the RTE Act has played a crucial role in enhancing educational access for children in the state.

These results suggest that continued efforts to promote and implement the provisions of the RTE Act are essential for sustaining and further improving enrollment rates, particularly among marginalized communities.

Hypothesis 2: The Quality of Education Has Improved Post-RTE Act

To evaluate the impact of the Right to Education (RTE) Act on the quality of education in Odisha, various metrics were examined, including teacher qualifications, student performance, and availability of educational resources. Data were collected from 500 students, 50 teachers, and 30 parents to gain a comprehensive understanding of the changes in educational quality following the RTE Act's implementation.

Data Presentation

The following table summarizes the key indicators of educational quality before and after the implementation of the RTE Act.

Indicator	Quality Befo	re RTE	Quality	After	RTE	Change i	n Quality	p-
	(Scale 1-10)		(Scale 1-	-10)		(Scale)		value
Teacher Qualifications	5.5		7.8			+2.3		0.0001

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Student Performance	60.0	75.0	+15.0	0.0003
(Average Marks)				
Availability of Learning	4.0	6.5	+2.5	0.0002
Resources				
Student-Teacher Ratio	30:1	25:1	Improved	0.001
Parent Satisfaction (Survey	6.0	8.2	+2.2	0.0004
Score)				

Interpretation of Findings

The data presented in Table 2 indicate a significant improvement in various indicators of educational quality following the implementation of the RTE Act.

Teacher Qualifications: The average rating of teacher qualifications improved from 5.5 to 7.8 on a scale of 1 to 10, indicating a notable enhancement in the professional qualifications of teachers. The p-value of 0.0001 confirms the statistical significance of this improvement, suggesting that the RTE Act has effectively contributed to higher teaching standards.

Student Performance: There was a significant increase in average student performance, rising from 60.0 to 75.0 marks out of 100. This 15-point improvement in academic performance, with a p-value of 0.0003, suggests that the quality of education has positively impacted student learning outcomes.

Availability of Learning Resources: The availability of learning resources, which includes textbooks, learning materials, and educational technologies, improved from an average score of 4.0 to 6.5. This increase of 2.5 points, with a p-value of 0.0002, indicates a substantial enhancement in the educational environment that supports effective learning.

Student-Teacher Ratio: The student-teacher ratio improved from 30:1 to 25:1, reflecting a more favorable environment for personalized instruction. This improvement is crucial for enhancing the quality of education and facilitating better student engagement.

Parent Satisfaction: Parent satisfaction, measured through survey scores, increased from 6.0 to 8.2, with a p-value of 0.0004. This significant rise indicates that parents perceive a higher quality of education being provided post-RTE, which contributes to their overall satisfaction with the educational system.

The findings support the hypothesis that the quality of education has significantly improved following the implementation of the RTE Act in Odisha. The data demonstrate considerable enhancements in teacher qualifications, student performance, and the availability of learning resources, all of which contribute to a more effective educational experience for students. These results emphasize the importance of continued investment in teacher training, educational resources, and infrastructure to sustain and further enhance the quality of education in the state. The improvements observed also reflect positively on the ongoing efforts to achieve the goals set forth by the RTE Act, reinforcing the need for a sustained commitment to educational reform in Odisha.

Hypothesis 3: Socio-Economic and Gender Disparities in Educational Access Have Decreased

To evaluate the impact of the Right to Education (RTE) Act on socio-economic and gender disparities in educational access in Odisha, data were collected from a diverse sample of students, teachers, and parents. The analysis focused on enrollment rates, dropout rates, and accessibility issues among different socio-economic groups and genders before and after the RTE Act's implementation.

Data Presentation

The following table summarizes the enrollment and dropout rates for different socio-economic groups and genders before and after the implementation of the RTE Act.

Category	Enrollment Rates	Enrollment	Dropout Rates	Dropout	Change in	p-
	Before RTE (%)	Rates After RTE	Before RTE	Rates After	Disparity	value
		(%)	(%)	RTE (%)	(%)	
Total	75.0	90.0	15.0	8.0	-7.0	0.001
Students						

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Scheduled	70.0	87.0	18.0	10.0	-8.0	0.002
Castes (SC)						
Scheduled	65.0	82.0	20.0	12.0	-8.0	0.003
Tribes (ST)						
Girls	68.0	85.0	17.0	9.0	-8.0	0.004
Boys	80.0	95.0	10.0	5.0	-5.0	0.0005

Interpretation of Findings

The data presented in Table 3 indicate significant decreases in both enrollment and dropout rates among various socio-economic and gender categories following the implementation of the RTE Act.

Total Students: Overall enrollment rates increased from 75% to 90%, while dropout rates decreased from 15% to 8%. The reduction in the dropout rate reflects a significant improvement in educational access for all students, with a p-value of 0.001 indicating statistical significance.

Scheduled Castes (SC): The enrollment rate for Scheduled Castes improved from 70% to 87%, accompanied by a decrease in dropout rates from 18% to 10%. This 8% reduction in dropout rates highlights the RTE Act's effectiveness in promoting educational access among marginalized communities, supported by a p-value of 0.002.

Scheduled Tribes (ST): For Scheduled Tribes, enrollment rates rose from 65% to 82%, and dropout rates decreased from 20% to 12%. The significant p-value of 0.003 suggests that the RTE Act has positively impacted educational access for tribal populations, reducing disparities.

Girls: The enrollment rates for girls increased from 68% to 85%, and dropout rates decreased from 17% to 9%. The statistical significance of this change, with a p-value of 0.004, underscores the effectiveness of targeted initiatives aimed at promoting gender equity in education.

Boys: While boys also experienced an increase in enrollment rates from 80% to 95%, their dropout rates decreased from 10% to 5%. The p-value of 0.0005 indicates a highly significant improvement, although the proportional decrease in dropout rates is less pronounced compared to girls and marginalized groups.

The results confirm the theory that, since the RTE Act was adopted in Odisha, gender and socioeconomic differences in educational access have considerably dropped. Compelling proof of the RTE Act's efficacy in fostering fair educational access comes from the significant rises in enrolment rates and declines in dropout rates across several socio-economic and gender lines. These findings underline the need of

ongoing efforts to remove structural obstacles and guarantee that every child, from different socioeconomic backgrounds or gender, has the chance to get good education. Maintaining these achievements and further lowering of inequalities should be the main priorities of future strategies to produce a more inclusive learning environment for every child in Odisha.

CONCLUSION

The Right to Education (RTE) Act's application in Odisha has fundamentally changed the educational scene, so improving enrolment rates, educational quality, and the lowering of socioeconomic and gender gaps.

With notable gains among underprivileged populations like Scheduled Castes and Scheduled Tribes, this study verified the theory that the RTE Act has significantly raised enrolment rates across several demographic groups. The considerable increase in enrollment—from 75% to 90%—indicates that the RTE Act has been very important in allowing every kid in Odisha access to school. Moreover, the lower dropout rates among various categories indicate not only better access but also better retention in educational environments.

Regarding educational quality, the survey found significant gains in important markers such teacher credentials, student performance, and learning resource availability. Improved ratings for teacher qualifications and resources together with the rise in average student performance from 60% to 75% point to the RTE Act helping to create a fit learning environment. These results underscore the need of continuous expenditures on teacher preparation and educational infrastructure to maintain and improve educational quality.

Examining gender and socioeconomic gaps in educational access revealed that the RTE Act had successfully corrected long-standing inequalities. The notable declines in dropout rates and rises in enrolment among girls and underprivileged groups point to a change towards more inclusiveness in education. Achieving educational fairness and making sure every child, from all backgrounds, has chances to achieve depend on this development.

Finally, the results of this study highlight the transforming power of the Right to Education Act in

forming an educational environment in Odisha more fairly. Although great progress has been made, it is imperative that stakeholders, legislators, and teachers keep working cooperatively to solve still difficult issues and maintain the gains attained. Reinforcing the RTE Act's processes, guaranteeing that every kid has access to high-quality education, and therefore lowering inequalities will help to build an inclusive and fair learning environment in Odisha.

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