

A COMPREHENSIVE ANALYSIS OF CORPORATE SOCIAL RESPONSIBILITY INITIATIVES FOR EDUCATION DEVELOPMENT IN INDIA

Niruban Projoth T

Research scholar of Production Engineering Department, National Institute of Technology,
Trichy, Email: get2niruban@gmail.com

Dr. R. Jeyapaul

Professor, Production Engineering Department, National Institute of Technology, Trichy
Email: jeyapaul@nitt.edu

Abstract

Corporate Social Responsibility (CSR) is a strategic approach used by businesses to include social and environmental considerations into their operational practices and engagements with various stakeholders. In the context of India, Education Development Corporate Social Responsibility Initiatives involve firms dedicating resources to enhance educational accessibility, quality, and equity. These initiatives often involve funding infrastructure projects, providing scholarships, implementing skill development programs, and supporting educational institutions. Through CSR in education, corporations aim to address societal challenges, contribute to human capital development, and foster sustainable socio-economic growth. Corporate Social Responsibility (CSR) initiatives play a crucial role in addressing societal challenges, particularly in the realm of education development. In India, where disparities in educational access and quality persist, CSR efforts by corporations have gained significance. The study provides a comprehensive analysis of CSR initiatives aimed at education development in India. It examines the various approaches adopted by corporations, the impact of these initiatives on educational outcomes, and the challenges faced in implementation. Through a thorough review of literature, case studies, and empirical evidence, the analysis sheds light on the effectiveness and sustainability of CSR interventions in the education sector. It offers insights into best practices, emerging trends, and policy implications to enhance the contribution of CSR towards realizing educational equity and quality in India.

Keywords: CSR, Education, strategies, challenges, development

Introduction

Education is widely acknowledged as a critical catalyst for societal progress (Gautam & Singh, 2010), exerting a pivotal influence on the developmental path of nations globally. In India, despite the government's attempts to improve the standard of education, the magnitude of the problem requires wider involvement from society (Jain & Winner, 2016). Corporate companies in India have played a (Verma and Kumar 2014) crucial role in advancing education by implementing Corporate Social Responsibility (CSR) programs. These initiatives encompass a diverse range of activities aimed at strengthening the Indian education system, including addressing infrastructural deficiencies, fostering innovation, supporting teacher development, and establishing strategic partnerships (Aswani et al., 2021). The education sector has emerged as a primary recipient of mandated CSR allocations, leading to increased funding for educational institutions (James, 2012).

CSR activities in education include the construction of schools, support for teacher training programs, provision of scholarships, advancement of digital education initiatives, and enhancements to infrastructure (Jumde, 2021). According to reports from the Union Ministry of Corporate Affairs, India Inc. allocated substantial portions of its CSR funds to the education sector between FY16-17 (29,180 crores), FY19-20 (31,184.48 crores), and FY21-22 (47,187.68 crores), reflecting a significant commitment to educational development (Sharma, 2019). These initiatives have aimed at promoting education, offering scholarships, improving educational access, and fostering gender equality, with funding channeled through NGOs making a notable societal impact (Verma & Jain, 2019).

Sharma and Kiran (2012) observed a consistent engagement of 300 firms in Corporate Social Responsibility (CSR) initiatives across the period spanning from fiscal year 2016-17 to fiscal year 2020-21. The quantity of projects undertaken shown variability across different years, spanning from 1205 to 1837 projects. Narwal and Singh (2013) found that the prescribed corporate social responsibility (CSR) budgets showed a steady increase, going from INR 9125.20 crore in FY16-17 to INR 11086.67 crore in FY20-21. The corporate social responsibility (CSR) expenditure demonstrated yearly variations, culminating in its peak at INR 13478.09 crore in the fiscal year 2019-20. The allocation of funds towards education initiatives had a positive trend, reaching a total of INR 3184.48 crore in the fiscal year 2019-20. Over the years, there has been a gradual decline in the allocation of corporate social responsibility (CSR) funds for education, with a dip from 31% in FY16-17 to 20% in FY20-21 (Singh & Verma, 2014).

The Indian education sector has undergone significant changes, bolstered by constitutional provisions that ensure compulsory and cost-free education for all children up to the age of 14 (Sharma, 2018). However, there has been a shift in focus from just achieving universal education to also ensuring its high quality. There are several obstacles that impede progress, such as those related to accessibility, retention, teacher capacity, and skill development. Addressing these hurdles necessitates coordinated efforts to bring about transformation. The influence of business engagement in expediting these reforms is apparent, particularly considering the Companies Act of India's mandate for corporate social responsibility (CSR) contributions, which encompasses education as a specifically eligible endeavor (Sharma, 2018). Education plays a crucial role in corporate social responsibility (CSR) programs in India, requiring corporations to pay a portion of their revenues towards educational initiatives. In order to align with national interests, it is necessary to build partnerships with governmental agencies and educational institutions (Sharma, 2018). Establishing robust monitoring and assessment tools is crucial for effectively tracking progress. Companies must submit an annual report on their corporate social responsibility (CSR) initiatives. Corporate social responsibility (CSR) is anticipated to exert a significant impact on education in India, enhancing the accessibility, quality, and innovation within the education sector, ultimately resulting in broader societal advancement (Sharma, 2018).

Significance of the study

The transformative potential of Corporate Social Responsibility (CSR) initiatives for education development in India underscores the significance of the study. As the nation grapples with persistent educational disparities and strives for inclusive growth, CSR

interventions have emerged as a crucial avenue for fostering positive change. Through a rigorous analysis of these initiatives, this study aims to unravel their impact, effectiveness, and challenges, offering invaluable insights for policymakers, corporations, and stakeholders alike. By analyzing the nuances of CSR efforts in addressing educational disparities and promoting inclusive development, this study seeks to provide a roadmap for optimizing strategies and resources in the education sector. The findings of the study hold the promise of informing evidence-based decision-making, catalyzing impactful interventions, and ultimately, steering India towards a future characterized by equitable educational opportunities and societal well-being.

Objectives

The objective of the study is to conduct a comprehensive analysis of Corporate Social Responsibility (CSR) initiatives aimed at education development in India. The analysis encompasses evaluating the various approaches and strategies adopted by corporations, assessing their impact on key educational outcomes like access, quality, and equity, identifying implementation challenges, investigating sustainability and scalability, exploring best practices and innovative approaches, and providing suggestions and policy implications to enhance the role of CSR in addressing educational disparities and promoting inclusive development in India.

Problem statement

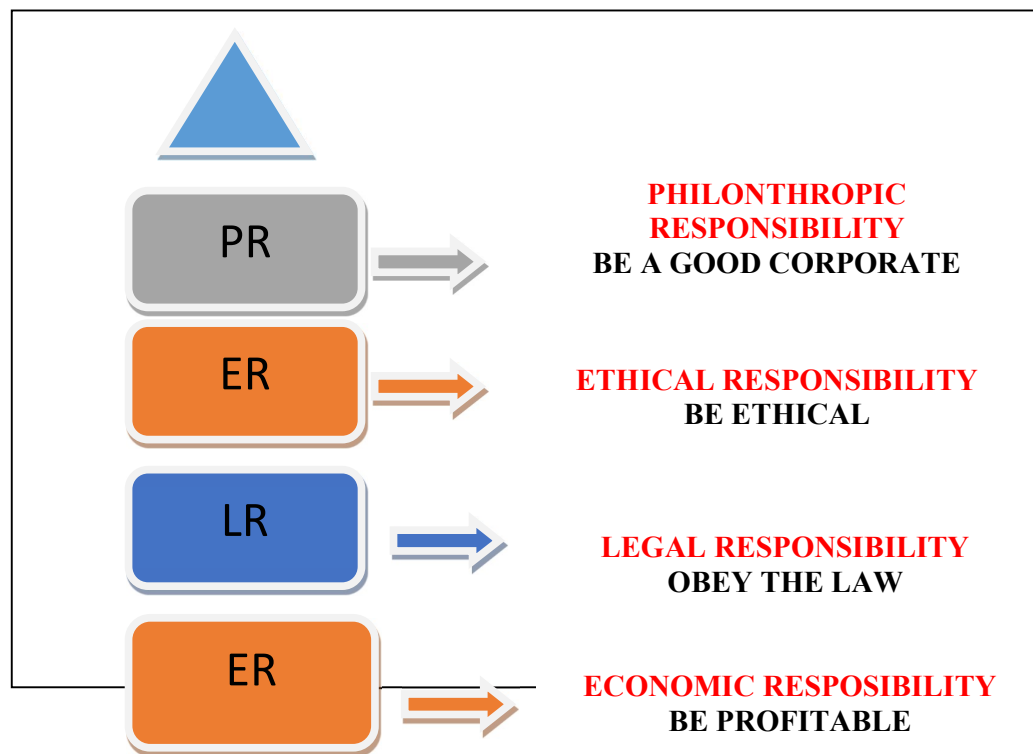
Within the multifaceted fabric of India's socio-economic milieu, education assumes a dual role as a fundamental catalyst for empowerment and a manifestation of enduring disparities. Although there have been notable advancements in recent years, there are still substantial obstacles that remain, preventing millions of children and young people from obtaining high-quality education. Corporate societal Responsibility (CSR) is a promising concept that highlights the possibility of cooperation between the corporate sector and civil society in tackling urgent societal problems. In the context of India, where the private sector holds significant influence over the country's developmental path, corporate social responsibility (CSR) endeavors have progressively directed their attention towards education, acknowledging its crucial role in fostering socio-economic advancement. These initiatives, which encompass a wide range of activities such as infrastructure development and skill-building programs, demonstrate a dedication to utilizing business resources for the betterment of society. Nevertheless, within the context of the promising environment, there are lingering inquiries pertaining to the effectiveness, long-term viability, and consequences of corporate social responsibility (CSR) initiatives in reshaping the educational domain. Our study aims to thoroughly investigate the complexities of CSR activities for education improvement in India, analyzing their achievements, difficulties, and ability to bring about long-lasting transformation. By means of this investigation, our objective is not alone to comprehend the present state of affairs, but also to establish a trajectory towards a more just and comprehensive educational future for the entire population of India.

Theoretical framework

The theoretical framework guiding the analysis of CSR initiatives for education development in India draws from various perspectives. Rooted in Visser's CSR pyramid, CSR in education aligns with corporations' ethical and philanthropic duties (Visser, 2006). Stakeholder theory recognizes diverse stakeholders involved (Jayaraman et al., 2018), while

theories of social impact emphasize long-term positive outcomes (Faucher, 2022). Implementation science acknowledges complexities in translating CSR commitments into tangible outcomes (Bindhu, 2021). Legal frameworks and socio-economic contexts shape CSR landscape (Khandelwal & Bakshi, 2014). Synthesizing these perspectives contributes to understanding CSR's role in education development (Bihari & Shajahan, 2023).

Figure 1.1 Carroll's CSR pyramid



Material and method

“The study adopted a mixed-method approach, combining document analysis and surveys with a qualitative and quantitative orientation. Questionnaires were administered to HR personnel from prominent companies like Bajaj Group, JSW Steel, Reliance Industries Ltd, Wipro Ltd, Samsung India Electronics Pvt Ltd, Hindustan Unilever Limited (HUL), Tech Mahindra Foundation, Bharat Petroleum Corporation Limited (BPCL), Larsen & Toubro (L&T), Reliance Industries Limited (RIL), Mahindra & Mahindra, Aditya Birla Group, Tata Steel Ltd, Mahanadi Coalfields Limited, Axis Bank Ltd, Tata Consultancy Services Ltd, Indian Oil Limited, Hero MotoCorp Ltd, and NMDC Limited to obtain primary data. Interviews were conducted with personnel from different companies and NGOs, including HR representatives and coordinators, using purposive and snowball sampling techniques to gain insights into CSR contributions in the education sector in India. The structured questionnaire featured open-ended questions to elicit detailed responses, and thematic analysis was employed to identify prevailing trends and patterns in the data collected, supported by graphs and tables. In addition to primary data, secondary sources such as books, articles, government reports, company

reports, websites, CSR websites, and CSR boxes were consulted to provide further contextual information for the study”.

Result and Discussion

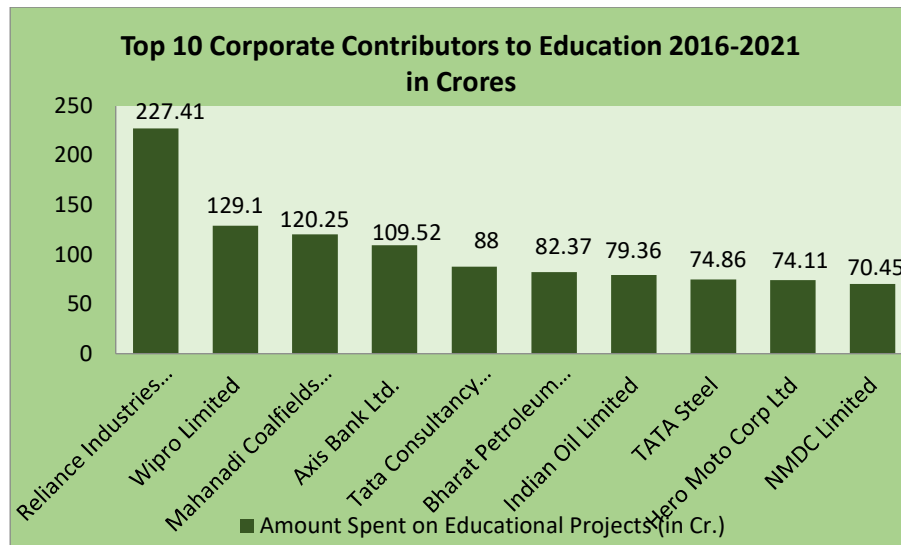
Corporations CSR Strategies for Education Development

Corporations engage in Corporate Social Responsibility (CSR) initiatives for education development through various approaches including providing educational grants and scholarships (Nehru, 2016), encouraging employee volunteer programs (Heslin & Ochoa, 2008), forming partnerships with educational institutions for tailored programs (Jarmusevica et al., 2019), donating technology resources and supporting digital literacy (Masum et al., 2020), investing in educational infrastructure (Pless et al., 2012), offering teacher training and professional development (Fusheini et al., 2023), conducting educational awareness campaigns (Jamali, 2007), sponsoring STEM education initiatives (Abbaro, 2001), establishing community education centers (Burgos & Carnero, 2020), and engaging in education-focused philanthropy (Ismail et al., 2023).

Reliance Industries Ltd, through its philanthropic arm Reliance Foundation, has been steadfast in its commitment to fostering education and skill development across India (Mehta, 2011). With an expenditure of INR 215 crore, Reliance has undertaken various initiatives aimed at promoting quality education and enhancing livelihoods (Fusheini et al., 2023). These efforts have had a significant impact, with 687 meritorious students receiving scholarships for higher studies, over 85,000 students benefiting from educational programs, and marginalized communities gaining access to improved education and skill development opportunities (Khuong et al., 2021).

Wipro Ltd. has exhibited a significant dedication to educational and community development projects (Bindhu, 2021), with a substantial allocation of INR 108.13 crore (Kappo-Abidemi & Kanayo, 2020) towards these undertakings throughout India. Wipro Education encompasses several noteworthy initiatives, one of which is the Wipro Academy of Software Excellence (WASE) program (Jain et al., 2022). This program facilitates the pursuit of a Master's degree in Software Engineering by science graduates in partnership with the Birla Institute of Technology & Science (BITS), Pilani. The program aims to cultivate a distinctive combination of scholarly rigor and hands-on professional development. Wipro actively engages in partnerships with many organizations and educational institutions (Verma & Kumar, 2014) to implement significant initiatives that aim to improve education and promote community development across the country (Sharma, 2019).

Figure 1.2 Top 10 Corporate Contributors to Education 2016-2021



Source: Government of India official report CSR

Mission10X is a non-profit program led by Wipro Limited since September 5, 2007. Its primary objective is to improve the employability skills of engineering students and strengthen the infrastructure of engineering education. During its early stage, Mission10X primarily focused on instructing teachers in pedagogy (Mehta, 2011). However, in the succeeding phase, Mission10X has embraced a "SMALLER and DEEPER Engagement" approach, emphasizing the provision of more profound educational interventions to specific engineering colleges (Jarmusevica et al., 2019). Wipro has expanded its reach to include a total of 2,000 schools, 1,500 institutions, and 2,200 teachers (Masum et al. (2020) throughout 45 districts in 21 states. Significantly, the sustainability quiz, which was introduced at IIM-A and IIM-B, garnered substantial engagement from a total of 227 teams consisting of 681 students (Abbarno, 2001). The influence of Mission10X is apparent through a range of initiatives, such as Wipro Applying Thought in Schools, which has provided assistance to 113 projects in partnership with 69 organizations (Pless et al., 2012), and Wipro-earthian, which has been advantageous to more than 3,000 educational institutions through its sustainability program (Fusheini et al., 2023). A total of 250 educators have (Ismail et al. (2023) participated in the Wipro Science Education Fellowship, a rigorous two-year program designed to enhance their teaching abilities and promote better educational achievements.

In accordance with its corporate social responsibility (CSR) funding, Bajaj Auto Ltd. allocated a total of INR 75.84 crore towards the enhancement of educational institution infrastructure, with a specific emphasis on the state of Maharashtra (Nehru, 2016). These initiatives involved the direct implementation; often in collaboration with educational institutions, to improve and (Jamali 2007) construct various educational infrastructures. Burgos and Carnero (2020) reported that a comprehensive set of 20 activities were undertaken, including notable initiatives such as improving the Mechanical Engineering facility at the College of Engineering, Pune, expanding classrooms at Pune Public School, constructing an administrative building for Nagpur University, and enhancing schools in the PCMC area of Pune. Kappo-Abidemi and Kanayo (2020) assert that Bajaj Auto played a substantial role in

the establishment of educational institutions, research laboratories, and libraries at Aurangabad Police Public School. Fusheini et al. (2023) assert that the execution of these endeavors has yielded significant positive outcomes in ameliorating the inadequate condition and infrastructure of educational establishments, therefore augmenting the overall educational milieu and academic accomplishments.

Samsung India Electronics Pvt Ltd has allocated INR 50.51 crore towards education initiatives, focusing on Smart Classrooms, Samsung Technical Schools, and the Samsung Digital Academy (Khuong et al., 2021). Through direct implementation and on-site agency support, Samsung has established Smart Classrooms equipped with the latest audio-visual tools, including Samsung Tablets, interactive smart boards, and learning apps, enhancing learning experiences across Navodaya Vidyalaya schools in rural India (Kappo-Abidemi & Kanayo, 2020). Furthermore, Samsung Technical Schools provide hands-on industry training at Industrial Training Institutes in Patna, Jaipur, and Cochin (Heslin & Ochoa, 2008). The Samsung Digital Academy offers skill development courses based on the Tizen OS platform at prestigious institutions like the IITs in Delhi, Kanpur, and Hyderabad (Bihari & Shajahan, 2023). These initiatives have significantly impacted education, with Samsung Smart Class reaching 398 Jawahar Navodaya Vidyalaya schools and introducing over 2 lakh students to modern learning (Khuong et al., 2021).

Table 1.1: In FY20-21, 300 Companies CSR projects for the thematic area of Education have been identified

No. of Companies	No. of Projects	Prescribed CSR	Actual CSR	Education Spent	Percentage
300	1205	9125.2	8227.5	529.9	31%
300	1493	9343.6	8761.3	2601.6	30%
300	1837	11045.0	11209.6	3121.5	28%
300	1837	12039	13478.1	3184.5	24%
300	1708	11086.7	11556.0	3121.5	20%

Source: CSR BOX India Education CSR Outlook Report FY 2016-17 to 2020-21

“Infosys Ltd, through its philanthropic arm Infosys Foundation, allocated INR 43.6 crore towards education initiatives aimed at fostering a better India (Nehru, 2016). Notably, it renovated schools in Arunachal Pradesh and Assam, benefiting approximately 3000 students (Khuong et al., 2021). It established chair professorships and launched the TFI fellowship program, benefiting over 1000 students (Kappo-Abidemi & Kanayo, 2020; Mehta, 2011)”.

“Mahindra and Mahindra Ltd. dedicated INR 33.41 crore to education projects, collaborating with various agencies (Heslin & Ochoa, 2008). Projects include scholarships, research, infrastructure development, and support for underprivileged schools (Masum et al., 2020; Pless et al., 2012; Ismail et al., 2023). Tata Steel Ltd. invested INR 29.93 crore in education projects, focusing on equitable and quality education (Abbarno, 2001; Burgos & Carnero, 2020). Efforts include granting fellowships, coaching, and learning enrichment programs (Fusheini et al., 2023; Jamali, 2007). ITC Ltd. allocated INR 23.25 crore to its Primary Education Programme, benefiting thousands of children and supporting government schools (Infosys, 2022; Bihari & Shajahan, 2023). Adani Ports and Special Economic Zone

invested INR 21.94 crore in educational projects like Project Udaan and Project Disha (Bindhu, 2021). Jindal Steel & Power Ltd. committed INR 12.01 crore to community education in Odisha, Chhattisgarh, and Jharkhand, educating over 10,000 students (Jain & Winner, 2016). These initiatives reflect a commitment to improving education access and quality, contributing to community development”.

Impact of CSR Interventions on Educational Outcomes

Corporate Social Responsibility (CSR) interventions in the educational sector have had a significant impact on key outcomes such as access, quality, and equity in India (Sengupta, 2017). Firstly, in terms of access, CSR initiatives have helped bridge the gap by providing resources to underserved communities and remote areas where educational infrastructure and opportunities are lacking (Sinha & Chaudhari, 2018). For example, initiatives like the "Adopt a School" program by Tata Consultancy Services (TCS) have improved access to education by renovating and upgrading schools in rural areas across India, ensuring that children have a conducive learning environment (Sharma & Kiran, 2012). This has led to increased enrollment rates and reduced dropout rates in these regions.

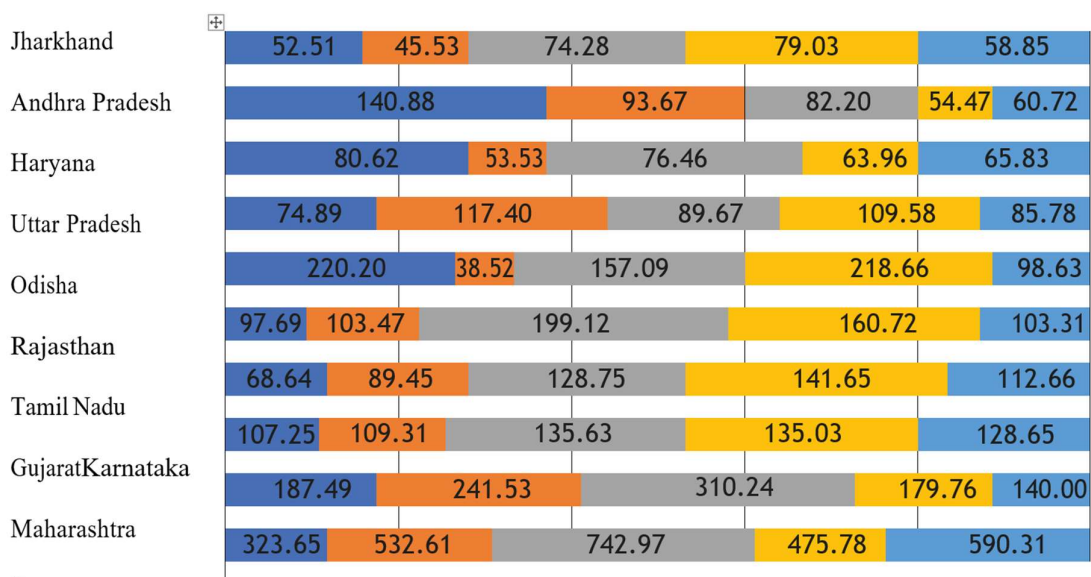
CSR interventions have contributed to enhancing the quality of education by investing in teacher training, curriculum development, and technology integration (Kumar & Naveen, 2016). Companies like Infosys Foundation have conducted numerous teacher training workshops and provided teaching aids to improve instructional practices in schools (Sengupta & Mitra, 2020). Partnerships between corporations and educational institutions have led to the development of innovative educational programs and tools, such as digital learning platforms and interactive educational content, which have enriched the learning experience for students and improved academic performance (Nehru, 2016).

CSR initiatives have played a crucial role in promoting equity in education by focusing on marginalized and disadvantaged populations (Umesh & Sivakumar, 2022). Companies like Hindustan Unilever Limited (HUL) have implemented initiatives to address gender disparities in education through programs like “Shiksha Sarthi”, which provides scholarships and support to girl students from economically weaker backgrounds (Bag & Dutta, 2021). Similarly, initiatives like the "Project Nanhi Kali" by Mahindra & Mahindra aim to empower girl children by ensuring their access to quality education, thereby promoting gender equity in education outcomes (Srinivasan et al., 2012).

In terms of geographical impact, CSR interventions have been widespread, reaching both urban and rural areas across India (Barnett et al., 2020). For instance, projects like the "Pariksha Pe Charcha" initiative by Bharti Foundation have been implemented in various states including Punjab, Rajasthan, Uttar Pradesh, and Telangana, focusing on improving educational outcomes through teacher training, infrastructure development, and community engagement (Sinha & Chaudhari, 2018). Companies like Larsen & Toubro have undertaken CSR projects in remote tribal areas like Koraput district in Odisha, where they have built schools and provided scholarships to tribal students, thus addressing educational inequities in these regions (Nehru, 2016). CSR interventions in the education sector have had a transformative impact on key educational outcomes in India, facilitating increased access, improved quality, and enhanced equity in education across diverse geographical areas and demographic groups (Visser, 2006). Through strategic partnerships, innovative programs, and targeted

interventions, corporations have played a vital role in shaping a more inclusive and equitable educational landscape in the country.

Figure 1.3: Geographic Spread of CSR Initiatives in Education by Amount Spent (in INR Cr.)



Source: CSR BOX
India Education CSR Outlook Report FY 2016-17 to 2020-21

Challenges in Implementing CSR Initiatives in Education

CSR initiatives in the education sector come with its share of challenges and barriers, which can impede the effectiveness and sustainability of such interventions. Firstly, one significant challenge is inadequate infrastructure and resources in target areas (Moratis et al., 2006). Many regions, especially rural and remote areas, lack proper educational infrastructure such as schools, classrooms, libraries, and access to basic amenities like electricity and clean water (Rowan et al., 2004). For instance, in villages of states like Bihar and Uttar Pradesh, where literacy rates are low, building and maintaining schools becomes challenging due to the lack of infrastructure support. The logistical challenges such as transportation difficulties and poor connectivity can further hinder the implementation of CSR initiatives in such areas.

Socioeconomic disparities and cultural barriers pose challenges to the equitable distribution and acceptance of CSR interventions (Graafland & Zhang, 2014). In India, disparities based on caste, class, gender, and ethnicity persist, affecting access to education and creating resistance to change in traditional educational practices. For example, in tribal areas of states like Jharkhand and Odisha, cultural beliefs and practices may influence community perceptions towards formal education, making it challenging to engage stakeholders in CSR initiatives aimed at promoting education. The regulatory complexities and compliance issues present barriers to the effective implementation of CSR initiatives in the education sector (Mishra, 2013). The evolving legal framework surrounding CSR activities, including reporting requirements, expenditure norms, and eligibility criteria, can be cumbersome for corporations

to navigate. The bureaucratic red tape and administrative inefficiencies can delay project approvals and implementation timelines, affecting the timely delivery of educational services and resources to beneficiaries.

Another challenge is the sustainability of CSR interventions beyond the initial funding period (Sharma & Sharma, 2019). Many CSR projects in education rely heavily on corporate funding, making them vulnerable to budget cuts or fluctuations in corporate priorities. The lack of long-term planning and community ownership can undermine the sustainability of initiatives once corporate support diminishes. For example, without proper capacity-building measures and local stakeholder engagement, infrastructure projects like school construction may remain underutilized or poorly maintained over time.

Measuring the impact and effectiveness of CSR initiatives in the education sector poses a significant challenge (Ramboarisata & Gendron, 2019). While corporations may invest substantial resources in educational programs, assessing their tangible outcomes and long-term benefits requires robust monitoring and evaluation mechanisms. This includes tracking indicators such as enrollment rates, academic performance, retention rates, and community empowerment. However, limited data availability, inconsistent reporting standards, and the complex nature of educational outcomes make it challenging to accurately measure the success of CSR interventions.

In recent years, corporations in India have demonstrated significant CSR contributions towards education. Notably, in 2019, Tata Consultancy Services (TCS) allocated INR 220 crore towards enhancing digital literacy, vocational training, and educational infrastructure (Narayan et al., 2012). Infosys Foundation committed INR 100 crore in 2018 for educational projects like school infrastructure development and scholarships. Reliance Industries Limited (RIL) pledged INR 500 crore in 2020, focusing on digital learning resources and upgrading educational facilities. Bharti Airtel Limited dedicated INR 100 crore in 2017 to improve access to quality education, particularly in rural areas. Similarly, Hindustan Unilever Limited (HUL) contributed INR 50 crore in 2016, supporting vocational training and educational infrastructure. These examples highlight the substantial investments made by corporations to address key educational challenges and promote positive social impact.

Table 1.2: SWOT Analysis: CSR Challenges in Education

Strengths	Weaknesses	Opportunities	Threats
1. Leveraging corporate resources, expertise, and networks	1. Limited funding and budget constraints	1. Collaborations with government and educational institutions	1. Regulatory changes and policy shifts
2. Strong brand reputation and stakeholder engagement	2. Lack of coordination with government policies	2. Advancements in technology and digital innovation	2. Socioeconomic disparities and cultural barriers
3. Models of best practices inspire replication and scalability	3. Inadequate monitoring and evaluation mechanisms	3. Increasing awareness and demand for corporate accountability	3. Competition for limited resources and funding

4. Potential for long-term partnerships and sustained impact	4. Difficulty in measuring and assessing impact	4. Access to untapped markets and communities	4. Uncertainty regarding public perception and acceptance
5. Alignment with corporate values and objectives	5. Bureaucratic hurdles and regulatory complexities	5. Opportunities for employee engagement and skill development	5. Risk of reputational damage in case of project failure

Source: primary data

Sustainability and Scalability of CSR Projects in Education

The examination of the durability and scalability of Corporate Social Responsibility (CSR) initiatives in facilitating enduring enhancements in the field of education unveils a multifaceted terrain encompassing various obstacles and prospects. Sustainability in corporate social responsibility (CSR) programs requires the implementation of strategic planning, long-term dedication, and efficient cooperation among many stakeholders, such as corporations, government agencies, local communities, and non-profit organizations (Visser & Tolhurst, 2017). The dedication to sustainability guarantees that the effects of corporate social responsibility (CSR) initiatives last (Reddy (2021), beyond the initial investment phase, hence promoting enduring enhancements in educational achievements. In order to ensure the long-term effectiveness of initiatives aimed at teacher training and curriculum development, it is imperative to provide ongoing support and opportunities for professional development (Khandelwal & Bakshi, 2014).

Scalability, conversely, pertains to the ability of corporate social responsibility (CSR) initiatives to extend and reproduce effective interventions in order to reach a wider range of individuals (Sitnikov et al., 2017). Scaling up is crucial for facilitating extensive advancements in education, especially in a heterogeneous and geographically scattered nation such as India (Berad, 2011). The scalable corporate social responsibility (CSR) initiatives frequently utilize technology and innovation as (Rambarisata and Gendron 2019) a means to surmount logistical obstacles and effectively expand their influence to remote or underserved regions. Digital learning platforms and mobile-based educational apps possess the capacity to swiftly expand and extend their reach to a substantial (Hatipoglu et al. (2019) number of learners, regardless of their geographic location or socioeconomic status.

The attainment of sustainability and scalability in corporate social responsibility (CSR) initiatives within the field of education encounters various obstacles, as highlighted by Narayan et al. (2012). Long-term investments in education may face obstacles due to limited financial resources and budget limits, especially in economically disadvantaged places where the demand is particularly pronounced (Vasilescu et al., 2010). The introduction and extension of CSR efforts might be hindered by bureaucratic obstacles, regulatory intricacies, and policy modifications, which can impede progress and restrict their effectiveness (Berad, 2011). In addition, it is imperative to get the support and commitment of local stakeholders in order to ensure long-term viability and expand the project. However, this task may present difficulties due to divergent interests and priorities (Reddy, 2021). Nevertheless, there exist several ways that organizations can utilize in order to augment the sustainability and scalability of their corporate social responsibility (CSR) initiatives inside the realm of education (Sitnikov et al.,

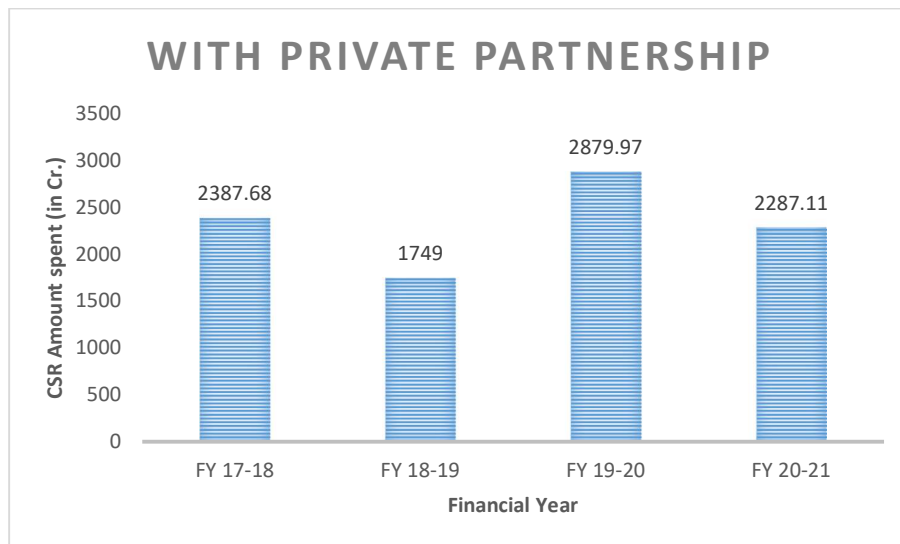
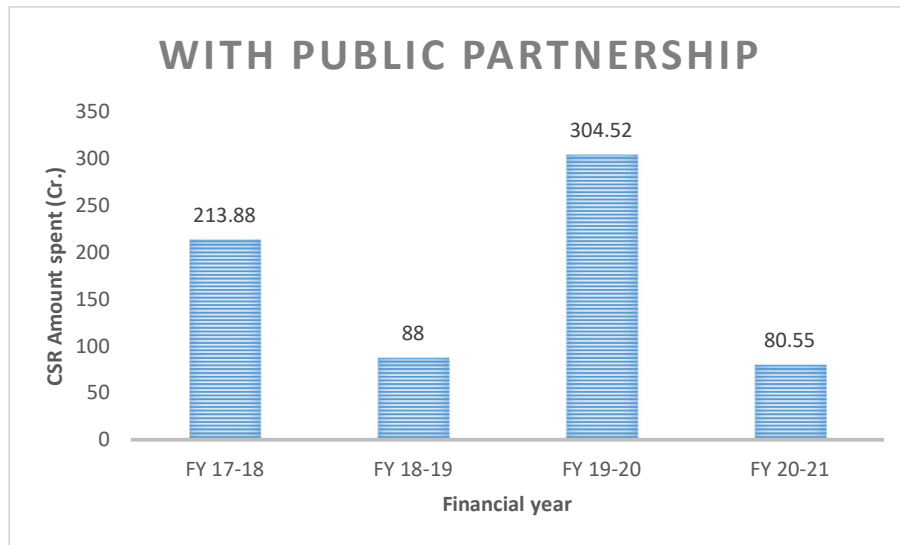
2017). An efficient strategy involves cultivating collaborations with government agencies, utilizing their resources and experience to optimize the effectiveness of corporate social responsibility interventions (Visser, 2006). The alignment of corporate social responsibility (CSR) programs with government aims and policies can be enhanced through collaborations between firms and state education departments, hence promoting better sustainability and impact (Jayaraman et al., 2018). The utilization of technology in (Hatipoglu et al. (2019) education can improve the scalability of corporate social responsibility (CSR) initiatives. The initiatives that make use of e-learning platforms, virtual classrooms, and artificial intelligence have (Rambooarisata and Gendron (2019) the ability to reach a wider audience and better accommodate various learning demands.

Utilizing participative methodologies to empower local communities is a crucial tactic for improving the sustainability and scalability of CSR programs (Narayan et al., 2012). Corporations can guarantee that interventions are culturally relevant, contextually appropriate, and responsive to local needs by engaging community members in project design, execution, and monitoring (Vasilescu et al., 2010). The incorporation of sustainability concepts into project design and management is crucial in order to (Visser and Tolhurst 2017) guarantee enduring effects. The resilience and effectiveness of corporate social responsibility (CSR) efforts can be enhanced over time by taking into account many factors, including environmental sustainability, social equality, and economic viability (Khandelwal & Bakshi, 2014). The attainment of sustainability and scalability in corporate social responsibility (CSR) initiatives within the field of education necessitates the implementation of a comprehensive strategy that encompasses strategic planning, efficient collaboration, inventive resolutions, and community empowerment (Berad, 2011). Corporations may optimize the enduring effects of their corporate social responsibility (CSR) investments in education by using these techniques. This will lead to beneficial transformations and contribute to the advancement of a fairer and more inclusive society (Narayan et al., 2012). Corporations in India have exhibited a growing acknowledgment of the significance of Corporate Social Responsibility (CSR) endeavors within the education sector, with the aim of promoting sustainable development and tackling significant societal issues (Reddy, 2021). These firms have utilized their resources, knowledge, and networks to implement a range of best practices and innovative approaches in order to optimize the efficacy of their corporate social responsibility (CSR) initiatives in the field of education (Berad, 2011).

Partnerships with Government

One of the most impactful approaches adopted by corporations is forging partnerships with government agencies to align CSR initiatives (Jayaraman, A., D'souza, V., & Ghoshal, T. 2018) with national education priorities and policies. For instance, Tata Consultancy Services (TCS) has collaborated with government education departments to implement digital literacy programs, ensuring the scalability and sustainability of their initiatives.

Figure 1.4: Allocation of Funding for Education Projects with public and private partnership



Source: CSR BOX India Education CSR Outlook Report FY 2016-17 to 2020-

21

Technology Integration

Corporations are leveraging technology to enhance learning outcomes and reach underserved communities. Infosys Foundation, for example, has provided tablets and e-learning platforms to schools in rural areas, enabling access (Tewari, R. 2015) to quality education resources where traditional infrastructure is lacking.

Community Engagement

Engaging local communities in project planning, implementation, and monitoring ensures that CSR initiatives are relevant and (Chaudhri, V., & Kaul, A. 2022) sustainable. Hindustan Unilever Limited (HUL) has successfully involved community members in school infrastructure projects through participatory approaches, fostering a sense of ownership and empowerment.

Teacher Training Programs

Investing in teacher training and professional development is crucial for improving instructional practices (Sengupta, M. 2017) and classroom effectiveness. Wipro Limited conducts workshops and mentoring programs for teachers in government schools, enhancing their skills and capacities to deliver quality education.

Innovative Curriculum Development

Developing innovative curriculum and (Mital, K. M. 2011) educational materials cater to diverse learning needs. Tech Mahindra Foundation, for instance, has created interactive STEM curriculum for underprivileged students, fostering creativity and critical thinking skills.

Focus on Girl Child Education

Corporations are implementing initiatives specifically aimed at promoting access to education for girls and addressing (Varghese, R. M., & Supraja, C. S. 2016) gender disparities. Bharat Petroleum Corporation Limited (BPCL) provides scholarships and support for girl students from marginalized communities, empowering them to pursue their educational aspirations.

Skill Development Programs

Providing vocational training and skill development programs improves the likelihood of finding employment and increases prospects for entrepreneurship. Larsen & Toubro (L&T) provides financial support for vocational training centers that aim to equip young individuals in rural areas with the necessary skills for achieving sustainable lives (Sadasivan, A. 2018).

Monitoring and Evaluation Systems

Establishing robust monitoring and evaluation (Singh, S., Holvoet, N., & Pandey, V. 2018) mechanisms is essential for tracking progress and assessing the impact of CSR initiatives. Reliance Industries Limited (RIL) implements comprehensive monitoring systems to measure outcomes of educational projects, ensuring accountability and transparency.

Tailored Interventions for Marginalized Groups

Designing targeted interventions to address the specific needs of marginalized and disadvantaged groups is critical for (Gautam, R., & Singh, A. 2010) inclusive development. Mahindra & Mahindra supports inclusive education initiatives for children with special needs, ensuring equal access to quality education opportunities.

Long-term Commitment and Sustainability

Demonstrating long-term commitment to education by investing in sustainable projects and partnerships is key for quality education. Aditya Birla Group, for instance, establishes educational institutions and (Satapathy, J., & Paltasingh, T. 2019) scholarship programs as part of its long-term CSR strategy, contributing to lasting positive impact on education outcomes. Corporate Social Responsibility (CSR) efforts in education witness corporations deploying a plethora of best practices and innovative strategies to maximize their effectiveness (Berad, 2011). Through strategic partnerships with government agencies, corporations ensure alignment with national education priorities, enhancing scalability and sustainability (Ramboarisata & Gendron, 2019). Leveraging technology, they overcome access barriers, reaching underserved communities with quality educational resources, while community engagement fosters ownership and relevance of initiatives (Narayan et al., 2012). Investing in teacher training, innovative curriculum development and skill enhancement programs enriches education quality and equips students for future success (Vasilescu et al., 2010). Initiatives targeting girl child education, marginalized groups, and long-term sustainability demonstrate

holistic commitment towards addressing systemic challenges (Berad, 2011). With robust monitoring and evaluation systems ensuring transparency and continuous improvement, corporations play a pivotal role in driving positive change and fostering inclusive and equitable education for all, thus contributing significantly to building a brighter future for generations to come.

Suggestions for enhancing CSR for Inclusive Education in India

1. **Adopt a Targeted Approach:** Encourage corporations to focus their CSR initiatives on regions and communities with the highest educational disparities and marginalized populations.
2. **Promote Innovation in Education:** With India ranked 40th out of 132 economies in the 2023 Global Innovation Index (GII), promoting innovation in education is crucial (Sengupta & Mitra, 2020). Encouraging investments in technology-enabled, experiential, and project-based learning caters to diverse needs and fosters inclusive development. Leveraging technology enhances learning quality and accessibility, bridging urban-rural divides. Experiential and project-based learning cultivate critical thinking, problem-solving, and collaboration, preparing students for the 21st century. By prioritizing educational innovation, India can elevate its GII ranking and nurture a culture of creativity, entrepreneurship, and lifelong learning, driving socioeconomic progress.
3. **Support Teacher Training Programs:** Invest in comprehensive teacher training programs to enhance pedagogical skills, promote inclusive teaching practices, and address educational disparities arising from inadequate teacher training and support.
4. **Foster Public-Private Partnerships:** Facilitate collaborations between corporations, government agencies, educational institutions, and civil society organizations to leverage resources, expertise, and networks for impactful CSR initiatives in education.
5. **Focus on Early Childhood Education:** In India, the cost of educating a child in a private school from age 3 to 17 amounts to approximately Rs 30 lakh, constituting a significant portion—20% to 30%—of a child's overall budget. The financial burden underscores the challenges many families face in accessing quality education for their children. Compounding the issue is the stark (Sethi, R., Singh, A., & Sharma, B.2020) reality that 37 million children across the country lack access to any early education service, whether public or private. To address these educational disparities and ensure equal opportunities for all children, there needs to be a concerted focus on early childhood education. By prioritizing investments in early childhood education, particularly for children from marginalized communities, we can intervene at a critical stage in their development, laying the foundation for lifelong learning and academic success. Early childhood education not only fosters cognitive and social-emotional development but also promotes inclusivity and equity in education, paving the way for a more equitable and prosperous society.
6. **Address Digital Divide:** In India, a digital divide persists across rural and urban areas, as well as between affluent cities and under-resourced urban regions. The gap stems from inadequate digital infrastructure, limited access to digital facilities, and socioeconomic disparities. For instance, statistics reveal a significant gender gap, with only 33% of women in India having used the internet (Chitimira, H., Hamadziripi, F., & Mopipi, K. N. 2022) compared to 57% of men. In rural areas, men are twice as likely as women to have accessed the internet, with 49% compared to 25%. To address this challenge, it is crucial to bridge

the digital divide by providing equitable access to digital infrastructure, devices, and internet connectivity in underserved areas. This ensures that all students, regardless of their geographic location or socioeconomic background, have equal access to online learning resources and opportunities for educational advancement.

7. **Promote Inclusive Curriculum:** Encourage the development of inclusive curriculum and educational materials that reflect the diversity of Indian society and promote values of tolerance, empathy, and respect for diversity.
8. **Empower Local Communities:** Involve local communities in decision-making processes, project planning, and implementation to ensure that CSR initiatives are contextually relevant and sustainable.
9. **Implement Monitoring and Evaluation Mechanisms:** Establish robust monitoring and evaluation mechanisms to track the impact of CSR initiatives, identify areas for improvement, and ensure accountability and transparency in resource allocation and utilization.
10. **Incentivize Corporate Contributions:** Provide incentives such as tax benefits, recognition, and awards to corporations that demonstrate exemplary contributions to addressing educational disparities and promoting inclusive development through CSR initiatives.

Final Reflections of the Study

1. Corporate Social Responsibility (CSR) initiatives in India focus on integrating social and environmental concerns in business operations, with a specific emphasis on education development
2. The Companies Act of India mandates CSR contributions, with education being a key eligible activity for corporate funding.
3. CSR initiatives for education development in India involve funding infrastructure projects, scholarships, skill development programs, and support for educational institution.
4. Corporations aim to address societal challenges, contribute to human capital development, and foster sustainable socio-economic growth through CSR in education.
5. The education sector has emerged as a primary recipient of mandated CSR allocations in India, leading to increased funding for educational institutions.
6. Exemplary CSR activities in education include the construction of schools, teacher training programs, scholarships, digital education initiatives, and infrastructure enhancements.
7. India Inc. allocated substantial portions of its CSR funds to the education sector in recent fiscal years, indicating a growing commitment to education development.
8. CSR initiatives have had a significant impact, with meritorious students receiving scholarships for higher studies and marginalized communities gaining access to improved education and skill development opportunities.
9. Strategic partnerships between corporations, government agencies, and educational institutions are crucial for aligning CSR initiatives with national priorities and maximizing their impact
10. Establishing robust monitoring and evaluation mechanisms is imperative to track the progress and effectiveness of CSR initiatives in education
11. The transformative potential of CSR initiatives for education development in India underscores their significance in fostering positive change and inclusive growth 3.

12. Challenges in accessing quality education highlight the need for continued investment in education to ensure equal opportunities for all children
13. Cultural beliefs and practices may pose challenges in engaging stakeholders in CSR initiatives, emphasizing the importance of community involvement and empowerment
14. Incentivizing corporate contributions through tax benefits and recognition can further encourage companies to invest in addressing educational disparities and promoting inclusive development

Implications of the study

The examination of Corporate Social Responsibility (CSR) initiatives aimed at education development in India carries significant implications for various stakeholders. Firstly, it underscores the critical role played by corporations in addressing educational disparities and promoting inclusive progress. By demonstrating the positive impact of CSR initiatives in enhancing access to quality education, the study underscores the potential for corporations to effectuate meaningful societal change. The study accentuates the importance of fostering strategic partnerships among corporations, government entities, educational institutions, and civil society organizations to optimize the efficacy of CSR interventions in education. Collaborative endeavors can leverage collective resources, expertise, and networks to tackle systemic obstacles and advance sustainable socio-economic growth. The insights derived from the study offer valuable guidance for policymakers in crafting policies that incentivize and oversee CSR endeavors within the education sector. By comprehending the identified best practices, challenges, and opportunities, policymakers can establish an enabling framework that empowers corporations to contribute substantively to education development. The study's implications extend to promoting corporate accountability, fostering educational innovation, engaging communities, and ensuring the long-term viability of CSR initiatives. By heeding these implications, stakeholders can collectively strive towards realizing the vision of equitable access to quality education for all in India.

Conclusion

The Corporate Social Responsibility (CSR) initiatives undertaken by corporations in India reflect a significant commitment to educational development, with a focus on promoting education, offering scholarships, improving access, and fostering gender equality. Notable contributions from companies like the Bajaj Group, JSW Steel, Reliance Industries Ltd, Wipro Ltd, and Samsung India Electronics Pvt Ltd have made a substantial societal impact, with millions of rupees allocated towards skill development and education programs. The challenges in accessing quality education, especially in early childhood, highlight the financial burden faced by many families, emphasizing the need for continued investment in education to ensure equal opportunities for all children. Cultural beliefs and practices in certain regions may pose challenges in engaging stakeholders in CSR initiatives aimed at promoting education, underscoring the importance of community involvement and empowerment. To address educational disparities and promote inclusivity, it is crucial to focus on early childhood education, bridge the digital divide, develop inclusive curriculum, empower local communities, and establish robust monitoring and evaluation mechanisms. Incentivizing corporate contributions through tax benefits and recognition can further encourage companies to invest in addressing educational disparities and promoting inclusive development. The impact of CSR initiatives in education is evident through the scholarships awarded, students benefiting

from educational programs, and marginalized communities gaining access to improved education and skill development opportunities. By continuing to prioritize education in their CSR strategies, corporations can play a vital role in shaping a more equitable and prosperous society in India.

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References

1. Abbarno, G. J. M. (2001). Huckstering in the classroom: Limits to corporate social responsibility. *Journal of Business Ethics*, 32, 179-189
2. Aswani, J., Chidambaran, N. K., & Hasan, I. (2021). Who benefits from mandatory CSR? Evidence from the Indian Companies Act 2013. *Emerging Markets Review*, 46, 100753
3. Bag, A., & Dutta, C. (2021). Impact of Corporate Social Responsibility (CSR) on Education in India: An Analysis of Post Companies Act, 2013 Era. In *Corporate Social Responsibility (CSR) Practices* (pp. 147-162). Apple Academic Press
4. Barnett, M. L., Henriques, I., & Husted, B. W. (2020). Beyond good intentions: Designing CSR initiatives for greater social impact. *Journal of Management*, 46(6), 937-964
5. Berad, D. N. (2011). Corporate social responsibility—issues and challenges in India. *Journal of Modern Accounting and Auditing*, ISSN, 1548-6583
6. Bihari, A., & Shajahan, P. K. (2023). Changing CSR practices of corporate—a study of institutionalization of mandated corporate social responsibility in India. *International Journal of Law and Management*, 65(2), 105-124.
7. Bindhu, D. (2021). Role of NGOs in Implementation of CSR Activities in India. *International Journal of Management, Technology and Social Sciences (IJMTS)*, 6(2), 100-107
8. Burgos, J., & Carnero, M. C. (2020). Assessment of social responsibility in education in secondary schools. *Sustainability*, 12(12), 4849
9. Chaudhri, V., & Kaul, A. (2022). CSR in the Community: Implications for Communication, Development, and Engagement. In *The Rutledge Handbook of Corporate Social Responsibility Communication* (pp. 323-332). Rutledge
10. Chitimira, H., Hamadziripi, F., & Mopipi, K. N. (2022). Reconceptualising the focus of corporate social responsibility initiatives to address the digital divide in South Africa during the COVID-19 pandemic. *Perspectives of Law and Public Administration*, 11(2), 294-305.
11. Faucher, R. C. (2022). Stakeholder Theory & Corporate Social Responsibility In Spain

12. Fusheini, K., Tuuli, M. M., & Salia, H. (2023). Corporate Social Responsibility (CSR) Effect on Teaching and Learning: Evidence from an Emerging Economy. *International Journal of Innovation in Teaching and Learning (IJITL)*, 9(1), 1-1
13. García Villena, E., Gracia Villar, S., Dzul López, L. A., Álvarez, R. M., Delgado Noya, I., & Luís Vidal Mazón, J. (2021). Approach to a project framework in the environment of sustainability and corporate social responsibility (CSR): Case study of a training proposal to a group of students in a higher education institution. *Sustainability*, 13(19), 1088
14. Gautam, R., & Singh, A. (2010). Corporate social responsibility practices in India: A study of top 500 companies. *Global Business and Management Research: An International Journal*, 2(1), 41-5
15. Graafland, J., & Zhang, L. (2014). Corporate social responsibility in China: implementation and challenges. *Business Ethics: A European Review*, 23(1), 34-49
16. Hatipoglu, B., Ertuna, B., & Salman, D. (2019). Corporate social responsibility in tourism as a tool for sustainable development: An evaluation from a community perspective. *International Journal of Contemporary Hospitality Management*, 31(6), 2358-2375
17. Heslin, P. A., & Ochoa, J. D. (2008). Understanding and developing strategic corporate social responsibility. *Organizational Dynamics*, 37, 125-144
18. Ismail, F., Kadir, A. A., Ngateni, N. A., & Al Hosani, A. A. H. H. (2023). Corporate Social Responsibility And Human Resource Development Interventions. *RES MILITARIS*, 13(1), 3672-368
19. Jain, R., & Winner, L. H. (2016). CSR and sustainability reporting practices of top companies in India. *Corporate Communications: An International Journal*, 21(1), 36-55
20. Jamali, D. (2007). The case for strategic corporate social responsibility in developing countries. *Business and Society Review*, 112(1), 1-27
21. James, L. (2012). Prospects of CSR: An overview of 500 Indian companies. *The IUP Journal of Corporate Governance*, 11(4), 55-68
22. Jarmusevica, V., Ilisko, D., Badjanova, J., Jukšs, V., & Petrova, M. (2019). Educating citizens for implementing the strategy of corporate social responsibility for sustainable regional development: the case study. In *EDULEARN19 Proceedings* (pp. 10449-10454). IATED
23. Jayaraman, A., D'souza, V., & Ghoshal, T. (2018). NGO–business collaboration following the Indian CSR Bill 2013: trust-building collaborative social sector partnerships. *Development in Practice*, 28(6), 831-841
24. Jumde, A. (2021). The law on CSR in India: An analysis of its compliance by companies through corporate disclosures. *Journal of Corporate Law Studies*, 21(1), 253-282
25. Kappo-Abidemi, C., & Kanayo, O. (2020). Higher education institutions and corporate social responsibility: Triple bottomline as a conceptual framework for community development. *Entrepreneurship and Sustainability Issues*, 8(2), 110
26. Khandelwal, M. R., & Bakshi, M. S. (2014). The new CSR regulation in India: the way forward. *Procedia Economics and Finance*, 11, 60-67

27. Khuong, M. N., Truong An, N. K., & Thanh Hang, T. T. (2021). Stakeholders and Corporate Social Responsibility (CSR) programme as key sustainable development strategies to promote corporate reputation—evidence from vietnam. *Cogent Business & Management*, 8(1), 1917333
28. Kouatli, I. (2019). The contemporary definition of university social responsibility with quantifiable sustainability. *Social responsibility journal*, 15(7), 888-90
29. Kumar, K., & Naveen, K. (2016). An Integrated CSR and Social Entrepreneurship Model for Rural Education in India. *Journal of Applied Management-Jidnyasa*, 36-42
30. Masum, A., Aziz, H. H. H. A. A., & Hassan, M. (2020). Corporate social responsibility and its effect on community development: An overview. *J. Account. Sci*, 22, 35-40
31. Mehta, S. R. (2011). Corporate social responsibility (CSR) and universities: Towards an integrative approach. *International Journal of Social Science and Humanity*, 1(4), 300
32. Mishra, G. (2013). Reflecting responsible initiatives for successful CSR in context of higher education institutions. *Journal of Business Management & Social Sciences Research*, 2(6), 36-42
33. Mital, K. M. (2011). Role of Business Schools in Promoting CSR as a Positive Force for Social Development. *Globalizing Management Education*, 3
34. Moratis, L., Hoff, J., & Reul, B. (2006). A dual challenge facing management education: Simulation-based learning and learning about CSR. *Journal of Management Development*, 25(3), 213-23
35. Narayan, P. S., Lal, N. K., Dutta, A., Mehta, T., Majumdar, A., Madhavan, A., ... & Sheel, R. (2012). Corporate social responsibility: Practice, theory, and challenges. *Vikalpa*, 37(2), 73-116
36. Narwal, M., & Singh, R. (2013). Corporate social responsibility practices in India: a comparative study of MNCs and Indian companies. *Social Responsibility Journal*, 9(3), 465-478
37. Nehru, R. S. S. (2016). Corporate social responsibility & education for sustainable development. *International Research Journal of Engineering, IT and Scientific Research*, 2(3), 72-8
38. Pless, N. M., Maak, T., & Stahl, G. K. (2012). Promoting corporate social responsibility and sustainable development through management development: What can be learned from international service learning programs?. *Human resource management*, 51(6), 873-903
39. Ramboarisata, L., & Gendron, C. (2019). Beyond moral righteousness: The challenges of non-utilitarian ethics, CSR, and sustainability education. *The International Journal of Management Education*, 17(3), 100321
40. Reddy, Y. S. (2021). Transforming lives through education: A CSR case study of SRF foundation. In *Corporate Social Responsibility and Sustainable Development* (pp. 206-226). Rutledge India

41. Rowan, B., Camburn, E., & Barnes, C. (2004). Benefiting from comprehensive school reform: A review of research on CSR implementation. Putting the pieces together: Lessons from comprehensive school reform research, 1-52
42. Sadasivan, A. (2018). Expanding the scope of corporate social responsibility (CSR): Strategizing skill development in the Indian scenario. *Artha Journal of Social Sciences*, 17(2), 21-3
43. Satapathy, J., & Paltasingh, T. (2019). CSR in India: a journey from compassion to commitment. *Asian Journal of Business Ethics*, 8(2), 225-240
44. Sengupta, M. (2017). Impact of CSR on education sector. *Corporate Social Responsibility in India: Cases and Developments After the Legal Mandate*, 33-5
45. Sengupta, M., & Mitra, N. (2020). Role of CSR in Education: Special Emphasis on India. *Essential Issues in Corporate Social Responsibility: New Insights and Recent Issues*, 73-8
46. Sethi, R., Singh, A., & Sharma, B. (2020). *Corporate Social Responsibility: Road Map for Early Childhood Care and Development. THEME: Early Childhood Development on the Global Agenda: Giving all children equal opportunities for lifelong learning, health and success*, 1
47. Sharma, A., & Kiran, R. (2012). Corporate social responsibility initiatives of major companies of India with focus on health, education and environment. *African Journal of Basic & Applied Sciences*, 4(3), 95-105
48. Sharma, D. N. K. (2018). An analysis of corporate social responsibility in India. Available at SSRN 3676827.
49. Sharma, D., & Sharma, R. (2019). A review literature on university social responsibility initiatives in the global context. *Journal of Emerging Technologies and Innovative Research*, 6(6), 27-35
50. Singh, A., & Verma, P. (2014). CSR@ 2%: A new model of corporate social responsibility in India. *International Journal of Academic Research in Business and Social Sciences*, 4(10)
51. Singh, S., Holvoet, N., & Pandey, V. (2018). Bridging sustainability and corporate social responsibility: Culture of monitoring and evaluation of CSR initiatives in India. *Sustainability*, 10(7), 235
52. Sinha, S. N., & Chaudhari, T. (2018). Impact of CSR on learning outcomes. *Management of Environmental Quality: An International Journal*, 29(6), 1026-104
53. Sitnikov, C. S., Bocean, C., & Tudor, S. (2017). Integrating new visions of education models and CSR 2.0 towards University Social Responsibility (USR). In *CSR 2.0 and the New Era of Corporate Citizenship* (pp. 251-273). IGI Global
54. Srinivasan, P., Srinivasan, V., & Anand, R. (2012). Status of ethics, corporate governance, CSR and environment education in business schools in India: An exploratory study. *Corporate Governance, CSR and Environment Education in Business Schools in India: An Exploratory Study* (April 15, 2012). IIM Bangalore Research Paper, (362)
55. Täuscher, K., & Abdelkafi, N. (2018). Scalability and robustness of business models for sustainability: A simulation experiment. *Journal of Cleaner Production*, 170, 654-66

56. Tewari, R. (2015). Information and technology sector—a champion in corporate social responsibility (CSR): myth or reality
57. Umesh, P., & Sivakumar, N. (2022). Stakeholder identification for CSR in secondary education in India: a mixed-method approach. *International Journal of Indian Culture and Business Management*, 25(2), 255-28
58. Varghese, R. M., & Supraja, C. S. (2016). CSR Initiatives for Children- Exploring the Practices in Selected Companies in India. *Journal of Rural & Industrial Development*, 4(1)
59. Vasilescu, R., Barna, C., Epure, M., & Baicu, C. (2010). Developing university social responsibility: A model for the challenges of the new civil society. *Procedia-Social and Behavioral Sciences*, 2(2), 4177-4182
60. Verma, A., & Kumar, C. V. (2014). An analysis of CSR expenditure by Indian companies. *Indian Journal of Corporate Governance*, 7(2), 82-94
61. Verma, D. H., & Jain, N. (2019). CSR stipulations of Companies Act, 2013 and actual CSR expenditure by top Indian companies prior to its implementation: A comparative study. Available at SSRN 3453686
62. Visser, W. (2006). Revisiting Carroll's CSR pyramid. *Corporate citizenship in developing countries*, 29-56
63. Visser, W., & Tolhurst, N. (Eds.). (2017). *The world guide to CSR: A country-by-country analysis of corporate sustainability and responsibility*. Rutledge
64. Momin, U. (2023). NREGA-Catalyst for Fostering Inclusive Growth. *International Journal for Multidimensional Research Perspectives*, 1(4), 63-72.
65. Momin, M. U. An Analysis of the Challenges and Opportunities Encountered by Small and Medium Enterprises (SMES) in the Context of the Indian Economy.
66. Momin, U., Mehak, S. T., & Kumar, M. D. (2023). Strategic Planning and Risk Management in the Startup, Innovation and Entrepreneurship: Best Practices and Challenges. *Journal of Informatics Education and Research*, 3(2).
67. Mahajan, T., Momin, U., Khan, S., & Khan, H. ROLE OF WOMEN'S ENTREPRENEURSHIP IN SOCIAL AND ECONOMIC DEVELOPMENT OF INDIA.
68. Karn, A. L., Bagale, G. S., Kondamudi, B. R., Srivastava, D. K., Gupta, R. K., & Sengan, S. (2022). Measuring the determining factors of financial development of commercial banks in selected SAARC countries. *Journal of Database Management (JDM)*, 33(1), 1-21.
69. Raj, K. B., Seth, J. K., Gulati, K., Choubey, S., & Patni, I. (2022, July). Automated Cyberstalking Classification using Social Media. In *2022 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSSES)* (pp. 1-6). IEEE.
70. Chaubey, P. K., Arora, T. K., Raj, K. B., Asha, G. R., Mishra, G., Guptav, S. C., ... & Alhassan, M. (2022). Sentiment Analysis of Image with Text Caption using Deep Learning Techniques. *Computational Intelligence and Neuroscience*, 2022.
71. Rajkumar, N., Sriram, V. P., Badrinarayanan, M. K., Raj, K. B., & Patel, R. (2022). A novel framework for the automated healthcare disaster based on intellectual machine learning. *World Journal of Engineering*, 20(5), 801-807.

72. Bhavana Raj, K. (2022). Industry 4.0: Smart Manufacturing in Industries-The Future. *Machine Learning and Data Science: Fundamentals and Applications*, 67-74.

73. Reddy, S., & Raj, K. B. (2021). Security and Well-being in Tech-Savvy Urban Communities. In *Interdisciplinary Research in Technology and Management* (pp. 306-309). CRC Press.

74. Sanil, H. S., Singh, D., Raj, K. B., Choubey, S., Bhasin, N. K. K., Yadav, R., & Gulati, K. (2021). Role of machine learning in changing social and business eco-system—a qualitative study to explore the factors contributing to competitive advantage during COVID pandemic. *World Journal of Engineering*, 19(2), 238-243.