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Role of Education on Poverty Reduction: The Case Study of Marunji Village in Pune

Dr. Akanksha Taunk¹, Dr. Samrat Ray^{1,2}, Dr. Elena V. Korchagina³, Dr. Sumitra Roy⁴

- 1 International Institute of Management Studies, Pune, India.
- 2 <u>s.ray@iimspune.edu.in</u>
- 3 Peter the Great St. Petersburg Polytechnic University, Saint Petersburg, Russia. https://orcid.org/0000-0003-3070-2508
- 4 ISMS Group of Institutions, Pune, India.

Abstract. This case study examines how education reduces poverty in Marunji Village, Pune's Mulshi taluka, Maharashtra, India. Marunji Village is close to Hinjawadi Industries and Rajiv Gandhi Infotech Park. A 35-person main qualitative survey explores the village's setting, demography, and education's impact on poverty reduction. The poll sheds light on educational facility accessibility, government programme awareness, gender discrepancies, school attendance issues, and dropout rates. The findings emphasise the need to address financial issues, infrastructure issues, and gender inequality to improve education and alleviate poverty. The study advises upgrading educational infrastructure, expanding vocational and skill-based training programmes, giving financial support and scholarships, increasing parental involvement, and promoting gender equality in school. Comprehensive educational policies and projects for Marunji Village require government, NGOs, and community collaboration. The study emphasises context-specific educational initiatives and community involvement. Marunji Village can end poverty, empower people, and promote sustainability by prioritising education. This case study helps rural communities improve education and socioeconomic conditions by shedding light on education's role in poverty reduction.

Key words: education, poverty reduction, India, educational policy, gender inequality.

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Роль образования в сокращении бедности: пример деревни Марунджи в Пуне

Д-р Аканкша Таунк⁵, д-р Самрат Рэй^{1,6}, д-р Елена Викторовна Корчагина⁷, д-р Сумитра Рой⁸

- 5 International Institute of Management Studies, Пуна, Индия.
- 6 <u>s.ray@iimspune.edu.in</u>

7 Санкт-Петербургский политехнический университет Петра Великого, Институт промышленного менеджмента, экономики и торговли, Санкт-Петербург, Россия. <u>https://orcid.org/0000-0003-3070-2508</u>

8 ISMS Group of Institutions, Пуна, Индия.

Аннотация. В этом тематическом исследовании рассматривается, как образование снижает уровень бедности в деревне Марунджи, талука Мулши, Пуна, Махараштра, Индия. Деревня Марунджи находится недалеко от предприятия Hinjawadi Industries и информационно-технического парка Раджива Ганди. Основное качественное исследование с участием 35 человек изучает обстановку в деревне, демографию и влияние образования на сокращение бедности. Опрос проливает свет на доступность образовательных учреждений, осведомленность о государственных программах, гендерные различия, проблемы посещаемости школы и уровень отсева. Результаты подчеркивают необходимость решения финансовых проблем, проблем инфраструктуры и гендерного неравенства для улучшения образования и борьбы с бедностью. В исследовании рекомендуется модернизировать образовательную инфраструктуру, расширить программы профессионального обучения и повышения квалификации, предоставить финансовую поддержку и стипендии, повысить участие родителей и способствовать гендерному равенству в школе. Комплексная образовательная политика и проекты для деревни Марунджи требуют сотрудничества правительства, НПО и сообщества. В исследовании особое внимание уделяется контекстно-зависимым

образовательным инициативам и участию сообщества. Деревня Марунджи может положить конец бедности, расширить возможности людей и способствовать устойчивому развитию, уделяя приоритетное внимание образованию. Этот практический пример помогает сельским общинам улучшить образование и социально-экономические условия, проливая свет на роль образования в сокращении бедности.

Ключевые слова: образование, сокращение бедности, Индия,

образовательная политика, гендерное неравенство.

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Introduction

famous for the Rajiv Gandhi Infotech Park. The 10 kilometres improves commuting and economic Hinjawadi Industries Association (HIA) helps develop activity. Marunji neighbours Dattwadi, Jambe, Marunji and other nearby communities. The village Mahalunge, Sus, Bavadhan Bk, Mulkhed, Nande, borders Karjat, Talegaon Dabhade, Mawal, Khalapur, Lavale, Bhugaon, Bhukum, and Kule. These villages Raigad, Thane, Mumbai City, and Mumbai Suburban. enrich regional culture and society. Neighbouring Vadgaon and Begdewadi railway stations are communities allow for collaboration, idea sharing, nearby, and Line 3 of the Pune Metro will improve and economic collaboration. It emphasises the accessibility along the Hinjawadi-Marunji Road. need to consider context and interconnection while This case study examines how education reduces planning educational interventions and poverty poverty in Marunji. By studying the educational reduction measures. Therefore, Marunji village landscape and its impact on poverty reduction in in Pune district's population, connectivity, and this region, we can learn how education can improve neighbouring villages help explain the educational comparable rural communities.

Marunji Village: Context and Demographics

Mulshi tehsil. Marunji has 4,853 residents, including by addressing educational needs, enhancing 2,827 men and 2,026 women, on 655.05 hectares. connections, and collaborating with neighbouring The village is 25 kilometres from the sub-district communities. headquarter of Paud and 23 kilometres from Pune. Marunji governs as a gramme panchayat. Marunji's 2011 literacy rate was 70.93%, with 78.21% of men reduce poverty. Marunji has improved its literacy and 60.76% of women literate. Under pincode rate to 70.93%. 1,411 people-616 men and 795 411057, the community has 1,145 dwellings. Marunji women—are still illiterate. Marunji must improve is mostly residential, but Pune, 23 kilometres away, education to end poverty. Educational infrastructure is the regional economic centre. Understanding can be improved by building schools and learning Marunji's context and demographics is vital to centres that foster learning. This ensures that measuring education's impact on poverty reduction students receive formal education and learn valuable in this community.

for its population, connection, and neighbouring students marketable skills. Training in agriculture, villages. These elements greatly influence the region's healthcare, tourism, and technology can meet local social, economic, and educational scene. 2,827 men economic requirements. These programmes increase and 2,026 women live in Marunji. Education's impact employment and income creation, lowering local on poverty alleviation depends on population size. poverty. Adult education might also help persons With a tiny population, specialised educational who missed out on childhood education. Adult programmes can improve the community. Village literacy programmes help people improve their development requires connectivity. residents have easy access to public buses within These programmes can teach functional reading,

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the community. The village is 10+ kilometres from Marunji, a village in Pune's Mulshi taluka, is private bus services. A railway station within 5 to environment and its potential impact on poverty reduction. Marunji can achieve comprehensive This case study examines Marunji village in Pune's development, empower people, and end poverty

Education Initiatives in Marunji Village

Education helps Marunji village flourish and skills for their future. Vocational and skill-based Marunji hamlet in Pune's Mulshi tehsil is known training can supplement formal education to give Marunji skills, livelihoods, and community development. numeracy, and life skills. It's also crucial to provide a welcoming educational environment for girls

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and women. Addressing gender inequities in reduction efforts in the context of the entrepreneurial education, providing safe and inclusive learning university model and the Triple Helix framework. It places, and encouraging education for everyone emphasises stakeholder participation and policy can achieve this. Educated women are more likely to reforms to foster entrepreneurship [Ray 2021]. earn income, make informed decisions about their Education succeeds with parental and community families' well-being, and alter their communities. involvement. Workshops, awareness programmes, Education in Marunji requires government, NGO, and and parent-teacher associations can encourage community collaboration. Together, these groups parental involvement and strengthen home-school may design comprehensive policies, secure funding, partnerships. Parents may help their children succeed and implement projects that address the village's in school by supporting, guiding, and emphasising educational needs and concerns. This collaborative education. Enhancing Marunji's education requires approach sustains and improves education.

village reduce poverty and improve education. First, teaching approaches, pedagogical abilities, and building and improving neighbourhood primary topic knowledge. Providing teachers with effective and secondary schools may give youngsters a solid methods and current knowledge can improve education. These institutions offer a comfortable education. learning atmosphere, well-trained teachers, and a transform attitudes and remove societal barriers to complete curriculum targeted at Marunji children. education. These efforts can promote the long-term Mobile libraries deliver books and educational benefits of education, debunk myths, and persuade materials to the hamlet, encouraging reading and families to prioritise education for their children. self-directed learning. Marunji people can borrow These activities can motivate the community books, access educational resources, and learn to invest in education by raising awareness and from these mobile libraries that tour different promoting a positive outlook. These education communities.

income students. These initiatives can help talented non-governmental, and community cooperation. Marunji students attain their academic goals Marunji empowers people through education to by providing financial aid. Vocational training break the cycle of poverty and create a better future. programmes provide local job-market-relevant skills. These programmes can teach inhabitants job skills in agriculture, technology, healthcare, and hospitality. poverty reduction used a basic qualitative survey. Marunji locals can reduce poverty by improving their This method sought participants' deep views into vocational skills and finding better jobs. Illiterate education's impact on village poverty reduction. or semi-literate Marunji residents can benefit from The survey participants were 35. This sample size adult education programmes. Functional literacy, was intended to represent the population and numeracy, and life skills can help adults better their enable in-depth data analysis. Systematic random livelihoods, participate in community development, sampling ensured fairness and representativeness and become empowered change agents. Marunji in the sample. Open-ended questions and prompts should take steps to ensure females' education is allowed participants to discuss their experiences, valued. These programmes can include awareness thoughts, and observations about education campaigns to shift societal standards, scholarships and poverty reduction in Marunji village. The for girls, safe school transportation, and a friendly questions covered access, quality, impediments, environment that encourages girls to continue and the perceived benefit of education on their education and challenge gender stereotypes. poverty reduction. Trained researchers visited Marunji pupils can benefit from digital education Marunji village to interview participants and the materials. Computer laboratories, internet access, researchers explained the study, received informed and digital literacy training help prepare kids for a consent, and guaranteed confidentiality. Face-tofuture driven by technology.

teacher professional development. Training, Several education programmes can help Marunji workshops, and mentoring can improve educators' Education awareness campaigns programmes could improve Marunji village. These Scholarships and financial aid can help low- programmes require government, educational,

Methodology

The Marunji village study on education and face interviews were used to explain responses. A paper examines Marunji Village's poverty Additionally, the researchers used active listening

helped the researchers grasp the village context. reported data may have been biased or subjective. The data-driven themes and sub-themes were

and probing questions to get extensive and nuanced transcribed, coded, and categorised. To generate information from participants during interviews. significant results, the researchers found patterns, They urged people to share education and poverty trends, and repeating concepts in the responses. The reduction anecdotes, problems, and successes. Field study's 35 participants limited its generalizability to observations supplemented interview data and Marunji village's total population. The study's self-Results

Question 1: How would you rate the overall accessibility of educational facilities in Marunji Village? 35 responses

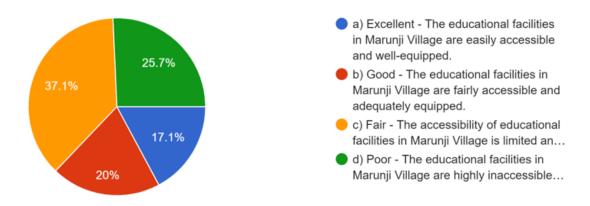
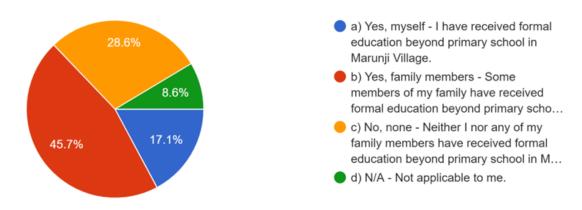


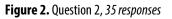
Figure 1. Question 1, 35 responses

As per the result of the above figure, 37.1% of inaccessible and lack essential resources." 20% survey respondents have found that "Fair - The have found "Good - The educational facilities in accessibility of educational facilities in Marunji Marunji Village are fairly accessible and adequately Village is limited and improvements are needed." equipped." Finally, 17.1% have found "Excellent -Besides that, 25.7% have found "Poor-The The educational facilities in Marunji Village are easily educational facilities in Marunii Village are highly accessible and well-equipped."

Question 2: Have you or any family members received formal education beyond primary school in Marunji Village?

35 responses





For the second survey question, the majority of responded, "Neither I nor any of my family members the respondents (45.7%) found that "Some members have received formal education beyond primary of my family have received formal education beyond school in Marunji Village." primary school in Marunji Village." 28.6% have

Question 3: In your opinion, how has education contributed to poverty reduction in Marunji Village? 35 responses

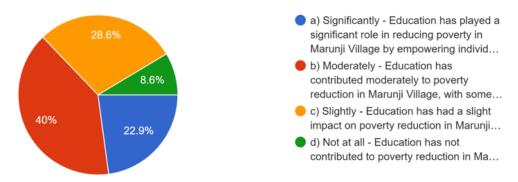


Figure 3. Question 3, 35 responses

For the third survey question, 40% responded individuals." Besides that, 28.6% have responded positively to "Education has contributed moderately that "Education has had a slight impact on to poverty reduction in Marunji Village, with poverty reduction in Marunji Village, with limited some positive impact on the overall well-being of improvements in the socio-economic conditions."

Question 4: Are there any specific challenges or barriers that prevent children from attending school regularly in Marunji Village? If yes, please specify. ³⁵ responses

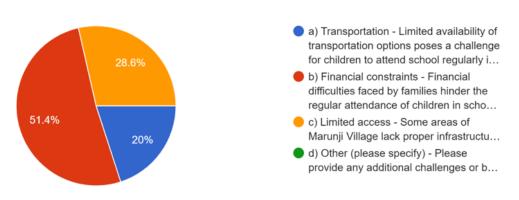
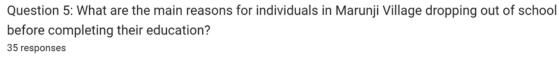


Figure 4. Question 4, 35 responses

For this survey question, more than half of the Besides that, 28.6% have found "Some areas of survey respondents have found that "Financial Marunji Village lack proper infrastructure, making it difficulties faced by families hinder the regular challenging for children to access schools regularly." attendance of children in schools in Marunji Village."



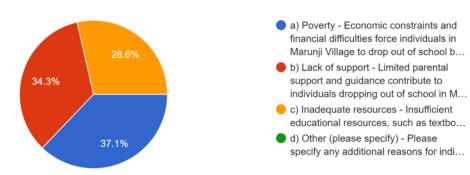
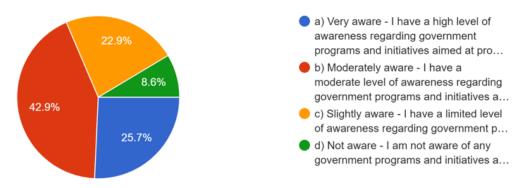


Figure 5. Question 5, 35 responses

For this fifth question, 37.1% stated that "Poverty — individuals dropping out of school in Marunji Economic constraints and financial difficulties force Village." Moreover, 28.6% responded "Inadequate individuals in Marunji Village to drop out of school resources — Insufficient educational resources, before completing their education." Additionally, such as textbooks and learning materials, lead to 34.3% have found that "Lack of support — Limited individuals leaving school prematurely in Marunji parental support and guidance contribute to Village."

Question 6: How aware are you of government programs and initiatives aimed at promoting education and reducing poverty in Marunji Village? ^{35 responses}





For this question, the majority of the respondents have stated that "Very aware-I have a high level (42.9%) have found that they are moderately aware of awareness regarding government programs of the government programs and initiatives for and initiatives aimed at promoting education and promoting education and reducing poverty. 25.7% reducing poverty in Marunji Village."

Question 7: Are there any specific gender-related disparities or challenges in accessing education in Marunji Village?

35 responses

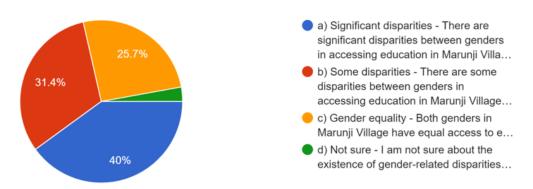


Figure 7. Question 7, 35 responses

For this survey question, 40% of the respondents "Both genders in Marunji Village have equal access have found that "There are significant disparities to education without any notable disparities." between genders in accessing education in Marunji Village, with one gender facing greater challenges." Whereas, 31.4% have stated that "There are some disparities between genders in accessing education in Marunji Village, with certain challenges faced by one gender." Besides that, 25.7% have found that

Question 8: Have you witnessed any positive changes in the socio-economic conditions of Marunji Village as a result of educational interventions? 35 responses

> a) Significant improvements - I have observed significant positive changes in 34.3% the socio-economic conditions of Mar... b) Some improvements - I have noticed some positive changes in the socioeconomic conditions of Marunji Village... c) No noticeable improvements - I have 42.9% not seen any noticeable improvement... 20% d) Not applicable - I have not witnessed any changes or I am unsure about the ...



42.9% have responded that "I have noticed some economic conditions of Marunji Village as a result positive changes in the socio-economic conditions of educational interventions". 20% stated, "I have of Marunji Village due to educational interventions." observed significant positive changes in the socio-Additionally, 34.3% responded, "I have not seen economic conditions of Marunji Village resulting any noticeable improvements in the socio- from educational interventions."

Question 9: How important do you believe vocational and skill-based training programs are in empowering individuals to overcome poverty in Marunji Village? 35 responses

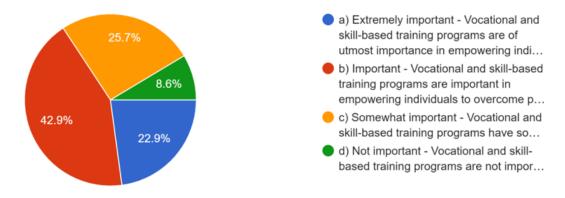


Figure 9. Question 9, 35 responses

answered "Vocational and skill-based training educational pursuits in Marunji Village." 25.7% have programs are important in empowering individuals found that "Improving training programs for teachers to overcome poverty in Marunji Village." Moreover, in Marunji Village to ensure quality education." 20% 25.7% have found that "Vocational and skill- of the respondents stated "Allocating more funds based training programs have some importance to improve educational infrastructure in Marunji in empowering individuals to overcome poverty Village". in Marunji Village". 22.9% have found "Vocational and skill-based training programs are of utmost importance in empowering individuals to overcome poverty in Marunji Village."

Question 10 (Figurine 10): For this final question, 51.4% have found an improvement that "Offering

For this question, 42.9% of the respondent scholarships and financial assistance to support

Question 10: What additional measures or improvements do you suggest to enhance the role of education in reducing poverty in Marunji Village? 35 responses

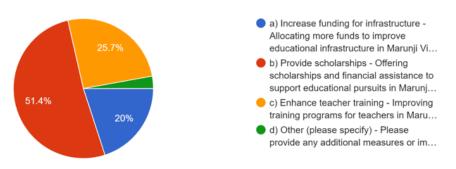


Figure 10. Question 10, 35 responses

Analysis and Interpretation

opinions on Marunji Village's educational facilities' poverty and improve their quality of life (Refer to accessibility. 37.1% said Marunji Village's educational appendix 1). facilities are "Fair." This suggests that village residents may have trouble obtaining educational resources question about formal education beyond primary and facilities. 25.7% of respondents rated Marunji school in Marunji Village. Most respondents (45.7%) Village school facilities "Poor." This shows that a said some family members had formal education large segment of the population struggles to access beyond primary school in Marunji Village. This educational resources and facilities. The lack of key indicates a positive trend towards educational resources may contribute to this view, emphasising advancement in Marunji Village. However, 28.6% of the need for improved educational infrastructure. respondents said neither they nor any of their family Fortunately, 20% of respondents ranked Marunji members had formal education beyond primary Village's educational facilities as "Good." This school in Marunji Village. This shows that many people suggests that the hamlet has enough educational haven't gone to college. Due to limited educational resources and facilities, however, they might be resources, financial constraints, or cultural and improved. 17.1% of participants ranked Marunji societal barriers become crucial. Addressing this Village's educational facilities as "Excellent." This group's educational needs is essential to ensuring suggests that a lesser but significant percentage of equal education and preventing poverty. Marunji respondents view the village's educational resources Village's post-primary education results are mixed. A and facilities as accessible and well-equipped. significant portion of respondents reported that their This good answer shows that Marunji Village's family members have had post-primary education, educational infrastructure is meeting or exceeding but a significant portion have not. Marunji Village expectations.

India's In 2022, India's child poverty rate was alarming. financial aid, and support systems can help families According to your data, nearly 13 million 10–14-year- afford higher education. Vocational and skill-based olds were poor. Poverty affected a large chunk of training programmes can also help non-traditional India's youth. Poverty limits education, healthcare, students find jobs and economic independence. nutrition, and other resources for children. Childhood Technology and education can reduce poverty, as poverty might affect their development and future shown by machine learning crop output prediction possibilities. It's promising that poverty rates dropped [Using Machine Learning... 2022]. Farmers and after 40. This drop may be due to increasing work politicians may use machine learning algorithms to experience, wealth accumulation, job prospects, analyse geography, weather, and season to choose or access to social security programmes for elderly crops, price markets, and allocate resources [Machine people. Poverty reduction in India should prioritise Learning- and Feature... 2022]. Accurate crop yield

most affected by it. Quality education, healthcare, The poll found that participants had different and social assistance can help break the cycle of

The survey found interesting responses to the must improve education accessibility, affordability, multi-generational poverty persists. and quality to address this disparity. Scholarships, vulnerable age groups, including children, who are projections help farmers plan, optimise production,

and reduce hazards, boosting income and reducing enhance skills. These programmes give students jobagricultural communities' poverty risk.

role in poverty reduction vary. 40% of participants work prospects and income. University research believed education has moderately reduced village and innovation reduce poverty. They research and poverty and improved individual well-being. solve social issues like poverty. Research helps Education appears to reduce poverty and improve politicians, NGOs, and others develop successful community socioeconomic conditions. 28.6% of poverty reduction methods. Universities can also respondents said education has slightly reduced work with local communities on community-based poverty in Marunji Village, with limited socio- research and innovative solutions for disadvantaged economic improvements. This response suggests populations. Higher education institutions reduce that while education reduces poverty, there is poverty by encouraging entrepreneurship and still room for improvement in using education to economic growth. University entrepreneurship reduce poverty more significantly. These findings programmes, incubation centres, and resources support Marunji Village's poverty reduction efforts stimulate job creation. Entrepreneurship boosts through education. It recognises education's power economic growth, employment, and underprivileged to empower, employ, and advance. The positive communities, reducing poverty (Refer to appendix responses also suggest that education can help 2). break the cycle of poverty and promote community development. However, 31.4% of respondents were shown by machine learning crop output prediction. unsure how education reduces poverty.

poverty alleviation is relevant in the context of season to choose crops, price markets, and allocate education. Agriculture provides money and jobs for resources. Accurate crop yield projections help many, especially in rural areas with greater poverty farmers plan, optimise production, and reduce rates. The discussion emphasises the importance hazards, boosting income and reducing agricultural of agriculture as a livelihood and the potential communities' poverty risk. Education helps farmers impact of agricultural education and training on use machine learning and other technologies. poverty reduction (Refer to appendix 3). A farmer Educational wanting to return to traditional farming methods, technology adoption, and decision-making can help which may not be successful in today's market, farmers use machine learning for yield prediction. underscores the need for agricultural education and Education also helps farmers navigate the market innovation. Modern, sustainable farming practises and make informed decisions that promote their that maximise productivity and profit can be learned economic well-being. through education. Farmers can increase crop yields, reduce post-harvest losses, and react to market Marunji Village students drop out provide significant changes through supporting agricultural education insights. 37.1% of respondents attributed school and training programmes. In this respect, Indian dropouts to poverty. Families' financial problems government has become more focused on setting sometimes cause students to put their education on up higher educational institutes across different hold. In Marunji Village, 34.3% of participants cited regions of India. Universities and colleges can a lack of support, particularly parental guidance, as reduce poverty. In 2021, the AISHE portal featured a factor for early school dropout. Without parental 1,113 degree-granting universities from over 55,000 participation, advice, and encouragement, students higher education institutions worldwide. These may lack desire and direction, leading to increased institutions help underprivileged people and spur dropout rates. 28.6% of respondents also cited change. Universities first provide scholarships, insufficient educational materials, textbooks, and grants, and financial aid to low-income students. learning resources as a reason for dropping out. These institutes help people escape poverty by Lack of necessary resources can slow learning, teaching them. Higher education institutions offer a reduce engagement, and limit educational options, variety of academic and vocational programmes to resulting in lower interest and dropout rates. These

ready skills. Higher education improves economic Marunji Village respondents' views on education's opportunities and reduces poverty by increasing

Technology and education can reduce poverty, as Farmers and politicians may use machine learning Agriculture's role in economic growth and algorithms to analyse geography, weather, and programmes on data analysis,

The survey results on the primary reasons

Village school dropouts. Poverty, lack of support, to obtain work and better their lives. These findings

programmes and measures to promote education and empowerment in Marunji Village. Practical skills and reduce poverty in Marunji Village is revealed by associated with local economic needs can help the survey results. Most participants (42.9%) were people get better jobs, create enterprises, and earn moderately aware of these government programmes more to improve their quality of life. Diverse training and efforts. This shows that respondents are aware solutions for different sectors and businesses are of government attempts to alleviate education and needed to maximise vocational and skill-based poverty in the community. 25.7% of respondents were training programmes. Agriculture, technology, extremely aware of these government programmes healthcare, hospitality, and other local economic and initiatives. This shows that many Marunji Village industries may be included. Collaboration with residents understand the government's efforts to government agencies, NGOs, and local industry can promote education and reduce poverty. This shows also help build demand-driven training programmes that these individuals are involved in the community, that provide job-market-relevant skills. Access to aware of the activities, and familiar with the support vocational and skill-based training programmes and resources. Respondent's awareness of Marunji for disadvantaged people, such as those without Village government programmes and efforts varied. financial resources or educational possibilities, is Some respondents are moderately acquainted, vital. Scholarships, financial aid, and outreach to while others are guite familiar with the initiatives.

31.4% of respondents also noted that one gender faces certain problems in acquiring education. This rural students with scholarships and financial aid. solution acknowledges gender-related impediments This suggests removing financial barriers and to schooling in Marunji Village. It is crucial to guaranteeing equal education for all, especially those develop gender equality strategies to encourage from low-income families. Promote community boys and girls to access and pursue education involvement in education, foster partnerships without discrimination. This can involve supporting with local industries for vocational training and girls' education, resolving cultural and societal employment opportunities, expand access to digital conventions that prevent females from attending learning resources and implement comprehensive school, and providing support structures for all educational policies that address Marunji Village's genders. Creating a secure and inclusive learning needs and challenges. environment for all kids, regardless of gender, is equally important. This can include gender-sensitive teaching, anti-discrimination regulations, and a how education reduces poverty. Marunji Village, supportive education ecosystem that promotes and near the Rajiv Gandhi Infotech Park and Hinjawadi respects gender equality. 34.3% of respondents said Industries, faces socio-economic issues. Population, educational interventions haven't improved Marunji connectivity, and neighbouring villages affected the Village's socioeconomic conditions. This suggests village's social and economic landscape, according that educational measures may not have directly to the study. The Marunji Village survey revealed improved the community's socioeconomic status. how education reduces poverty. Community Educational interventions in Marunji Village must be members' survey responses addressed issues such monitored and evaluated to determine their efficacy as educational facility accessibility, government and opportunities for improvement. Stakeholders programme can improve educational interventions to reduce inequities in education. The study emphasises poverty and develop communities by addressing context-specific any socio-economic barriers.

training programmes help people escape poverty. poverty, economic empowerment, and sustainable This shows the importance of such programmes in development by addressing identified obstacles and

findings demonstrate the complex causes of Marunji giving people the skills and knowledge they need and insufficient resources hinder school completion. emphasise the relevance of vocational and skill-The respondents' awareness of government based training programmes for poverty reduction marginalised populations can achieve this.

Most participants (51.4%) suggested providing

Conclusion

In conclusion, Marunji Village in Pune shows awareness, and gender-related techniques and community involvement in educational intervention design 42.9% believed vocational and skill-based and implementation. Marunji Village can reduce

using education. Marunji Village shows that education and holistic development by prioritising education, may overcome the cycle of poverty. Marunji Village empowering individuals, and creating an inclusive can boost socioe conomic advancement, livelihoods, and friendly learning environment.

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Information about the authors:

Dr. **Akanksha Taunk** — Director, International Institute of Management Studies, Pune, India ((<u>Sr.No</u>. 54(1+2/1) Nere Dattawadi, Near Hinjewadi IT Park. Pune, 411033); Dr. **Samrat Ray** — Dean, International Institute of Management Studies, Pune, India; Dr. **Elena V. Korchagina** — Doctor of Economics, Associate Professor, Professor of the Higher School of Service and Trade (Institute of Industrial Management, Economics and Trade), Peter the Great St. Petersburg Polytechnic University, 29 Politekhnicheskaya st., St. Petersburg, 195251, Russia. ResearcherID: C-9196-2016; ScopusID: 57205427575; SPIN code: 8556-2270; Dr. **Sumitra Roy** — Assistant Professor, ISMS Group of Institutions, Pune, India (<u>S.No</u> 9/1/1, Wadgaon Budruk, Sinhgad Campus Ext, Ambegaon, Pune, Maharashtra, India, 411041).

Информация об авторах:

Доктор **Таунк Аканкша** — директор, Международный институт управленческих исследований, Пуна, Индия 411033; доктор **Рэй Самрат** — декан, Международный институт управленческих исследований, Пуна, Индия 411033; **Корчагина Елена Викторовна** — доктор экономических наук, доцент, профессор Высшей школы сервиса и торговли (Институт промышленного менеджмента, экономики и торговли), Санкт-Петербургский политехнический университет Петра Великого, ул. Политехническая, д. 29, Санкт-Петербург, 195251, Россия. ResearcherlD: C-9196-2016; ScopusID: 57205427575; SPIN-код: 8556-2270; доктор **Рой Сумитра** — доцент, Международная школа управленческих исследований, Пуна, Индия 411041.

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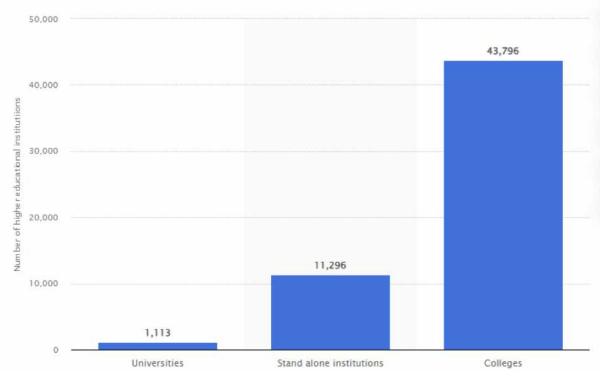
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Applications to the article "Role of Education on Poverty Reduction: The Case Study of Marunji Village in Pune"

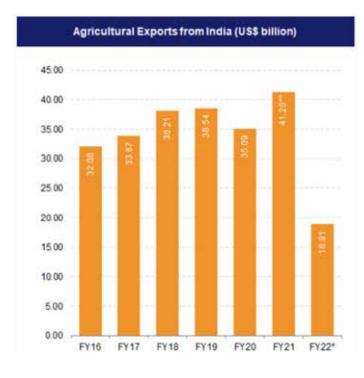
Appendix 1: India's estimated 2022 poverty rate, broken down by age group

In 2022, more than 13 million children aged 10–14 were poor, and Marunji Village in Pune discusses education's role in poverty eradication. This statistic emphasises the necessity to address poverty early and the power of education to break the cycle. Marunji Village may reduce poverty by promoting high enrolment and quality education. Education helps people escape poverty. We can evaluate Marunji Village educational programmes by analysing enrolment, attendance, and literacy data. Education can help people get better jobs and earn more. This improves living circumstances and reduces poverty. Education also affects agricultural growth, which is crucial in rural places like Marunji Village where agriculture is a major source of income. Farmer education, access to agricultural resources, training, and market information can boost the agricultural sector. This expansion can improve farming households' income and living conditions, reducing village poverty. It is noteworthy that Marunji Village's poverty rate falls after 40 years old. This shows that variables other than education may reduce later-life poverty. Work experience, social security, and sector-specific career prospects may be factors. However, education is essential to combating poverty at all ages, including childhood and adolescence.

Appendix 2: Number and type of educational institutes in India in 2021

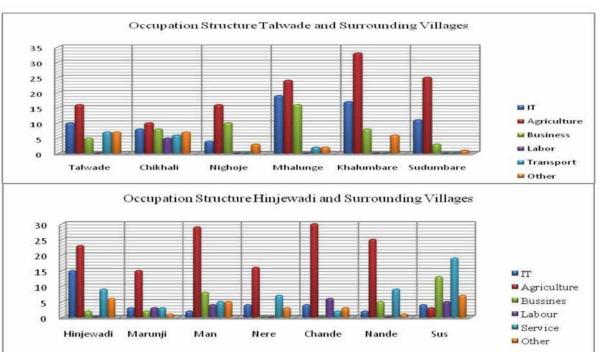


Education's impact in poverty reduction in Marunji Village in Pune can be enhanced by studying India's higher education landscape. Out of nearly 55,000 higher education institutions, the AISHE portal identified 1,113 universities in 2021. Colleges are affiliated or recognised by these universities, which grant degrees. However, stand-alone schools generally provide diplomas. Marunji Village inhabitants may benefit from nearby universities and colleges. Higher education, especially universities, helps people gain specialised skills and increase their employability and income. Affiliated colleges help remote students get higher education. They offer undergraduate and postgraduate education in numerous fields through universities. Local students can get higher education without travelling far thanks to linked colleges in Marunji Village and nearby. This accessibility can close the education gap and give students the skills they need to find better jobs and escape poverty.



Appendix 3: Agricultural exports from India

Education, agriculture, and India's agricultural export business are major factors in Marunji Village, Pune's poverty reduction. India is the world's largest agricultural exporter, and its agricultural export growth affects poverty reduction. India's agricultural exports have grown rapidly. Agricultural exports rose to US\$ 19.7 billion from US\$ 17.5 billion in April-December 2022. 2021-22 farm exports totaled US\$ 50.2 billion, up 20% from US\$ 41.3 billion in 2020-21. These figures show India's agriculture sector's growth. Education improves agricultural practises, production, and market potential for agricultural exports. The government may help farmers adopt modern farming methods, access resources, and comprehend market dynamics through fostering education and knowledge sharing. This can enable farmers in Marunji Village and other agricultural areas to diversify their crops, increase their value, and export.



Appendix 4: Occupation structure in Marunji Village

In various villages, including Marunji, a large percentage of the population works in agriculture, according to a sample study. Agriculture supports the local economy with 40% to 60% of workers. However, urbanisation and infrastructure development have reduced the number of farmers in Sus. The village's occupation structure may alter due to urbanisation, new roads like the Pashan-Sus road, and the IT Park. These developments may have reduced agricultural employment. The IT Park has little impact on employment in nearby areas, notably Marunji. Rural areas lack trained workers and technological education. Thus, most IT workers in these communities work as guards, drivers, gardeners, sweepers, and similar jobs. This shows how education can help Marunji village overcome its problems. Villagers can learn IT and other non-agricultural skills through education and training. Education can help villages join the burgeoning industrial and IT industries by filling the skilled labour gap. Education can boost Marunji's agriculture. Villagers can learn modern farming methods, sustainable practises, and resource management through agricultural education and training. This information, paired with their farming expertise, can boost village output and results.