



Sustainable Livelihood through Skill Development among Rural Tribal Youths: A Review of Literature

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Author's contribution

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ABSTRACT

Aims: Empowering marginalized communities, especially indigenous youth, is essential for attaining inclusive growth and socioeconomic equity in the face of growing urbanization and economic inequities. The current study's objective is to review the development of literatures relating to sustainable livelihood through skill development among rural tribal youths. Accordingly, the research gap will be found for further research and strengthen the literature as well as to contribute to the creation of knowledge for betterment of society in general and academics in particulars. In order to promote sustainable livelihoods among remote tribal adolescent populations, this literature review critically evaluates the significance of skill development.

Sample: The present study considers 47 literatures relating to the research topic both from national and international referred journal to understand the developments in the sustainable livelihood for tribal population across the globe.

Study Design: In order to evaluate the efficacy of skill development programs in expanding livelihood options for this vulnerable population, the study synthesizes a wide range of scholarly publications, reports, and case studies. The study is based on analytical review of literature

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considering the methods and models adopted for research, size of sample and outcomes of individual research papers are analysed and accordingly the limitations/ the gaps for research are considered for future research.

Conclusion: It emphasizes the critical part that skill development programs play in overcoming these obstacles and empowering young people to find gainful work or launch their own businesses in their communities.

Keywords: Sustainability; skill development; tribal youth; livelihood.

1. INTRODUCTION

“Human capital plays an important role not only in achieving sustainable development but also in an overall economic growth of a country. The term 'human capital' refers to people's possession of knowledge and skills that enable them to add or create value in an economic system”. [23] Investing in human capital through education, training, and healthcare can lead to a more productive and innovative workforce; which in turn, can lead to increased economic output and higher living standards for the population. Additionally, a well-educated and skilled workforce can attract foreign investment and promote economic competitiveness on a global scale. Furthermore, human capital development can also contribute to sustainable development by promoting social inclusion and reducing inequality. By providing equal access to education and training opportunities, countries can ensure that all members of society have the chance to contribute to and benefit from economic growth. In conclusion, human capital is a critical driver of sustainable development and economic growth. By investing in the knowledge and skills of their population, countries can create a more prosperous and equitable society for the future.

Skills development (SD) has been increasingly popular in emerging economies in the twenty-first century. Democratic nations like India want to establish a knowledge economy that places a strong focus on the industry and service sectors' sustainable growth. In addition to guaranteeing an inclusive growth trajectory, India is keen to implement proactive measures for the socio-economic empowerment of its people. Sustainable growth requires a pool of human skills to be nurtured and developed. The development of adequate and effective human capital has become essential to seizing global opportunities. When workplace learning and SD are fostered, previously marginalized

communities' socioeconomic empowerment is increased.

The term "development" refers to the general rise in standard of living. Development in tribal areas has, nevertheless, been difficult since the dawn of time. According to the anthropological school of thought, any development for tribal groups should follow in their footsteps and that initiatives carried out in tribal areas should have a "tribal touch" or "tribal bias." But the struggle against exclusion and assimilation has had an impact on native groups, making it difficult to carry out programmes for their development [8],[50],[51].

Aschenbrener et al. [26], took the Native American youth at a tribal school in South Dakota Native American youth at a tribal school in South Dakota and used the mixed methods design of this case study to allow for a comprehensive understanding of the impact of the nontraditional-style mentorship intervention model on at-risk tribal youth and to highlight the importance of culturally-sensitive and theory-driven approaches in addressing the unique needs of oppressed groups. The findings not only justified the need for the intervention but also supported the positive impact it had on the educational perspectives of the Native American youths. By focusing on the strengths and needs of the tribal school, a partnership between a tribal school and two universities was formed to establish the non-traditional mentorship program. This collaborative approach ensured that the intervention was tailored to the specific context and culture of the tribal school, ultimately benefiting the school's strategic goals.

Similar to this, some of the earlier research projects carried out by other researchers that are pertinent to the current study offer a solid foundation for future research efforts in the designated field of study. As a result, if done carefully, a thorough evaluation of these studies can yield critical analysis and insights that not

only give the required context, theory, and methodology for the current study, but also serve as a guide throughout the entire inquiry for a sustainable development. [9]. In order to accomplish this, the researcher examined a variety of educational institutions' websites as well as the websites of national and international organizations. Offline sources included books, academic journals, articles, research projects, Dissertation Abstract International, surveys of education, and other materials.

Skill development is essential for increasing productivity, employability, earning potential, and work opportunities. It can create a strong connection between the labour force and employment. It has evolved into a significant and essential tool for sustainable economic development in the contemporary eco system. In terms of Jharkhand's economy, skill development initiative [17], [28] is more crucial for the socioeconomic growth of the entire society, particularly the state's Naxal-affected areas. According to the World Development Report (2013), around 200 million people worldwide—roughly 75 million people under the age of 25—are either unemployed and looking for work or are working but are unable to find employment. The research also emphasises that, in the next 15 years, there will be a need for over 600 million jobs to accommodate the growing working-age population, primarily in developing nations in Asia and Sub-Saharan Africa. [25], [27] [29]

While providing for a comprehensive overview of the development and impact of tribal colleges and universities (TCUs) within the United States; [69] focus on the historical context, institutional portraits, curricular functions, and the specific case study of Native teacher preparation programs. This helped offer a deep understanding of the intersection between culture, community, and education within the TCU framework and the potential for TCUs to contribute to renewed vitality across various aspects of life for American Indian people.

Lopes et al. [31] outlined the current context of Aboriginal youth development programs in Central Australia, highlighting the issues of volatile substance misuse, crime rates, health, emotional wellbeing, cultural renewal, educational outcomes, and socialization. The authors emphasized the lack of research exploring the effectiveness of youth development programs for Aboriginal peoples in Central Australia, particularly in remote contexts. They

note that much of the knowledge from successful work in this area is dispersed and often unpublished. Their work also suggested a need for more comprehensive research and documentation of successful practices in addressing the multifaceted challenges faced by Aboriginal youth in Central Australia. Identifying and sharing the key elements of successful youth programs could help in developing more effective strategies and interventions tailored to the specific needs of this community.

Guilfoyle et al. [18] discussed a collaborative program that emphasized the role of archaeology in heritage education and management, particularly within the context of cultural leadership. The program employed a reflexive and adaptive method of delivery, utilizing on-ground conservation projects to empower Alaskan Native youth and produce tangible social outcomes. The case study from the Kenai Peninsula of Alaska illustrated how action-oriented education, through conservation efforts, was vital for the development of a more socially relevant archaeology. Additionally, the program ensured that the archaeological process is connected with the transmission of Indigenous Knowledge Systems and the integration of local cultural structures for practical landscape management. This approach underscored the importance of incorporating local cultural knowledge and engaging Indigenous communities in the preservation and management of heritage sites. It also highlighted the value of hands-on, action-oriented education in fostering a deeper understanding of archaeology and its relevance to contemporary social and cultural contexts.

2. OBJECTIVE OF THE REVIEW

The goal of this traditional literature review is to provide a broad understanding of the proposed topic and to identify gaps or areas for further research. The aim is hence, to inform the development of new research questions or to provide context for a specific research study. Thus, this traditional review has also helped map out the various gaps present in the current context of 'Sustainable Development through Skill Development in Rural Youth'.

3. METHODOLOGY

A literature review is a critical and comprehensive examination of existing scholarly

literature on a particular topic. It involves researching, reading, analysing, evaluating, and summarizing scholarly literature, typically found in journals and articles. The purpose of a literature review is to help the author gain a deep understanding of the history and nature of their topic, identify research gaps and problems, and synthesize existing knowledge to inform their own research or project. The results of a literature review can take the form of an entire report or article, or it may be a section within a larger work such as a thesis, dissertation, or grant proposal. By reviewing and synthesizing existing literature, the aim is to gain insights into the current state of knowledge, identify key debates and controversies, and develop a framework for their own research or project. Additionally, this literature review is to help situate the author's work within the broader scholarly conversation and provide a foundation for further inquiry and analysis.

3.1 Design of the Study

This review is typically narrative in nature, that is, it is traditional literature review. It is a comprehensive summary and analysis of existing literature on a particular topic. The study involves identifying, evaluating, and synthesizing relevant research findings, theories, and concepts from a range of sources such as books, scholarly articles, and other publications. Thus, this typically does not involve statistical analysis or meta-analysis but instead focuses on providing a coherent narrative that highlights the key ideas and debates within the proposed field of the study.

3.2 Sample of the Study

This study encompasses a wide range research papers collected from various geographical boundaries. As the focus of the paper is to map out the existing gaps for further research in the Indian context, hence the papers are mostly from the authors who researched the phenomena in India.

4. LITERATURE REVIEW

4.1 Framework for Sustainable Livelihoods

De La Harpe et al., Arum and Shavit [70],[71] Investigate the obstacles that prevent young

individuals from searching for non-existent jobs, as well as the urgent need to orient people in these affected economies, particularly Nigerians, toward self-employment and entrepreneurship through vocational and entrepreneurial training programmes as a short-term intervention mechanism. This study discovered that the establishment of micro finance banks throughout the federation is to strengthen the preparedness of the EDP creator to serve the aims of the micro-lenders, into whose group the youngsters fall, [68] provides a summary of the available development indicators and places them in relation to the environmental, economic, and social aspects of sustainable development, [64] examines the condition of education, skill development, and employment for Indian youth, as well as the issues confronting India's skills development system. According to the findings, in order to support industrial growth and achieve sustainable growth, the government should expand its investment in youth education and training. In particular, for India to progress further into a knowledge-based economy and advance up the value chain, the quality of education at all levels must be improved, [63] sought to ascertain the perspectives of three types of educators: EA (education administrators), GC (guidance counsellors), and CT (classroom teachers) on the effect of guidance and counselling services on the development of entrepreneurship among secondary school students. According to the findings, counselling and counselling services will improve students' skills for entrepreneurship growth, which will raise productivity, sustainable livelihood, and national development. Suggestions on government, GC, and policymakers' involvement in educational matters were made in order to reap the full benefits of the school guidance programme. According to, [15] tribal communities in India, that are, basically 8.6% of the total population, have an enormous potential with their access to many indigenous knowledge that if recognised in adopted properly could provide astounding solutions to the improvement of agricultural productivity soil quality water scarcity etc. and many other social challenges as well. Thus, it does not come as a surprise when, with their study they came to a conclusion that the national indicators of SDG 1, 2, 3, and 4 could be positively affected with the improvement in the income, women and child health and education of these communities. [3] took an interest in the study of particularly ecologically sensitive area in the sub-Himalayan region, that is, Rajbanshi, which is a rural based

ethnolinguistic community of the Dooar's region. The author proposed the study with an aim to recognise the factors and patterns in the transition of the livelihood option of the people in this region overtime. [30] The study assessed the reliability of the current livelihood strategies from a sustainable livelihood perspective. Hence, with the help of a mixed approach of qualitative as well as quantitative measures, the study takes a multidisciplinary approach and found that; the intermingling of new processes, new strategies, mechanisation, market-oriented crop selection, the diversification, adoption of nonfarm activities, etc though have contributed quite positively to the sustainability of the livelihood of the people in this region; have also caused many of the traditional livelihood practises to undergo a change overtime. Hence, it was concluded that the livelihood of this community did experience profound transition due to several dynamic external factors that affected the locality.

4.2 The function of Skill Development

Sindhi [62] discusses training as well as skills development of tribal women of Gujarat, India. Women's training and skill development would mostly focus on farm forestry, sewing, cooking, producing papad, and other related tasks. The article highlights the experiences of marginalized women who have been able to use their education and training to successfully empower themselves. It examines skill-based and vocational training provided to women in various tribal areas in Gujarat. [39] offers a general insight of the Odisha various tribes scenario and analysing their effectiveness in regard of certain vital Development Index, the paper has come up with crucial issues in Tribal Development before using them as a reference to draw an Inclusive Development Agenda for the society's sustainable development, [61] focuses on identifying numerous issues related to rural entrepreneurship. There should be an effective regulated market, and the government should also assist in this regard. Grading and uniformity should be encouraged, and promotional efforts should be increased. The government should provide full assistance to non-governmental organisations, [53],[54] examine the challenges and concerns surrounding Indian rural lending. It also shows some of the tactics used by the Central bank of India to boost rural lending facilities in India. According to the findings, rural credits can provide a sustainable living for millions of rural Indians who do not have a

source of income. India receives rural credit from a number of organizations, including RRBs, Microfinance Institutions, NABARD, and others. The bulk of the poor will be able to access rural loans thanks to policies and processes that the central bank of India is creating and implementing. [5] aim to develop and innovate, as well as suggest the first global handicraft index to provide a better grasp of the development of handicraft products in a sustainable manner with efficient utilisation of natural and rural industries, which would in turn conserve the handmade tradition as well as the skill of handicraft artisan's entrepreneurship of the different countries. Development of such an index would also help each country around the world in having a better handle of the competition within the sector, understand its development capacity as well as make sure that good policies are framed to better the socio-economic welfare of artisans, woman entrepreneurs and the overall global development through the revival of handicraft industry in the world; that is facing a huge problem in competition with machine made products. The aim in this scenario was to conserve the local talent, the heritage product, the tradition, as well as the ancient skill and monument to pave a way towards sustainable and eco-friendly leaving pattern of the people in the world through the handicraft products.

4.3 Obstacles and Challenges

Patel and Chavda [54] Obstacles and Challenges makes an effort to pinpoint the problems and challenges that rural entrepreneurship could encounter. It also emphasises the significant issues that rural business owners confront, particularly in the areas of product marketing, financial amenities, and other basic necessities like access to energy, water, and transportation, infrastructure, necessary energy, etc. [48] India currently has a severe skills shortage in comparison to the enormous demand created by all economic sectors, including infrastructure, industry, and construction on the one hand, and agricultural and related industries on the other. A skills-development-based approach is necessary as a key strategy to address emerging requirements and issues in rural areas. reference hedge. [60] Young farmers frequently possess higher levels of creativity, imagination, initiative, and entrepreneurship than older folks, and extension services should successfully utilize these traits to give young people in agriculture better prospects for a living. There is still very

little funding for youth in agriculture since there are so few youth-focused initiatives and, hence, few illustrative instances of impact ref hedge, [49] made through the development of a Sustainable Livelihood Index, all aspects of rural poor households' livelihoods can be measured completely (SLI). The Sustainable Livelihood Approach (SLA) framework was used to create this index.. Furthermore, it may assist local governments in broadening its scope in a controlled manner in order to assure the sustainability of a certain initiative, [1] in their study aim to estimate the vulnerability to poverty and the ability of livelihood programmes in reducing it. Based on the analysis of primary data collected from the households in the tribal region of eastern India, the authors found the major factors responsible for increasing chronic property as well as the cause of transient poverty to be climate shocks, chronic illness as well as the sale of assets. Through this study, the authors also successfully assessed that, though the livelihood programme proposed by them produced an average positive impact in reducing vulnerability; but there is still a huge heterogeneity present among the beneficiaries, as many of them geographically lag behind. Hence, the study proposed by these authors suggest the strengthening of different livelihood programmes to focus on various disadvantaged and vulnerable communities, [2] focus on the sustainable livelihood and survival of the mountain communities whose ecosystem has a high dependence on the regional ecosystems. These mountain communities are affected by the climate induced changes that have further affected the hydrological cycle, the nutritional cycle as well as the general mountain ecosystem. With the 'development' interventions, climate change at high altitudes often manifests in retreating glaciers, drying-up of the springs and warm winters, that makes preservation of seeds difficult for them and makes livestock more vulnerable as well. As a result of the lower altitudes, there is also an increased incidence of pest outbreak as well as diseases among crops and livestock. This further induces damage and loss of property in life due to landslips in the different agro-climatic zones. This has forced these modern communities to come up with their own coping mechanisms that should further be incorporated into climate change adaptation policies and programmes by the Indian government. According to [7] while investigating the lives of tribal farmers in tropical moist deciduous forest in Tangail, Bangladesh and the

role that composition and preferences of trees and crops planted in agroforestry systems had in it; the authors, through their interviews, discovered several interesting facts. [29] Even though the agroforestry system gave bountiful benefits with better access to food, timber, fodder, fuelwood etc. to the tribal communities the farmers still face several constraints due to lack of social capital including bureaucracy and a lack of alternative market facilities, [14] turned their attention to the study of small-scale mud crab fishery management in Karnataka. They used a sustainable livelihood approach analytical framework to assess the assets that the local communities rely on, the risks attached to them and the organisation and institutions that affect the daily life of the communities and the strategy they undertake. That is not a secret that the industrial fishing fleets decreased fish stocks, and their productivity have posed a major problem to fishers worldwide and are also proving to be a potential barrier to the small-scale crab farmers. Hence, this farming, though recognised as a good source of income; is pretty unsteady and unpredictable due to the fishery catches, as well as the lack of land and financial resources.

4.4 Governmental Programs and Policies

Singaravelu [48] and Davies [59] recommended promoting home and cottage businesses like carpentry and basket making because these resources are widely accessible in rural areas. According to [57], [58], self-employment through microfinance is another potential remedy that may be used to combat young unemployment in addition to Agro-based entrepreneurship. "In the past, most rural youth were content with seasonal plantation jobs; specialized skill and education were not needed," according to [47]; but, "the present showed the need for institutional skill development of unemployed rural youth." Moreover, it was suggested that skill development institutions should use the PPP model. According to [11] around 10.45 crore indigenous population that resides in India are riddled with economic inequality and social stigma. The Indian tribal population still has a lot of developmental issues due to the lack of proper economic sustenance. Amid this, the announcement of lockdown as well as the industrial developmental measures approved during this time aggravated many issues for them. Both the tribal men and women, as well as the youth, along with facing inequality in terms of

educational attainment and employment opportunities in their everyday lives faced further issues like lack of nutritional facilities inadequate health infrastructure restricted movement to forest areas and reliance on herbal medicines during the Covid-19 pandemic. The authors further pointed out that, unlike the initiatives taken by Australia, New Zealand, etc the Indian government has taken comparatively less incentives. Some initiatives, rather than mitigate the crisis further affected the community ownership of forest produce that had sustained them economically and nutritionally for a long time. During this pandemic and their time of need, it was with the help of SHGs as well as cooperative efforts at the village level that the tribal youth could even conceive to handle the precariousness of the situation and sustain their livelihood [19], [20], [21], [22], [24].

4.5 Participation from the Community and Sustainability

Schrettle [55],[56] strives to quantify the amount to which mining affects economic, sociocultural, health, political, and environmental circumstances. While these indicators are debated on both theoretical and methodological grounds, we suggest in this research that the sustainable livelihoods (SL) paradigm may provide a more robust approach to comprehending the interaction between mining and development. The paper examines the evolution of this paradigm and considers how it can fit into the existing 'resource studies' literature before providing conceptual and methodological options for understanding the connections between mining and development. [46] establish a framework for defining the training approaches required to build micro-entrepreneurial abilities. Several training techniques, each with merits and weaknesses, have been presented that could be used to improve micro-entrepreneurial skills. The findings offered appropriate parameters for how successful training techniques may be devised to support the learning of these skillsets, that will not only generate employment but also provide a sustainable existence. [43] attempts to create a framework for defining the training approaches required to build micro-entrepreneurial abilities. Several training approaches, each with advantages and limitations, have been presented that could be utilised to improve microentrepreneurial skills. It also provides

appropriate guidelines for how effective training techniques could be devised to aid the learning of these entrepreneurial skills, which will not only provide employment but also provide a sustainable existence [45] primarily examine and analyse the policies of 2003 and 2014 in order to gain a better knowledge of them. If youth are developed, the nation's economy can leap ahead of the rest of the globe. The analysis expected that India will succeed in this endeavour because a lot of groundwork has been done in the formulation of both policies; what needs to be seen is implementation and the willingness of the governments to move forward. [44] attempted to assess two issues: tribal women's socioeconomic conditions and the effect of welfare schemes funded by banks on tribal women's income generation: [40] According to this study, incomes for tribal women grow dramatically once they participate in welfare programmes. However, tribal women are required to raise knowledge about the many government initiatives currently in circulation. Few tribal women were positively touched by established income generating projects, and they reported happiness because there was significant empowerment in their livelihoods. According to [10] the study of intersection between sustainable livelihood and artisanal entrepreneurship takes a different importance in a country like India which is primarily agricultural and generates most of its employment and entrepreneurial opportunities from it. [41,42],[66,67] With the aim to study the generation of livelihood process through the various entrepreneurship opportunities available in the rural areas of Orissa available to artisans through SHGs, the authors arrived at the conclusion that the SHGs and producer groups create and add great value to the capability building, income generation, knowledge creation and creating a more sustainable system that could further enhance the overall community development and social well-being in a tribal-rural setup. [13],[65] The artisans mostly were found to have a very positive approach towards growth and prosperity But it is important to achieve a scale for measuring the satisfaction index of the artisans that could further help to make a comparative study of their socio economic conditions before and after the development of the producer group, as well as the development of various policies for the betterment of artisan entrepreneurs. [16] with the aim to explore the dynamics of small entrepreneurship and its contribution to the

elevation of poverty and sustainable livelihood, studied a large number of people directly and indirectly engaged with the street vendor profession and contributing to the economy of Bangladesh. They found that street entrepreneurship, though very small, made a great contribution to the reduction of poverty and giving a better livelihood to the street vendors in Bangladesh. Even though they make such a great contribution, it is also true that the city dwellers do face a lack of formalisation, weak management system, more street garbage as well as more crowded footpath due to these street vendors that can only be elevated by a proper public management system. [6] dived into the Duanu Tribe community with a qualitative research approach to identify the social cultural dimensions of the local tribe wisdom. The approach aims to understand the socio cultural complexity as well as how being one of the oldest villages; they have continued to adhere to the ancestral values, preserve the nature as well as prevent the coastal areas from being damaged. [72] In the course of their study, the authors found that the tribe's local wisdom is very closely related to marine life and coastal waters because of their proximity to the coastal areas and being largely dependent on the coastal resources. This could also be the reason why they are mostly fishermen or involved in fishery management entrepreneurship of fish and shrimp. [43] Ghosh The most interesting fact is that the Duanu tribe with the help of traditional ecological knowledge, namely Menongkah, Pembelat, Menumbur, wind direction, season, presence of animals, and shell holes, shrimp or snakes have continued to maintain a sustainable, livelihood for themselves.

4.6 Initiatives for Developing Skills

In their study, [52] focuses on rural tribes in India while examining the idea of sustainable livelihood through skill development as well as its conceptual and theoretical understanding. The problems that occur in the agricultural social system ought to have answers for individuals. Additionally, it demonstrates a rise in the HDI and an improvement in people's living conditions. [37] provides the results of a training programme on entrepreneurship skill development for youngsters who did not have access to higher education. Their entrepreneurial mindset and skills have greatly improved as a result of the training. This paper advocates for Community Based Organisations to collaborate with

government procedures and schemes to provide a forum for youth at the grass roots level of society. It is also critical to provide young people with the resources, information, and decision-making power they need to pursue entrepreneurship. According to [34], soft skills including speaking, writing, and problem-solving in the English language are essential for young people to find employment-related tasks. The bulk of workers in rural areas work in the agricultural sector. While young people are searching for jobs, the industry is struggling to find qualified labour. Cultural, political, social, and economic aspects of women's empowerment were noted by [36]. To reduce illiteracy, educational facilities in tribal regions must be upgraded. Given that tribal children primarily attend government schools, it becomes sense to support them in this regard. Additionally, school dropouts should be deterred by offering incentives and igniting a passion for learning. [35] aims to shed insight on the assessment of poverty alleviation programmes and the chances for tribals in Sundarbans reaching sustainable livelihood goals. As a result, it is critically recognised that planning for the implementation of any government scheme must be area specific, community specific, as well as with their likings and dislikes of particular schemes, as well as the magnitude of dedication of the authority. [38] In any given society, the capacity of its members is essential for enabling social change, economic expansion, and participation in the process of development. Consequently, in order to start and complete the process of change and to adapt the societal structure and livelihood profiles, a country moving toward development needs institutions, entrepreneurship, and skill development. [29] tries to look into the connection between sustainable livelihoods and assets for a living. This study tries to look into the connection between sustainable livelihoods and assets for a living. A total of questionnaires distributed were chosen for this study from rural Kedah and Kelantan using a quantitative survey with stratified sampling approach. The results show that attaining sustainable lifestyles is significantly influenced by physical assets, natural assets, and social assets [32] identify the barriers that young people encounter in achieving the skill India development agenda on all fronts. The study demonstrates that different schemes assist the kids in developing the quality of skills, up skilling and reskilling in various sectors through training programmes, which increases the

youth's personality development and overall growth. It assists the youth in obtaining jobs in various areas, and it is only via employment generations and social security that the youth can assume responsibility. [32] investigated the youth's response to the "Skill India" training program. The study brought attention to the challenges young people experience in developing the skills necessary for employment. [33] [determine the effect of life skills training on the self-esteem of tribal youths. The experimental control group design was pre-post. 140 young people (aged 15 to 24) were chosen at random from the Govt. Sr. Sec. School in Lakdwas, Udaipur district, and divided into two groups (70 students each), namely the experimental group and the control group. Youths in the experimental group received life skills training. For data analysis, covariance analysis was used. The findings revealed that life skills training had a favourable influence on indigenous teenagers' self-esteem. According to [4] the key to sustainable productivity and making the agricultural extension system in India more effective and efficient would be inspiring and organising the rural and tribal people towards the same goal. The socio-economic survey with 500 tribal-rural households conducted with the objective to a certain suitable extension approaches for sustainable productivity of tribal and rural households; discovered a lot of room to suggest creative approaches for this population to bring a desirable change in the way they lead their lives. There are also several innovative extension strategies that could be proposed with the most recent cutting-edge extension approaches that could improve the long-term productivity and security of livelihood of the rural and tribal population in India. [12] recognised the transformative potential of ICT in higher education and the support they could extend to increasing the higher educational needs of the tribal communities to achieve sustainable development goals (SDGs). They used exploratory and descriptive techniques to assess the challenges in disseminating higher education to tribal community learners and the strategy queues of information and communication technology in solving the problems that come with the open and distance learning system In Madhya Pradesh, which is one of the most tribal dominated states of India. Thus, the authors discovered that, strategically speaking, in developing countries such as India ICT Could be of immense help to ODL in reaching the tribal learners through a learner centric approach to

increase the capacity, quality and cost effectiveness of education system and surpassing the financial and geographical constraints as well. The authors also revealed that the dissemination of higher education in tribal areas could still be a challenging task due to the socio-economic conditions and the ethnocultural settings, along with the numerous infrastructural and access related issues. Here is when ICT and ODL could save the day.

5. GAP AND RESEARCH DIRECTION

Insightful information has been gained from the study of tribal adolescents in Keonjhar District, Odisha. This analysis also highlights significant gaps in the body of knowledge that need to be addressed further. Future study that fills up these gaps will help us better understand this population and improve the efficacy of skill development programs for them.

5.1 Assessment of the Longitudinal Impact of Skill Development Programs

Although numerous studies have looked at the impact of skill development programs in the short term, longitudinal studies that follow the impacts over time are noticeably lacking. Longitudinal research would shed light on the resilience of skill acquisition, the ability of tribal youngsters to adjust to shifting economic environments, and the long-term changes in their patterns of subsistence.

5.2 Socio-Cultural Dynamics

The socio-cultural environment has a huge impact on how tribal youths adopt new skills. Future studies should explore the complex interplay between the development of contemporary skills, cultural norms, and traditional knowledge. Designing programs that are culturally sensitive requires an understanding of how cultural values affect decision-making, entrepreneurship, and skill acquisition.

5.3 Qualitative Investigation

Although quantitative studies provide useful statistical information, qualitative research approaches are required to fully understand the complex experiences and viewpoints of

indigenous kids. On the psychological, social, and emotional aspects of skill development, in-depth interviews, focus groups, and ethnographic studies can provide light, providing a comprehensive picture of its influence.

5.4 Gender Dynamics

Disparities in skill development and livelihood outcomes between men and women are frequently ignored. An important research direction is to examine how skill development programs might reduce gender disparities, empower young tribal women, and increase their agency within their communities. Designing gender-responsive interventions and understanding the challenges experienced by female participants are essential.

5.5 Market Linkages and Value Chains

Successful market integration is essential for skill development to be effective. The goal of research should be to locate and help indigenous kids access markets, create value chains, and participate in sustainable economic activities. It is crucial to comprehend market needs and create methods to fill the gap between skill sets and demand.

5.6 Indigenous business

In tribal areas, indigenous business has a lot of promise. A promising study area focuses on how traditional knowledge can be used to build sustainable businesses and goods with added value. This research has the potential to promote economic expansion while safeguarding cultural heritage.

5.7 Multi-Stakeholder Partnerships

Partnerships between governmental and non-governmental organizations, businesses, schools, and other groups are essential to the success of skill development programs. Research should investigate successful multi-stakeholder partnership models, evaluating how they affect resource mobilization, innovation, and program sustainability.

6. CONCLUSION

The outlined gaps in the literature indicate the need for further research that is holistic,

contextually sensitive, and focused on long-term impact. By addressing these gaps, future research can contribute to more effective policy formulation, program design, and the overall well-being of tribal youths in the region. A specific group of people who are an integral part of the cosmos constitute a tribe. They ought to be encouraged to integrate into mainstream society on all fronts—cultural, social, and economic. Without exception, integral development is crucial for native groups. To keep the indigenous people sustainable, skill development initiatives must be put in place. The goal of this study is to gather some knowledge that will help the community grow in numerous ways. According to the report, the tribal community's economic situation has improved as a result of the skill development training, with increases in working hours, income, and employment shifting. Proper storage facilities should be provided to the farmers in order to prevent distress selling and earning better remunerative prices for their produce. A proper household level plan should be promoted for vegetable farming. Various programmes which have been recently launched for the promotion of self-employment and skill development like 'stand up India' and Mudra schemes should be provided maximum coverage in the state in order to cover the young population of the region and specifically in the rural remote areas of the state. Various training and skill development centres should be established and certified master trainers should be provided to achieve the targets of rural sustainable development on Odisha. Public Private Partnership should be promoted and provided enough opportunities to build a link and enhance livelihood benefits to the rural poor in the state. Education policy of the state government should be modified keeping in mind the problem of existing skill gap in Keonjhar district of Odisha, and foreign direct investment (FDI) in education should be promoted.

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COMPETING INTERESTS

Author has declared that no competing interests exist.

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