

**DR. BABASAHEB AMBEDKAR'S THOUGHTS ON WATER RESOURCE
MANAGEMENT**

Smt. Ashwini Raghunath Kadam Research Student Department of Economics Shivaji University,
Kolhapur

Dr. A.K. Patil Professor and Head Department of Economics SGM College, (Autonomous) Karad

ABSTRACT

The paper analyzes the creative thoughts of Dr. Babasaheb Ambedkar about water management and irrigation in India. It highlights principles of equitable water distribution, sustainable management, and the development of large-scale irrigation projects. The study discusses Ambedkar's support for multifunctional river valley projects that addressed flood management, irrigation, and the production of hydroelectric power, such as the Bhakra-Nangal Dam, the Damodar Valley Project, the Hirakud Dam, and the Sone River Valley Project. The current research depends on secondary data. Dr. Ambedkar's ideas on irrigation were based on a comprehensive plan that combined irrigation, flood management, and the production of hydroelectric power. Such multifunctional initiatives, in his opinion, are crucial to the overall development of areas impacted by frequent floods and water scarcity. Dr. Babasaheb Ambedkar's ideas on irrigation are indicative of a forward-thinking strategy that has revolutionized India's water management system. His focus on resource equity, multifunctional projects, and sustainable development has created a lasting legacy that benefits the country even now. The paper concluded that the productivity of India's agriculture and rural development has been revolutionized by Dr. Ambedkar's irrigation programs. In addition to increasing agricultural productivity, his programs also helped to improve the socio-economic standing of rural regions by guaranteeing fair allocation of water, encouraging sustainable practices, and engaging local populations. The rural populations and agricultural sector of India continue to gain from these initiatives' long-term sustainability.

Keywords: Irrigation Systems, Water Management, Sustainable Irrigation Practices, Multipurpose Water Projects, Economic Development.

INTRODUCTION

In addition to being largely credited with creating the Indian Constitution, Dr. Babasaheb Ambedkar was a pioneer in irrigation and water management. Even if his enormous contributions to social justice and the law sometimes outshine his contributions to this field, they are nevertheless essential to comprehending the overall evolution of contemporary India. Dr. Ambedkar's views on irrigation were strongly influenced by his support for sustainable resource management, economic growth, and social justice. As the Labour Member of the Viceroy's Executive Council from 1942 to 1946, Dr. Ambedkar was instrumental in the planning and implementation of several significant irrigation projects. These programs were created to address larger socio-economic issues including flood management, drought mitigation, and rural employment in addition to increasing agricultural output. His support of expansive, multi-use water projects demonstrated his conviction that irrigation has the ability to improve underprivileged areas and foster fair development. Dr. Ambedkar's irrigation philosophy was based on several fundamental ideas, including the creation of multifunctional projects, community engagement, sustainable water management techniques, and fair distribution of water. In his view, everyone should have access to water as it is a shared resource, for the disadvantaged sections of society. His focus on sustainable methods was intended to guarantee the long-term availability of water supplies, and his encouragement of community involvement emphasized the role that local government plays in efficient water management.

OBJECTIVES OF THE STUDY-

The following are the main objectives of the present research work.

1. To analyze Dr. Ambedkar's principles and thoughts on irrigation management.

2. To evaluate the impact of his irrigation policies on agricultural productivity and rural development.
3. To study key irrigation projects initiated under Dr. Ambedkar's guidance.

RESEARCH METHODOLOGY

The present study is based on secondary data that was gathered from a variety of sources, including scholarly articles, and research papers, to highlight Dr. Ambedkar's contribution to irrigation.

DR. AMBEDKAR'S PRINCIPLES OF IRRIGATION -

The thoughts and principles of Dr. Babasaheb Ambedkar about irrigation were closely linked to his more comprehensive goals of social justice, economic equality, and sustainable development. Dr. Ambedkar's major principles and thoughts on irrigation are as follows.

Equitable Distribution of Water

Social justice was Dr. Ambedkar's first priority, which led him to advocate for fair water distribution. He maintained that everyone's right to obtain water should be unaffected by their social or economic standing. His goal was to remove the differences in water availability that disadvantaged vulnerable populations often. This idea is demonstrated by his backing for extensive irrigation projects designed to give drought-prone and impoverished areas a steady source of water.

Sustainable Water Management

Dr. Ambedkar understood the need for sustainable management of water resources due to their limited supply. He advocated for methods that would increase agricultural production without depleting resources by maximizing the efficiency of water usage. His backing of initiatives like the Damodar Valley Project, which attempted to manage flooding, irrigate land, and generate electricity while guaranteeing a balanced and multifunctional use of water resources, demonstrates his commitment on sustainability.

Large-Scale Irrigation Projects

Dr. Ambedkar's comprehension of the agrarian economy's need on a steady supply of water led him to favor extensive irrigation projects. He considered these initiatives as a way to boost rural development, lower poverty, and increase agricultural output. Under his direction, initiatives like as the Sone Valley Project and the Hirakud Dam were started, demonstrating his dedication to building infrastructure that would promote long-term economic development and sustainable agricultural expansion.

Community Involvement

Dr. Ambedkar's conviction in local empowerment and democratic government led him to place a strong focus on community engagement. In order to guarantee that local populations had a voice in the allocation and management of water resources, he promoted the creation of water user groups. The goal of this concept was to increase community members' feeling of accountability and ownership, which would result in more sustainable and successful water management techniques.

Multipurpose Water Projects

Projects like the Damodar Valley Project, which attempted to serve several functions, including irrigation, flood control, and power generating, are examples of Dr. Ambedkar's holistic approach to water management. Dr. Ambedkar promoted multifunctional projects in an effort to guarantee that water resources were used in a way that would benefit society as a whole and advance socioeconomic development.

Dr. Babasaheb Ambedkar's principles of irrigation can be mentioned as above. The innovative methods of irrigation and water management developed by Dr. Ambedkar have had a long-lasting effect on the socioeconomic advancement of India. His principles still inform current water regulations and procedures, guaranteeing that water will always be an essential resource for all.

IMPACT OF DR. AMBEDKAR'S IRRIGATION POLICIES ON AGRICULTURAL PRODUCTIVITY AND RURAL DEVELOPMENT-

The irrigation plans of Dr. Babasaheb Ambedkar have had a significant and enduring impact on India's rural development and agricultural production. An evaluation of these impacts is as follows:

Enhanced Agricultural Productivity

Dr. Ambedkar's views on irrigation projects, such as the Damodar Valley Project and the Hirakud Dam, offered a dependable water supply, which raised crop yields and stabilized agricultural output. With guaranteed irrigation, farmers may grow a wider range of crops than just the conventional rain-fed types, which would increase earnings and lessen the likelihood of crop failures. For example, the Damodar Valley Project changed the area's agricultural environment and increased rice and other crop production.

Socio-Economic Development

The building and upkeep of massive irrigation projects generated a lot of jobs in rural regions, giving people quick work and boosting local economies. Rural communities now enjoy greater living standards as a result of increased agricultural output and higher earnings from varied crops. Better sanitation and health results also resulted from having access to dependable water sources. For example, the Hirakud Dam project supplied hydroelectric power in addition to providing irrigation, which aided in the region's industrial growth and increased job prospects.

Flood Control and Disaster Mitigation

The purpose of multipurpose projects like the Damodar Valley Project was to manage floods, which had previously destroyed rural communities and agricultural fields. Stable agricultural and economic circumstances were enhanced by the implementation of efficient flood control measures that safeguarded property and crops. The region's flood frequency and intensity were greatly decreased by the Damodar Valley Project, safeguarding agricultural fields and boosting the resilience of rural populations. Disaster Mitigation These initiatives helped lessen the effects of floods and droughts by better-managing water resources, which increased agricultural production consistency and decreased the economic vulnerability of rural populations.

Long-Term Sustainability

Dr. Ambedkar made sure that irrigation projects had long-lasting advantages by emphasizing sustainable water management techniques. Sustainable farming methods were facilitated by the community's engagement in water management and the efficient use of water resources. multipurpose projects prevented soil erosion and managed water management preserved ecological equilibrium, they also helped save the environment. Sustainable practices were implemented as part of the Sone Valley Project, which improved irrigation and agricultural production in the area. These practices have continued to help the environment and agriculture in the area.

The impact of Dr. Ambedkar's irrigation policies on agricultural productivity and rural development can be mentioned above. Dr. Ambedkar's irrigation programs revolutionized India's rural development and agricultural production. His efforts increased agricultural productivity and improved the socio-economic standing of rural regions by guaranteeing fair allocation of water, encouraging sustainable practices, and incorporating local populations. India's rural people and agriculture industry continue to gain from these projects' long-term sustainability.

KEY IRRIGATION PROJECTS INITIATED UNDER DR. AMBEDKAR'S GUIDANCE-

Dr. Babasaheb Ambedkar made a substantial contribution to the creation of important irrigation projects in India during his time serving as the Labour Member of the Viceroy's Executive Council from 1942 to 1946. Some of the most impressive projects initiated under his guidance are as follows:

Damodar Valley Project

In addition to being the primary architect of the Indian Constitution, Dr. Babasaheb Ambedkar was a visionary leader who made major contributions to irrigation and water management in India. His

opinions on the Damodar Valley Project are consistent with his all-encompassing strategy for social justice, economic expansion, and sustainable development. One of the biggest and oldest multifunctional river valley projects in India is the Damodar Valley Project. The project, which sought to address the persistent problems of floods, irrigation, and power production in the Damodar River valley, was started under the direction of Dr. Babasaheb Ambedkar while he served as the Labour Member of the Viceroy's Executive Council from 1942 to 1946. The Damodar Valley Project was planned with flood management, irrigation, and hydroelectric power generating in mind. It was intended to be a comprehensive response to the ongoing flooding and problems with water management in the Damodar River basin, which is known as the "Sorrow of Bengal" because of its destructive floods.

Dr. Babasaheb Ambedkar's ideas on the Damodar Valley Project demonstrate his forward-thinking perspective on sustainable development and water management. He sought to change the socioeconomic environment of the Damodar River watershed by promoting multifunctional projects, efficient flood management, dependable irrigation, and hydroelectric power generation. His beliefs about social justice and community service still have an impact on India's modern water management practices.

Hirakud Dam Project

The Tennessee Valley Authority (TVA) in the United States, which combined flood control, energy production, and agricultural growth, served as an inspiration for Dr. Ambedkar's proposal for the Hirakud Dam. He underlined that the development of water resources has to be a multifunctional strategy that takes into account all potential applications of water. This strategy sought to optimize the advantages of water resources for the advancement of socioeconomic development in general. Dr. Ambedkar understood that in order to shield rural communities and agricultural areas from recurrent flooding, there was a need for efficient flood control techniques. Floods in the area have been less frequent and less severe since the Hirakud Dam was built. Through the initiative, farmers were able to plant various crops annually and increase agricultural production by having a consistent source of water for irrigation. The Hirakud Dam's hydroelectric power plants produced a significant amount of energy, which aided in the development of the local economy and raised living conditions for residents. This emphasis on electricity production was in line with Dr. Ambedkar's overarching goal of advancing economic growth and updating India's infrastructure. He underlined that water need to be viewed as a shared resource that is available to all societal segments, particularly underprivileged groups. This idea was mirrored in the procedures and guidelines put in place as part of the Hirakud Dam project to guarantee equitable water distribution. In order to incorporate local communities in the allocation and management of water resources and promote a feeling of accountability and ownership, Dr. Ambedkar also pushed for the creation of water user groups.

Sone River Valley Project

The valley of the Sone River. Dr. Ambedkar stressed the importance of the programme for the development of the economies of Uttar Pradesh, Bihar, and a few other Central States and Provinces. He emphasized that in order to fully exploit the potential of the system, a regional approach to the problem is required, not a local one. During this discussion, Dr. Ambedkar stressed how managing interstate rivers requires regional multifunctional river valley development. Apart from providing canal irrigation and sustainable hydroelectric power, the Son Valley Project was designed as a multifunctional river management scheme. Along with providing affordable power for industrial expansion, it also enhanced the use of this energy for agricultural development, including the utilization of tube wells and water in flooded regions. optimizing and increasing the Ganges water supply for farming needs. When it comes to water management and sustainable development, Dr. Babasaheb Ambedkar's views on the Sone River Valley Project demonstrate his vision. His goals were to change the socioeconomic conditions of the Sone River watershed by supporting multifunctional projects, efficient flood management, dependable irrigation, and hydroelectric power generation. The modern water management strategies in India are still shaped by his values of social justice and community engagement.

Bhakra-Nangal Dam Project: Dr. B.R. Ambedkar was instrumental in the design and implementation of the Bhakra-Nangal Dam Project. One of India's largest river valley projects, the Bhakra-Nangal Dam is situated on the Sutlej River in the northern state of Himachal Pradesh. It was built to meet a number of requirements, including flood control, electricity production, and irrigation. In 1945, Dr. Ambedkar was named the Central Waterways, Irrigation and Navigation Commission's first Chairman, a post he maintained until 1946. He participated in the preliminary planning of the Bhakra-Nangal Dam during his term. His dedication to infrastructure development and proficiency in managing water resources were key factors in forming the project's original concept. After India attained independence in 1948, work on the Bhakra-Nangal Dam Project was initiated by the government. Since its completion in 1963, the dam has played a crucial role in producing hydroelectric power, controlling flooding, and supplying agricultural water to the neighboring areas. Dr. Ambedkar's contributions to the development of infrastructure and water resource management, particularly his involvement in the Bhakra-Nangal Dam's planning, demonstrate his multifarious contributions to the country's social and political spheres as well as economic development and resource planning.

Due to his dedication to inclusive development and social justice, Dr. Ambedkar made significant contributions to these significant water and electricity projects. The regulations related to these projects were shaped by his views, which ensured that the destitute and disadvantaged populations in India would benefit from the projects' design in addition to economic prosperity.

CONCLUSION- Dr. Ambedkar's thoughts on irrigation were based on a comprehensive plan that combined irrigation, flood management, and the production of hydroelectric power. Such multifunctional initiatives, in his opinion, are crucial to the overall development of areas impacted by frequent floods and water scarcity. Dr. Babasaheb Ambedkar has made significant and varied contributions to India's irrigation and water management systems. His innovative approach to multifunctional river valley projects, including the Bhakra-Nangal Dam, Hirakud Dam, Sone River Valley Project, and Damodar Valley Project, has had a long-lasting effect on the nation's socioeconomic growth. The irrigation plans of Dr. Ambedkar have revolutionized the agricultural production and rural development of India. Through fair allocation of water resources, encouragement of sustainable practices, and engagement of local people, his programs enhanced agricultural productivity while simultaneously bolstering the socio-economic standing of rural regions. These initiatives continue to help India's rural people and agriculture industry in the long run.

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