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## Lokmanya Tilak and His Intellectual Contribution

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**Abstract:** Lokmanya Bal Gangadhar Tilak was one of the few jewels that always tried hard for the upliftment of the country. He was born not only with intellectual abilities but had great courage. He was always worried about the nation and the country's development. With his intelligence, knowledge, and mastery, he not only strengthened the field of education but also fulfilled the Vedic science. Through the present paper, the researcher has made attempts to obtain proper and accurate clarification on Tilak's intellectual contribution. He has given the best and precise literature to India in the form of books like "Orion" and "The Arctic Home of the Vedas", etc.

**Keywords:** Intelligence, Lokmanya Tilak, Mathematics, Vedic science, Sanskrit, Orion, The Arctic Home of the Vedas.

### INTRODUCTION

Lokmanya Bal Gangadhar Tilak was a person with a great interest in various subjects like Mathematics, social science, Sanskrit, and many more. He was talented from childhood itself. His father, Gangadharpant, was a teacher and Sanskrit scholar. So, Lokmanya learned a lot of things from his father only. Dr. Tilak D.J., Dr. Tilak G [1], "Lokmanya B. G. Tilak The Visionary", Tilak Maharashtra Vidyapeeth, Pune 7. His family background that impact of traditions, Tilak developed his interest in Sanskrit.

Apart from this, we found that Lokmanya Tilak has developed a sharp memory and a logical mind. Mathematics and arithmetic calculations were his favorite things. His sharpness reflects his ability to answer questions quickly. Lokmanya Tilak has developed the ability to perform the in-depth study, and it was the fundamental characteristic behind his great thoughts and literature. Since childhood, Lokmanya Tilak proved his responsibilities, capabilities, eager to do something for the nation. Since childhood, Tilak developed the command over the various subjects. According to Lokmanya Tilak, "Reading was the process of understanding and not remembering". Dr. Tilak D.J., Dr. Tilak G [1], "Lokmanya B. G. Tilak The Visionary", Tilak Maharashtra Vidyapeeth, Pune 7. Hence, he tried to understand the things and then implemented them.

Tilak generated his eagerness to memorize the numbers through various tricks. He practiced solving all the mathematical examples of orally. He enjoys the challenging conditions and resolves it by intelligence and expertise. Lokmanya Tilak defined his proficiency in calculations through various incidences. Dr. Tilak D.J., Dr. Tilak G [2], "Lokmanya B. G. Tilak The Visionary", Tilak Maharashtra Vidyapeeth, Pune 7.

### STATEMENT OF THE PROBLEM:

The statement of the problem is "LOKMANYA TILAK AND HIS INTELLECTUAL CONTRIBUTION".

### OBJECTIVES

- To understand the intellectual power of Lokmanya Bal Gangadhar Tilak
- To understand Tilak's work in Orion
- To understand Tilak's opinion for "The Arctic Home of The Vedas"
- To find out Lokmanya Tilak's intellectual contributions in Vedic literature

### BACKGROUND OF LOKMANYA TILAK AND HIS INTELLECTUAL CONTRIBUTION:

In obtaining freedom, a lot of great worriers and fighters have contributed their efforts. Lokmanya Tilak was among them, whose contribution to achieving freedom was uncountable. He designed paths that led to making the country free from British rule. He not only pioneered educational movement, but along with that, he started the campaign for Swarajya, Swadeshi, and mass communication. He supported countrymen in obtaining birthright and making the land free of injustice, inequality.

Furthermore, the researcher found that Lokmanya Tilak was a person who dedicated his life and sacrificed family only for the nation. We discovered that Lokmanya Tilak's insights helped the country in improving the condition in all sense. The researcher obtained all the information from books, newspapers, literature, and others. Lokmanya Tilak was a person who has earned expertise and knowledge that helped the nation to secure the future.

Lokmanya Tilak was an admirer of Vedas and our oriental knowledge. Tilak wrote commentary on Shrimad Bhagvat Geeta, i.e. Geetarahasya – Karmayog Shastra. While explaining Nishkam Karmayog he wrote that a person should not act just for himself but for the benefit of the society. He should think in ascending order like himself, his family, society and nation [3].

Also, we found that he was a man with immense hardship and made drastic changes and transformations in literature and journalism. Through his writing, he has created awareness in the society and educated the masses about their rights and injustice. For the education purpose, he took the support of the spiritual and historical stories. He tried multiple tricks to inspire and educate masses.

#### **METHOD USED IN THE PRESENT RESEARCH**

To obtain the clear understanding of Lokmanya Tilak and his intellectual contribution. He made efforts to obtain accurate calculations for the calendar. In the present research, the researcher has followed various methods and studied a lot of literature available on Lokmanya Tilak. Also, we collected the detailed information of every single fact of Lokmanya Tilak's personality and contribution to various books. For data collection, the researcher has referred to multiple books, research papers, magazines, and other resources. Apart from this, we have conducted multiple interactive sessions with Tilak's family. We made this research descriptive and historical and was based on the available secondary data. All the obtained data were cross-verified and tested by using proper validation and testing methods.

#### **NEED AND IMPORTANCE OF RESEARCH**

To make the clear understanding of Lokmanya Tilak's contribution in Vedic literature and its impact, the researcher has made this study. All the knowledge was propagated through various resources, including research writings, websites, and some other resources. Based on these sources, the researcher has presented a precise contributory work of Lokmanya Tilak.

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#### **IMPLEMENTATION OF RESEARCH METHODOLOGY**

In the present studies, the researcher has referred to the primary and secondary types of data from online or offline resources. Also, we had taken the support and guidance from the research guide. Apart from this, the researcher has collected some great and essential information from the published and unpublished resources. Also, to obtain clear insights on Lokmanya Tilak and his intellectual contribution, the researcher has followed the survey method of data collection. Through this paper, we have provided clear insights and met the goals of the study. We implemented the survey method on the selected individuals from the Lokmanya Bal Gangadhar Tilak family. We chose this method to cross-verify the authenticity of the obtained data.

#### **OUR FINDINGS**

After obtaining the entire data on the Lokmanya Bal Gangadhar Tilak, the researcher processed the information further. Here, the researcher has edited, organized, and interpreted for the research purpose. Also, we had performed pre-testing and verification of the data by using various procedures and techniques. We performed data validation by taking the support of the survey method and fundamental data collection procedures. Through the entire study, we received the appropriate understanding of the following mentioned information about Lokmanya Bal Gangadhar Tilak.

#### **Lokmanya Tilak and The Orion**

Lokmanya Tilak was a person with widespread interests and intellect. He loved the various subjects like history, Sanskrit, and astronomy. Dr. Tilak D.J., Dr. Tilak G [1], "Lokmanya B. G. Tilak The Visionary", Tilak Maharashtra Vidyapeeth, Pune. He has completed his graduation from the Deccan Education Society and explored different aspects not only about the topics but about life. Tilak had developed skills and expertise to work with profoundly and explore new analytics. With the deep understanding and complete hold on any subject, Tilak published a book. We found the proof of his skills; Tilak published a book named, "The Orion" in 1893. Dr. Tilak D.J., Dr. Tilak G [1], "Lokmanya B. G. Tilak The Visionary", Tilak Maharashtra Vidyapeeth, Pune,82. While going through that book, we found that The Orion was written and published to dealt with Vedic chronology. Through that book, he has tried to fix the period of the Vedas based on the motion of the constellations. By computing the years when the constellations would have been positioned according to the description in the Vedas.

Also, we found that in this book he said that the astronomical statements in the Vedas "unmistakably pointed out that the vernal equinox was in the constellation of Mrga or Orion (about 4500 BC) during the period of the Vedic hymns,

and that it had receded to the constellation of the Kritikas or the Pleiades (about 2500 BC) in the days of the Brahmanas." Dr. Tilak D.J., Dr. Tilak G [1], "Lokmanya B. G. Tilak The Visionary", Tilak Maharashtra Vidyapeeth, Pune, 82. In reference to this, Tilak said the Vedic hymns were composed 4500 BC, i.e., the earliest time. Hence, placing them at a much older period than had been hitherto thought.

We found that H Jacobi corroborated this view of Tilak. It was a remarkable fact that one man who had already done so much, and he was serving a sentence in prison. He has an energetic mind. He could not just sit out his sentence, but he spent the time studying and thinking about his other interests. He did not waste his time in prison; he merely wrote remarkable books. All his books are scholarly and well thought out. That whether the theories were accepted, they certainly caused more scholars to investigate this line of thinking and look for more evidence. It is now clear that Vedic culture dates to 4500 BC, and the creation of Vedic literature was around 3500 BC. Dr. Tilak D.J., Dr. Tilak G [1], "Lokmanya B. G. Tilak The Visionary", Tilak Maharashtra Vidyapeeth, Pune, 82.

### **Lokmanya Tilak and The Arctic Home of the Vedas**

As we have discussed before, Lokmanya Tilak was a great thinker, writer, and intelligent person of the past era. It was ten years back when he published a sequel to the "Orion," and he named that book as "The Arctic Home of the Vedas". This book exemplifies the remarkable analytical ability and enquiring nature of Tilak's extraordinary mind. Dr. Tilak D.J., Dr. Tilak G [1], "Lokmanya B. G. Tilak The Visionary", Tilak Maharashtra Vidyapeeth, Pune, 83. Lokmanya Tilak's Vedic research and recent geological and archeological discoveries led him to write "The Arctic Home of the Vedas". He pioneered certain theories that the original home of the Aryan race was in the north polar region exactly before the ice age set in. He also found that at that time, i.e., around 8000 BC, the climate was warmer and conducive to human habitation. He has collaborated this fact with the evidence in the Zend Avesta. Dr. Tilak D.J., Dr. Tilak G [1], "Lokmanya B. G. Tilak The Visionary", Tilak Maharashtra Vidyapeeth, Pune, 83.

While performing this research, the researcher found Tilak's work, and he stated, "The beginning of the Aryan civilisation must be supposed to date back several thousand years before the oldest Vedic period; and when the commencement of the post-glacial epoch is brought down to 8000 BC. It not surprising that the date of primitive Aryan life is found to go back to it from 4500 BC, the age of the oldest Vedic period... There are many passages in the 'Rigveda' which... when interpreted in the light of recent scientific researches, plainly disclose the polar attributes of the Vedic deities or traces of an ancient Arctic calendar..." Dr. Tilak D.J., Dr. Tilak G [1], "Lokmanya B. G. Tilak The Visionary", Tilak Maharashtra Vidyapeeth, Pune, 83. He stated that "AiryanaVajeo" the Aryan Paradise was according to the Avesta, located in a region where the sun shone but once a year and that it was destroyed by the invasion of snow and ice. All these theories received support from many quarters, and the book exemplifies the remarkable analytical ability and enquiring nature of his extraordinary mind. All these theories received support from many quarters. Dr. Tilak D.J., Dr. Tilak G [1], "Lokmanya B. G. Tilak The Visionary", Tilak Maharashtra Vidyapeeth, Pune, 83.

### **VedangaJyotisha and Lokmanya Tilak**

As we have discussed Tilak's intelligence along with this, we found that he had developed knowledge of astrology and Sanskrit. In the present research, the researcher found that due to Tilak's great intellect, he has earned and mastered many subjects. We find that Tilak wrote "Orion" and "The Arctic Home of the Vedas". Among them, "Orion" was based on Vedic chronology and calendar calculations. Dr. Tilak D.J., Dr. Tilak G [1], "Lokmanya B. G. Tilak The Visionary", Tilak Maharashtra Vidyapeeth, Pune, 83. Through these calculations, he corrected the mistakes of the past. While performing this research, we came to know several facts about Tilak's personality. This book reflects Tilak's mastery over the complex mathematics and the skills required to formulate a precise calendar.

Furthermore, we found some references of Tilak and his work for "VedangaJyotisha". It was a calendar used by Jain astronomers of around 500 B.C. Dr. Tilak D.J., Dr. Tilak G [1], "Lokmanya B. G. Tilak The Visionary", Tilak Maharashtra Vidyapeeth, Pune, 83. It was the time when the winter solstice had shifted to the present Shravan. Due to Babylonian and Greek influence, there was a break in tradition. Most of the people marked the difference as the replacement of winter solstice by the fixed vernal equinox of 285 AD as the beginning of the year. This difference made the calendar sidereal (nakshatra-based), instead of season based. Therefore, it was separated from seasons by about one day in 72 years. Now, after 1700 years, the year does not begin on the day of the vernal equinox but 24 days later. Dr. Tilak D.J., Dr. Tilak G [1], "Lokmanya B. G. Tilak The Visionary", Tilak Maharashtra Vidyapeeth, Pune, 83.

The researcher found that around 1400 BC when the sun's position at the winter solstice was in Danishtha nakshatra [Beta Delphine], the sage Lagadha formulated this VedangaJyotisha. It replaced the earlier fundamental observational procedure of making a calendar by a mathematical device. It is apparently the first and oldest scheme of its kind in the world. It uses the round numbers for describing the positions and motion of the sun and moon in the first approximation. We found that it also gives rules for correcting them for greater accuracy.

## CONCLUSION

Through the present study, the research fellow has studied Lokmanya Tilak and his intellectual contributions to strengthen Indian Vedic science and literature. We got a clear understanding behind the formation of several literature and its impact on the current times. He found that, Tilak made all his efforts to obtain advanced methods of calendar calculations. We made this study to obtain clear insights Vedic age based on astronomical conventions.

- Lokmanya Bal Gangadhar Tilak's involvement in formation of "Orion"
- Lokmanya Tilak's contribution in formation of "The Arctic home of the Vedas"
- Lokmanya Tilak and "Vedanga Jyotisha"

## RECOMMENDATIONS

Through this research, the researcher has obtained understanding about various essential points. Further the researcher has provided insights for further research. Here are the following recommendations given by the researcher:

1. Further the study can be performed to understand Tilak's fundamental logic behind creation of various literature.
2. Finding relativeness between literature that was available in 4500 BC and the literature that was created by Lokmanya Tilak might provide scope to perform further study.

## REFERENCES

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