

# **CERTIFICATE**

*This is certified that Sakshi Shekhar of class XII 'C', studying in Kendriya Vidyalaya Vayusena Nagar, Nagpur have successfully completed the Biology\_Investigatory Project on the topic Biodiversity loss: Effect and Cause under the guidance of Mrs. Mamta Sasan in particular fulfilment of CBSE for the AISSCE course of academic year of 2020-21 and I have used Art Integrated Approach during conduct of my Investigatory Project.*

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*External's Sign*

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*Internal's Sign*

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*Principal*

# ACKNOWLEDGEMENT

*In the accomplishment of this project successfully, many people helped and support me. I would like to express my deep sense of gratitude to all those people without whom this project could have never been complete.*

*Firstly, I would like to thanks my parents for their inexhaustible source of inspiration.*

*Now, I would like to extend my gratitude to Mr. Arvind Kumar, Principal, for giving me this opportunity and your constant guidance.*












*I would like to extend my gratitude to Mrs. Mamta Sasan, PGT Biology, for her keen interest in the work and ever useful practical knowledge and for their kind supervision.*

*At last, but not the least I would like to thanks my friends and classmates who helped me a lot.*

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# ***BIODIVERSITY***

## ➤ **GLOBAL DIVERSITY:**

- ✓ According to the International Union for Conservation of Nature and Natural Resources (IUCN) (2004), the total number of plant and animal species described so far is slightly more than 1.5 million, but we have no clear idea of how many species are yet to be discovered and described.
- ✓ Some extreme estimates range from 20 to 50 million, but a more conservative and scientifically sound estimate made by Robert May places the global species diversity at about 7 million.
- ✓ More than 70 per cent of all the species recorded are animals, while plants (including algae, fungi, bryophytes, gymnosperms and angiosperms) comprise no more than 22 per cent of the total. Among animals, insects are the most species-rich taxonomic group, making up more than 70 per cent of the total.
- ✓ The number of fungi species in the world is more than the combined total of the species of fishes<sup>2</sup>, amphibians, reptiles and mammals.

➤ **INDIA'S DIVERSITY:**

- ✓ India has only 2.4 per cent of the world's land area; but its share of the global species diversity is an impressive 8.1 per cent. That is what makes India country one of the 12 mega diversity countries of the world.
- ✓ Nearly 45,000 species of plants and twice as many of animals have been recorded from India.
- ✓ According to May's global estimates, only 22 per cent of the total species have been recorded so far.
- ✓ Applying this proportion to India's diversity, we estimate that there are probably more than 1, 00,000 plant species and more than 3, 00,000 animal species yet to be discovered and described.