

**Physicochemical parameters and heavy metal (Fe,Mn, Cu and Zn)
analysis of agricultural soil from Pernem taluka, North Goa, Goa**

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By

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APRIL 2023



Examined by:

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DECLARATION

I hereby declare that the data presented in this dissertation report entitled, “Physicochemical Parameters and heavy metals(Fe, Mn, Cu and Zn) analysis of agricultural soil from Pernem taluka, North Goa, Goa” is based on the results of investigations carried out by me in the Environmental Science at the School of Earth Ocean and Atmospheric Sciences, Goa University under the Supervision of Dr. Poornima Rohan Sawant and the same has not been submitted elsewhere for the award of a degree or Diploma by me. Further, I understand that Goa University or its authorities will not be responsible for the correctness of observations /experimental or other findings given in the dissertation.

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COMPLETION CERTIFICATE

This is to certify that the dissertation report, "Physicochemical Parameters and heavy metal(Fe, Mn, Cu and Zn) analysis of agricultural soil from Pernem taluka, North Goa, Goa" is a bonafide work carried out by Ms. Bhawana Bharat Halarnkar under my supervision/mentorship in partial fulfilment of the requirements for the award of the degree of Master of Science in the Discipline of Environmental Science at the School of Earth, Ocean and Atmospheric Sciences, Goa University.

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