Title: Two Decades of Anthropocene Research: A Scientometric Analysis

Principal Investigator (PI): Dr. Bidyarthi Dutta, Associate Professor, Department of Library and Information Science, Vidyasagar University, Midnapore, West Bengal

Co-Principal Investigator (Co-PI): Dr. Anup Kumar Das, Documentation Officer, Centre for Studies in Science Policy, School of Social Science, Jawaharlal Nehru University, New Delhi

Overview of the project: Of different research areas, Anthropocene is an emerging area of study which defines Earth's most recent geological time period as being human influenced. It is a multi-disciplinary area of study embracing facets like atmospheric science, earth science, geology, hydrology, biosphere etc. The word combines the root "anthropo", meaning "human with the root" and "cene", the standard suffix for "epoch" in geological time. The anthropocene is distinguished as a new period either after or within the Holocene, the current epoch, which began approximately 10,000 years back (around 8000 BC) with the end of the last ice age. This research project aims to develop a comprehensive bibliographic database and to carry out detailed scientometric analysis on research & development of anthropocene during last two decades along with allied areas like earth science, hydrology, biosphere etc. This project also intends to develop an open-access online portal to be based on the database to be created and searchable by keywords, authors, subject descriptors, sources et al.

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Research Methodology: Records pertaining to anthropocene and allied domains will be downloaded from databases like Web of Science, Scopus, INSPEC, Geological Abstracts, Geophysical Research Abstract, Indian Science Abstracts, Indian Citation Index etc. Records missing in these databases will be created. Then all the records will be merged together. The merger will give rise to plenty of duplicate records, which will be removed to ensure that the database contains only unique records. All the records will be standardised to remove the variations. Author index and keyword index will be generated. Bibliometric and scientometric analysis will be undertaken to generate various indicators such as growth pattern of various subjects, trend analysis, author productivity, authorship pattern, prolific authors, institutional productivity, prolific institutions, collaborative pattern, and so on. In this way, a large database gradually would be developed.

Deliverables:

- **Research Articles**
- **Report**
- **Database**
- **Reference Book**