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## CTBT and Evolving Nuclear Order

The advent of nuclear weapons was a great shift of paradigm in the global politics and nuclear testing is associated with it. Therefore, it further leads to the concerns of nuclear proliferation (vertical/horizontal) and nuclear safety and security matters. The study will be organised in three parts. I) It will analyse and review the scope of CTBT, II) it will examine the CTBT phases over the years, III) it will discuss discourse regarding the treaty at multiple levels and possibilities of the way forward. This paper aims to provide and map the challenges related to the CTBT in comparison of non-proliferation treaty at the international level, which include difficulties of achieving objective of the treaty with reference to evolving nuclear order and growing strategic ground realities. Furthermore, it will analyse the systems developed by the CTBTO consisting of the International Monitoring System, International Data Centre and their contribution to the value of the Treaty in relation to the broader non-proliferation regime. This paper will also propose suggestions to address some challenges, at the working level by development of systemic capacity building to introduce various aspects of technological support which CTBTO may provide for global security issues such as climate change.

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