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Impact of Archaeological Evidences(Sundial) in Sri Lanka, for Calculate the Diurnal Variation of Timing Period.

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There are numerous mechanisms used to study past human behavior, including history, oral tradition, and archaeology. This study is critically analyse historical archaeological factors( Sundial & Water Clock), which belons to Anuradapura period (3BC-10AD) in Sri Lanka. Therefor research is breify forcusing to evaluate the anthropogenic activites in between sundial & water clock. As a frist steps of studing process, we have observed absolute location which corresponding to +5.30GTM( dominantly 7ً29 .417’NN , 81 36. 984’EE), sturactral martial & usability impact of sundial & water clock. Then we have apply the ruler geometry & euclidean geometry to 10cm height object that permanently set in centerlized poin of sundial in ampara rajagala & measured the variation related to momentum of shadow of object. Coordinating structural process in manual parameters selected as L= length of shadow, H= hight of object, tan \( \alpha \) = angle between sun and horizon. The compatibility analyzing of all data evaluate from “PlanetCalc” softwear & final results show the traits way to understanding borad objective of this study.