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Research Paper

Calendar- Arunodaya

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Hereby, it is proposed that, from coming 21st March 2026, the New Year should begin with the Date of Spring of Equinox (that is 21st March). Year & Date for a given Place, should begin from the time of Sunrise, as on the point of Equator, corresponding to the nearest 1/4th part of the respective Meridian. 'Beginning of a common Global Day' & 'Global standard length of day-night' should be considered on the basis of, "as on Latitude: 0 Degree, Longitude: Minus 49 degree 15 minutes from current UTC".

A Year should be made up of 12 Months & each Month should be made of 30 Solar days, With below exceptions;

1. Nth Month of every year should be made up of 31 days.
2. Additionally, Nth Month of every 9th year should have additional 02 days. Again, Nth Month of every 99th year should have further additional 02 days. Moreover, Nth Month of every 4320th year should be reduced by 01 day.

   [So, the Nth month would be made up of; 31 Days (normally) or 33 Days (Every 9th Year) or 35 Days (every 99th Year) or 32 or 34 Days (in combination with 4320-year cycle)]
3. (N+3) th Month of every year should be made up of 32 days.
4. (N+6) th Month of every year should be made up of 31 days.
5. (N+9) th Month of every year should be made up of 31 days.

[To begin with, the meaning of N should be considered as, 1st month of the proposed next New year (e.g.; the Month beginning from next 21st March should be the Nth Month of the coming Year). The value of N should be shifted to its next Month after completion of every 1800 Years (e.g.; For the Years from 1801st to 3600th, from the proposed New year, the 2nd month of those years, should be considered as the Nth month during those Years & so on)]

Hence, in every 21600 years, there are 7889231.363636 days

$$7884000 + (4800 + 436.36363636 - 5)$$

This value, when expanded for 25,784.615384616 Years, sums up to 9417629.4625747 Days. This value is almost equal to 9417629.649231 Days (which is obtained by multiplication of the cycle of precession of equinoxes with 365.2422 days). The actual variation, existing at the end of the cycle of Precession of equinoxes, should be adjusted at that time.

Above-described Solar month-based Calendar should be commonly considered as the Standard Year for all the activities including Administration & Business.

Along with the above, a Lunar Calendar; beginning from New Moon Day, nearest to the 'beginning of Solar Year' should be incorporated. In case, when the time distance between beginning of two consecutive Lunar Months is equal from the 'beginning of Solar Year', the later Month should be considered as the beginning point of new Lunar Year. The Lunar Calendar should be based on Lunar synodic Months (with the Sun). A lunar month should always begin with New Moon Day & should be made of equally divided 30-time intervals (irrespective of length or beginning of Solar Day). Beginning of a Lunar month should be considered, from the time when the 'centre of Lunar disc' has crossed the same part of Meridian, on which the 'centre of Solar disc' is located.

Average period of a Sidereal Year may be considered as 365.2280354282 solar days. In the case of the Sidereal Time, the actual position of Stars, as visible from the Earth, at any given point of time should be the actual Criteria.