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**"C. G. RAJAN'S
Astrological Tables
Of
Lagna and Other Houses (*i.e.*) Bhavas"
For
Latitudes from 0° to 36° North**

(And also for Latitudes from 0° to 36° South by deduction
from 0° to 36° North).

FOR USE IN MODERN TIMES

to calculate Lagna and to cast Bhavachakra in Hindu Astrology and to calculate the four cardinal cusps including the Ascendant of Western Astrology and to cast the Bhavachakra of Western Astrology according to the Ancient or Classical Method of House Division—with copious examples.

By
C. G. Rajan, B.A. (*Mathematics*)

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Preface.

There has been a demand for many years for a book of this kind of astrological tables of lagna and the bhavas or houses and this work has been undertaken specially to meet this demand. During the past few years also, there has been an increasing tendency on the part of Hindu Astrologers in particular to make astrological predictions according to the position of the planets in the Hindu type of Bhavachakra and the lack of a good and useful book giving the tables of Bhavas has been therefore very keenly felt among them. Tables of Houses have been familiar to European astrologers and there are also several kinds of such tables. In European astrology there are nearly a dozen different methods of "House Division" giving rise to a corresponding number of different tables of houses and each method of house-division has its own votaries, enthusiasts and supporters who condemn all the other methods and consequently have sprung up several Western "Tables of Houses" which differ from one another and which are being used in Western Astrology. Hindu Astrology is fundamentally quite different from Western Astrology and differs from it radically in almost all its essential elements, rules and dogmas. Unlike in European or Western Astrology, only one method of House-Division, **SV 90** Division as it is also called has been adopted universally in Hindu Astrology and it has the support and approval of famous Indian Astrologers and Indian Astronomers. It is also one of the several methods of Western Astrology adverted to above and is admittedly also an ancient or classical method in Western Astrology. It is thus the only ancient and classical method common to both Western and Hindu Astrology and has therefore been adopted for the construction of the Astrological Tables of the Lagna (*i.e.* Ascendant) and other Bhavas (*i.e.* Houses) of this book. These tables have been made specially suitable for *modern times* by adopting in calculation the *modern data* such as the modern value for the Obliquity of Ecliptic, the modern value for the correction for converting geographical latitudes into

geo-centric latitudes etc. and by employing the correct system of trigonometrical method for determining the Cusps of Houses,

It is evident from what has been said above that this book is useful to Hindu Astrologers and also to that School of European Astrologers who believe in the time-honoured method of European astrological House-Division. It is also useful to determine the Ascendant according to Hindu Astrology and according to most of all the other methods of Western House-Division as these methods tally with one another in giving the longitude of the Ascendant, and the difference in the longitude of the Ascendant given in the several Tables of Houses that are now in the market will be due to the newness or oldness of the data employed and the nature of the system of calculation resorted to in determining the cusp according to the several different methods of House-Division in Western astrology. I specially wish to bring to the notice of the reader the fact that this book has been *so designed* in its method, arrangement and presentation of necessary materials *as to make it useful* to determine the Lagna (or Ascendant) and to caste Bhavachakra of persons born mainly in India, Ceylon, Burma, Federated Malay States, Mauritius and South Africa. As this book contains also general methods of calculating Sidereal Time and the Ascendant, and the cusps of the other Houses for any place in the world, it can also be used for persons born anywhere in the world.

With a view to make this book self contained, self sufficient and exhaustive, I have given the method of calculating Sidereal Time for any place for any moment with the data that are available in Table 10 of this book or in any Indian Panchang or Western Nautical Almanac etc. which give the Sidereal Time for a fixed moment of a day. I have given also numerous examples to show how the data about Sidereal Time for various fixed moments of a day available in the various European Almanacs and Hindu Panchangs can be used to find the Sidereal Time for the required place for the required moment. I did not at first propose to give in this book Table No. 10

containing the Siderial Time for intervals of ten days in general, but as I have subsequently thought that the reader may find some inconvenience or difficulty in getting at details about Siderial Time from Western Almanacs or Panchangs, I have thought it expedient to give this table No. 10. If the reader is able to get Siderial Time for every day from any Western Almanac or Indian Panchang, he is advised to prefer it as he will thereby be saved the trouble of calculating the Siderial Time by the rule of three from this book. I have furnished in this book all the details that may be necessary to do calculation without going in for other books to get the necessary details such as latitudes and longitudes of places, the difference between the Standard Times, Mean Times, and Local Times of the different places that may fall within the scope of this book.

In conclusion, I wish to take this opportunity of expressing my thanks to some of my friends who, besides giving me valuable suggestions later on, have at first put into my head the idea of producing such a book as the present one in English (and also in Tamil* which I have also accordingly done for the benefit of the astrologers who are ignorant of the English language) and I specially thank my son, Sri C. S. Maniam (*i.e.* C. Subramaniam) a student of the B. A. Honours Class who has been of immense help to me in producing tables 9 and 10 of this book. The readers are specially requested to carry out the corrections given in the Errata list before they proceed to do calculation; and I crave their indulgence also to excuse clerical errors and print mistakes in the book and also any slip of the hand in working out the several illustrative examples and to take into account only the methods for guidance in the illustrative examples even if there be any slip of the hand in them. The price of the book would have been fixed a little less had it not been for the enormous rise in the price of printing paper on account of the present war. The undersigned (C. G. Rajan whose full name is C. Govinda Rajan) ventures to place this book before the

* The name of this Tamil book is "Juthaka Lagna Sphuta Bhava Sphuta Gananam" Price Rs. 1-8-0, Postage extra.

public in the hope that the Almighty will make it useful to the practitioners in Hindu and Western Astrology.

7, Venkatesa Maistry Street,
Near Krishnappa Naick Tank,
Sowcarpet Post, Madras.
19th June 1941 A.D.

C. G. RAJAN.

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Errata

Important Note :—The reader is specially requested to carry out the corrections before beginning to work out problems.

2. In counting the lines, the line giving the title of the book is excluded.

Part A—Instructions.

Page	Line	Error (i.e. for)	Correction (i.e. Read.)
16	29	Pombay ...	Bombay ...
18	28	do. carfully	do. carefully
35	1	as item No. 7A	as item No. 7A
52	9	we well	we will
53	8	longiude or	longitude of

Between Items Nos. 7 & 8, read item No. 7 A occurring in pages 35 to 39.

Part B.—Tables.

8	8	E		E, &
	18			
	19	Burma	} + 6-00-00	Burma + 6-30-00
	22	Straits	} + 90-00-00	90-07-30
	23	Settlements	} + 7-00-00	Straits { + 7-00-00
				Settlements { + 7-20-00
			105-00-00	{ 105-00-00
				{ 110-00-00
32	39	Column (2)	266-10	266-00
55	16	"	283-33	283-37
55	17	"	286-39	286-33
55	29	"	73-21	73-27
70	10	"	101-21	102-21
70	39	"	258-39	257-39
71	38	"	101-21	102-21
72	19	"	206-13	206-03
72	30	"	153-47	153-57

C. G. RAJAN'S
“Astrological Tables of
Lagna and Other Houses (i.e) Bhavas”
For
SAYANIC AND NIRAYANIC ZODIAC
or TROPICAL & SIDERIAL ZODIAC
or WESTERN & INDIAN ZODIAC

ITEM No. 1:—This book has been specially designed as a practical guide and a hand book for astrologers and others who wish to determine sufficiently accurately for themselves the Lagna (or Ascendant) and other bhavas (or houses) for use in Indian or Western astrology. Astrology speaks of Lagna (i.e Birth or Udaya Lagna or Birth Ascendant) and also of Bhava Chakra (or the houses) with reference to which astrological predictions have to be made according to strict injunctions of standard or classical books on Astrology. Lagna plays a very important part in Judicial Astrology, Horary or Prasna Astrology and Muhurtha Astrology. Those who are inclined to study astrology according to its strict rules or dogmas advocate the method of calculating also the Bhavachakra and condemn the practice of blindly taking the Zodiacal signs of equal magnitude of 30° to represent Bhavas. While a Zodiacal sign is uniformly 30° long, a Bhava is of varying magnitude and becomes so short in higher latitudes that what appeared to Varahamihira a wonder or an absurdity when he said in sloka 6 of Chapter XII of his Bhrihajataka “how can Mercury or Venus (which cannot be away from the Sun by more than about 29° or 47° respectively) be in the fourth house from the Sun” is a possibility if the fourth house referred to is taken as the fourth bhava and not the fourth Zodiacal sign of 30° each.

ITEM No. 2:—Lagna and Bhavachakra can be calculated and cast accurately and easily with the help of an astronomical time called Siderial Time and with the help of a specially designed table based on this Siderial Time. Lagna and Bhavachakra are in the Ecliptic. The Ecliptic is a great circle which is traced out on the celestial sphere by the annual path of the Sun relative to stars. The Celestial Equator is a great circle of the celestial sphere which is perpendicular to the axis passing through the North Pole and the South Pole. The Ecliptic and the Celestial Equator intersect each other at two points called the First Point of Aries and the First Point of Libra. The First Point of Aries is an intersecting point through which the Sun passes when going from the south of the Equator to the north of the Equator. This First Point of Aries appears to be moving daily from the east to the west just like all heavenly bodies as the result of the earth's daily rotation on its axis from the west to the east. The interval of time between any two successive passages of the First Point of Aries across the meridian of any place as the result of the earth's rotation is called a Siderial Day. This siderial day is divided into twenty four equal parts or hours and each hour is divided into sixty minutes and each minute is again divided into sixty seconds. The siderial day for a place begins when the First Point of Aries is on the meridian of that place and ends when the First Point of Aries comes to the meridian next. This Siderial day which is caused by the rotation of the earth may be also considered as the time of the Earth's rotation, on its axis. This siderial day is equal to 23 hours-56 minutes-04.091 seconds of the mean solar time or our familiar clock time. Thus it will be seen that the siderial day of 24 siderial hours is equal to 23 hours 56 minutes 04.091 seconds of mean time or our clock time. The correction that has to be made to the interval of mean time to convert it into the interval of siderial time is called the correction for Siderial Time and Table No. 4 in this book is a table giving the siderial time interval for a given mean time interval. It will be seen from what has been said above that the Siderial time is in relation to the First Point of Aries which is on the ecliptic and thus we see now that the Siderial time has something to do with the Ecliptic.

As the Lagna and the Bhavas are in the ecliptic as stated above already, we will be able to calculate Lagna and to cast Bhava chakra if we know Siderial Time.

ITEM No. 3.—In European Astronomy the longitude of a heavenly body is measured from the First Point of Aries and this longitude is called Tropical Longitude or Sayanic Longitude. The ecliptic circle is divided into twelve equal arcs of 30 degrees each from the First Point of Aries and each such arc is called a sign. The twelve signs commencing from the First Point of Aries into which the ecliptic is divided are called (1) Aries, (2) Taurus, (3) Gemini, (4) Cancer, (5) Leo, (6) Virgo, (7) Libra, (8) Scorpio, (9) Sagittarius, (10) Capricornus, (11) Aquarius and (12) Pisces. In Hindu Astronomy the longitude of a heavenly body is reckoned not from the First Point of Aries referred to above but from a fixed point in the ecliptic. This fixed point is called the Indian Starting Point. The ecliptic is divided into twelve equal arcs of 30 degrees each from the Indian Starting Point and each such arc is called a sign. The twelve signs commencing from the Indian Starting Point into which the ecliptic is divided are called (1) Mesha, (2) Rishaba, (3) Mithuna, (4) Karkataka or Kataka, (5) Simha, (6) Kanni, (7) Thula, (8) Vrichika, (9) Dhanus, (10) Makara, (11) Kumba and (12) Mina. It will now be seen that the Indian Starting Point is the First Point of the Indian Sign called Mesha. The longitude of a heavenly body measured from the Indian Starting Point or the First Point of Mesha is called Siderial Longitude or Nirayanic Longitude. The First Point of Aries referred to above is perpetually and very slowly moving towards the west and is at the present times to the west of the Indian Starting Point. The length of the arc on the ecliptic between the First Point of Aries (*i.e.* the European Starting Point) and the First Point of Mesha (*i.e.* the Indian Starting Point) is called Ayanamsa. As the First Point of Aries is perpetually moving, Ayanamsa also is perpetually changing. The First Point of Aries is also called an Equinoctial point or simply an Equinox. The phenomenon by which the First Point of Aries is moving is called the Precession of the Equinoxes and the annual rate by which the First Point of Aries

moves is called the Annual Rate of the Precession of the Equinoxes. The rate of Precession at the present times is 50.26 seconds of arc per annum. It will be seen from what has been said above that Ayanamsa is a connecting link between the Tropical longitude and the Siderial longitude and if we know any one of these two longitudes and the Ayanamsa, the other longitude can be easily got. In other words if we calculate the tropical longitude of a Lagna or a Bhava, we can deduce the Siderial longitude of the Lagna or the Bhava. The tables in this book are intended to enable first the calculation of the Tropical longitudes of the Lagna and the several Bhavas required for the European Astrology and then the Indian Siderial longitudes of the Lagna and the several bhavas required for Hindu Astrology. The beginning of a European Bhava is called the Cusp of a house. The beginning of the European First Bhava is called the Ascendant and this point is called Lagna or Udaya Lagna in Indian Astrology and is the middle point of the Indian First Bhava. The beginning points of the Several European Bhavas or Houses (as Bhavas are called Houses) from the Ascendant are the mid points of the several Indian Bhavas from the Lagna. This relationship will enable us to calculate the mid-points of the several Indian Bhavas or to erect the Indian Bhavachakra if we know the longitudes of the several cusps. Table No. 9 in this book gives the tropical longitudes of the several cusps of European Bhavas or the mid-points of the several Indian Bhavas and so this book can be used both for European (*i.e.* Sayanic) and Indian (*i.e.* Nirayanic) Astrology.

ITEM No. 4:—So far, I have introduced the reader to the several terms used in Astrology and astronomy and to the scope of this book of tables. We shall now directly plunge into calculation. The siderial time at the moment for which we wish to calculate Lagna or to cast Bhavachakra has first to be determined.

So far as this book is concerned, we have to deal with three kinds of time. They are (1) Siderial Time, (2) Mean Solar Time or briefly Mean Time and (3) Standard Time. Siderial time is indicated by a specially made clock called siderial clock. Mean time and standard time are indicated by ordinary clocks according

as they are set to mean time of a place M, or the standard time fixed for a country. The mean time of a place P is also called the Local Mean Time of that place P.

The local mean times of different places differ from each other. The standard time is the local meantime of a particular place S which is selected as a standard for a country and is used in the particular place S and in all the other places in the country which have accepted this standard time. The local mean time of an important presidential or provincial town M was generally being or is also generally being used in and around that town. So, before proceeding with calculation, we have to find out whether the time furnished to us for calculation is (1) the mean time of the place M or (2) the standard time *i.e.* the mean time of the place S to make the calculation for the required place P. Sometimes the places P and M or P and S may happen to be the same place.

ITEM No. 5:—Definitions.

DEFINITION No. 1:—The phrase “Required Place” wherever it is used in this book means the place for which the sidereal time has to be calculated.

DEFINITION No. 2: The phrase “Required Moment” wherever it is used in this book means the “clock time” for which the Sidereal Time has to be calculated. The “clock time” means (1) the clock time when meantime of the place M is used or (2) the standard clock time which is the mean time of the place S when standard time is used.

DEFINITION No. 3: The “Required Sidereal Time” wherever it is used in this book means the Sidereal Time which has to be calculated for the “required place” for the “required moment.”

DEFINITION No. 4: “Given Moment” is used also as another name for “Required Moment.”

ITEM No. 6:—The process of calculating Sidereal Time for any required moment for any required place P has to be guided by the following rules :—

RULE No. 1 :—First find out the Local Mean Time of the required place P from the required moment :—

(a) If the required moment is expressed in terms of the clock (or watch or time-piece) set to the Local Mean Time of the place M, use the place P and M, †

(b) If the required moment is expressed in terms of the clock (or watch or time-piece) set to the Standard Time *i.e.* the Local Mean Time of the place S, use the places P and S. †

N.B. The place S used in this book is the place S mentioned in column 3 of Table No. 6 for some important countries.

(c) 1. Apply the “Local Correction” D from table No. 5 to the difference in longitude between the longitudes of M and P if M and P are used.

2. Apply the Local Correction from table No. 5 to the difference in longitude between the longitudes of S and P if S and P are used.

3. The local correction D has to be added to the required moment if P is to the east of M or S. The local correction has to be subtracted from the required moment if P is to the west of M or S. If we do this, we will get the Local Mean Time of P for the required moment.

4. P will be to the east of M when the eastern longitude of P is greater than that of M and P will be to the west of M, when the eastern longitude of P is less than that of M. Similarly P will be to the east of S when the eastern longitude of P is greater than that of S and P will be to the west of S when the eastern longitude of P is less than that of S. This rule³No. c (4) is correct when P has an eastern longitude *i.e.* when P is to the

† P and M or P and S may sometimes coincide. For instance P and M may coincide when the required place P is Madras and when the required moment is given in terms of Madras Local Mean Time.

east of Greenwich from which geographical longitudes of places on the surface of the earth are reckoned. If P has a western longitude, *i.e.* when P is to the west of Greenwich this rule has to be exactly reversed.

RULE No. 2 :—(a) Then find out from Table No. 1, the Interval of Mean Time M. I. (*i.e.* clock time) between the Local Mean Noon and the “Local Mean Time of P for the required moment” as calculated in rule (1) (c) (3) if the Siderial Time available in an Ephemeris or Almanac or Panchang is given for Mean Noon.

(b) Find out from table No. 2, the Interval of Mean Time M. I. (*i.e.*, clock time) between the Local Mean Midnight and the “Local Mean Time of P for the required moment” as calculated in rule (1) (c) (3) if the Siderial Time available in an Ephemeris or Almanac or Panchang is given for Mean Midnight.

RULE No. 3 :—Then find from table No. 4 the Interval of Siderial Time (S. I.) for the Interval of Mean Time calculated in rule (2) (a) or (2) (b).

RULE No. 4 (a) :—Now note in a sheet of paper the Siderial Time available in an Ephemeris or Almanac or Panchang for the Mean Time or Standard Time Noon immediately preceding the required moment if the Ephemeris or Almanac or Panchang gives the Siderial Time for every Mean Time Noon or Standard Time Noon

(b) Note in a sheet of paper the Siderial Time available in an Ephemeris or Almanac or Panchang for the Mean Time Mid-night or Standard Time Midnight immediately preceding the required moment, if the Ephemeris or Almanac or Panchang gives the Siderial Time for every Mean Time Mid-night or Standard Time Mid-night. Let the Siderial Time be denoted by S. T.

RULE No. 5 :—Then add S. T. [found from rule (4) (a) or (4) (b)] and S. I. [found from rule 3]. Let the total of S. T. and S. I. (*i.e.* S. T. + S. I.) be K.

RULE No. 6 :—(a) Then find from table No. 3 the Longitude Correction (L.C) for the difference in longitude between the place P

and the place G for whose Mean Time Noon or Mean Time Midnight the Siderial Time available in an Ephemeris or Almanac or Panchang is given.

RULE No. 6:—(b) Find from table No. 3 the Longitude Correction (L.C) for the difference in longitude between the place P and the place S if the Siderial time available in Ephemeris or Almanac or Panchang is given for S for Standard Time Noon or Standard Time Midnight.

NOTE; The place S mentioned in this rule is the place S mentioned in column 3 in table No .6.

(c) This correction L. C. has to be added to K if the place P is to the west of G or S or to be subtracted from K if the place P is to the east of G or S. (In other words this correction L. C. is positive or negative according as P is to the west or east of G or S) If we do this, we get a total which is H for the required moment

Note :—(1) To say that a positive quantity L. C. is added to K and (2) to say that a negative quantity *i.e.*—L. C. is “algebraically added,” are both one and the same. The second manner of expression “algebraically adding” is generally used in scientific works to secure the uniform use of the word “adding” for both addition and subtraction instead of using “adding” for addition” and “subtracting” for subtraction.

RULE No. 7:—(a) If H is less than 24 hours, H is the required Siderial Time for the required moment for the required place P.

(b) If H is greater than 24 hours, then H minus 24 hours is the required Siderial Time for the required moment for the required place P.

ITEM No. 7:—Calculation of the Siderial Time H at the Required Moment for the Required Place P :—

Clocks are used largely even in small villages at modern times not to speak of towns and cities and human affairs are regulated by ordinary clock times. Clocks show mean times in some places

and in other places they show standard times. In one and the same place some clocks show mean time while other clocks show standard time. There is thus some confusion as regards the times that are being used and an astrologer has to be specially careful to know what kind of time is the time that is furnished to him by the person who consults him. The astrologer who is not familiar with the kind of time that is used in the town or Presidency or Province to which the place of birth etc belongs is often in difficulty as regards the exact nature of time and is therefore likely to commit mistakes. So every person who wants to consult an astrologer or to practise astrology himself must be very careful to know the correct kind of time. My enquiry shows that a Standard Time has for the first time been adopted from 12 Noon on 1-7-1906 A. D. for India and Ceylon and that since then, the whole of India (except Calcutta and Portuguese India) and Ceylon have been using the Indian Standard Time and that Calcutta and Portuguese India have been using both Standard Time and Mean Time or Mean Time or Standard Time in some of the subsequent years. In years prior to the above date local mean times were being used in important towns and Presidency towns and these times were also being used in places adjacent to these towns and presidency towns and in the Railways of the provinces and presidencies. So far as the Madras Presidency is concerned, mean time of the Presidential town of Madras was being used in all the places of the Madras Presidency before Noon on 1-7-1906 A. D. For other places the reader has to find for himself the town or place (say M.) the mean time of which was or is being used in the place P for which (place) Lagna and Bhavas have to be calculated.

SECTION I :—

ITEM No. 8:—*To calculate Siderial Time for any required moment when the required moment is given in Mean Time*

I shall now show the method of calculating the Siderial Time for a required moment expressed in Mean Time:—

Example No. 1 :—The Siderial Time at Greenwich at the Mean Noon of Greenwich on 1-1-1901 A. D. is given as 18 hours

41 minutes 46·05 seconds. Find the Siderial Time at Madras at 10 hours 56 minutes 57 seconds P. M. Madras Mean Time on 1-1-1901 A. D. The longitude of Madras is $80^{\circ} 14' 47''$ 10.

S. T. is used to denote Siderial Time.

N. B. Rough working is given below separately.

$$\begin{array}{l} \text{S. T. at Mean Noon of Greenwich} \\ \text{on 1-1-1901 A. D.} \end{array} \left. \vphantom{\begin{array}{l} \text{S. T. at Mean Noon of Greenwich} \\ \text{on 1-1-1901 A. D.} \end{array}} \right\} = \begin{array}{l} \text{Hrs. ms. sds.} \\ 18-41-46\cdot05 \end{array} (1)$$

$$\begin{array}{l} \text{Siderial interval S. I. for 10 hr. 56 m.} \\ 57 \text{ sds. P. M. (see rough working)} \end{array} \left. \vphantom{\begin{array}{l} \text{Siderial interval S. I. for 10 hr. 56 m.} \\ 57 \text{ sds. P. M. (see rough working)} \end{array}} \right\} = 10-58-44\cdot920(2)$$

$$\text{Adding (1) and (2) we have K.} = 29-40-30\cdot970(3)$$

$$\begin{array}{l} \text{Longitude Correction L. C. for difference} \\ \text{in longitude between Greenwich and} \\ \text{Madras (see rough working)} \end{array} \left. \vphantom{\begin{array}{l} \text{Longitude Correction L. C. for difference} \\ \text{in longitude between Greenwich and} \\ \text{Madras (see rough working)} \end{array}} \right\} = (-)0-00-52\cdot732(4)$$

$$\text{Adding algebraically * (3) and (4) we have H.} = 29-39-38\cdot238(5)$$

$$\begin{array}{l} \text{Subtracting 24 hrs. as 29 hrs. is greater} \\ \text{than 24 hrs.} \end{array} \left. \vphantom{\begin{array}{l} \text{Subtracting 24 hrs. as 29 hrs. is greater} \\ \text{than 24 hrs.} \end{array}} \right\} = 5-39-38\cdot238(6)$$

$\therefore$ The Siderial Time at 10 hrs. 56 m. 57 sds. P. M. at Madras on 1-1-1901 A. D. is 5 hrs. 39 ms. 38·238 sds. = 5 hrs. 39 m. 38 sds. Answer.

N. B.—* Adding algebraically one quantity n (positive or negative) to another quantity m means (1) when n is positive, the quantity n must be added to the quantity m , (2) when n is negative, the quantity n must be subtracted from the quantity m .

ROUGH-WORK.

Example No. (1):—

The local correction D is zero as P and M here coincide

ROUGH WORK for No. 2 :—To find M. I. :— From Rule (2) and Table No. (1) the interval of time M. I. between mean noon and 10 hrs. 56 m. 57 sds. P. M. is 10 hrs. 56 m. 57 sds.

From rule (3) and Table No. 4, the Siderial interval S. I. for 10 hrs. 56 m. 57 sds. is found as follows:—

Hrs.	ms.	sds.	Hrs.	ms.	sds.
For 10-	0-	0,	S. I. =	10-01-	38.565
"	0-56-	0	" ==	0-56-	09.199
"	0-0-	57	" ==	0-00-	57.156

Adding for 10-56-57, S. I. = 10-58-44.920

ROUGH WORK for No. 4:—To find L. C. From Rule 6(a) and Table No. 3.

	H.	ms.	sds.
For 80- 0- 0 L. C. =	0-0-	52.570	
" 0-10- 0 "	=	0-0-00.110	
" 0- 4- 0 "	=	0-0-00.044	
" 0- 0-40 "	=	0-0-00.007	
" 0- 0-07 "	=	0 0-00.001	

Adding for 80-14-47 L. C. = 0-0-52.732

Example (2) :—The Sidereal Time at Greenwich at the Mean Midnight of Greenwich on 1-1-1901 A. D. is given as 18 hrs. 43 ms. 44.33 seconds. Find the Sidereal Time at Madras at 4 hrs. 3 m. 15 sds. P. M. Madras. Mean Time on 1-1-1901 A. D. The longitude of Madras is 80°-14'-47.10

	Hrs.	ms.	sds.	
S. T. at Mean Midnight of Greenwich on } 1-1-1901 A. D.	=	18	43-44.33	(1)
Sidereal interval S. I. for 4 hrs. 3 m. 15 sds. } P. M. (See Rough Working)	=	16-05-	53.238	(2)
Adding (1) and (2) we have K	=	34.49-	37.568	(3)
Longitude Correction L. C. for difference } in longitude between Greenwich and } Madras (See Rough Working)	=	(-10-00-	52.732	(4)
Adding algebraically (3) and (4) we have H.	=	34-48-	44.836	
Subtracting 24 hrs. we have	=	10-48-	44.836	(5)
∴ The Sidereal Time at 4 hrs. 3 m. 15 sds. P. M. at Madras on 1-1-1901 A. D. is 10 hrs. 48 m. 44.836 seconds = 10 hrs. 48 m. 45 sds. Answer.				

ROUGH-WORK.

Example No. 2 :—The local correction D is zero as P and M here coincide. From Rule (2. (b) and Table No. (2) the interval

of time M. L. between mean midnight and 4 hrs. 3 m. 15 sds.
P.M.=16 hrs. 3 m. 15 sds.

From rule (3) and Table No. 4 the sidereal interval S. I. for 16 hrs. 3 m. 15 sds. is found as follows :—

Hrs. m. sds. =		Hrs. m. sds.
For 16-0- 0	S. I. =	16-02-37.704
„ 0-3- 0	„ =	0-03-00.493
„ 0-0-15	„ =	0-00-15.041

Adding for 16-3-15 S. I. = 16-05-53.238

From Rule (b) (1) and Table No. 3 the longitude correction L. C. for difference in longitude is 0-00-52.732 as worked out in example No. 1.

*Example (3) :—*The Sidereal Time at Greenwich at the Mean Noon of Greenwich on 1-1-1901 A. D. is given as 18 hrs. 41 ms. 46.05 seconds. Find the Sidereal Time at Kodaikanal at 10 hrs. 56 ms. 57 sds. P. M. Mean Time (*i.e.*, Madras Mean Time) on 1-1-1901 A. D. The longitude of Kodaikanal is 77°-28'-0"E.

Here the time of 10 hrs. 56 m. 57 sds. P. M. Madras mean time is the time indicated at the required place (P) Kodaikanal by a clock which is set to Madras mean time (*i.e.* the mean time of place M) and not by a clock in Kodaikanal which is set to the local or Kodaikanal mean time. So we have to find from rule (1) (a) the Kodaikanal mean time corresponding to the Madras Mean Time at Kodaikanal. To do this we have to apply the correction D from the table No. 5 for the difference in longitudes between M. and P *i.e.* between Madras and Kodaikanal. The difference between Madras longitude of 80°-14'-47.10" E and Kodaikanal longitude of 77°-28'-0' is 2°-46'-47.10". The correction for this 2°-46'-47.10 from table No. 5 is 0 hr. 11 ms. 07 sds. as shown in the rough-working. This correction has to be subtracted according to rule (c) (3) from 10 hrs. 56 ms. 57 sds. P. M. as Kodaikanal is to the west of Madras. Effecting the subtraction we get 10 hrs. 45 ms. 50 sds. P. M. as the local mean time at Kodaikanal. Then we have to proceed exactly as in Example (1) substituting Kodaikanal for Madras wherever Madras occurs.

	Hrs. ms. sds.	
S. T. at Mean Noon of Greenwich on } 1-1-1901 A. D.	=	18-41-46.05 (1)
Sidereal interval S. I. for 10 hrs. 45 ms. } 50 sds. P. M. (see rough working)	=	10-47-36.094(2)
Adding (1) and (2) we have K.	=	29-29-22.144(3)
Longitude Correction L. C. for difference } in longitude between Greenwich and } Kodaikanal which is 77°-28'-0"	=	(-)0-00-50.908(4)
Adding algebraically (3) & (4) we have H.	=	29-28-31.236(5)
Subtracting 24 hours we have	=	5-28-31.236(6)
∴ The Sidereal Time at Kodaikanal at 10 hrs. 56 ms. 57 sds, P. M. of Madras Mean Time (<i>i.e.</i> 10 hrs. 45 ms. 50 sds P. M. of Kodaikanal mean time) is 5hrs. 28 ms. 31.236sds. or 5 hrs. 28 ms. 31sds. Answer.		

ROUGH-WORK.

From Table No. 5 the correction D for 2°-46'-47".10 is as follows :—

	Hrs. ms. sds.
For 2- 0- 0 D ==	0-08-00
„ 0-46- 0 „ ==	0-03-04
„ 0-00-47 „ ==	0-00-03.133
Adding For 2-46-47, D==	0-11-07.133
	D= 0-11-07 sds.

From Rule (2) (a) and Table No. (1) the interval of time between mean Noon and 10 hrs. 45 ms. 50 sds P. M. = 10 hrs. 45 ms. 50 sds.

S. I. (From rule (3) and Table No. 4) is as follows—

	Hrs. ms. sds.	Hrs. ms. sds.
For 10- 0- 0 S. I. ==	10-01-38.565	
„ 0-45- 0 „ ==	0-45-07.392	
„ 0-00-50 „ ==	0-00-50.137	
Adding for 10-45-50, S. I. ==	10-47-36.094.(2)	

From Rule (6) (a) and Table No. (3)

	°	'	"		Hrs.	ms.	sds.
For	70-	0-0		L. C. =	0-00-	46	00
"	7-00-	0		" =	0-00-	04	60
"	0-20-	0		" =	0-00-	00	220
"	0-08-	0		" =	0-00-	00	088

Adding for 77-28-0, L. C. = 0-00-50'908 (4)

Example 4 :—If the mean time at Greenwich Mid-night is given as in Example No. (2), we have to follow rule No. (2) (b) to find M. I. and proceed as in Example No. (3).

Example 5 :—The Siderial Time at Madras at the Mean Noon of Madras on 1-1-1901 A. D. is given as 18 hrs. 40 ms. 53'318 sds. Find the Siderial Time at Madras at 10 hrs. 56 ms. 57 sds. P. M. Madras mean time on 1-1-1901 A. D. The longitude of Madras is $80^{\circ} 14' 47'' \cdot 10$ E.

In this problem P and G mentioned in rule (6) (a) are one and the same place namely Madras as the Siderial Time is given for Madras.

The longitudinal correction L. C. given in table No. 3 therefore becomes zero as per rule (6) (a).

	Hrs.	ms.	sds	
S. T at Mean noon of Madras on 1-1-1901 A. D. }	=18-40-53'318	—	(1)	
Siderial interval S. I. for 10hrs. 56 ms. 57 sds. P. M. (see rough-work) }	=10-58-44'920	(2)		
Adding (1) and (2) we have K.	=29-39-38'238	(3)		
Longitude Correction L. C.	=0-00-00'000	(4)		
Adding (3) and (4) algebraically H	=29-39-38'238	(5)		
Subtracting 24 hrs. we have	=5-39-39'238	(6)		

$\therefore$ The Siderial Time at 10 hrs. 56 ms. 57 sds. P. M. at Madras on 1-1-1901 A. D. is 5 hrs. 39 ms. 38'238sds. or 5 hrs. 39 ms. 38 sds: Answer.

ROUGH-WORK.

To get Siderial interval S. I. for 10 hrs. 56 ms. 57 sds. P. M see the rough-work for Example No. 1 and rule 3.

*Example (6) :—*The Siderial Time at Madras at Madras Mean Noon on 1-1-1901 A. D. is given as 18 hrs. 40 ms. 53.318 sds. Find the Siderial Time at Kodaikanal at 10 hrs. 56 ms. 57 sds. P. M. mean time (*i.e.* Madras mean time) on 1-1-1901 A. D. The longitude of Kodaikanal is $77^{\circ}-2'-0''$ E.

Here it will be seen from Example (3) that 10 hrs. 56 ms. 57 sds. P. M. Madras Mean time corresponds to 10 hrs. 45 ms 50 sds. P. M. Kodaikanal mean time.

$$\begin{array}{rcl} \text{Hrs. ms. sds.} \\ \text{S. T. at Mean Noon of Madras on } \left. \begin{array}{l} 1-1-1901 \text{ A. D. is} \end{array} \right\} & = 18-40-53.318 & (1) \end{array}$$

$$\begin{array}{rcl} \text{Siderial interval S. I. for 10 hrs. 45 ms.} \\ \text{50 sds. P. M. (see rough-work for } \left. \begin{array}{l} \text{example No. 3.} \end{array} \right\} & = 10-47-36.094 & (2) \end{array}$$

$$\text{Adding (1) and (2) we have K} = 29-28-29.412 \quad (3)$$

$$\begin{array}{rcl} \text{Longitude Correction L. C. from Table} \\ \text{No. 3 for difference in longitude between } \left. \begin{array}{l} \text{Madras and Kodaikanal (see rough-work)} \end{array} \right\} & = + 0-00-01.824 & (4) \end{array}$$

$$\text{Adding algebraically (3) and (4) we have H} = 29-28-31.236 \quad (5)$$

$$\text{Subtracting 24 hrs. we have} = 5-28-31.236 \quad (6)$$

$\therefore$ So the Siderial Time at Kodaikanal at 10 hrs. 56 ms. 57 sds. P. M. Madras Mean Time on 1-1-1901 A. D. is 5 hrs. 28 ms. 31.236 sds. or 5 hrs. 28 ms. 31 sds. Answer.

ROUGH-WORK.

From rule 6 (a) and Table No 3.

Here P is Kodaikanal and Madras is G of rule (3) (a)

$$\begin{array}{rcl} \text{Longitude of Madras} & = & 80-14-47.10 \\ \text{Longitude of Kodaikanal} & = & 77-28-00.00 \\ \text{Difference} & = & 2-46-47.10 \end{array}$$

	°	'	"	Hrs.	ms.	sds.
For 2-	0-	0,	L. C. =	0-00	-01	31
"	0-40-	0,	" =	0-00	-00	440
"	0-06-	0,	" =	0-00	-00	066
"	0-00-	40,	" =	0-00	-00	007
"	0-00-	07,	" =	0-00	-00	001

Adding for 2-46-47 L. C. = 0-00-01.824

*Example (7) :—*The Siderial Time at Greenwich at the Mean Noon of Greenwich on 1-1-1901 A. D. is given as 18 hrs. 41 ms. 46.05 second. Find the Siderial Time at Bombay at 10hrs. 56 ms. 57 sds. P. M. Bombay Mean Time on 1-1-1901 A. D. The longitude of Bombay is 72°-48'-54" E.

Hrs. ms. sds.

S. T. at Mean Noon of Greenwich } = 18-41-46.05 (1)
on 1-1-1901 A. D.

Siderial interval S. I. for 10 hrs. 56 ms. }
57 sds. P. M. Bombay Mean Time } = 10-58-44.920 (2)
(see rough-work)

Adding (1) and (2) we have K = 29-40-30.970 (3)

Longitude Correction L.C. for difference }
in longitude between Greenwich and } = (-) 0-00-47.848 (4)
Bombay (see rough-work)

Adding algebraically (3) and (4) H = 29-39-43.122 (5)

Subtracting 24hrs. we have = 5-39-43.122 (6)

The Siderial Time at 10 hrs. 56 ms. 57 sds. P. M. Bombay Mean Time at Bombay on 1-1-1901 A. D. is 5 hrs. 39 ms. 43.122 sds. or 5 hrs. 39 ms. 43 sds Answer.

ROUGH-WORK.

Here P is Bombay, M is Pombay. As P and M coincide, D of rule (1) (c) (1) is zero

To find M. I.:—10hrs. 56 ms. 57 sds. P. M Bombay Mean Time at Bombay = 10 hrs. 56 ms. 57 sds, from Bombay Mean Noon from Table No. 1 and rule (2) (a).

From Rule (3) and Table No. 4 the Siderial interval S. I. for 10 hrs. 56 ms. 57 sds. is 10 hrs. 58 ms. 44.920 sds. as worked out for Example No. (1).

Longitude Correction L. C. :—

From Rule (6) (a) and Table No. 3, P=Bombay and G = Greenwich.

		Hrs. ms. sds.
For 70-00-00	L C	= 0-00-46.000
" 2-00-00	"	= 0-00-01.310
" 0-40-00	"	= 0-00-00.440
" 0-08-00	"	= 0-00-00.088
" 0-00-50	"	= 0-00-00.009
" 0-00-04	"	= 0-00-00.001

Adding for 72-48-54 L. C. = 0-00-47.848

*Example (8) :—*To calculate the Siderial Time for any Place P in the Bombay Presidency for the required moment of Bombay Mean Time in that place P, proceed as for Kodaikanal using the place P instead of Kodaikanal and Bombay instead of Madras in Example No. 6 *i.e.* In rule (1) and (6) (a), P stands for the place and M Stands for Bombay.

*Example (9) :—*The Siderial Time at Greenwich at the Mean Noon of Greenwich on 1-1-1901 A. D. is given as 18 hrs. 41 ms. 46.05 seconds. Find the Siderial Time at Calcutta at 10hrs. 56 ms. 57 sds. P. M. Calcutta Mean Time on 1-1-1901 A. D. The longitude of Calcutta is 88°-24' E.

	Hrs. ms. sds.
S T at Mean Noon of Greenwich on 1-1-1901 A. D. }	= 18-41-46.05 (1)
Siderial interval S. I. for 10 hrs. 56ms. 57 sds. P. M. Calcutta Mean Time (see rough-work) }	= 10-58-44.920 (2)
Adding (1) and (2) we have K	= 29-40-30.970 (3)
Longitude Correction L.C. for difference in longitude between Greenwich and Calcutta (see rough-work) }	= (-) 0-00-58.094 (4)
Adding algebraically (3) and (4), H	= 29-39-32.876 (5)
Subtracting 24 hrs. we have	= 5-39-32.876 (6)

∴ The Siderial Time at 10 hrs. 56 ms. 57 sds. P. M. Calcutta Mean Time on 1-1-1901 A. D. is 5 hrs. 39 ms. 32.876 sds. or 5 hrs. 39 ms. 33 sds. Answer.

ROUGH-WORK.

Here P = Calcutta and M = Calcutta. So P and M coincide. So D of rule (1) (c) (1) is zero.

To find M. L. :— 10 hrs. 56 ms. 57 sds. P. M. Calcutta Mean Time at Calcutta = 10 hrs. 56 ms. 57 sds. from Calcutta Mean Noon from Table No. (1)

From Rule (3) and Table No. (4) the Siderial interval S.I. for 10 hrs. 56 ms. 57 sds. is 10 hrs. 58 ms. 44.920 sds. as worked out for Example No. 1.

From Rule (6) (a) and Table No. (3) L. C. is:—

	° ' "	Hrs. ms. sds.
For 80- 0-0	L. C. =	0-00-52.57
" 8-00-0	" =	0-00-05.26
" 0-20-0	" =	0-00-00.220
" 0-04-0	" =	0-00-00.044

Adding for 88-24-0, L. C. = 0-00-58.094

Example (10) To calculate the Siderial Time for any place P in the Bengal Province (in which Calcutta is) for the required moment of Calcutta Mean Time in that place P, proceed as for Kodaikanal using the place P for Kodaikanal and Calcutta for Madras *i.e.* using P for Kodaikanal and M for Calcutta in the Example No. (6).

Similarly for any required place in any province in India we can calculate the Siderial Time for a required moment. All that we must do carefully is to find accurately the interval of mean time *i.e.* M. L. of rule (2) that has elapsed between the Mean Noon of the required place and the required moment expressed in Mean Clock Time set to that required place.

FOR ANY PLACE OUT SIDE INDIA such as Ceylon, Burma, Federated Malay States, Mauritius, and South Africa etc:— The methods given above may be used for any place outside India if the clock time followed is Mean Clock Time of that place P or of any important or provincial town corresponding to M to whose mean Noon the Clock is set.

Example (11):—The Siderial Time at Greenwich at the Mean Noon of Greenwich on 1-1-1901 A. D. is given as 18 hrs. 41 ms. 46·05 sds. Find the Siderial Time at Jaffna at 10 hrs. 56 ms. 57 sds. P. M. Madras mean time on 1-1-1901 A. D. The longitude of Jaffna is 80° 00' E

N. B:-- The problem is similar to that of Kodaikanal i.e. Similar to Example No. 6 i.e. we have to substitute Jaffna for Kodaikanal

$$\begin{array}{rcl} & \text{Hrs. ms. sds} & \\ \text{S. T at Mean Noon of Greenwich on } \left. \begin{array}{l} 1-1-1901 \text{ A. D.} \end{array} \right\} & = 18-41-46\cdot05 & (1) \end{array}$$

$$\begin{array}{rcl} \text{Siderial interval S. I. for 10hrs. 55 ms. } \left. \begin{array}{l} 58 \text{ sds. P. M. Jaffna Mean Time (see} \\ \text{rough-work)} \end{array} \right\} & = 10-57-45\cdot759 & (2) \end{array}$$

$$\text{Adding (1) and (2) we have K.} \quad = 29-39-31\cdot809 \quad (3)$$

$$\begin{array}{rcl} \text{Longitude Correction L.C. for difference} \left. \begin{array}{l} \text{in longitude between Greenwich and} \\ \text{Jaffna which is } 80^{\circ}-00' \text{ E} \end{array} \right\} & = (-) 0-00-52\cdot57 & (4) \end{array}$$

$$\text{Adding algebraically (3) and (4) we have H} = 29-38-39\cdot239 \quad (5)$$

$$\text{Subtracting 24 hrs. we have} \quad = 5-38-39\cdot239 \quad (6)$$

∴ The Siderial Time at Jaffna at 10 hrs. 56 ms. 57 sds. P. M. Madras Mean Time on 1-1-1901 A. D. is 5 hrs. 38 ms. 39·239 sds. or 5 hrs. 38 ms. 39 sds. Answer.

ROUGH-WORK.

Here P = Jaffna and M = Madras.

$$\begin{array}{rcl} \text{Longitude of Madras} & = & 80-14-47''\cdot10\text{E} \\ \text{Longitude of Jaffna} & = & 80-00-00 \text{ E} \\ \hline \text{Difference} & = & 0-14-47\cdot10 \end{array}$$

From Table No. 5 the correction D_1 for $0^\circ-14'-47''-10$ is as follows:—

	o	'	"	Hrs.	ms.	sds.
For	0-14-	0	D =	0-00-	56.0	
	„	0-00-47	„ =	0-00-03	133	
Adding For	0-14-47,	D =	0-00-	59	133	
		D =	0-00-	59	sds.	

We have to subtract 0-00-59 sds. from 10 hrs. 56 ms. 57 sds. to get Jaffna Mean Time as Jaffna is to the west of Madras. Subtracting thus we get 10 hrs. 55ms. 58 sds. P. M. as the local Mean Time at Jaffna. $M. L. = 10$ hrs. 55 ms. 58sds. from rule (2)(a)

From Rule (3) and Table No. 4, S. I. =

	Hrs.	ms.	sds.	Hrs.	ms.	sds.
For	10-00-00	S. I. =	10-01-38	565		
„	0 -55-00	„ =	0-55-09	035		
„	0 -00-58	„ =	0-00-58	159		
Adding for	10-55-58,	S. I. =	10-57-45	759		

From rule (6) (a) and Table No. 3, L. C. =

	Hrs.	m.	sds.	Hrs.	m.	sds.
For	80-0-0	L. C. =	0-00-52	57		

SECTION II:—

ITEM No. 9:—*To calculate Siderial Time for any required moment when the required moment is given in Standard Time:—*

In India and Ceylon a time called Indian (or Madras) Standard Time was introduced for the first time from 12 Noon on 1-7-1906 A. D. This time is used in all places in India and Ceylon except Calcutta and Portuguese India. This time is indicated by a clock called Standard Time clock. The Noon represented by this Standard Time clock is called Standard Noon. The difference between the Greenwich Mean Time and this Madras Standard Time

is 5 Hours, 30 minutes. The difference between this Madras Standard Time and Madras mean Time is plus nine minutes and one second *i.e.* the Madras Standard Time is nine minutes and one second in advance of Madras Mean Time. This Standard time corresponds to the local Mean time of a place S (mentioned in Table No. 6) whose longitude is $82^{\circ}-30'$ E and which is to the east of Madras. Standard Times have been in use in several countries such as Burma, Mauritius, Straits Settlements etc, even from before 1-7-1906 A. D. There are Standard times now for Calcutta and Portuguese India. Table No. 6 gives the difference between the Standard Time of some country or town and Greenwich Mean Time, the sign plus being prefixed for places to the east of Greenwich and the sign minus being prefixed for places to the west of Greenwich. The longitude of the place S, to whose Mean Time, the Time Difference T. D. corresponds is given in column 3 of table No. 6. If the clock time given for a place P is a Standard Time, the local Mean Time of the place P can be easily got by applying the correction D from table No. 5 to the difference between the longitude of the place S and the longitude of the place P. If the place P is to the east of S (*i.e.* if the longitude of P is greater than that of S) the correction has to be added to the Standard Time. If the place P is to the west of S (*i.e.* if the longitude of P is less than that of S) the correction has to be subtracted from the Standard Time. If we do this, we will get the local Mean Time of P, when P has an eastern longitude or is to the east of Greenwich, see rule (1) (c) (4).

When once we get the local Mean Time from the given Standard Time our difficulty is over and we can easily calculate the Sidereal Time for the required place for the required moment in Madras Standard Time by following the examples given in Section 1 and by following the rules given already in item No. 6.

Example No. 12 :—The Sidereal Time at the Mean Noon of Greenwich on 7-5-1930 A. D. is given as 2 hours 58 ms. 24^h84 seconds. Find the Sidereal Time at Madras at 4 hours 3 ms. 30 seconds P. M. Madras (*i.e.* Indian) Standard Time on 7-5-1930 A. D. The longitude of Madras is $80^{\circ} 14' 47''-10$ E

First we have to find the local Mean Time at Madras or Madras Mean Time corresponding to 4 hrs. 3 ms. 30 sds. P. M. Standard Time. The longitude of the place S corresponding to Madras Standard Time is $82^{\circ}-30'-00''$ E. as given in table No. 6. The longitude of Madras is $80^{\circ}-14'-47''-10$ E. So the difference in longitudes is $2^{\circ}-15'-12''-90$ or $2^{\circ}-15'-13''$ nearly. The correction D for $2^{\circ}-15'-13''$ from table No. 5 is 0 hrs. 9 ms. 1 sd. of time (see rough work). As Madras is to the west of S, we have to subtract 0 hrs. 9 ms. 1 sd. from 4 hrs. 3 ms. 30 sds. to get Madras Mean Time. If we do so, we get 3 hrs. 54. ms. 29 sds. P. M. Madras Mean Time. Now we have to find the Siderial Time for 3hrs. 54ms. 29sds. P.M. of Madras Mean Time as follows (as in example No. 1).

Hrs. ms. sds.

$$\left. \begin{array}{l} \text{S. T. at Mean Noon of Greenwich} \\ \text{on 7-5-1930 A. D.} \end{array} \right\} = 2-58-24.84 \quad (1)$$

$$\left. \begin{array}{l} \text{Siderial interval S. I. for 3 hrs. 54 ms.} \\ \text{9 sds. P. M. Madras Mean Time (see} \\ \text{rough-work)} \end{array} \right\} = 3-55-07.519 \quad (2)$$

$$\text{Adding (1) and (2) we have K} = 6-53-32.359 \quad (3)$$

$$\left. \begin{array}{l} \text{Longitude Correction L. C. for differ-} \\ \text{ence in longitude between Greenwich} \\ \text{and Madras (see example No. 1)} \end{array} \right\} = (-)0-00-52.732 \quad (4)$$

$$\text{Adding algebraically (3) and (4) we have H} = 6-52-39.627 \quad (5)$$

$\therefore$ the Siderial Time at 4 hrs. 3 ms. 30 sds. P. M. Madras Standard Time at Madras on 7-5-1930 A. D. is 6 hrs. 52 ms. 39.627 sds. or 6 hrs. 52 ms. 40 sds. Answer.

ROUGH-WORK.

To find D. From Rule 1 (c) (2)

$$\begin{array}{rcl} \text{Longitude of S} & = & 82-30-00 \quad \text{E} \\ \text{Longitude of Madras} & = & 80-14-47-10\text{E} \\ \hline \text{Difference} & = & 2-15-12.90 \\ & = & 2-15-13 \end{array}$$

	°	'	"		Hrs.	ms.	sds.
For	2-	0-	0,	D. =	0-08-	00	
"	0-15-	0,	" =	0-01-	00		
"	0-00-	13,	" =	0-00-	0-867		
Adding for	2-15-	13	D. =	0-90-	00-867		
			D. =	0-09-	01	nearly.	

From rule (3) and Table No. 4, S. I.

	Hrs.	ms.	sds.		Hrs.	ms.	sds.
For	3-00-	00,	S. I. =	3-00-	29-569		
"	0-54-	00	" =	0-54-	08-871		
"	0-00-	29	" =	0-00-	29-079		
Adding for	3-54-	29,	S. I. =	3-55-	07-519		

To calculate Longitudinal correction L.C for Madras see rough work for example No. 1. To find L. C, see example No. 1.

Example 13 :—The Siderial Time at Greenwich at the Mean Noon of Greenwich on 7-5-1930 A. D. is given as 2 hrs. 58 ms. 24.84 seconds. Find the Siderial Time at Kodaikanal at 4 hrs. 3 ms. 30 sds. P. M. Madras (i.e. Indian) Standard Time on 7-5-1930 A. D. The longitude of Kodaikanal is 77°-28' E.

We have proceed as in example No. 12.

	Hrs. ms. sds.	
Local Mean Time at Kodaikanal is (see } rough work	=	3-43-22 P. M.
Interval of mean time M. I. For 3 hrs. } 43 ms. 22 sds. P. M. From rule (2) (a) } and Table No. 1. is	=	3-43-22
Now		
S. T. at Mean Noon of Greenwich on } 7-5-1930 A. D.	=	2-58-24.84 (1)
Siderial interval S. I. for 3 hrs. 43 ms. } 22 sds. (See Rough Work)	=	3-43-58.693 (2)
Adding (1) and (2) we have K	=	6-42-23.533 (3)

Longitude Correction L. C. for difference
 in longitude between Greenwich and } $= (-) 0-00-50.908$ (4)
 Kodaikanal is (See Rough Work)

Adding algebraically (3) and (4) we have H. = 6-41-32.625 (5)

∴ The Siderial Time at 4 hrs. 3 m. 30 sds. P. M. Madras
 Standard Time at Kodaikanal is 6 hrs. 41 ms. 32.625 sds. or 6 hrs.
 41 ms. 33 sds. Answer.

ROUGH-WORK.

To Find D from rule (1) (c) (2)

Longitude of S.	=	82-30-00 E	(1)
Longitude of Kodaikanal	=	77-28-00 E	(2)
Difference between (1) and (2)	=	5-02-00	(3)

To Find Local Mean Time from table 5 and rule. (1)

			H. ms. sds.
„	5-00-00,	„	= 0-20-00
„	0-02-00,	„	= 0-00-08
	5-02-00,	D	= 0-20-08 (4)

∴ So Local Mean Time is got by subtracting 0 hrs. 20 ms. 08 sds. from 4 hrs. 3 ms. 30 sds. as Kodaikanal is west of S.

Madras Standard Time = 4 hrs. 3 ms. 30 sds P. M,

Local Correction = 0 hrs. 20 ms. 08 sds.

∴ Local Mean Time at Kodaikanal = 3 hrs. 43 ms. 22 sds. P. M.

To Find Siderial Interval S. I. from rule 3 and Table No. 4
 for 3 hrs. 43 ms. 22 sds.

Hrs. ms. sds		Hrs. ms. sds,
3-00-00	=	3-00-29.569
0-43-00	=	0-43-07.064
0-00-22	=	0-00-22.060
3-43-22, S. I.	=	3-43-58.693

Longitudinal Correction L. C. for 77°-23' E from table 3 and rule (6) (a).

	°	'	"	Hrs.	ms.	sds.
70-00-00	=			0-00-46	00	
7-00-00	=			0-00-04	60	
0-20-00	=			0-00-00	220	
0-08-09	=			0-00-00	088	
77-28-0	=			0-00-50	908	

Example No. 14:—The Siderial Time at Greenwich at the Mean Noon of Greenwich on 7-5-1930 A. D. is given as 2 hrs. 58 ms. 24.84 sds. Find the Siderial Time at Jaffna at 4 hrs. 3ms. 30 sds. P. M. Madras (*i. e.* Indian) Standard Time on 7-5-1930 A. D. The longitude of Jaffna is 80°-0' ms.

We have to proceed as in Example No. 12

Local Mean Time at Jaffna is (see rough work) } = 3-53-30 P. M. Hrs. ms. sds.

Interval of Mean Time M. L. for 3 hrs. 53 ms. 30 sds. P. M. from table No. 1 is } = 3-53-30

Now

S. T. at Mean Noon of Greenwich } = 2-58-24.84 (1)
on 7-5-1930 is

Siderial interval S. I. for 3 hrs. 53 ms. 30 sds. (see rough work) } = 3-54-08.358 (2)

Adding (1) and (2) we have K. = 6-52-33.198 (3)

Longitude Correction L. C. for difference in longitude between Greenwich and Jaffna is (see rough work) } = (-)0-00°-52'57 (4)

Adding algebraically (3) and (4) we have H = 6-51-40.628(5)

∴ The Siderial Time at 4 hrs. 3 ms. 30 sds. P. M. Madras (*i. e.* Indian) Standard Time at Jaffna on 7-5-1930 A. D. is 6 hrs. 51 ms. 40.628 sds, or 6 hrs. 51 ms. 41 sds. Answer.

ROUGH-WORK.

To find D from rule (1) (c) (2)

Longitude of S	=	82-30-0 E (1)
Longitude of Jaffna	=	80-00-0 E (2)
Difference between (1) and (2)	=	2-30-0 (3)

To find Local Mean Time from table 5

		Hrs. ms. sds.
For 2-00-00 D	=	0-08-00
„ 0-30-00 „	=	0-02-00

Adding for 2-30-0, D= 0-10-00

Local Mean Time = 4 hrs. 3 m. 30 sds. P. M. minus 0 hr.
 10 ms. 00 sd. = 3 hrs. 53 m. 30 sds. P. M.

To find Siderial Interval S. I. for 3 hrs. 53 m. 30 sds. from table No. 4 & rule (3)

	Hrs. ms. sds.	Hrs. ms. sds.
For 3-00-00 S. I.	=	3-00-29.569
„ 0-53-00 „	=	0-53-08.707
„ 0-00-30 „	=	0-00-30.082

Adding for 3-53-30, S. I. = 3-54-08.358

To find Longitude Correction L. C. for 80°-0' E from Table 3 and rule (6) (a).

	Hrs. m. sds.	Hrs. m. sds.
For 80-0-0 L. C.	=	0-00-52.57

Example No. 15 :—The Siderial Time at Greenwich at the Mean Noon of Greenwich on 7-5-1930 A. D. is given as 2 hours. 58 ms. 24.84 seconds. Find the Siderial Time at Bombay at 4 hours. 3 ms. 30 seconds. P. M. Madras (*i.e.* Indian) Standard Time on 7-5-1930 A.D. The longitude of Bombay is 72°-48'-54"E.

We have to proceed as in Example No. 12.

Hrs. ms. sds.

Local Mean Time at Bombay is (see } = 3-24-46 P. M.
 • rough work

Interval of Mean Time M. I. for 3 hrs. }
 24 ms. 46 sds. P. M. from Table } = 3-24-46
 No. 1. is

S. T. at Mean Noon of Greenwich on } = 2-58-24.84 (1)
 7-5-1930 is

Sidereal interval S. I. for 3 hrs. 24 ms. } = 3-25-19.638 (2)
 46 sds. (See rough work)

Now

Adding (1) and (2) we have K = 6-23-44.478 (3)

Longitude Correction L. C. for differ- }
 ence in longitude between Greenwich } = (-)0-00-47.848 (4)
 and Bombay.

Adding algebraically (3) and (4) we have H = 6-22-56.630 (5)

∴ The Sidereal Time at 4 hrs. 3 ms. 30 sds. P. M. Madras (*i.e.* Indian) Standard Time at Bombay on 7-5-1930 A. D. is 6 hrs. 22 ms. 56.63 sds. or 6 hrs. 22 ms. 57 sds. Answer.

ROUGH-WORK.

To find D. from rule 1 (c) (2)

	° ' "	Hrs. ms. sds.
Longitude of S	= 82-30-00	E (1)
Longitude of Bombay	= 72-48-54	E (2)
Difference between (1) and (2)		= 9-41-06 (3)
	° ' "	Hrs. ms. sds.
For 9-00-00, D.	= 0-36-00	
„ 0-41-00, „	= 0-02-44	
„ 0-00-06, „	= 0-00-00.4	
Adding for 9-41-06		D. = 0-38-44.4

Local mean time = 4 hrs. 3 m. 30 sds. P. M. minus 0 hr. 38 m. 44.4 sds. = 3 hrs. 24 m. 45.6 sds. = 3 hrs. 24 m. 46 sds.

To find Siderial Interval S. I. for 3 hrs. 24 m. 46 sds. from rule (3)

	Hrs. ms. sds.		Hrs. ms. sds.
For	3-00-00, S. I. =		3-00-29.569
"	0-24-00 " =		0-24-03.943
"	0-00-46 " =		0-00-46.126
Adding for	3-24-46, S. I. =		3-25-19.638

Longitude Correction L. C. for $72^{\circ} 48' 54''$ E from Table 3 and rule (6) (a)

° ' "		Hrs. ms. sds.
For 70-00-00	L C =	0-00-46.00
" 2-00-00	" =	0-00-01.31
" 0-40-00	" =	0-00-00.440
" 0-08-00	" =	0-00-00.088
" 0-00-50	" =	0-00-00.009
" 0-00-04	" =	0-00-00.001
Adding for 72-48-54	L. C. =	0-00-47.848

Example 16 :—The Siderial Time at Greenwich at the Mean Noon of Greenwich on 7-5-1930 A. D. is given as 2 hrs. 58 ms. 24.84 seconds. Find the Siderial Time at Calcutta at 4 hrs. 3 ms. 30 sds. P. M. Calcutta Standard Time (*i.e.* not Madras Standard Time) on 7-5-1930 A. D. The longitude of Calcutta is $88^{\circ}-24'$ E.

We have to proceed as in example No. 12.

	Hrs. ms. sds.
Local Mean Time at Calcutta is (sec } = 4-35-45 P. M.	
rough work	

Interval of Mean Time M. I. for 4 hrs. } = 4-35-45	
35 ms. 45 sds. P. M. from Table	
No. 1	

Now

S. T. at Mean Noon of Greenwich } = 2-58-24.84 (1)	
on 7-5-1930 A. D. is	

$$\left. \begin{array}{l} \text{Siderial interval S. I. for 4 hrs. 35 ms.} \\ 45 \text{ sds. (see rough-work)} \end{array} \right\} = 4-36-30.299 \quad (2)$$

$$\text{Adding (1) and (2) we have K} = 7-34-55.139 \quad (3)$$

$$\left. \begin{array}{l} \text{Longitude Correction L.C. for difference} \\ \text{in longitude between Greenwich and} \\ \text{Calcutta (see rough-work)} \end{array} \right\} = (-) 0-00-58.094 \quad (4)$$

$$\text{Adding algebraically (3) and (4), we have} = 7-33-57.045 \quad (5)$$

∴ The Sidcrial Time at 4 hrs. 3 ms. 30 sds. P. M. Calcutta Standard Time at Calcutta on 7-5-1930 A. D. is 7 hrs. 33 ms. 57.045 sds. or 7 hrs. 33 ms. 57 sds. Answer.

ROUGH-WORK.

To find D from rule (1) (c) (2)

$$\begin{array}{rcl} \text{Longitude of S.} & = & 80-20-12 \text{ E} \quad (1) \end{array}$$

$$\begin{array}{rcl} \text{Longitude of Calcutta} & = & 88-24-00 \text{ E} \quad (2) \end{array}$$

$$\begin{array}{rcl} \text{Difference between (1) and (2)} & = & 8-03-48 \quad (3) \end{array}$$

To find Local Mean Time from table 5

$$\begin{array}{rcl} \text{For 8-00-00} & \text{D} = & 0-32-00 \\ \text{" 0-03-00,} & \text{"} = & 0-00-12 \\ \text{" 0-00-48,} & \text{"} = & 0-00-03.2 \end{array}$$

$$\text{Adding for 8-03-48, D} = 0-32-15.2$$

Local Mean Time = 4 hrs. 3 ms. 30 sds. P.M. plus 0-32-15.2 as Calcutta is to the east of S. = 4 hrs. 35 ms. 45.2 sds. = 4 hrs. 35 ms. 45 sds.

To find Siderial Interval S. I. for 4 hrs. 35 ms. 45 sds. from Table No. 4 and rule 3

$$\begin{array}{rcl} \text{Hrs. ms. sds.} & & \text{Hrs. ms. sds.} \\ 4-00-00 & = & 4-00-39.426 \\ 0-35-00 & = & 0-35-05.750 \\ 0-00-45 & = & 0-00-45.123 \\ \hline 4-35-15, \text{ S. I.} & = & 4-36-30.299 \end{array}$$

To find Longitude correction L. C. for $88^{\circ}-24'$ E from table 3 and rule (b) (a)

		Hrs. ms. sds.
For 80-00-00 L. C. =		0-00-52.57
„ 8-00-00 „ =		0-00-05.26
„ 0-20-00 „ =		0-00-00.220
„ 0-04-00 „ =		0-00-00.044

Adding for 88-24-00, L. C. = 0-00-58.094

Example 17:—The Siderial Time at Greenwich at the Mean Noon of Greenwich on 7-5-1930 A. D. is given as 2 hrs. 58 ms. 24.84 sds. Find the Siderial Time at Mauritius at 4 hrs. 3 ms. 33 sds. P. M. Mauritius Standard time (*i. e.* neither Madras nor Calcutta Standard time) on 7.5-1930 A. D. The longitude of Mauritius is $57^{\circ} 33' 9''$ E

We have proceed as in example No. 12.

Local Mean Time at Mauritius is (See } Hrs. ms. sds.
rough work } = 3-53-43 P. M.

Interval of Mean Time for 3 hrs. 53 ms. }
43 P. M. from table N. 1 } = 3-53-43

Now

S. T at Mean Noon of Greenwich on }
7-5-1930 A. D. is } = 2-58-24.84 (1)

Siderial interval for 4 hrs. 53 ms. }
43 sds. (see rough-work) } = 3-54-21.394 (2)

Adding (1) and (2) we have = 6-52-46.234 (3)

Longitude Correction for difference }
in longitude between Greenwich and } = (-) 0-00-37.815 (4)
Mauritius (See Rough Work) }

Adding algebraically (3) and (4) we have = 6-52-08.419 (5)

$\therefore$ The Siderial Time at 4 hrs. 3 ms. 30 sds. P. M. Mauritius Standard Time at Mauritius on 7-5-1930 A. D. is 6 hrs. 52 ms. 08.419 sds. or 6 hrs. 52 ms. 08 sds. Answer.

ROUGH-WORK.

To find D from rule (1) (c) (2)

	° ' "	
Longitude of S	= 60-00-00 E (1)	
Longitude of Mauritius	= 57-33-09 E (2)	
Difference between (1) and (2)	= 2-26-51	

To find Local Mean Time from table 5

	° ' "	H. ms. sds.
For 2-00-00	D =	0-08-00
" 0-26-00	" =	0-01-44
" 0-00-51	" =	0-00-03.4
Adding for 2-26-51	D =	0-09-47.4

Local Mean Time = 4 hrs. 3 ms. 30 sds. minus 0-09-47.4
 = 3-53-42.6 P. M. = 3 hrs. 53 ms. 43 sds. P. M.

To find Sidereal Interval S. I. for 3 hrs. 53 ms. 43 sds. from
 table 4 and rule 3.

	Hrs. ms. sds.	Hrs. ms. sds.
For 3-00-00	S. I. =	3-00-29.569
" 0-53-00	" =	0-53-08.707
" 0-00-43	" =	0-00-43.118
Adding for 3-43-34	S. I. =	3-54-21.394

Longitude Correction L. C. for 57°-33'-9" E from Table
 No. 3 and rule 6 (a)

	° ' "	Hrs. ms. sds.
For 50-00-00	L. C. =	0-00-32.85
" 7-00-00	" =	0-00-04.60
" 0-30-00	" =	0-00-00.330
" 0-03-00	" =	0-00-00.033
" 0-00-09	" =	0-00-00.002
Adding for 7-33-09	L. C. =	0-00-37.815

*Example (18) :—*The Siderial Time for Madras at the Midnight of 14-4-1938 A. D. Madras (*i. e.* Indian) Standard Time is given in a certain panchang as 13 hrs. 16 ms. 7 sds. Find the Siderial Time at Madras at 4 hrs. 3 ms. 56 sds. P. M. Madras (*i. e.* Indian) Standard Time. The longitude of Madras is given as $80^{\circ}-14'-47''-10$ E.

The midnight of 14-4-1938 is the midnight with which the day with date 14-4-1938 commences *i. e.* the midnight which is eight hours immediately before and not the midnight which is 16 hours after 8 A. M. on 14-4-1938. Here the given Siderial Time is for Madras and not for Greenwich and is also for Madras Standard time midnight and not for Greenwich Mean Noon or Madras Mean Noon or Madras Mean Midnight.

We have to proceed as follows.

Here *Longitude Correction* has to be made from rule (6) (b) and with Table No. 3 for the difference between the longitude of Madras (S) for which Siderial Time is given (and not of Greenwich as before) and the longitude of the required place P namely Madras. As the difference in longitude between the longitude of the place for which Siderial Time is given and the longitude of the required place is zero (as these two places are one and the same), the longitude correction becomes zero. If for example the required place is taken as Kodaikanal, then the required place Kodaikanal and Madras for which Siderial Time is given become different places and there will then be some value for longitude correction. *This Correction will be positive or negative as stated in rule (6) (b).* Table No. 2 and not Table No. 1 has to be used as the given Siderial Time here is for Midnight. Table No. 1 should be used only when the given Siderial Time is for Noon.

$$\begin{array}{l}
 \text{Local Mean Time at Madras for 4 hrs.} \\
 \quad 3 \text{ ms. } 30 \text{ sds. P. M. Madras Standard} \\
 \quad \text{Time is (see rough work)}
 \end{array}
 \left. \vphantom{\begin{array}{l} \text{Local Mean Time at Madras for 4 hrs.} \\ \text{3 ms. 30 sds. P. M. Madras Standard} \\ \text{Time is (see rough work)} \end{array}} \right\} = 3-54-29 \text{ P. M.}$$

$$\begin{array}{l}
 \text{Interval of Mean Time for 3 hrs.} \\
 \quad 54 \text{ ms. } 29 \text{ sds. from Midnight accord-} \\
 \quad \text{ing to Table No. 2 is}
 \end{array}
 \left. \vphantom{\begin{array}{l} \text{Interval of Mean Time for 3 hrs.} \\ \text{54 ms. 29 sds. from Midnight accord-} \\ \text{ing to Table No. 2 is} \end{array}} \right\} = 15-54-29$$

	Hrs. ms. sds.	
S. T at Midnight of Madras on 14-4-1938	= 13-16-07	(1)
Siderial interval for 15 hrs. 54 ms. 29 sds. is (see rough work)	} = 15-57-05.797(2)	
Adding (1) and (2) we have	= 29-13-12.797(3)	
Longitude Correction L. C. for difference in longitude between the place for which Siderial Time is given and the required place	} = 0-00-00	(4)
Adding algebraically (3) and (4) we have	= 29-13-12.797(5)	
Subtracting 24 hours we have	= 5-13-12.797(6)	

∴ The Siderial Time at 4 hrs. 3 ms. 30 sds. P. M. Madras Standard Time at Madras on 14-4-1938 A. D. is 5 hrs. 13 ms. 12.797 sds. or 5 hrs. 13 ms. 13 sds. Answer.

ROUGH-WORK.

To find D from rule 1 (c) (2) and to find Local Mean Time.

Longitude of S.	= 82-30-00	E (1)
Longitude of Madras	= 80-14-47.10E	(2)
Difference between (1) and (2)	= 2-15-12.90	(3)
	= 2-15-13	(4)

From table No. 5

	Hrs. ms. sds.		Hrs. ms. sds.
For 2-00-00	D.	=	0-08-00
„ 0-15-00	„	=	0-01-00
„ 0-00-13	„	=	0-00-00.867
Adding for 2-15-13, D.		=	0-09-00.867
	D	=	0-09-01

Local Mean Time = 4 hrs. 3 ms. 30 sds. P. M. minus 0-09-01 = 3 hrs. 54 ms. 29 sds. P. M.

To find interval of Mean Time M. T. for 3 hrs. 54 m. 29 sds. P. M. use Table No. 2 as we have to count from Mid-night and not from Noon as the given Siderial Time is for Mid-night. If we do so, we get 15 hrs. 54 ms. 29 sds. as the interval

To find Siderial Interval S. I. for 15 hrs. 54 ms. 29 sds. from Table No. 4.

Hrs. ms. sds.	Hrs. ms. sds.
For 15-00-00 S. I.	= 15-02-27.847
„ 0-54-00 „	= 0-54-08.871
„ 0-00-29 „	= 0-00-29.079
Adding for 15-54-29 S. I.	= 15-57-05.797

To find Longitude Correction L. C. from Table No. 3 and rule (6) (b) for the difference in longitude between the place (*i.e.* Madras) for which Siderial Time is given and the required place (*i.e.* Madras).

		o , "
Longitude of the place for which Siderial Time is given is	}	= 80-14-47.10 E (1)
Longitude of the required place <i>i. e.</i> the same place Madras	}	= 80-14-47.10 E (2)
Difference between (1) and (2)		= 0-00-00 (3)

As No. 3 is zero, the Longitude Correction L. C. is zero. The Longitude Correction will be zero when the place for which the Siderial Time is given and the required place are the same. Please note this carefully.

To enable the reader to have a clear idea of the several kinds of problems that may present themselves to the reader, I have given many examples purposely. By following these examples and the rules given hitherto, the Siderial Time for any required place for any required moment can be easily calculated.

(Insert this between Item No. 7 and Item No. 8 as Item No 7 A)

THE GENERAL METHOD OF FINDING SIDERIAL
TIME FOR ANY PLACE IN THE WORLD..

ITEM No 7 (A):—

The General Method of finding Siderial Time consists of :—

(1) finding the Siderial Time at the local mean noon or midnight at the required place P from the given Siderial Time at the local mean noon or midnight of a standard place G like Greenwich, Madras, Paris, Berlin, San Fernando and Washington for which Siderial Times are usually given in Panchangs or Nautical Almanacs.

(2) finding the local meantime of the required place P for the required moment.

(3) finding then the clock time interval between the local mean noon or local mean midnight and the local mean time of the required place P. for the required moment.

(4) finding then the siderial time interval corresponding to the clock time interval calculated in item No. 7 A (3) above.

(5) finding then the sum of the Siderial Time at the local mean noon or midnight at the required place P found in item No. 7 A (1) and the siderial time interval found in item No. 7 A (4). This sum gives the required Siderial Time at the required or given moment at the required place P.

(6) To find the local Siderial Time at the local mean noon or midnight at the required place P. :—

Let the Siderial Time given at mean Noon of Greenwich or any place G be n . Let the Siderial Time given at mean Midnight of Greenwich or any place G be m . Let the longitude of the place P be l and the difference in longitude between l and the longitude of Greenwich (or any place G for which siderial time at noon or midnight is given) be q . Then find the longitude correction L. C. from table No. 3. for q .

Then $n - L$. C. is the Siderial Time (s) at mean noon of P if P is to the east of Greenwich or G.

Then $n + L$. C. is the Siderial Time (s) at mean noon of P if P is to the west of Greenwich or G.

Then $m - L$. C. is the Siderial Time (s) at mean midnight of P if P is to the east of Greenwich or G.

Then $m + L$. C. is the Siderial Time (s) at mean midnight of P if P is to the west of Greenwich or G.

(7) If the required moment or given moment is expressed in terms of the local mean time of the required place P, use the given time itself as the local mean time.

(8) (a) If the time used in the required place P is the mean time or standard time used in a Province or Presidency or any tract of land, find the time difference between this mean time or standard time and the Greenwich Mean Time as the case may be. Let this time difference be t in clock time t being always a positive quantity. And let the required moment or given moment be k .

(8) (b) If the required place P is to the east of Greenwich (*i.e.* if P has an eastern longitude) then the Greenwich Mean Time corresponding to the given moment k is equal to $(k - t)$.

(8) (c) If the required place P is to the west of Greenwich (*i.e.* if P has a western longitude) then the Greenwich Mean Time corresponding to the given moment k is equal to $(k + t)$.

(8) (d) Let the longitude of the required place P be l . Then find from table No. 5 the correction (D) for l which is also the difference in longitude between the required place P and Greenwich.

Then $(k - t) + D$ will be the local mean time at P for the moment k if P has an eastern longitude.

Then $(k + t) - D$ will be the local mean time at P for the moment k if P has a western longitude.

(9) Then find the clock time interval (M. I.) from Table No. 1 or table No. 2 for $k - t + D$ or $k + t - D$ as the case may be.

(10) Then find from Table No. 4 the Sidereal Time interval (S. I.) for M. I. found in item No. 7 A (9) above.

(11) Then the required sidereal time for the required place P at the required moment k is equal to the sum of s found in item No. 7 A (6) and S. I. found in item No. 7 A (10) above. i. e., the required Sidereal Time (H) = s + S. I. If s + S. I. is greater than 24 hours, subtract 24 hours and the remainder is then the required sidereal time.

Example (a). The Sidereal Time at the Mean Noon of Greenwich on 7-5-1930 A. D. is given as 2 hours, 58 ms, 24.84 seconds. Find the Sidereal Time at Madras at 4 hours, 3 ms, 30 seconds P. M. Indian Standard Time on 7-5-1930 A. D. The longitude of Madras is $80^{\circ}-14'-47''-10$ E. The longitude of Greenwich is $0^{\circ}-0'-00''$.

Hrs. ms. sds.

Sidereal Time at Greenwich Noon = $n = 2\ 58-24.84$ (1)

The longitude correction from }
Table No. 3 (See rough work) } = L. C. = $0\ 00-52.732$ (2)

$\therefore$ Sidereal Time (s) at Mean Noon }
of P, by subtracting (2) from (1) } = $n - L.C. = 2\ 57-32.108(3) = s$

We know that the time difference between the Indian Standard Time and the Greenwich Mean Time is 5 hrs. 30 ms
So $t = 5$ hrs. 30 ms.

Here the required moment = $k = 4$ hrs. 3 ms. 30 sds. (4)

Time difference $-t = 5$ hrs. 30 ms. 0 sd. (5)

$\therefore$ $k - t = 22$ hrs. 33 ms. 30 sds. (6) by
adding 24 hrs. to (4) and subtracting (5) from the sum.

Hrs. ms. sds.

The correction D for l the difference }
in longitude between P and }
Greenwich (see rough work) } = $D = 5-20\ 59.133$ (7)

$\therefore$ Adding (6) and (7), $k - t + D = 27-54-29.133$ P.M.

$= 3-54-29.133$ P.M

$= 3-51-29$ P.M. (8)

$$\begin{array}{l} \text{The clock time interval M. I. from} \\ \text{table No. 1 for 3-54-29 P.M.} \end{array} \left. \vphantom{\begin{array}{l} \text{The clock time interval M. I. from} \\ \text{table No. 1 for 3-54-29 P.M.} \end{array}} \right\} \begin{array}{l} \text{Hrs. ms. sds.} \\ \text{M.I.} = 3-54-29 \end{array} \quad (9)$$

$$\begin{array}{l} \text{The Sidereal Time interval S. I. from} \\ 3 \text{ hrs. 54 ms. 29 sds. (See rough} \\ \text{work)} \end{array} \left. \vphantom{\begin{array}{l} \text{The Sidereal Time interval S. I. from} \\ 3 \text{ hrs. 54 ms. 29 sds. (See rough} \\ \text{work)} \end{array}} \right\} = \text{S. I.} = 3-55-07.519 \quad (10)$$

$$\begin{array}{l} \text{Sidereal Time H for the required} \\ \text{moment k at P, by adding (3) and} \\ (10) \end{array} \left. \vphantom{\begin{array}{l} \text{Sidereal Time H for the required} \\ \text{moment k at P, by adding (3) and} \\ (10) \end{array}} \right\} = \text{H} = 6-52-39.627 \quad (11)$$

$$\therefore \text{the required Sidereal Time} = 6-52-39.627$$

We have got this result in Example No. 12 in another way.

ROUGH-WORK.

To find L. C. from Table No. 3

$$\begin{array}{rcl} & & \circ \quad , \quad " \\ \text{Longitude of Madras} & = & 80-14-47.10 \text{ E} \\ \text{Longitude of Greenwich} & = & 0-00-00 \\ \hline \text{Difference in Longitude} = q & = & 80-14-17.10 \text{ E} \end{array}$$

$$\begin{array}{rcl} & & \circ \quad , \quad " \\ \text{From Table 3} & \text{for} & 80-00-00 \text{ L. C.} = 52.57 \text{ sds.} \\ & " & 0-10-00 \quad " = 00.110 \quad " \\ & " & 0-04-00 \quad " = 00.044 \quad " \\ & " & 0-00-40 \quad " = 00.007 \quad " \\ & " & 0-00-07 \quad " = 00.001 \quad " \\ \hline \end{array}$$

$$\text{Adding for } 80-14-47, \text{ L. C.} = 52.732 \text{ sds.} \quad (2)$$

To find D From Table No. (5)

$$\begin{array}{rcl} & & \circ \quad , \quad " \\ \text{Longitude of Madras} & = & 80-14-47.10 \text{ E} \\ \text{Longitude of Greenwich} & = & 0-00-00 \\ \hline \text{Difference in Longitude} = l & = & 80-14-47.10 \text{ E} \end{array}$$

	° ' "	Hrs. ms. sds.
From Table No. 5 for 80-00-00	D. =	5-20-00
„ 0-14-00	„ =	0-00-56
„ 0-00-47	„ =	0-00-03.133

Adding for 80-14-47, D. = 5-20-59.133(7)

To find the Siderial Time Interval S. I. for Clock time interval of 3 hrs. 54 ms. 29 sds. from table 4.

	Hrs. ms. sds	Hrs. ms. sds.
From Table No. 4 for M. I. = 3-00-00	S. I. =	3-00-29.569
„ 0-54-00	„ =	0-54-08.871
„ 0-00-29	„ =	0-00-29.079

Adding for M.I. = 3-54-29, S .I. = 3-55-07.519 (10)

SECTION III :—

FOR NORTHERN LATITUDE.

ITEM No. 10.—Hitherto we have dealt with the question of calculating the Siderial Time for a required place for the required moment. This required place is the place for which we have to calculate (1) Lagna (*i.e.* Udaya Lagna or Ascendant) and (2) the approximate middle points of the several Indian Bhavas (*i.e.* the exact Cusps of several houses of European Astrology). This required moment is the moment of Birth or the moment of any muhurtha or the moment of any prasna for which we have to calculate the Udaya Lagna (*i.e.* Ascendant) and the approximate middle points of the several Indian Bhavas (*i.e.* the exact cusps of several houses of European Astrology). I shall illustrate the method of calculation by taking a concrete example with the help of Table No. 9. Table No. 9 gives the Tropical longitudes of Udaya Lagna (*i.e.* Ascendant) and the Dasama Lagna or the approximately middle point of the Indian tenth Bhava (*i.e.* the exact cusp of the tenth house of European Astrology.) for a given integral latitude from 0° degree to 36° North and South and for an interval of 12 minutes of Siderial Time from 0 hour to 24 hours of Siderial

Time. For intermediate latitudes and sidereal times we have to make calculation by the rule of three.

Example 19 :—Calculate the longitude of Udaya Lagna (i.e. Ascendant) and of Dasama Lagna or the approximate Middle Point of the Indian Tenth Bhava for Madras at 4 hrs. 3 ms. 30 sds. P. M. Madras (i.e. Indian) Standard Time on 7-5-1930 A. D. The latitude of Madras is $13^{\circ}-04'$ North and the longitude of Madras is $80^{\circ}-14'-47''-10$ E.

First :—We have to calculate the Sidereal Time at 4 hrs. 3 ms. 30 sds. P. M. Indian Standard Time on 7-5-1930 A. D. It will be seen from Example No. 12 that the Sidereal Time for the required place Madras and the required moment is 6 hrs. 52 ms. 40 sds.

Secondly :—We have now to calculate the Udaya Lagna and Dasama Lagna for the Sidereal Time of 6 hrs. 52 ms. 40 sds. for the latitude of $13^{\circ}-04'$ which is the latitude of Madras.

PART A :—We shall now enter the table No. 9 :—The latitude of $13^{\circ}-04'$ North is between the latitude of 13° N and 14° N. The calculated Sidereal Time of 6 hrs. 52 ms. 40 sds. is between 6 hrs. 48 ms. and 7 hrs. 00 ms. We have to enter the figures for Udaya Lagna in the table No. 9 against these 6 hrs. 48 ms. and 7 hrs. 00 ms. and also against 13° N and 14° N as shown below in the Udaya Lagna Longitude Table constructed

for this example. Now, first take
Constructed Udaya Lagna the Sidereal Time only, ignoring
Longitude Table from table 9 the latitude and find by propor-

Sidereal Time		Latitude	
Hr.	Ms.	13° N	14° N
6	48	$191^{\circ}-53'$	$191^{\circ}-48'$
7	00	$194^{\circ}-50'$	$194^{\circ}-43'$

tion (i.e. rule of three) the Udaya Lagna longitude for the calculated Sidereal Time of 6 hrs. 52 ms. 40 sds. taking the longitude for 6 hrs. 48 ms. and 7 hrs. 00 ms. as $191^{\circ} 53'$ and $194^{\circ}-50'$. The Udaya

Lagna for 6 hrs. 52 ms. 40 sds. becomes $193^{\circ}-02'$ as shown in the rough work No. (1). Similarly find by proportion the Udaya Lagna longitude for the calculated Sidereal Time of 6 hrs. 52 ms.

40 sds. taking the longitudes for 6 hrs. 48 ms. and 7 hrs. 00 m. as $191^{\circ}-48'$ and $194^{\circ}-43'$. If we do so, we get the Udaya Lagna for 6 hrs. 52 ms. 40 sds. as $192^{\circ}-56'$. The problem has now been reduced to this, namely, find the Udaya Lagna longitude for $13^{\circ}-04'$ N. when the Udaya Lagna longitudes for latitudes 13° N and 14° N are $193^{\circ}-02'$ and $192^{\circ}-56'$ respectively. So by rule of three, the Udaya Lagna longitude for $13^{\circ}-04'$ N becomes $193^{\circ}-01'-36'$ as shown in the rough work No. 3. So the Udaya Lagna longitude for the calculated Siderlal Time of 6 hrs. 52 ms. 40 sds. for the latitude of $13^{\circ}-04'$ of Madras is $193^{\circ}-01'-36'$. This longitude is Tropical longitude or sayana longitude. If we subtract ayanamsa for 7-5-1930 A. D. from Tropical longitude we will get the Nirayana Longitude or the Indian Siderial Longitude for the required moment of 4 hrs. 3 ms. 30 sds. P. M. Indian Standard Time on 7-5-1930 A. D. at Madras.

ROUGH WORK No. 1.

	Siderial Time in		
	Hr. M. Sds.		
S. T. calculated	=	6-52-40	(1)
S. T. in the Table	=	6-48-00	(2)
Difference between (1) and (2)	=	0-04-40	(3)
	=	280 sds.	(4)
Udaya Lagna Longitude is			
For S. T. 7 hrs. 00 m.	...	$194^{\circ}-50'$	(5)
„ S. T. 6 hrs. 48 m.	...	$191^{\circ}-55'$	(6)
„ S. T. difference of 0 hrs. 12 m.		$2^{\circ}-55'$	(7) (i.e.) (5) - (6)
„ or S. T. 720 sds,	=	or 177'	(8)
„ 280 sds. (4)	=	$\frac{177 \times 280}{720}$	
	=	69 ms.	
	=	$1^{\circ}-09'$	(9)
Adding (6) and (9) we get } for 6 hrs. 52 m. 40 sds. }		$193^{\circ}-02'$	(10)

ASTROLOGICAL TABLES OF

ROUGH WORK No. 2.

Udaya Lagna

Sidereal Time

Hrs. m. sds.

S. T. calculated ... 6-52-40 (1)

S. T. in the table ... 6-48-00 (2)

Difference between (1) and (2) 0-04-40 (3)

= 280 sds. (4)

Longitude is

For S. T. 7 hrs. 00 m. ... 194°-43' (5)

,, S. T. 6 hrs. 48 m. 191-48 (6)

,, S. T. difference of 0-12 m. 2-55 ' (7) i.e. (5)-(6)

or S. T. 720 sds. = or 175' (8)

For 280 sds. (4) = 175×280

720

= 68'

= 1°-08' (9)

Adding (6) & (9) we get } 192°-56' (10)
for 6 hrs. 52 m. 40 sds. }

ROUGH WORK No. (3)

Udaya Lagna

Latitude for required place ... 13°-04' (1)

Latitude in the table ... 13°-00' (2)

Difference between (1) & (2) ... 0-04 (3)

Udaya Lagna Longitude is

For latitude 13°-00' = 193-02 (4)

For latitude 14-00 = 192-56 (5)

For latitude difference of 1°-00 = (-) 0-06 (6)

or 60' = (-) 6'

For 04' (3) ... $6 \times \frac{4}{60}$ (7)

60

= (-) 0°-00'-24' (8)

Adding algebraically (4) & (8) we have = 193°-01'-36" (9)

PART B :—*Dasama Lagna Calculation* :—Dasama Lagna (or Madya Lagna or Dasama Madya Lagna as it is also called or the cusp of the European tenth house, varies only with Siderial Time and not with the latitude of the place, i.e. the Dasama Lagna is the same for all latitudes for the same Siderial Time. So our problem for finding the longitude of the Dasama Lagna becomes thus:—Find the longitude of the Dasama Lagna for the Siderial Time of 6 hrs. 52 ms. 40 sds. when the longitudes of the Dasama Lagnas for the Siderial Times of 6 hrs. 48 ms. and 7 hrs. 00 m. are $101^{\circ}-02'$ and $103^{\circ}-49'$ respectively. We have to enter the figures as follows and calculate by rule of three

Constructed Madya Lagna
Longitude Table

Siderial Time		Longitude of Dasama Lagna	
Hrs.	Ms.	Degree	Minute
6	48	101	02
7	00	103	49

the longitude for the calculated Siderial Time as shown in the rough work. If we do so, the longitude of Dasama Lagna becomes $102^{\circ} 07'$. Therefore the Longitude of Dasama Lagna for 4 hrs. 3 ms. 30 sds P. M. Madras Standard Time on 7-5-1930 A. D.

at Madras is $102^{\circ}-07'$. This longitude is Tropical Longitude. If we subtract the ayanamsa for 7-5-1930 A. D. from the Tropical longitude, we will get the Nirayana Longitude or the Indian Siderial longitude for the required moment of 4 hrs. 3 ms. 30 sds. P. M. Indian Standard Time on 7-5-1930 A. D. at Madras.

ROUGH WORK No. 4.

	Siderial Time
	Hrs. ms. sds.
S. T. calculated	6-52-40 (1)
S. T. in the table	6-48-00 (2)
Difference between (1) and (2)	= 0-04-40 (3)
	= 280 sds. (4)
	Longitude is
For S. T. 7 hrs. 00 m.	$103^{\circ}-49'$ (5)
„ S. T. 6 hrs. 48 m.	$101^{\circ}-02'$ (6)
„ S. T. difference of 0 hrs. 12 m.	2-47 (7) (5) — (6)

$$\begin{array}{rcl}
 \text{or for 720 sds.} & = & 167' \quad (8) \\
 \text{For 280 sds. (4)} & \dots = & \frac{167 \times 280}{720} \\
 & & = 65' \\
 & & = 1^{\circ}-05' \quad (9) \\
 \text{Adding (6) and (9) we have} & = & 102^{\circ}-07' \quad (10)
 \end{array}$$

ITEM No. 11 :—

*Example No 20:—*To calculate the ayanamsa on 7-5-1930 A.D.

The Mesha Sankranthi in 1930 A. D. took place on 13-4-1930 A. D. (This information can be got from any panchang and should be got so as the quantity in column (2) in Table No 7 against the years is given for the Mesha Sankranthi moment in each year.)

$\therefore$ The number of days between 13-4-1930 A. D. and 7-5-1930 A. D. exclusive of 7-5-1930 A. D. is 24 days as shown in the rough work No 1.

Ayanamsa for 7-5-1930 A. D. is $22^{\circ}-40'-39'' + a$ for 1930 A. D. $+ b$ for 24 days given in tables Nos. 7 and 8 and this becomes $22^{\circ}-44'-54''$ as shown in the rough work No. 2

ROUGH-WORK

No, 1.

In April, from 13-4-1930 to 1-5-1930 we have 18 days.

In May, from 1-5-1930 to 7-5-1930 " 6 "

$\therefore$ So from 13-4-1930 to 7-5-1930 " 24 "

No. 2.

Ayanamsa $= 22-40-39 + (1)$

For 1930 A. D. from Table 7, a is $= 0-04-12 \quad (2)$

For 20 days from table 8, b $= 0-00-027 \quad (3)$

4 days " b $= 0-00-00\cdot5 \quad (4)$

$\therefore$ So Ayanamsa $= 22-44-54\cdot2$

$= 22-44-54$ nearly

ITEM No 12:—

Example 21 :—Find Nirayana Longitudes from Tropical (Sayana) Longitudes of Udaya Lagna and Dasama Lagna when their Tropical Longitudes are $193^{\circ}01'36''$ and $103^{\circ}07'00''$ and the ayanamsa is $22^{\circ}44'54''$.

The Tropical longitude of Udaya Lagna as calculated already is } <i>(vide Ex 19-Part A)</i> } $= 193-01-36$ (1)	The Tropical longitude of Dasama Lagna as calculated already is } <i>Vide Ex. 19-Part B.</i> } $= 102-07-00$ (2)
Ayanamsa for 7-5-1930 A. D. as worked out above see Item No.11 } $= 22-44-54$ (3)	Ayanamsa for 7-5-1930 A. D. as worked out above see item No. 11. } $= 22-44-54$ (4)
$\therefore$ Nirayana Longitude is [(1) } minus (2)] } $= 170-16-42$	Nirayana Longitude is [(2) minus (4)] } $= 79-22-06$
$\therefore$ Nirayana Longitude of Udaya Lagna is } $= 170-17$ nearly	$\therefore$ Nirayana Longitude of Dasama Lagna is } $= 79-22$ nearly.

ITEM No 13 :—

To Erect Bhavachakra :—There are four important or cardinal points in a Rasi chakra. They are (1) Udaya Lagna (or Simply Lagna or First Bhava or Ascendant or First House). (2) Chathurtha Lagna (or Fourth Bhava or Fourth House). (3) Asthamana Lagna (or Seventh Bhava or Descendant or Seventh House) and the Dasama Madya Lagna (or Tenth Bhava or Tenth House). Asthamana Lagna is exactly 180° from the Udaya Lagna and the Chathurtha Lagna is also exactly 180° from the Dasama

Madya Lagna. Similarly the Second Bhava, the third Bhava, the Fifth Bhava and the Sixth Bhava are exactly 180° away from the Eighth Bhava, the Ninth Bhava, the Eleventh Bhava and the Twelfth Bhava respectively. The relationship of these twelve bhavas or houses can be expressed as follows :—

If a° , b° , c° , d° , e° , and f° are the longitudes (whether Tropical or Indian sidereal) of the first six bhavas or houses respectively, the longitudes (whether Tropical or Indian Siderial) of the next six bhavas or houses commencing from the Seventh Bhava or House are $a^\circ+180^\circ$, $b^\circ+180^\circ$, $c^\circ+180^\circ$, $d^\circ+180^\circ$, $e^\circ+180^\circ$ and $f^\circ+180^\circ$. So to erect a Bhava chakra, we have only to calculate the longitudes of the first six bhavas.

ITEM No. 14 :—*Several Kinds of Division of the Houses or the Bhava Chakra :—*

The Ecliptic commencing from the Udaya Lagna or Ascendant is divided into twelve parts called Bhavas in Indian Astrology and Houses in European Astrology. The process of dividing the Ecliptic into Houses is called "House Division" and ready made tables giving the several houses are called "Tables of Houses". There are nearly a dozen different methods of "House Division" in European astrology and each method of House Division has its own votaries or supporters who condemn all the other methods, and consequently there are several different "Tables of Houses" which differ from one another. Hindu Astrology is fundamentally quite different from European Astrology and differs from it radically in almost all its essential elements. So for as Hindu Astrology is concerned, only one method of "Bhava Division" as it is called has been adopted universally and it has the support of famous Indian Astrologers and Indian Astronomers. It is also one of the several methods followed in European Astrology. This method has been employed for the construction of the Astrological

Tables of the Lagna and Other Houses or Bhavas of this book. This method consists of the following several stages:—

RULE No. (7):—finding the Udaya Lagna, and the Dasama Madya Lagna and finding from these the Asthamana and Chathurtha Lagnas by adding 180° respectively to Madya Lagna and Dasama Madya Lagna.

RULE No. (8) (2):—adding $\frac{1}{3}$ of the difference in longitude between the longitudes of the Chathurtha Lagna and the Udaya Lagna to the longitude of the Udaya Lagna twice successively to get the Second and Third Bhavas.

RULE No. (9):—adding $\frac{1}{4}$ of the difference in longitude between the longitudes of the Asthamana (or Saphama) Lagna and the Chathurtha Lagna to the longitude of the Chathurtha Lagna twice successively to get the Fifth and the Sixth Bhavas.

RULE No. (10):—adding 180° to the longitudes of the first Six Bhavas (as calculated with the help of the rules 7 to 9) to get the remaining six bhavas commencing with the Seventh Bhava.

ITEM No 14 (a):—I shall now illustrate the method with a concrete example.

Example No. 22:—Erect (*i.e.* cast) a Bhavachakra when the Tropical Longitudes of the Udaya Lagna and the Dasama Lagna are $193^\circ-1'-36$ or $193^\circ-02'$ nearly and $102^\circ-07'$ as calculated in Example No-19.

Use rule No. 7.	° ' "	° ' "
Tropical longitude of Udaya Lagna is	= 193-02-00 (1)	Tropical longitude of Dasama Lagna is
Add	= 180-00-00 (3)	Add
Total of (1) and (3) is the Tropical longitude of the Saptama Lagna	= 373-02-00	Total of (2) and (4) is the Tropical longitude of the Chathurtha Lagna
(Subtracting 360° if the total exceeds 360)	= 13-02-00 (5)	
Use Rule 8		Use Rule 9
Tropical longitude of Chathurtha Lagna is from (6)	= 282-07-00 (7)	Tropical longitude of Saptama Lagna is from (5)
Tropical longitude of Udaya Lagna is from (1)	= 193-02-00 (8)	Tropical longitude of Chathurtha Lagna is from (6)
Difference between (7) and (8)	= 89-05-00 (9)	Difference between (14) and (15) is If (14) is less than (15) add 360° to (14) before subtraction
$\frac{1}{3}$ of the difference i. e. of No. (9)	= 29-41-40 (10)	$\frac{1}{3}$ of the difference i. e. of No. (16)
Longitude of Second Bhava is [by adding (8) and (10)]	= 222-43-40 (11)	Longitude of Fifth Bhava is [by adding (15) and (17)]
Longitude of the Third Bhava is [by adding (11 and 10)]	= 252-25-20 (12)	Longitude of Sixth Bhava is [by adding (18) and (17)]
Longitude of the Fourth Bhava is [by adding (12 and 10)]	= 282-07-00 (13)	Longitude of Seventh Bhava is [by adding (19) and (17) same as No. (5)]
same as (6)		same as No. (5)
		same as No. (5)

ITEM No. 15 :—

Use Rule 10 :—

No. of the Bhavas.	Tropical Longitude of the cusps or Bhavas.	Add 180°	Tropical Longitude of the cusps or Bhavas Nos. 7 to 12 (By adding (21) & (22) & subtracting 360° if necessary.	No. of the Bhavas thus got.
	(21)	(22)	(23)	
1st cusp or Bhava	193-02-00 (1)	180-00-00	13-02-00	7th cusp or Bhava
2nd "	222-43-40 (11)	180-00-00	42-43-40	8th "
3rd "	252-25-20 (12)	180-00-00	72-25-20	9th "
4th "	282-07-00 (13)	180-00-00	102-07-00	10th "
5th "	312-25-20 (18)	180-00-00	132-25-20	11th "
6th "	342-43-40 (19)	180-00-00	162-43-40	12th "

Name of the Cusps or Bhavas.	Tropical Longitudes of the cusps or Bhavas 1 to 12 same as (21) & (23). (24)	Ayanamsa from item No. (11). (25)	Siderial or Nirayana Longitude. (24) minus (25) (26)
1st cusp or Bhava	193-02-00	22-44-54	170-17-06
2nd "	222-43-40	" "	199-58-46
3rd "	252-25-20	" "	229-40-26
4th "	282-07-00	" "	259-22-06
5th "	312-25-20	" "	289-40-26
6th "	342-43-40	" "	319-58-46
7th "	13-02-00	" "	350-17-06
8th "	42-43-40	" "	19-58-46
9th "	72-25-20	" "	49-40-26
10th "	102-07-00	" "	79-22-06
11th "	132-25-20	" "	109-40-26
12th "	162-43-40	" "	139-58-46

Now.

(1) in the above item No. 15, the figures under column No. (24) give, the Tropical Longitudes of the Cusps of the several Houses

from the First House to the Twelfth House according to European Astrology. The Tropical or Sayanic or Western Bhavachakra or Houses is or are therefore as given below.

Tropical or Sayanic or Western Bhavachakra or Houses.

Name of the House.	Tropical Longitude	
	from	to
1 st House	193—02—00	222—43—40
2 nd „	222—43—40	252—25—20
3 rd „	252—25—20	282—07—00
4 th „	282—07—00	312—25—20
5 th „	312—25—20	342—43—40
6 th „	342—43—40	13—02—00
7 th „	13—02—00	42—43—40
8 th „	42—43—40	72—25—20
9 th „	72—25—20	102—07—00
10 th „	102—07—00	132—25—20
11 th „	132—25—20	162—43—40
12 th „	162—43—40	193—02—00

(2) In the above item No. 15, the figures under column No. (26) give the Siderial or Nirayana Longitudes of the middle points of the Several Bhavas from the First to the Twelfth Bhava according to Indian Astrology.

The First cusp, the Second cusp and so on are the beginnings of the First House, of the Second House and so on. The Second cusp is the beginning of the Second House or the end of the First House and so on. So a particular cusp is the beginning of that particular House and the end of the previous House in European astrology. In Indian Astrology, the First Cusp is approximately the middle of the First Bhava and (*not exactly*) the middle of the Bhava. Whenever we speak of the longitude of a Bhava in Indian Astrology, we mean the longitude of the “approximately middle point of that Indian Bhava; for instance when we speak of the longitude of the Third Bhava we mean the longitude of the “approximately middle point of the Third Bhava.”

ITEM No. 16 :— I have so far shown how to erect the European Bhavachakra according to European astrology *i. e.* how

to prepare a table of houses for the required moment for the required place. I shall now show how to erect the Indian Bhavachakra according to Indian astrology with a knowledge of the longitudes of the middle points of the several Indian Bhavas *i.e.* I shall now show how to calculate accurately the Nirayana longitudes of the Beginning and the End of the several Indian Bhavas with a knowledge of the longitudes of the approximately middle points of the several Indian Bhavas. For convenience sake I shall call the "approximately middle point" of a Bhava by the name of "Bhava Point." The exactly middle point between the longitude of the particular Bhava Point (say fourth Bhava Point) and the longitude of the immediately preceding Bhava Point (*i.e.* the third Bhava Point) is the beginning of that particular Bhava namely Fourth Bhava. The exactly middle point between the longitude of a particular Bhava Point (say fourth Bhava Point) and the longitude of the immediately succeeding Bhava Point (*i.e.* the fifth Bhava Point) is the end of that particular Bhava namely the Fifth Bhava. The exactly middle point immediately preceding a particular Bhava Point is called the Aramba Sandhi of that Bhava. The exactly middle point immediately succeeding a particular Bhava Point is called Virama Sandhi of that Bhava. The Aramba Sandhi and the Virama Sandhi of a particular Bhava are the beginning and end of that particular Bhava. At the Aramba Sandhi and Virama Sandhi of a particular Bhava, the effects of that Bhava are nil.

ITEM No. 17 :—

CALCULATION OF THE BEGINNING AND END OF AN INDIAN BHAVA.

*Example No. 23 :—*The Nirayana longitudes of the Third Fourth and Fifth Bhava Points are respectively $229^{\circ}-40'-26''$, $259^{\circ}-22'-06''$, and $239^{\circ}-40'-26''$. Find the Nirayana Longitudes of the Beginning and End of the Fourth Bhava.

We proceed as follows.

Longitude of the Fourth Bhava Point is	259-22-06	(1)
Longitude of the Third Bhava Point is	229-40-26	(2)
Difference between (1) and (2) is ...	29-11-40	(3)

Half of (3) ... 14-50-50 (4)

Adding (2) and (4) we get the longitude of }
the Beginning of the Fourth Bhava as } 244-31-16 (5)

We can easily get 244°-31'-16" (5) by adding (1) and (2) and dividing the total by 2. So if we divide the sum of the longitudes of the Third Bhava Point and Fourth Bhava Point by two, we will get the longitude of the Beginning of the Fourth Bhava. Similarly if we divide the sum of the longitudes of the Fourth Bhava Point and the Fifth Bhava Point we will get the longitude of the End of the Fourth Bhava Point. Therefore the longitude of the End of the Fourth Bhava Point is = $\frac{(259^{\circ}-22'-06") + (289^{\circ}-40'-26")}{2}$

= $\frac{549^{\circ}-02'-32"}{2}$ = 274°-31'-16". In general terms, the longitude of the Aramba Sandhi (*i.e.* the Beginning) of a particular Bhava is half the sum of the longitude of that particular Bhava Point and the immediately preceding Bhava Point. The longitude of Virama Sandhi (*i.e.* the End) of a particular Bhava is half the sum of the longitudes of that particular Bhava Point and the immediately succeeding Bhava Point.

ITEM No. 18 :—

*Example No. 24 :—*The Nirayana Longitudes of the several Indian Bhavas Points are given below. Calculate the longitudes of the Beginning and the End of the Several Indian Bhavas.

No. of the Bhava Point	Nirayana Longitude of the Bhava Point	No. of the Bhava Point	Nirayana Longitude of the Bhava Point
	° ' "		° ' "
1	170-17-06	7	350-17-06
2	199-58-46	8	19-58-46
3	229-40-26	9	49-40-26
4	259-22-06	10	79-22-06
5	289-40-26	11	109-40-26
6	319-58-46	12	139-58-46

Bhava Point Number	1 o, "	2 o, "	3 o, "	4 o, "	5 o, "	6 o, "	
Nirayana Longitude of Bhava Point	170-17-06	199-58-46	229-40-26	259-22-06	289-40-26	319-58-46	(1)
Nirayana Longitude of the Preceding Bhava Point	139-58-46	170-17-06	199-58-46	229-40-26	259-22-06	289-40-26	(2)
Sum of (1) and (2)	310-15-52	370-15-52	429-39-12	489-02-32	549-02-32	609-39-12	(3)
Half of (3) is the Nirayana Longitude or the Beginning of the Bhava against(A)	155-17-56	185-07-56	214-49-36	244-31-16	274-31-16	304-49-36	(4)
Bhava Number	(1)	(2)	(3)	(4)	(5)	(6)	(A)

Bhava Point Number	7 o, "	8 o, "	9 o, "	10 o, "	11 o, "	12 o, "	
Nirayana Longitude of Bhava Point	350-17-06	19-58-46 or 379-58-46	49-40-26	79-22-06	109-40-26	139-58-46	(1)
Nirayana Longitude of the Preceding Bhava Point	319-58-46	370-17-06	19-58-46	49-40-26	79-22-06	109-40-26	(2)
Sum of (1) and (2)	670-15-52	730-15-52	69-39-12	129-02-32	189-02-32	249-39-12	(3)
Half of (3) is the Nirayana Longitude of the Beginning of the Bhava against(A)	335-07-56	365-07-56 or 5-07-56	34-49-36	64-31-16	94-31-16	124-49-36	(4)
Bhava Number	(7)	(8)	(9)	(10)	(11)	(12)	(A)

As the beginning of one Bhava is the end of the Previous Bhava, we need not separately calculate the Ends of the several Bhavas. We see also that the longitudes under numbers (7) to (12) differ respectively from the longitudes of numbers (1) to (6) by only 180° . So, if we calculate the longitudes of the Beginning of the Bhavas 1 to 6, we can easily get the longitudes of the beginning of the Bhavas 7 to 12 by adding 180° to the longitudes of the beginning of the Bhavas 1 to 6 respectively. We shall now arrange our results as follows and show the longitudes of the Beginning and End of Bhava Points.

No. of the Indian Bhava	Nirayana Longitudes of the		
	Beginning of the Bhava	Bhava Point	End of the Bhava
	° ' "	° ' "	° ' "
1	155-07-56	170-17-06	185-07-56
2	185-07-56	199-58-46	214-49-36
3	214-49-36	229-40-26	244-31-16
4	244-31-16	259-22-06	274-31-16
5	274-31-16	289-40-26	304-49-31
6	304-49-36	319-58-46	335-07-56
7	335-07-56	350-17-06	5-07-56
8	5-07-56	19-58-46	34-49-36
9	34-49-36	49-40-26	64-31-16
10	64-31-16	79-22-06	94-31-16
11	94-31-16	109-40-26	124-49-36
12	124-49-36	139-58-46	155-07-56

SECTION IV

FOR SOUTHERN LATITUDES.

ITEM No. 19:—To calculate the Udaya Lagna and the Dasama Lagna for the required moment at the required place which has a South Latitude.

We have to proceed as follows :—

(1) First find the Siderial Time H at the given place for the required moment by following the General Method or the methods given in Section I or II. Then add 12 hours to this. If the total exceeds 24 hrs. subtract twenty four hours from the total and get the result as W.

(2) Then imagine that the place has exactly the same Northern Latitude and find the Udaya Lagna and Dasama Lagna for this imagined northern latitude for the calculated Siderial Time of W by following the method given in Section III.

(3) Then add 180° to the calculated Udaya Lagna and the calculated Dasama Lagna and the result will give in Tropical Longitude the required Udaya Lagna and the required Dasama Lagna for the required place with South Latitude and for the required moment.

(4) If we now repeat the methods given in items Nos. 11 to 18 we can get the European Bhava Chakra (or European Map) and the Indian Bhava Chakra for the required moment for the required place having the South Latitude.

ITEM No. 20:— I shall illustrate briefly the several stages by taking a concrete Example.

Example No. 25:—Calculate the Udaya Lagna and the Dasama Lagna for a place P whose latitude is $13^\circ-04'$ South for a required moment when the Siderial Time (H) as calculated according to Section II for that place P is 18 hrs. 52 m. 40 sds on 7-5-1930 A. D. :—

Now imagine $13^\circ-04'$ South as $13^\circ-04'$ North as per instruction 2 of Item No. 19.

	Hrs. ms. sds.
The calculated Siderial Time H	= 18-52-40
Add 12 hrs. as per rule (1) of Item No. 19,	= 12-00-00
Total ...	= 30-52-40
As 30hrs. is more than 24hrs., subtract 24hrs.	= 24-00-00
We have W as per rule (1) of Item No. 19.	= 6-52-40
For 6 hrs. 52 ms. 40 sds. the Tropical longitude of Udaya Lagna calculated by following the method given in Part A of Section III is	} = 193-01-36(1)
Add 180° as per rule (3) of Item 19	= 180-00-00(2)
Adding (1) & (2) we have the Tropical longitude of the required Udaya Lagna }	= 373-01-36(3)
	or = 13-01-36 by subtracting 360°
	or = 13-02.

∴ So the required Tropical longitude of the Udaya Lagna at the place whose latitude is 13°-04' South for the Siderial Time of 18 hrs. 52 m. 40 sds. on 7-5-1930 A. D. is 13°-01'-36' or 13°-02' Answer.

Similarly.

For 6 hrs. 52 ms. 40 sds. the Tropical Longitude of calculated Dasama Lagna by following the method given in Part B of Section III is	} = 102-07-00 (4)
Add 180° as per rule (3) of item No. 19.	= 180-00-00 (5)
Adding (4) and (5) we have the Tropical longitude of the required Dasama Lagna }	= 282-07-00 (6)

So the required Tropical longitude of the Dasama Lagna at the place whose latitude is 13°-04' South for the Siderial Time of 18 hrs. 52 ms. 40 sds. on 7-5-1930 A. D. is 282°-07'-00. Answer.

Having thus calculated the Tropical longitudes of the Udaya Lagna and the Dasama Lagna, proceed exactly as in items Nos. 14 (a) to (18).

TABLES:—1, & 2—வாக்கியங்கள்:—1-ம், 2-ம்.

Table 1. To find the number of mean time hours after Noon (M I.) மத்தியானத்திற்குப் பிறகு செல்லான கெடியார மணி காலம் அறிய		Table 2. To find the number of mean time hours after Midnight (M I.) நடு இரவிற்கு பிறகு செல்லான கெடியார மணி காலம் அறிய	
Clock Time காலம் கெடியார மணி	Number of hours of mean time கெடியார மணியின் எண்	Clock Time காலம் கெடியார மணி	Number of hours of mean time கெடியார மணியின் எண்
12 Noon மத்தியானம் }	0	12 Midnight நடு இரவு }	0
1 P M பி. எம். }	1	1 A. M. எ. எம். }	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12 Midnight நடு இரவு }	12	12 Noon மத்தியானம் }	12
1 A.M. எ. எம். }	13	1 P. M. பி. எம். }	13
2	14	2	14
3	15	3	15
4	16	4	16
5	17	5	17
6	18	6	18
7	19	7	19
8	20	8	20
9	21	9	21
10	22	10	22
11	23	11	23

2 Tables Of Bhavas—லக்கினஸ்புட, பாவஸ்புட வாக்கியம்.

TABLE:—3. —வாக்கியம்:—3.

Correction (L. C.) for difference in Longitude (ie.) Longitude
Correction.

ரோகம்ச வித்தியாசத்திற்காகத் திருத்தம். அதாவது ரோகம்ச

திருத்தம் (ரே. தி.)

Longitude in degrees	Degrees.	Longitude in Minutes of arc	Minutes of arc.	Longitude in Seconds of arc	Seconds of arc.
	பாலைகள்.		கலைகள்.		வி.கலைகள்.
	Sidereal Interval in Seconds		Sidereal Inter- val in Seconds of time		Sidereal Inter- val in Seconds of time
	நட்சத்திர ஹோரா கால சக்கண்டு		நட்சத்திர ஹோரா கால சக்கண்டு		நட்சத்திர ஹோரா கால சக்கண்டு
0	Sds. 00-00	0	Sds. 00-000	0	Sds. 00-000
1	00-66	1	00-011	1	00-000
2	01-31	2	00-022	2	00-000
3	01-97	3	00-033	3	00-001
4	02-63	4	00-044	4	00-001
5	03-29	5	00-055	5	00-001
6	03-94	6	00-066	6	00-001
7	04-60	7	00-077	7	00-001
8	05-26	8	00-088	8	00-001
9	05-91	9	00-099	9	00-002
10	06-57	10	00-110	10	00-002
20	13-14	20	00-220	20	00-004
30	19-71	30	00-330	30	00-005
40	26-23	40	00-440	40	00-007
50	32-85	50	00-550	50	00-009
60	39-43	60	00-660	60	00-011
70	46-00				
80	52-57				
90	59-14				
100	65-71				

Table:—4—வாக்கியம்:—4

Table for finding the interval of Siderial Time (*S.I*) (ie Siderial Interval for a given interval of Mean Solar (ie clock) Time (*M.I*)

குறித்த கெடியார காலத்திற்குச் (கெ.கா) சமமானமான நட்சத் திர ஹோராதி காலம் (ந. கா) அறிய

HOURS. மணிகள்.				MINUTES. நிமிஷங்கள்.								
In clock time கெடியாரமணி		Siderial Interval நட்சத்திர ஹோராதி கால		In clock time கெடியார நிமி		Siderial Interval நட்சத்திர ஹோராதி கால		In clock time கெடியார நிமி		Siderial Interval நட்சத்திர ஹோராதி கால		
Hrs.	Hrs.	Ms.	Sds.	Ms.	Ms.	Sds.	Ms.	Ms.	Sds.	Ms.	Ms.	Sds.
மணி	மணி	நிமி	சக்கண்	நிமிஷம்	நிமிஷம்	சக்கண்	நிமிஷம்	நிமிஷம்	சக்கண்	நிமிஷம்	நிமிஷம்	சக்கண்
01	01	00	09-856	01	01	00-164	31	31	05-093			
02	02	00	19-713	02	02	00-329	32	32	05-257			
03	03	00	29-569	03	03	00-493	33	33	05-421			
04	04	00	39-426	04	04	00-657	34	34	05-585			
05	05	00	49-282	05	05	00-821	35	35	05-750			
06	06	00	59-139	06	06	00-986	36	36	05-914			
07	07	01	08-995	07	07	01-150	37	37	06-078			
08	08	01	18-852	08	08	01-314	38	38	06-242			
09	09	01	28-708	09	09	01-478	39	39	06-407			
10	10	01	38-565	10	10	01-643	40	40	06-571			
11	11	01	48-421	11	11	01-807	41	41	06-735			
12	12	01	58-278	12	12	01-971	42	42	06-900			
13	13	02	08-134	13	13	02-136	43	43	07-064			
14	14	02	17-991	14	14	02-300	44	44	07-228			
15	15	02	27-847	15	15	02-464	45	45	07-392			
16	16	02	37-704	16	16	02-628	46	46	07-557			
17	17	02	47-560	17	17	02-793	47	47	07-721			
18	18	02	57-417	18	18	02-957	48	48	07-885			
19	19	03	07-273	19	19	03-121	49	49	08-049			
20	20	03	17-129	20	20	03-285	50	50	08-214			
21	21	03	26-986	21	21	03-450	51	51	08-378			
22	22	03	36-842	22	22	03-614	52	52	08-542			
23	23	03	46-699	23	23	03-778	53	53	08-707			
24	24	03	56-555	24	24	03-943	54	54	08-871			
				25	25	04-107	55	55	09-035			
				26	26	04-271	56	56	09-199			
				27	27	04-435	57	57	09-364			
				28	28	04-600	58	58	09-528			
				29	29	04-764	59	59	09-692			
				30	30	04-928	60	60	09-856			

4 Tables Of Bhavas—லக்கினஸ்புட, பாவஸ்புட வாக்கியம்.

TABLE 4 (Contd.)—வாக்கியம் 4 (துடர்ச்சி)

SECONDS. சக்கண்டுகள்.					
In clock time seconds கெடியாரசக்கண்டு	Siderial Interval Sds. நட்சத்திர ஹோராதி கால சக்கண்டு	In clock time seconds கெடியாரசக்கண்டு	Siderial Interval Sds. நட்சத்திர ஹோராதி கால சக்கண்டு	In clock time seconds கெடியாரசக்கண்டு	Siderial Interval Sds. நட்சத்திர ஹோராதி கால சக்கண்டு.
01	01-003	21	21-057	41	41-112
02	02-005	22	22-060	42	42-115
03	03-003	23	23-063	43	43-118
04	04-011	24	24-066	44	44-120
05	05-014	25	25-068	45	45-123
06	06-016	26	26-071	46	46-126
07	07-019	27	27-074	47	47-129
08	08-022	28	28-077	48	48-131
09	09-025	29	29-079	49	49-134
10	10-027	30	30-082	50	50-137
11	11-030	31	31-085	51	51-140
12	12-033	32	32-088	52	52-142
13	13-036	33	33-090	53	53-145
14	14-038	34	34-093	54	54-148
15	15-041	35	35-096	55	55-151
16	16-044	36	36-099	56	56-153
17	17-047	37	37-101	57	57-156
18	18-049	38	38-104	58	58-159
19	19-052	39	39-107	59	59-162
20	20-055	40	40-110	60	60-164

TABLE 5.—வாக்கியம் 5.

Table for Converting degrees, Minutes & Seconds of arc into time
(ie Local Mean Time Correction or briefly Local Correction D.)

பாகை, கலை, விகலை இவைகளுக்குச் சமமான மணி, நிமிஷம்,

சக்கண்டுகள் சுதேச நிருத்தம் (சு. தி)

DEGREES. பாகைகள்.											
Degree பாகை	Time		Degree பாகை	Time		Degree பாகை	Time		Degree பாகை	Time	
	Hrs. மணி	Ms. நிமி		Hrs. மணி	Ms. நிமி		Hrs. மணி	Ms. நிமி		Hrs. மணி	Ms. நிமி
0°	0	00	28	1	52	56	3	44	84°	5	36
1	0	04	29	1	56	57	3	48	85	5	40
2	0	08	30	2	00	58	3	52	86	5	44
3	0	12	31	2	04	59	3	56	87	5	48
4	0	16	32	2	08	60	4	00	88	5	52
5	0	20	33	2	12	61	4	04	89	5	56
6	0	24	34	2	16	62	4	08	90	6	00
7	0	28	35	2	20	63	4	12	91	6	04
8	0	32	36	2	24	64	4	16	92	6	08
9	0	36	37	2	28	65	4	20	93	6	12
10	0	40	38	2	32	66	4	24	94	6	16
11	0	44	39	2	36	67	4	28	95	6	20
12	0	48	40	2	40	68	4	32	96	6	24
13	0	52	41	2	44	69	4	36	97	6	28
14	0	56	42	2	48	70	4	40	98	6	32
15	1	00	43	2	52	71	4	44	99	6	36
16	1	04	44	2	56	72	4	48	100	6	40
17	1	08	45	3	00	73	4	52	101	6	44
18	1	12	46	3	04	74	4	56	102	6	48
19	1	16	47	3	08	75	5	00	103	6	52
20	1	20	48	3	12	76	5	04	104	6	56
21	1	24	49	3	16	77	5	08	105	7	00
22	1	28	50	3	20	78	5	12	106	7	04
23	1	32	51	3	24	79	5	16	107	7	08
24	1	36	52	3	28	80	5	20	108	7	12
25	1	40	53	3	32	81	5	24	109	7	16
26	1	44	54	3	36	82	5	28	110	7	20
27	1	48	55	3	40	83	5	32	111	7	24

TABLE 5 (Contd.)—வாக்கியம் 5 (துடர்ச்சி)

DEGREES. பாகைகள்.								
Degree. பாகை.	Time		Degree. பாகை.	Time		Degree. பாகை.	Time	
	Hrs. மணி.	Ms. நிமிஷம்		Hrs. மணி.	Ms. நிமிஷம்		Hrs. மணி.	Ms. நிமிஷம்
112	7	28	135	9	00	158	10	32
113	7	32	136	9	04	159	10	36
114	7	36	137	9	08	160	10	40
115	7	40	138	9	12	161	10	44
116	7	44	139	9	16	162	10	48
117	7	48	140	9	20	163	10	52
118	7	52	141	9	24	164	10	56
119	7	56	142	9	28	165	11	00
120	8	00	143	9	32	166	11	04
121	8	04	144	9	36	167	11	08
122	8	08	145	9	40	168	11	12
123	8	12	146	9	44	169	11	16
124	8	16	147	9	48	170	11	20
125	8	20	148	9	52	171	11	24
126	8	24	149	9	56	172	11	28
127	8	28	150	10	00	173	11	32
128	8	32	151	10	04	174	11	36
129	8	36	152	10	08	175	11	40
130	8	40	153	10	12	176	11	44
131	8	44	154	10	16	177	11	48
132	8	48	155	10	20	178	11	52
133	8	52	156	10	24	179	11	56
134	8	56	157	10	28	180	12	00

TABLE 5. (contd):—வாக்கியம் 5. (தொடர்ச்சி)

Minutes of arc. கலைகள்.						Seconds of arc. விக்கலைகள்.					
Ms. of arc கலை	Time		Ms. of arc கலை	Time		Sds. of arc விக்கலைகள்	Time in Seconds சக்கண்டு		Sds. of arc விக்கலைகள்	Time in Seconds சக்கண்டு	
	Ms. கலை	Sds. நிமி		Ms. கலை	Sds. நிமி						
0'	0	00	31'	2	04	0'	0-000		31	2-067	
1	0	04	32	2	08	1	0-067		32	2-133	
2	0	08	33	2	12	2	0-133		33	2-200	
3	0	12	34	2	16	3	0-200		34	2-267	
4	0	16	35	2	20	4	0-267		35	2-333	
5	0	20	36	2	24	5	0-333		36	2-400	
6	0	24	37	2	28	6	0-400		37	2-467	
7	0	28	38	2	32	7	0-467		38	2-533	
8	0	32	39	2	36	8	0-533		39	2-600	
9	0	36	40	2	40	9	0-600		40	2-667	
10	0	40	41	2	44	10	0-667		41	2-733	
11	0	44	42	2	48	11	0-733		42	2-800	
12	0	48	43	2	52	12	0-800		43	2-867	
13	0	52	44	2	56	13	0-867		44	2-933	
14	0	56	45	3	00	14	0-933		45	3-000	
15	1	00	46	3	04	15	1-000		46	3-067	
16	1	04	47	3	08	16	1-067		47	3-133	
17	1	08	48	3	12	17	1-133		48	3-200	
18	1	12	49	3	16	18	1-200		49	3-267	
19	1	16	50	3	20	19	1-267		50	3-333	
20	1	20	51	3	24	20	1-333		51	3-400	
21	1	24	52	3	28	21	1-400		52	3-467	
22	1	28	53	3	32	22	1-467		53	3-533	
23	1	32	54	3	36	23	1-533		54	3-600	
24	1	36	55	3	40	24	1-600		55	3-667	
25	1	40	56	3	44	25	1-667		56	3-733	
26	1	44	57	3	48	26	1-733		57	3-800	
27	1	48	58	3	52	27	1-800		58	3-867	
28	1	52	59	3	56	28	1-867		59	3-933	
29	1	56	60	4	00	29	1-933		60	4-000	
30	2	00				30	2-000				

TABLE 6.—வாக்கியம் 6.

Name of the Country etc, தேசத்தின் பெயர் முதலியன	Time difference (T.D.) கெடியார மணி வித்தியாசம்.	Longitude of the place "S" "எஸ்" என்ற இட- த்தின் ரேகாம்சம்.
	Hrs. Ms. Sds. மணி நிமி சக்க.	Deg. Ms. Sds. பாகை கலை விகலை.
1. India (except Calcutta) 1. இந்தியா (கல்கத்தா தவிர)	+ 5—30—00	82—30—00E
2. Portuguese India 2. போர்த்துகார இந்தியா	+ 5—30—00	82—30—00,,
3. Ceylon 3. சிலோன் (இலங்கை)	+ 5—30—00	82—30—00,,
4. Laccadive Islands 4. லக்ஷத்தீவுகள்	+ 5—30—00	82—30—00,,
5. Calcutta 5. கல்கத்தா	+ 5—53—20.08	88—20—12,,
6. Burma 6. பர்மா	+ 6—00—00	90—00—00,,
7. Siam 7. சைபாம்	+ 7—00—00	105—00—00,,
8. Straits Settlements 8. ஸ்ரெட்டிங் செட்டிங் மெண்டு	+ 7—00—00	105—00—00,,
9. Federated Malay States 9. பெடரேட்டெட் மலையா ஸ்டேட்ஸ்	+ 7—00—00	105—00—00,,
10 Mauritius 10. மொருசீஷ்	+ 4—00—00	60—00—00,,
11. Union of South Africa 11. தென் ஆப்பிரிகா யூனியன்	+ 2—00—00	30—00—00,,

TABLE 7.—வாக்கியம் 7.

Ayanamsa for years from 1840A.D. to 2000A.D.

1840கி.பி. ன்ரு முதல் 2000கி.பி. ன்ரு வரையிலும் அயனும்சம்.

(1) Ayanamsa = $(22^{\circ}-40'-39'') \pm a$.

(1) அயனும்சம் = $(22^{\circ}-40'-39'') \pm a$.

Rate of precession from 1800A.D. to 2000A.D. = $0^{\circ}-0'-50''$,

வருஷ அயன சலன கதி = $0^{\circ}-0'-50''$.

Year A. D. வருஷம் கி. பி.	Ayanamsa a அயனும் சம் எ.			Year A. D. வருஷம் கி. பி.	Ayanamsa a அயனும் சம் எ.			Year A. D. வருஷம் கி. பி.	Ayanamsa a அயனும் சம் எ.		
A. D.	°	'	"	A. D.	°	'	"	A. D.	°	'	"
1840	1	11	12	1867	0	48	34	1894	0	25	58
1841	1	10	22	1868	0	47	44	1895	0	25	08
1842	1	9	31	1869	0	46	54	1896	0	24	18
1843	1	8	41	1870	0	46	03	1897	0	23	27
1844	1	7	51	1871	0	45	13	1898	0	22	37
1845	1	7	00	1872	0	44	23	1899	0	21	47
1846	1	6	10	1873	0	43	33	1900	0	20	57
1847	1	5	20	1874	0	42	42	1901	0	20	06
1848	1	4	30	1875	0	41	52	1902	0	19	16
1849	1	3	39	1876	0	41	03	1903	0	18	26
1850	1	2	49	1877	0	40	12	1904	0	17	35
1851	1	1	59	1878	0	39	22	1905	0	16	45
1852	1	1	09	1879	0	38	32	1906	0	15	56
1853	1	0	18	1880	0	37	42	1907	0	15	05
1854	0	59	28	1881	0	36	51	1908	0	14	15
1855	0	58	38	1882	0	36	01	1909	0	13	25
1856	0	57	48	1883	0	35	11	1910	0	12	35
1857	0	56	57	1884	0	34	20	1911	0	11	44
1858	0	56	07	1885	0	33	30	1912	0	10	54
1859	0	55	17	1886	0	32	41	1913	0	10	04
1860	0	54	27	1887	0	31	50	1914	0	9	13
1861	0	53	36	1888	0	31	00	1915	0	8	23
1862	0	52	46	1889	0	30	10	1916	0	7	33
1863	0	51	56	1890	0	29	20	1917	0	6	42
1864	0	51	05	1891	0	28	29	1918	0	5	52
1865	0	50	15	1892	0	27	39	1919	0	5	02
1866	0	49	25	1893	0	26	49	1920	0	4	12

10 Tables of Bhavas—லக்ஷினஸ்புட, பாவஸ்புட வரக்கியம்.

TABLE 7 (Contd.)—வரக்கியம் 7 (துடர்ச்சி.)

Year A. D. வருஷம் கி. பி.	Ayanamsa α அயனம் சம் எ.			Year A. D. வருஷம் கி. பி.	Ayanamsa α அயனம் சம் எ.			Year A. D. வருஷம் கி. பி.	Ayanamsa α அயனம் சம் எ.		
A. D.	°	'	"	A. D.	°	'	"	A. D.	°	'	"
1921	0	3	21	1948	0	19	16	1975	0	41	53
1922	0	2	31	1949	0	20	06	1976	0	42	43
1923	0	1	41	1950	0	20	57	1977	0	43	34
1924	0	0	50	1951	0	21	47	1978	0	44	24
1925	0	0	00	1952	0	22	37	1979	0	45	14
1926	0	0	50	1953	0	23	27	1980	0	46	04
1927	0	1	41	1954	0	24	18	1981	0	46	55
1928	0	2	31	1955	0	25	08	1982	0	47	45
1929	0	3	21	1956	0	25	58	1983	0	48	35
1930	0	4	12	1957	0	26	49	1984	0	49	26
1931	0	5	02	1958	0	27	39	1985	0	50	16
1932	0	5	52	1959	0	28	29	1986	0	51	06
1933	0	6	42	1960	0	29	20	1987	0	51	57
1934	0	7	33	1961	0	30	10	1988	0	52	47
1935	0	8	23	1962	0	31	00	1989	0	53	37
1936	0	9	13	1963	0	31	50	1990	0	54	28
1937	0	10	04	1964	0	32	41	1991	0	55	18
1938	0	10	54	1965	0	33	31	1992	0	56	08
1939	0	11	44	1966	0	34	21	1993	0	56	58
1940	0	12	35	1967	0	35	12	1994	0	57	49
1941	0	13	25	1968	0	36	02	1995	0	58	39
1942	0	14	15	1969	0	36	52	1996	0	59	29
1943	0	15	05	1970	0	37	43	1997	1	0	19
1944	0	15	56	1971	0	38	33	1998	1	1	10
1945	0	16	45	1972	0	39	23	1999	1	2	00
1946	0	17	35	1973	0	40	13	2000	1	2	50
1947	0	18	26	1974	0	41	04				

N. B.—To Calculate the Ayanamsa for years after 2000 A.D. please use the method given in my Raja Jyothida Ganitham.

கி. பி. 2000-ஹித்திற்கு மேற்பட்ட வருஷங்களுக்கு அயனம் சம் கணிக்க என்னுடைய இராஜ ஜோதிடகணிதம் என்ற புத்தகத்தை உபயோகப்படுத்தவும்.

TABLE 8.—வாக்கியம் 8.

•Increase of Ayanamsa for odd days= b (to the second of arc.)

சொச்ச தினங்களுக்குரிய அயனும்சம்= b (அகலையில்.)

Days. நாள் கள்.	b. அ.	Days. நாள் கள்.	b. அ.	Days. நாள் கள்.	b. அ.	Days. நாள் கள்.	b. அ.	Days. நாள் கள்.	b. அ.
0	0.0	5	0.7	10	1.4	60	8.2	200	27.4
1	0.1	6	0.8	20	2.7	70	9.6	300	41.1
2	0.3	7	1.0	30	4.1	80	11.0		
3	0.4	8	1.1	40	5.5	90	12.3		
4	0.5	9	1.2	50	6.8	100	13.7		

12 Tables of Bhavas—லக்கினஸ்புட், பாவஸ்புட், வாக்கியம்.

TABLE 9.

Latitude Degree 0 North.

வாக்கியம் 9.

அகஷாட்சம் பாகை 0 வடக்கு

Astrological Table of Lagna (ie Udaya Lagna or Ascendant) and Other Bhavas (ie Houses) in Tropical Longitude

ஜாதக லக்கினஸ்புட்மும் மற்றப் பாவங்களின் ஸ்புட்மும் (சாயனம்)

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி	நிமி.	பா.	கலை.	பா.	கலை.	மணி	நிமி.	பா.	கலை.	பா.	கலை.
(1)	(2)	(3)	(4)	(5)	(6)	(1)	(2)	(3)	(4)	(5)	(6)
0 00	90 00	0 00	0 00	5 48	176 44	87 15					
0 12	92 45	3 16	6 00	180 00	90 00						
0 24	95 30	6 32	6 12	183 16	92 45						
0 36	98 16	9 48	6 24	186 32	95 30						
0 48	101 02	13 03	6 36	189 47	98 16						
1 00	103 48	16 17	6 48	193 03	101 02						
1 12	106 35	19 30	7 00	196 17	103 49						
1 24	109 24	22 43	7 12	199 29	106 36						
1 36	112 13	25 53	7 24	202 42	109 24						
1 48	115 06	29 03	7 36	205 52	112 13						
2 00	117 55	32 11	7 48	209 03	115 03						
2 12	120 47	35 18	8 00	212 11	117 55						
2 24	123 42	38 23	8 12	215 17	120 47						
2 36	126 36	41 26	8 24	218 22	123 41						
2 48	129 34	44 28	8 36	221 26	126 37						
3 00	132 32	47 28	8 48	224 28	129 33						
3 12	135 32	50 27	9 00	227 28	132 32						
3 24	138 34	53 23	9 12	230 26	135 32						
3 36	141 38	56 19	9 24	233 24	138 34						
3 48	144 43	59 13	9 36	236 18	141 37						
4 00	147 49	62 05	9 48	239 13	144 42						
4 12	150 57	64 57	10 00	242 05	147 49						
4 24	154 08	67 47	10 12	244 54	150 57						
4 36	157 18	70 36	10 24	247 47	154 07						
4 48	160 31	73 24	10 36	250 36	157 17						
5 00	163 43	76 11	10 48	253 25	160 30						
5 12	166 57	78 58	11 00	256 12	163 43						
5 24	170 13	81 44	11 12	258 58	166 57						
5 36	173 28	84 30	11 24	261 44	170 12						

14 Tables of Bhavas—லக்கினஸ்புடய, பாவஸ்புடய வாக்கியம்.

TABLE 9. (Contd.)

வாக்கியம் 9. (துடர்ச்சி.)

Latitude Degree 1 North

அகூரம்சம் பாகை 1 வடக்கு

Siderial Time நட்சத்திர வேறாரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர வேறாரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	90	24	0	00	6	12	183	15	92	45
0	12	93	09	3	16	6	24	186	29	95	30
0	24	95	54	6	32	6	36	189	43	98	16
0	36	98	40	9	48	6	48	192	57	101	02
0	48	101	26	13	03	7	00	194	10	103	49
1	00	104	12	16	17	7	12	199	21	106	36
1	12	106	59	19	30	7	24	202	33	109	24
1	24	109	46	22	43	7	36	205	42	112	13
1	36	112	36	25	53	7	48	208	50	115	03
1	48	115	26	29	03	8	00	211	58	117	55
2	00	118	16	32	11	8	12	215	03	120	47
2	12	121	08	35	18	8	24	218	07	123	41
2	24	124	02	38	23	8	36	221	09	126	37
2	36	126	57	41	26	8	48	224	10	129	33
2	48	129	53	44	28	9	00	227	10	132	32
3	00	132	50	47	28	9	12	230	07	135	32
3	12	135	50	50	27	9	24	233	03	138	34
3	24	138	51	53	23	9	36	235	58	141	37
3	36	141	53	56	19	9	48	238	52	144	42
3	48	144	57	59	13	10	00	241	44	147	49
4	00	148	02	62	05	10	12	244	34	150	57
4	12	151	10	64	57	10	24	247	24	154	07
4	24	154	18	67	47	10	36	250	14	157	17
4	36	157	27	70	36	10	48	253	01	160	30
4	48	160	39	73	24	11	00	255	48	163	43
5	00	165	50	76	11	11	12	258	34	166	57
5	12	167	03	78	58	11	24	261	20	170	12
5	24	170	17	81	44	11	36	264	06	173	28
5	36	173	31	84	30	11	48	266	51	176	44
5	48	176	45	87	15	12	00	269	36	180	00
6	00	180	00	90	00	12	12	272	22	183	16

TABLE 9. (Contd.)

Latitude Degree 1 North.

வாக்கியம் 9. (துடர்ச்சி.)

அகூரம்சம் பாகை 1 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)	(2)	(3)		(1)	(2)	(3)		(1)	(2)	(3)	
12	24	274	44	186	32	18	24	6	35	275	30
12	36	277	53	189	48	18	36	9	53	278	16
12	48	280	38	193	08	18	48	13	08	281	02
13	00	283	25	196	17	19	00	16	25	283	49
13	12	286	13	199	30	19	12	19	39	286	36
13	24	289	01	202	43	19	24	22	52	289	24
13	36	291	22	205	53	19	36	26	05	292	13
13	48	294	42	209	03	19	48	29	15	295	03
14	00	297	33	212	11	20	00	32	25	297	55
14	12	300	26	215	18	20	12	35	32	300	47
14	24	303	21	218	23	20	24	38	38	303	41
14	36	306	17	221	26	20	36	41	43	306	37
14	48	309	14	224	28	20	48	44	46	309	33
15	00	312	14	227	28	21	00	47	46	312	32
15	12	315	14	230	27	21	12	50	46	315	32
15	24	318	17	233	23	21	24	53	43	318	34
15	36	321	22	236	19	21	36	56	39	321	37
15	48	324	28	239	13	21	48	59	34	324	42
16	00	327	35	242	05	22	00	62	27	327	49
16	12	330	45	244	57	22	12	65	18	330	57
16	24	333	55	247	47	22	24	68	38	334	07
16	36	337	08	250	36	22	36	70	59	337	17
16	48	340	21	253	24	22	48	73	47	340	30
17	00	343	35	256	11	23	00	76	35	343	43
17	12	346	52	258	58	23	12	79	22	346	57
17	24	350	07	261	44	23	24	82	07	350	12
17	36	353	25	264	30	23	36	85	16	353	28
17	48	356	43	267	15	23	48	87	38	356	44
18	00	360	00	270	00	24	00	90	24	360	00
18	12	3	17	272	45						

16 Tables of Bhavas—லக்கினஸ்புட, பாவஸ்புட வாக்கியம்.

TABLE 9. (Contd.)

Latitude Degree 2 North

வாக்கியம் 9. (துடர்ச்சி.)

அகூரம்சம் பாகை 2 வடக்கு

Sidereal Time		Udaya Lagna		Dasama Lagna		Sidereal Time		Udaya Lagna		Dasama Lagna	
நட்சத்திர ஹோரை		உதைய லக்கினம்		தசம லக் கினம்		நட்சத்திர ஹோரை		உதைய லக்கினம்		தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி	நிமி.	பா.	கலை.	பா.	கலை.	மணி	நிமி.	பா.	கலை.	பா.	கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	90	47	0	00	6	12	183	13	92	45
0	12	93	33	3	16	6	24	186	26	95	30
0	24	96	17	6	32	6	36	189	39	98	16
0	36	99	03	9	48	6	48	192	51	101	02
0	48	101	49	13	03	7	00	196	03	103	49
1	00	104	34	16	17	7	12	199	13	106	36
1	12	107	22	19	30	7	24	202	23	109	24
1	24	110	09	22	43	7	36	205	31	112	13
1	36	112	58	25	53	7	48	208	38	115	03
1	48	115	47	29	03	8	00	211	44	117	55
2	00	118	37	32	11	8	12	214	49	120	47
2	12	121	29	35	18	8	24	217	52	123	41
2	24	124	21	38	23	8	36	220	53	126	37
2	36	127	15	41	26	8	48	223	54	129	33
2	48	130	11	44	28	9	00	226	52	132	32
3	00	133	08	47	28	9	12	229	49	135	32
3	12	136	06	50	27	9	24	232	45	138	34
3	24	139	07	53	23	9	36	235	39	141	37
3	36	142	08	56	19	9	48	238	31	144	42
3	48	145	11	59	13	10	00	241	23	147	49
4	00	148	16	62	05	10	12	244	13	150	57
4	12	151	22	64	57	10	24	247	02	154	07
4	24	154	29	67	47	10	36	249	51	157	17
4	36	157	37	70	36	10	48	252	38	160	30
4	48	160	47	73	24	11	00	255	26	163	43
5	00	163	57	76	11	11	12	258	11	166	57
5	12	167	09	78	58	11	24	260	57	170	12
5	24	170	21	81	44	11	36	263	43	173	28
5	36	173	34	84	30	11	48	266	27	176	44
5	48	176	47	87	15	12	00	269	13	180	00
6	00	180	00	90	00	12	12	271	57	183	16

Tables of Bhavas—லக்கினஸ்புட, பாவஸ்புட வாக்கியம். 17

TABLE 9. (Contd.)

Latitude Degree 2 North

வாக்கியம் 9. (துடர்ச்சி.)

அகஷாட்சம் பாகை 2 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி.	நிமி.	பா.	கலை.	பா.	கலை.	மணி.	நிமி.	பா.	கலை.	பா.	கலை.
(1)	(2)	(3)	(4)	(5)	(6)	(1)	(2)	(3)	(4)	(5)	(6)
12	24	274	43	186	32	18	24	6	39	275	30
12	36	277	29	189	48	18	36	9	57	278	16
12	48	280	15	193	03	18	48	13	14	281	02
13	00	283	02	196	17	19	00	16	32	283	49
13	12	285	50	199	30	19	12	19	48	286	36
13	24	288	38	202	43	19	24	23	02	289	24
13	36	290	59	205	53	19	36	26	15	292	13
13	48	294	19	209	03	19	48	29	28	295	03
14	00	297	11	212	11	20	00	32	38	297	55
14	12	300	05	215	18	20	12	35	47	300	47
14	24	303	00	218	23	20	24	38	54	303	41
14	36	305	57	221	26	20	36	41	59	306	37
14	48	308	55	224	28	20	48	45	02	309	33
15	00	311	55	227	28	21	00	48	05	312	32
15	12	314	58	230	27	21	12	51	05	315	32
15	24	318	01	233	23	21	24	54	03	318	34
15	36	321	06	236	19	21	36	57	00	321	37
15	48	324	13	239	13	21	48	59	55	324	42
16	00	327	22	242	05	22	00	62	49	327	49
16	12	330	32	244	57	22	12	65	41	330	57
16	24	333	45	247	47	22	24	69	00	333	07
16	36	336	58	250	36	22	36	71	22	337	17
16	48	340	12	253	24	22	48	74	10	340	30
17	00	343	28	256	11	23	00	76	58	343	43
17	12	346	46	258	58	23	12	79	45	346	57
17	24	350	03	261	44	23	24	82	31	350	12
17	36	353	21	264	30	23	36	85	17	353	28
17	48	356	41	267	15	23	48	88	03	356	44
18	00	360	00	270	00	24	00	90	47	360	00
18	12	3	19	272	45						

18 Tables of Bhavas—லக்கினஸ்புட, பாவஸ்புட வாக்கியம்.

TABLE 9. (Contd.)

Latitude Degree 3 North

வாக்கியம் 9. (துடர்ச்சி.)

அகூடாம்சம் பாகை 3 வடக்கு

Siderial Time நட்சத்திர ஹாரை		Udaya Lagna உதைய லக்கினம்		Dasarna Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹாரை		Udaya Lagna உதைய லக்கினம்		Dasarna Lagna தசம லக் கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	91	11	0	00	6	12	183	12	92	45
0	12	93	56	3	16	6	24	186	23	95	30
0	24	96	41	6	32	6	36	189	34	98	16
0	36	99	27	9	48	6	48	192	45	101	02
0	48	102	12	13	03	7	00	195	56	103	49
1	00	104	58	16	17	7	12	199	05	106	36
1	12	107	44	19	30	7	24	202	14	109	24
1	24	110	31	22	43	7	36	205	21	112	13
1	36	113	20	25	53	7	48	208	26	115	03
1	48	116	08	29	03	8	00	211	32	117	55
2	00	118	58	32	11	8	12	214	34	120	47
2	12	121	49	35	18	8	24	217	37	123	41
2	24	124	41	38	23	8	36	220	38	126	37
2	36	127	35	41	26	8	48	223	37	129	33
2	48	130	30	44	28	9	00	226	34	132	32
3	00	133	26	47	28	9	12	229	30	135	32
3	12	136	23	50	27	9	24	232	25	138	34
3	24	139	22	53	23	9	36	235	19	141	37
3	36	142	23	56	19	9	48	238	11	144	42
3	48	145	26	59	13	10	00	241	02	147	49
4	00	148	28	62	05	10	12	243	52	150	57
4	12	151	34	64	57	10	24	246	40	154	07
4	24	154	39	67	47	10	36	249	29	157	17
4	36	157	46	70	36	10	48	252	16	160	30
4	48	160	55	73	24	11	00	255	02	163	43
5	00	164	04	76	11	11	12	257	48	166	57
5	12	167	15	78	58	11	24	260	33	170	12
5	24	170	26	81	44	11	36	263	19	173	28
5	36	173	37	84	30	11	48	266	04	176	44
5	48	176	48	87	15	12	00	268	49	180	00
6	00	180	00	90	00	12	12	271	27	183	16

TABLE 9. (Contd.)

Latitude Degree 3 North

வாக்கியம் 9. (துடர்ச்சி.)

அகூடாம்சம் பாகை 3 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி.	நிமி.	பா.	கலை.	பா.	கலை.	மணி.	நிமி.	பா.	கலை.	பா.	கலை.
(1)	(2)	(3)		(1)	(2)	(3)					
12	24	274	18	186	32	18	24	6	41	275	30
12	36	277	05	189	48	18	36	10	00	278	16
12	48	279	44	193	03	18	48	13	21	281	02
13	00	282	38	196	17	19	00	16	39	283	49
13	12	285	27	199	30	19	12	20	01	286	36
13	24	288	16	202	43	19	24	23	12	289	24
13	36	291	06	205	53	19	36	26	27	292	13
13	48	293	57	209	03	19	48	29	41	295	03
14	00	296	50	212	11	20	00	32	52	297	55
14	12	299	44	215	18	20	12	36	02	300	47
14	24	302	40	218	23	20	24	39	11	303	41
14	36	305	36	221	26	20	36	42	17	306	37
14	48	308	35	224	28	20	48	45	21	309	33
15	00	311	36	227	28	21	00	48	24	312	32
15	12	314	39	230	27	21	12	51	25	315	32
15	24	317	43	233	23	21	24	54	24	318	34
15	36	320	49	236	19	21	36	57	20	321	37
15	48	323	58	239	13	21	48	60	16	324	42
16	00	327	08	242	05	22	00	63	10	327	49
16	12	330	19	244	57	22	12	66	03	330	57
16	24	333	33	247	47	22	24	68	54	334	07
16	36	336	48	250	36	22	36	71	44	337	17
16	48	339	59	253	24	22	48	74	33	340	30
17	00	343	21	256	11	23	00	77	22	343	43
17	12	346	39	258	58	23	12	80	16	346	57
17	24	350	00	261	44	23	24	82	55	350	12
17	36	353	19	264	30	23	36	85	42	353	28
17	48	356	40	267	15	23	48	88	33	356	44
18	00	360	00	270	00	24	00	91	11	360	00
18	12	3	3	20	272	45					

20 Tables of Bhavas—லக்கினஸ்புட, பாவஸ்புட வாக்கியம்.

TARIFA 9. (Contd.)
வாக்கியம் 9. (துடர்ச்சி).

Latitude Degree 4 North.
அகாட்சம் பாகை 4 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி	நிமி.	பா.	கலை.	பா.	கலை.	மணி	நிமி.	பா.	கலை.	பா.	கலை.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
0 00	91 34	0 00	6 12	183 11	92 45	0 12	94 20	3 16	6 24	186 21	95 30
0 24	97 05	6 32	6 36	189 31	98 16	0 36	99 49	9 48	6 48	192 40	101 02
0 48	102 35	13 03	7 00	195 49	103 49	0 48	105 21	16 17	7 12	198 56	106 36
1 00	105 21	16 17	7 12	198 56	106 36	1 12	108 07	19 30	7 24	202 04	109 24
1 12	108 07	19 30	7 24	202 04	109 24	1 24	110 53	22 43	7 36	205 10	112 13
1 24	110 53	22 43	7 36	205 10	112 13	1 36	113 41	25 53	7 48	208 15	115 03
1 36	113 41	25 53	7 48	208 15	115 03	1 48	116 29	29 03	8 00	211 18	117 55
1 48	116 29	29 03	8 00	211 18	117 55	2 00	119 19	32 11	8 12	214 21	120 47
2 00	119 19	32 11	8 12	214 21	120 47	2 12	122 09	35 18	8 24	217 22	123 41
2 12	122 09	35 18	8 24	217 22	123 41	2 24	125 01	38 23	8 36	220 22	126 37
2 24	125 01	38 23	8 36	220 22	126 37	2 36	127 53	41 26	8 48	223 54	129 33
2 36	127 53	41 26	8 48	223 54	129 33	2 48	130 48	44 28	9 00	226 17	132 32
2 48	130 48	44 28	9 00	226 17	132 32	3 00	133 43	47 28	9 12	229 12	135 32
3 00	133 43	47 28	9 12	229 12	135 32	3 12	136 06	50 27	9 24	232 07	138 34
3 12	136 06	50 27	9 24	232 07	138 34	3 24	139 38	53 23	9 36	234 59	141 37
3 24	139 38	53 23	9 36	234 59	141 37	3 36	142 38	56 19	9 48	237 51	144 42
3 36	142 38	56 19	9 48	237 51	144 42	3 43	145 39	59 13	10 00	240 41	147 49
3 43	145 39	59 13	10 00	240 41	147 49	4 00	148 42	62 05	10 12	243 31	150 57
4 00	148 42	62 05	10 12	243 31	150 57	4 12	151 45	64 57	10 24	246 19	154 07
4 12	151 45	64 57	10 24	246 19	154 07	4 24	154 50	67 47	10 36	249 07	157 17
4 24	154 50	67 47	10 36	249 07	157 17	4 36	157 56	70 36	10 48	251 53	160 30
4 36	157 56	70 36	10 48	251 53	160 30	4 48	161 04	73 24	11 00	254 39	163 43
4 48	161 04	73 24	11 00	254 39	163 43	5 00	164 11	76 11	11 12	257 25	166 57
5 00	164 11	76 11	11 12	257 25	166 57	5 12	167 20	78 58	11 24	260 11	170 12
5 12	167 20	78 58	11 24	260 11	170 12	5 24	170 29	81 44	11 36	262 55	173 28
5 24	170 29	81 44	11 36	262 55	173 28	5 36	173 39	84 30	11 48	265 40	176 44
5 36	173 39	84 30	11 48	265 40	176 44	5 48	176 49	87 15	12 00	268 26	180 00
5 48	176 49	87 15	12 00	268 26	180 00	6 00	180 00	90 00	12 12	271 10	183 16
6 00	180 00	90 00	12 12	271 10	183 16						

TABLE 9. (Contd.)
வாக்கியம் 9. (துடர்ச்சி.)

Latitude Degree 4 North
அக்டாம்பம்சம் பாகை 4 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs. Ms.	Ds. Ms.	Ds. Ms.	Ds. Ms.	Hrs. Ms.	Ds. Ms.	Hrs. Ms.	Ds. Ms.	Ds. Ms.	Ds. Ms.	Ds. Ms.	Ds. Ms.
மணி. நிமி.	பா. கலை.	பா. கலை.	பா. கலை.	மணி. நிமி.	பா. கலை.	மணி. நிமி.	பா. கலை.	பா. கலை.	பா. கலை.	பா. கலை.	பா. கலை.
(1)	(2)	(3)	(4)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
12 24	273 55	186 32	18 24	6 45	275 30	12 24	276 42	189 48	18 36	10 06	278 16
12 36	276 42	189 48	18 36	10 06	278 16	12 48	279 28	193 03	18 48	13 27	281 02
12 48	279 28	193 03	18 48	13 27	281 02	13 00	282 16	196 17	19 00	16 47	283 49
13 00	282 16	196 17	19 00	16 47	283 49	13 12	285 03	199 30	19 12	20 06	286 36
13 12	285 03	199 30	19 12	20 06	286 36	13 24	287 53	202 43	19 24	23 23	289 24
13 24	287 53	202 43	19 24	23 23	289 24	13 36	290 43	205 53	19 36	26 39	292 13
13 36	290 43	205 53	19 36	26 39	292 13	13 48	293 35	209 03	19 48	29 54	295 03
13 48	293 35	209 03	19 48	29 54	295 03	14 00	296 28	212 11	20 00	33 07	297 55
14 00	296 28	212 11	20 00	33 07	297 55	14 12	299 22	215 18	20 12	36 17	300 47
14 12	299 22	215 18	20 12	36 17	300 47	14 24	302 18	218 23	20 24	39 26	303 41
14 24	302 18	218 23	20 24	39 26	303 41	14 36	305 26	221 26	20 36	42 33	306 37
14 36	305 26	221 26	20 36	42 33	306 37	14 48	308 17	224 28	20 48	45 39	309 33
14 48	308 17	224 28	20 48	45 39	309 33	15 00	311 18	227 28	21 00	48 42	312 32
15 00	311 18	227 28	21 00	48 42	312 32	15 12	314 21	230 27	21 12	51 43	316 32
15 12	314 21	230 27	21 12	51 43	316 32	15 24	317 27	233 23	21 24	54 34	318 34
15 24	317 27	233 23	21 24	54 34	318 34	15 36	320 34	236 19	21 36	57 42	321 37
15 36	320 34	236 19	21 36	57 42	321 37	15 48	323 43	239 13	21 48	60 38	324 42
15 48	323 43	239 13	21 48	60 38	324 42	16 00	326 53	242 05	22 00	63 32	327 49
16 00	326 53	242 05	22 00	63 32	327 49	16 12	330 06	244 57	22 12	66 25	330 57
16 12	330 06	244 57	22 12	66 25	330 57	16 24	333 21	247 47	22 24	69 17	334 07
16 24	333 21	247 47	22 24	69 17	334 07	16 36	336 37	250 36	22 36	72 07	337 17
16 36	336 37	250 36	22 36	72 07	337 17	16 48	339 54	253 24	22 48	74 57	340 30
16 48	339 54	253 24	22 48	74 57	340 30	17 00	343 13	256 11	23 00	77 44	343 43
17 00	343 13	256 11	23 00	77 44	343 43	17 12	346 33	258 58	23 12	80 32	346 57
17 12	346 33	258 58	23 12	80 32	346 57	17 24	349 54	261 44	23 24	83 18	350 12
17 24	349 54	261 44	23 24	83 18	350 12	17 36	353 15	264 30	23 36	86 05	353 28
17 36	353 15	264 30	23 36	86 05	353 28	17 48	356 34	267 15	23 48	88 50	356 44
17 48	356 34	267 15	23 48	88 50	356 44	18 00	360 00	270 00	24 00	91 34	360 00
18 00	360 00	270 00	24 00	91 34	360 00	18 12	3 26	272 45			

TABLE 9. (Contd.)

Latitude Degree 5 North

வாக்கியம் 9. (துடர்ச்சி.)

அகூதாம்சம் பாகை 5 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)	(2)	(3)		(1)	(2)	(3)					
0 00	91 59	0 00		6 12	183 09	92 45					
0 12	94 44	3 16		6 24	186 18	95 30					
0 24	97 28	6 32		6 36	189 27	98 16					
0 36	100 13	9 48		6 48	192 35	101 02					
0 48	102 59	13 03		7 00	195 42	103 49					
1 00	105 43	16 17		7 12	198 48	106 36					
1 12	108 30	19 30		7 24	201 54	109 24					
1 24	111 29	22 43		7 36	204 59	112 13					
1 36	114 03	25 53		7 48	208 03	115 03					
1 48	116 51	29 03		8 00	211 06	117 55					
2 00	119 40	32 11		8 12	214 36	120 47					
2 12	122 30	35 18		8 24	217 07	123 41					
2 24	125 21	38 23		8 36	220 06	126 37					
2 36	128 13	41 26		8 48	223 03	129 33					
2 48	131 07	44 28		9 00	225 40	132 32					
3 00	134 20	47 28		9 12	228 53	135 32					
3 12	136 57	50 27		9 24	231 47	138 34					
3 24	139 54	53 23		9 36	234 39	141 37					
3 36	142 53	56 19		9 48	237 30	144 42					
3 48	145 24	59 13		10 00	240 20	147 49					
4 00	148 54	62 05		10 12	243 09	150 57					
4 12	151 57	64 57		10 24	245 57	154 07					
4 24	155 01	67 47		10 36	248 31	157 17					
4 36	158 06	70 36		10 48	251 30	160 30					
4 48	161 12	73 24		11 00	254 17	163 43					
5 00	164 18	76 11		11 12	257 01	166 57					
5 12	167 25	78 58		11 24	259 47	170 12					
5 24	170 33	81 44		11 36	262 32	173 28					
5 36	173 42	84 30		11 48	265 16	176 44					
5 48	176 51	87 15		12 00	268 01	180 00					
6 00	180 00	90 00		12 12	270 46	183 16					

TABLE 9. (Contd.)

Latitude Degree 5 North.

வாக்கியம் 9. (துடர்ச்சி.)

அகூரம்சம் பாகை 5 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)	(2)	(3)		(1)	(2)	(3)		(3)		(3)	
12	24	273	32	186	32	18	24	6	48	275	30
12	36	276	18	189	48	18	36	10	11	278	16
12	48	279	04	193	03	18	48	13	33	281	02
13	00	281	51	196	17	19	00	16	54	283	49
13	12	284	40	199	30	19	12	20	15	286	36
13	24	287	29	202	43	19	24	23	33	289	24
13	36	290	20	205	53	19	36	26	51	292	13
13	48	293	12	209	03	19	48	30	06	295	03
14	00	296	05	212	11	20	00	33	21	297	55
14	12	299	01	215	18	20	12	36	33	300	47
14	24	301	57	218	23	20	24	39	43	303	41
14	36	304	55	221	26	20	36	42	32	306	37
14	48	307	56	224	28	20	48	45	57	309	33
15	00	310	58	227	28	21	00	49	02	312	32
15	12	314	03	230	27	21	12	52	04	315	32
15	24	317	28	233	23	21	24	55	05	318	34
15	36	320	17	236	19	21	36	58	03	321	37
15	48	323	27	239	13	21	48	60	59	324	42
16	00	326	39	242	05	22	00	63	55	327	49
16	12	329	54	244	57	22	12	66	48	330	57
16	24	333	09	247	47	22	24	69	40	334	07
16	36	336	27	250	36	22	36	72	31	337	17
16	48	339	45	253	24	22	48	75	20	340	30
17	00	343	06	256	11	23	00	78	09	343	43
17	12	346	27	258	58	23	12	80	56	346	57
17	24	349	49	261	44	23	24	83	42	350	12
17	36	353	12	264	30	23	36	86	28	353	28
17	48	356	35	267	15	23	48	89	14	356	44
18	00	360	00	270	00	24	00	91	59	360	00
18	12	3	25	273	45						

24 Tables of Bhavas—லக்கினஸ்புட, பாவஸ்புட வாக்கியம்.

TABLE 9. (Contd.)

Latitude Degree 6 North

வாக்கியம் 9. (தொடர்ச்சி.)

அகாசம்சம் பாகை 6 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)	(2)	(3)		(1)	(2)	(3)					
0 00	92 23	0 00	6 12	183 07	92 45						
0 12	95 08	3 16	6 24	186 15	95 30						
0 24	97 53	6 32	6 36	189 22	98 16						
0 36	100 37	9 48	6 48	192 29	101 02						
0 48	103 21	13 03	7 00	195 36	103 49						
1 00	106 07	16 17	7 12	198 41	106 36						
1 12	108 52	19 30	7 24	201 46	109 24						
1 24	111 52	22 43	7 36	204 48	112 13						
1 36	114 26	25 53	7 48	207 51	115 03						
1 48	117 13	29 03	8 00	210 53	117 55						
2 00	120 01	32 11	8 12	213 53	120 47						
2 12	122 50	35 18	8 24	216 52	123 41						
2 24	125 40	38 23	8 36	219 49	126 37						
2 36	128 32	41 26	8 48	222 46	129 33						
2 48	131 24	44 28	9 00	225 42	132 32						
3 00	134 18	47 28	9 12	228 36	135 32						
3 12	137 14	50 27	9 24	231 28	138 34						
3 24	140 11	53 23	9 36	234 20	141 37						
3 36	143 08	56 19	9 48	237 10	144 42						
3 48	146 07	59 13	10 00	239 59	147 49						
4 00	149 07	62 05	10 12	242 47	150 57						
4 12	152 09	64 57	10 24	245 34	154 07						
4 24	155 12	67 47	10 36	248 08	157 17						
4 36	158 14	70 36	10 48	251 08	160 30						
4 48	161 19	73 24	11 00	253 53	163 43						
5 00	164 24	76 11	11 12	256 39	166 57						
5 12	167 31	78 58	11 24	259 23	170 12						
5 24	170 38	81 44	11 36	262 07	173 28						
5 36	173 45	84 30	11 48	264 52	176 44						
5 48	176 53	87 15	12 00	267 37	180 00						
6 00	180 00	90 00	12 12	270 21	183 16						

TABLE 9. (Contd.)

Latitude Degree 6 North

வாக்கியம் 9. (குடர்ச்சி.)

அகாசம்சம் பாகை 6 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	273	07	186	32	18	24	6	43	275	30
12	36	275	53	189	48	18	36	10	15	278	16
12	48	278	40	193	03	18	48	13	38	281	02
13	00	281	27	196	17	19	00	17	02	283	49
13	12	284	07	199	30	19	12	20	24	286	36
13	24	287	06	202	43	19	24	23	44	289	24
13	36	289	58	205	53	19	36	27	03	292	13
13	48	292	49	209	03	19	48	30	40	295	03
14	00	295	44	212	11	20	00	33	34	297	55
14	12	298	38	215	18	20	12	36	48	300	47
14	24	301	36	218	23	20	24	40	00	303	41
14	36	304	34	221	26	20	36	43	09	306	37
14	48	407	35	224	28	20	48	46	16	309	33
15	00	310	39	227	28	21	00	49	21	312	32
15	12	313	44	230	27	21	12	52	25	315	32
15	24	316	51	233	23	21	24	55	26	318	34
15	36	320	00	236	19	21	36	58	24	321	37
15	48	323	12	239	13	21	48	61	22	324	42
16	00	326	26	242	05	22	00	64	16	327	49
16	12	329	20	244	57	22	12	67	11	330	57
16	24	332	57	247	47	22	24	70	02	334	07
16	36	336	16	250	36	22	36	72	54	337	17
16	48	339	36	253	24	22	48	75	53	340	30
17	00	342	58	256	11	23	00	78	33	343	43
17	12	346	22	258	58	23	12	81	20	346	57
17	24	349	45	261	44	23	24	84	07	350	12
17	36	353	12	264	30	23	36	86	53	353	28
17	48	356	34	267	15	23	48	89	39	356	44
18	00	360	00	270	00	24	00	92	23	360	00
18	12	3	26	272	45						

26 Tables of Bhavas—லக்கினஸ்புட, பாவஸ்புட வாக்கியம்.

TABLE 9. (Contd.)

Latitude Degree 7 North

வாக்கியம் 9. (துடர்ச்சி.)

அகநாமச்சம் பாகை 7 வடக்கு

Siderial Time நட்சத்திர ஹேராரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹேராரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி.	நிமி.	பா.	கலை.	பா.	கலை.	மணி.	நிமி.	பா.	கலை.	பா.	கலை.
(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)
0 00	92 46	0 00	6 12	183 06	92 45	0 12	95 31	3 16	6 24	186 18	95 30
0 24	98 16	6 32	6 36	189 19	98 16	0 36	101 00	9 48	6 48	191 38	101 02
0 48	103 45	13 03	7 00	195 29	103 49	1 00	106 30	16 17	7 12	198 33	106 36
1 12	109 14	19 30	7 24	201 36	109 24	1 24	112 01	22 43	7 36	204 38	112 13
1 36	114 47	25 53	7 48	207 40	115 03	1 48	117 33	29 03	8 00	210 40	117 55
2 00	120 22	32 11	8 12	213 40	120 47	2 12	123 10	35 18	8 24	216 37	123 41
2 24	126 00	38 23	8 36	219 34	126 37	2 36	128 50	41 26	8 48	222 30	129 33
2 48	131 43	44 28	9 00	225 24	132 32	3 00	134 36	47 28	9 12	228 17	135 32
3 12	137 30	50 27	9 24	231 10	138 34	3 24	140 26	53 23	9 36	234 00	141 37
3 36	143 23	56 19	9 48	236 50	144 42	3 48	146 20	59 13	10 00	239 38	147 49
4 00	149 20	62 05	10 12	242 27	150 57	4 12	152 20	64 57	10 24	245 13	154 07
4 24	155 22	67 47	10 36	147 59	157 17	4 36	158 24	70 36	10 48	250 46	160 30
4 48	161 27	73 24	11 00	153 30	163 43	5 00	164 31	76 11	11 12	256 15	166 57
5 12	168 22	78 58	11 24	259 00	170 12	5 24	170 41	81 44	11 36	261 44	173 28
5 36	173 42	84 30	11 48	264 29	176 44	5 48	176 54	87 15	12 00	267 14	180 00
6 00	180 00	90 00	12 12	269 58	183 16						

TABLE 9. (Contd.)

Latitude Degree 7 North

வாக்கியம் 9. (துடர்ச்சி.)

அக்டாம்பம்சம் பாகை 7 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி.	நிமி.	பா.	கலை.	பா.	கலை.	மணி.	நிமி.	பா.	கலை.	பா.	கலை.
(1)	(2)	(3)				(1)	(2)	(3)			
12	24	272	44	186	32	18	24	6	54	275	30
12	36	275	29	189	43	18	36	10	20	278	16
12	48	278	13	193	03	18	48	13	46	281	02
13	00	281	04	196	17	19	00	17	10	283	49
13	12	283	53	199	30	19	12	20	33	286	36
13	24	286	43	202	43	19	24	23	55	289	24
13	36	289	34	205	53	19	36	27	39	292	13
13	48	292	27	209	03	19	48	30	34	295	03
14	00	295	21	212	11	20	00	33	50	297	55
14	12	298	17	215	18	20	12	37	05	300	47
14	24	301	15	218	23	20	24	40	17	303	41
14	36	304	14	221	26	20	36	43	26	306	37
14	48	307	16	224	23	20	48	46	35	309	33
15	00	310	20	227	28	21	00	49	40	312	32
15	12	313	25	230	27	21	12	52	44	315	32
15	24	316	34	233	23	21	24	55	46	318	34
15	36	319	43	236	19	21	36	58	45	321	37
15	48	322	55	239	13	21	48	61	43	324	42
16	00	326	10	242	05	22	00	64	39	327	49
16	12	329	26	244	57	22	12	67	33	330	57
16	24	332	21	247	47	22	24	70	26	334	07
16	36	336	05	250	36	22	36	73	17	337	17
16	48	339	27	253	24	22	48	76	07	340	30
17	00	342	50	256	11	23	00	78	56	343	43
17	12	346	14	258	58	23	12	81	47	346	57
17	24	349	40	261	44	23	24	84	31	350	12
17	36	353	06	264	30	23	36	87	16	353	28
17	48	356	33	267	15	23	48	80	02	356	44
18	00	360	00	270	00	24	00	92	46	360	00
18	12	3	27	272	45						

28 Tables of Bhavas—லக்கினஸ்புட, பாவஸ்புட வாக்கியம்.

TABLE 9. (Contd.)
வாக்கியம் 9. (துடர்ச்சி.)

Latitude Degree 8 North.
அகூதாம்சம் பாகை 8 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி	நிமி.	பா.	கலை.	பா.	கலை.	மணி	நிமி.	பா.	கலை.	பா.	கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	93	11	0	00	6	12	183	05	92	45
0	12	95	55	3	16	6	24	186	10	95	30
0	24	98	40	6	32	6	36	190	00	98	16
0	36	101	24	9	48	6	48	192	19	101	02
0	48	104	08	13	03	7	00	195	22	103	49
1	00	106	53	16	17	7	12	198	25	106	36
1	12	109	37	19	30	7	24	201	27	109	24
1	24	112	23	22	43	7	36	204	29	112	13
1	36	115	09	25	53	7	48	207	29	115	03
1	48	117	55	29	03	8	00	210	28	117	55
2	00	120	42	32	11	8	12	213	26	120	47
2	12	123	30	35	18	8	24	216	23	123	41
2	24	126	19	38	23	8	36	219	19	126	37
2	36	129	09	41	26	8	48	222	14	129	33
2	48	132	00	44	28	9	00	225	07	132	32
3	00	134	53	47	28	9	12	228	00	135	32
3	12	137	46	50	27	9	24	230	51	138	34
3	24	140	41	53	23	9	36	233	41	141	37
3	36	143	37	56	19	9	48	236	30	144	42
3	48	146	34	59	13	10	00	239	18	147	49
4	00	149	32	62	05	10	12	242	05	150	57
4	12	152	31	64	57	10	24	244	51	154	07
4	24	155	31	67	47	10	36	247	37	157	17
4	36	158	33	70	36	10	48	250	23	160	30
4	48	161	35	73	24	11	00	253	07	163	43
5	00	164	38	76	11	11	12	255	52	166	57
5	12	167	41	78	58	11	24	258	36	170	12
5	24	170	46	81	44	11	36	261	20	173	28
5	36	173	50	84	30	11	48	264	05	176	44
5	48	176	55	87	15	12	00	266	49	180	00
6	00	180	00	90	00	12	12	269	34	183	16

TABLE 9. (Contd.)

Latitude Degree 8 North

வாக்கியம் 9. (தூடர்ச்சி.)

அசுஷாம்சம் பாகை 8 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs. Ms.		Ds. Ms.		Ds. Ms.		Hrs. Ms.		Ds. Ms.		Ds. Ms.	
மணி. நிமி.		பா. கலை.		பா. கலை.		மணி. நிமி.		பா. கலை.		பா. கலை.	
(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)
12 24	272 19	186 32	18 24	6 57	275 30	12 24	6 57	275 30	18 24	6 57	275 30
12 36	275 05	189 48	18 36	10 26	278 16	12 36	10 26	278 16	18 36	10 26	278 16
12 48	277 52	193 03	18 48	13 52	281 02	12 48	13 52	281 02	18 48	13 52	281 02
13 00	280 40	196 17	19 00	17 18	283 49	13 00	17 18	283 49	19 00	17 18	283 49
13 12	283 28	199 30	19 12	20 44	286 36	13 12	20 44	286 36	19 12	20 44	286 36
13 24	286 19	202 43	19 24	24 07	289 24	13 24	24 07	289 24	19 24	24 07	289 24
13 36	289 10	205 53	19 36	27 28	292 13	13 36	27 28	292 13	19 36	27 28	292 13
13 48	292 04	209 03	19 48	30 48	295 03	13 48	30 48	295 03	19 48	30 48	295 03
14 00	294 58	212 11	20 00	34 05	297 55	14 00	34 05	297 55	20 00	34 05	297 55
14 12	297 54	215 18	20 12	37 20	300 47	14 12	37 20	300 47	20 12	37 20	300 47
14 24	300 52	218 23	20 24	40 34	303 41	14 24	40 34	303 41	20 24	40 34	303 41
14 36	303 52	221 26	20 36	43 46	306 37	14 36	43 46	306 37	20 36	43 46	306 37
14 48	306 55	224 28	20 48	46 54	309 33	14 48	46 54	309 33	20 48	46 54	309 33
15 00	310 00	227 28	21 00	50 00	312 32	15 00	50 00	312 32	21 00	50 00	312 32
15 12	313 06	230 27	21 12	53 05	315 32	15 12	53 05	315 32	21 12	53 05	315 32
15 24	316 14	233 23	21 24	56 08	318 34	15 24	56 08	318 34	21 24	56 08	318 34
15 36	319 26	236 19	21 36	59 05	321 37	15 36	59 05	321 37	21 36	59 05	321 37
15 48	322 40	239 13	21 48	62 06	324 42	15 48	62 06	324 42	21 48	62 06	324 42
16 00	325 55	242 05	22 00	65 02	327 49	16 00	65 02	327 49	22 00	65 02	327 49
16 12	329 12	244 57	22 12	67 56	330 57	16 12	67 56	330 57	22 12	67 56	330 57
16 24	332 32	247 47	22 24	70 50	334 07	16 24	70 50	334 07	22 24	70 50	334 07
16 36	335 53	250 36	22 36	73 41	337 17	16 36	73 41	337 17	22 36	73 41	337 17
16 48	339 16	253 24	22 48	76 32	340 30	16 48	76 32	340 30	22 48	76 32	340 30
17 00	342 42	256 11	23 00	79 20	343 43	17 00	79 20	343 43	23 00	79 20	343 43
17 12	346 08	258 58	23 12	82 08	346 57	17 12	82 08	346 57	23 12	82 08	346 57
17 24	349 34	261 44	23 24	84 55	350 12	17 24	84 55	350 12	23 24	84 55	350 12
17 36	353 03	264 30	23 36	87 41	353 28	17 36	87 41	353 28	23 36	87 41	353 28
17 48	356 32	267 15	23 48	90 26	356 44	17 48	90 26	356 44	23 48	90 26	356 44
18 00	360 00	270 00	24 00	93 11	360 00	18 00	93 11	360 00	24 00	93 11	360 00
18 12	3 28	272 45				18 12					

TABLE 9. (Contd.)

Latitude Degree **9** North

வாக்கியம் 9. (துடர்ச்சி.)

அகஷாம்சம் பாகை 9 வடக்கு

Siderial Time		Udaya Lagna		Dasama Lagna		Siderial Time		Udaya Lagna		Dasama Lagna	
நட்சத்திர ஹோரை		உதைய லக்கினம்		தசம லக் கினம்		நட்சத்திர ஹோரை		உதைய லக்கினம்		தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி.	நிமி.	பா.	கலை.	பா.	கலை.	மணி.	நிமி.	பா.	கலை.	பா.	கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	93	36	0	00	6	12	183	04	92	45
0	12	96	18	3	16	6	24	186	17	95	30
0	24	99	03	6	32	6	36	189	11	98	16
0	36	101	48	9	48	6	48	192	13	101	02
0	48	104	31	13	03	7	00	195	15	103	49
1	00	107	15	16	17	7	12	198	17	106	36
1	12	110	00	19	30	7	24	201	19	109	24
1	24	112	45	22	43	7	36	204	18	112	13
1	36	115	29	25	53	7	48	207	17	115	03
1	48	118	15	29	03	8	00	210	15	117	55
2	00	121	03	32	11	8	12	213	13	120	47
2	12	123	51	35	18	8	24	216	09	123	41
2	24	126	39	38	23	8	36	219	04	126	37
2	36	129	28	41	26	8	48	221	57	129	33
2	48	132	18	44	28	9	00	225	50	132	32
3	00	135	10	47	28	9	12	227	42	135	32
3	12	138	03	50	27	9	24	230	32	138	34
3	24	140	56	53	23	9	36	233	21	141	37
3	36	143	51	56	19	9	48	236	09	144	42
3	48	146	47	59	13	10	00	238	57	147	49
4	00	149	45	62	05	10	12	241	45	150	57
4	12	152	43	64	57	10	24	244	31	154	07
4	24	155	42	67	47	10	36	247	13	157	17
4	36	158	41	70	36	10	48	250	00	160	30
4	48	161	43	73	24	11	00	252	45	163	43
5	00	164	45	76	11	11	12	255	29	166	57
5	12	167	47	78	58	11	24	258	12	170	12
5	24	170	49	81	44	11	36	260	57	173	28
5	36	173	53	84	30	11	48	263	42	176	44
5	48	176	56	87	15	12	00	266	24	180	00
6	00	180	00	90	00	12	12	269	10	183	16

TABLE 9. (Contd.)

Latitude Degree 9 North.

வாக்கியம் 9. (துடர்ச்சி.)

அகாசம்சம் பாகை 9 வடக்கு

Sidereal Time			Udaya Lagna			Dasama Lagna			Sidereal Time			Udaya Lagna			Dasama Lagna		
நட்சத்திர ஹோரை			உதைய லக்கினம்			தசம லக் கினம்			நட்சத்திர ஹோரை			உதைய லக்கினம்			தசம லக் கினம்		
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி	நிமி.	பா.	கலை.	பா.	கலை.	மணி	நிமி.	பா.	கலை.	மணி	நிமி.	பா.	கலை.	மணி	நிமி.	பா.	கலை.
(1)	(2)	(3)	(4)	(5)	(6)	(1)	(2)	(3)	(4)	(5)	(6)	(1)	(2)	(3)	(4)	(5)	(6)
12	24	271	55	186	32	18	24	7	01	275	30	12	24	271	55	186	32
12	36	274	41	189	48	18	36	10	30	278	16	12	36	274	41	189	48
12	48	277	28	193	03	18	48	13	59	281	02	12	48	277	28	193	03
13	00	280	15	196	17	19	00	17	26	283	49	13	00	280	15	196	17
13	12	283	04	199	30	19	12	20	53	286	36	13	12	283	04	199	30
13	24	285	55	202	43	19	24	24	18	289	24	13	24	285	55	202	43
13	36	288	57	205	53	19	36	27	41	292	13	13	36	288	57	205	53
13	48	291	40	209	03	19	48	31	01	295	03	13	48	291	40	209	03
14	00	294	35	212	11	20	00	34	20	297	55	14	00	294	35	212	11
14	12	297	32	215	18	20	12	37	37	300	47	14	12	297	32	215	18
14	24	300	30	218	23	20	24	40	51	303	41	14	24	300	30	218	23
14	36	303	31	221	26	20	36	44	04	306	37	14	36	303	31	221	26
14	48	306	34	224	28	20	48	47	13	309	33	14	48	306	34	224	28
15	00	309	40	227	28	21	00	50	20	312	32	15	00	309	40	227	28
15	12	312	47	230	27	21	12	53	26	315	32	15	12	312	47	230	27
15	24	315	56	233	23	21	24	56	29	318	34	15	24	315	56	233	23
15	36	319	09	236	19	21	36	59	30	321	37	15	36	319	09	236	19
15	48	322	23	239	13	21	48	62	28	324	42	15	48	322	23	239	13
16	00	325	40	242	05	22	00	65	25	327	49	16	00	325	40	242	05
16	12	328	59	244	57	22	12	68	20	330	57	16	12	328	59	244	57
16	24	332	19	247	47	22	24	71	03	334	07	16	24	332	19	247	47
16	36	335	42	250	36	22	36	74	05	337	17	16	36	335	42	250	36
16	48	339	07	253	24	22	48	76	56	340	30	16	48	339	07	253	24
17	00	342	34	256	11	23	00	79	45	343	43	17	00	342	34	256	11
17	12	346	01	258	58	23	12	82	32	346	57	17	12	346	01	258	58
17	24	349	30	261	44	23	24	85	19	350	12	17	24	349	30	261	44
17	36	352	59	264	30	23	36	88	05	353	28	17	36	352	59	264	30
17	48	356	29	267	15	23	48	90	50	356	44	17	48	356	29	267	15
18	00	360	00	270	00	24	00	93	36	360	00	18	00	360	00	270	00
18	12	3	31	272	45							18	12	3	31	272	45

TABLE 9. (Contd.)

Latitude Degree 10 North

வாக்கியம் 9. (துடர்ச்சி.)

அகூடம்சம் பாகை 10 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	94	00	0	00	6	12	183	04	92	45
0	12	96	43	3	16	6	24	186	17	95	30
0	24	99	27	6	32	6	36	189	11	98	16
0	36	102	11	9	48	6	48	192	13	101	02
0	48	104	55	13	03	7	00	195	15	103	49
1	00	107	39	16	17	7	12	198	17	106	36
1	12	110	23	19	30	7	24	201	19	109	24
1	24	113	07	22	43	7	36	204	18	112	13
1	36	115	51	25	53	7	48	207	17	115	03
1	48	118	37	29	03	8	00	210	15	117	55
2	00	121	23	32	11	8	12	213	13	120	47
2	12	124	10	35	18	8	24	216	09	123	41
2	24	126	58	38	23	8	36	219	04	126	37
2	36	129	47	41	26	8	48	221	57	129	33
2	48	132	36	44	28	9	00	225	50	132	32
3	00	135	28	47	28	9	12	227	42	135	32
3	12	138	19	50	27	9	24	230	13	138	34
3	24	141	12	53	23	9	36	233	02	141	37
3	36	144	06	56	19	9	48	235	50	144	42
3	48	147	01	59	13	10	00	238	37	147	49
4	00	149	57	62	05	10	12	241	23	150	57
4	12	152	54	64	57	10	24	244	09	154	07
4	24	155	52	67	47	10	36	246	53	157	17
4	36	158	51	70	36	10	48	249	37	160	30
4	48	161	50	73	24	11	00	252	21	163	43
5	00	164	51	76	11	11	12	255	05	166	57
5	12	167	52	78	58	11	24	257	49	170	12
5	24	170	54	81	44	11	36	260	33	173	28
5	36	173	53	84	30	11	48	263	17	176	44
5	48	176	56	87	15	12	00	266	10	180	00
6	00	180	00	90	00	12	12	268	45	183	16

TABLE 9. (Contd.)

Latitude Degree 10 North

வாக்கியம் 9. (துடர்ச்சி.)

அக்டாபர்மாதம் பாகை 10 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)	(2)	(3)		(1)	(2)	(3)		(3)		(3)	
12	24	271	31	186	32	18	24	7	35	275	30
12	36	274	16	189	48	18	36	10	46	278	16
12	48	277	04	193	03	18	48	14	06	281	02
13	00	279	51	196	17	19	00	17	35	283	49
13	12	282	41	199	30	19	12	21	03	286	36
13	24	285	31	202	43	19	24	24	29	289	24
13	36	288	23	205	53	19	36	27	54	292	13
13	48	291	16	209	03	19	48	31	16	295	03
14	00	294	11	212	11	20	00	34	36	297	55
14	12	297	48	215	18	20	12	37	54	300	47
14	24	300	07	218	23	20	24	41	09	303	41
14	36	303	09	221	26	20	36	44	22	306	37
14	48	306	13	224	28	20	48	47	33	309	33
15	00	309	19	227	28	21	00	50	41	312	32
15	12	312	27	230	27	21	12	53	47	315	32
15	24	315	38	233	23	21	24	56	51	318	34
15	36	318	51	236	19	21	36	59	53	321	37
15	48	322	06	239	13	21	48	62	12	324	42
16	00	325	24	242	05	22	00	65	49	327	49
16	12	328	44	244	57	22	12	68	44	330	57
16	24	332	06	247	47	22	24	71	37	334	07
16	36	335	31	250	36	22	36	74	29	337	17
16	48	338	57	253	24	22	48	77	19	340	30
17	00	342	25	256	11	23	00	80	09	343	43
17	12	345	54	258	58	23	12	82	56	346	57
17	24	349	14	261	44	23	24	85	44	350	12
17	36	352	55	264	30	23	36	88	29	353	28
17	48	356	28	267	15	23	48	91	15	356	44
18	00	360	00	270	00	24	00	94	00	360	00
18	12	3	32	272	45						

34 Tables of Bhavaas—லக்கினஸ்புட, பாவஸ்புட வாக்கியம்.

TABLE 9. (Contd.)

Latitude Degree 11 North

வாக்கியம் 9. (குடர்ச்சி.)

அக்டாபர்மீசம் பாகை 11 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி.	நிமி.	பா.	கலை.	பா.	கலை.	மணி.	நிமி.	பா.	கலை.	பா.	கலை.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
0 00	94 24	0 00	6 12	183 01	92 45	0 12	97 07	3 16	6 24	186 02	95 30
0 24	99 52	6 32	6 36	189 03	98 16	0 36	102 35	9 48	6 48	192 03	101 02
0 48	105 18	13 03	7 00	195 02	103 49	1 00	108 02	16 17	7 12	198 02	106 36
1 12	110 45	19 30	7 24	201 01	109 24	1 24	113 29	22 43	7 36	203 58	112 13
1 36	116 13	25 53	7 48	206 55	115 03	1 48	118 58	29 03	8 00	209 51	117 55
2 00	121 44	32 11	8 12	212 46	120 47	2 12	124 31	35 18	8 24	215 40	123 41
2 24	127 17	38 23	8 36	219 33	126 37	2 36	130 06	41 26	8 48	221 25	129 33
2 48	132 54	44 28	9 00	224 16	132 32	3 00	135 44	47 28	9 12	227 06	135 32
3 12	138 35	50 27	9 24	229 54	138 34	3 24	141 27	53 23	9 36	232 43	141 37
3 36	144 20	56 19	9 48	235 29	144 42	3 48	147 14	59 13	10 00	238 16	147 49
4 00	150 09	62 05	10 12	241 02	150 57	4 12	153 05	64 57	10 24	243 47	154 07
4 24	156 02	67 47	10 36	246 31	157 17	4 48	158 59	70 36	10 48	249 15	160 30
5 00	164 58	76 11	11 00	251 58	163 43	5 12	167 57	78 58	11 12	254 42	166 57
5 24	170 57	81 44	11 24	257 25	170 12	5 48	173 58	84 30	11 36	260 08	173 28
6 00	180 00	90 00	12 00	265 36	180 00	6 12	176 59	87 15	12 12	268 20	183 16

TABLE 9. (Contd.)

Latitude Degree 11 North

வாக்கியம் 9. (துடர்ச்சி.)

அக்டாம்பம்சம் பாகை 11 வடக்கு

Siderial Time		Udaya Lagna		Dasama Lagna		Siderial Time		Udaya Lagna		Dasama Lagna	
நட்சத்திர ஹோரை		உதைய லக்கினம்		தசம லக் கினம்		நட்சத்திர ஹோரை		உதைய லக்கினம்		தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி.	நிமி.	பா.	கலை.	பா.	கலை.	மணி.	நிமி.	பா.	கலை.	பா.	கலை.
(1)	(2)	(3)				(1)	(2)	(3)			
12 24	271	06	186	32		18 24	7 07	275	30		
12 36	273	51	189	48		18 36	10 41	278	16		
12 48	276	38	193	03		18 48	14 13	281	02		
13 00	279	26	196	17		19 00	17 44	283	49		
13 12	282	16	199	30		19 12	21 14	286	36		
13 24	285	06	202	43		19 24	24 41	289	24		
13 36	287	58	205	53		19 36	28 07	292	13		
13 48	290	52	209	03		19 48	31 30	295	03		
14 00	293	48	212	11		20 00	34 52	297	55		
14 12	296	45	215	18		20 12	38 11	300	47		
14 24	299	45	218	23		20 24	41 28	303	41		
14 36	302	47	221	26		20 36	44 42	306	37		
14 48	305	51	224	28		20 48	47 53	309	33		
15 00	308	58	227	28		21 00	51 02	312	32		
15 12	312	07	230	27		21 12	54 09	315	32		
15 24	315	18	233	23		21 24	57 13	318	34		
15 36	318	32	236	19		21 36	60 15	321	37		
15 48	321	49	239	13		21 48	63 15	324	42		
16 00	325	08	242	05		22 00	66 12	327	49		
16 12	328	30	244	57		22 12	69 08	330	57		
16 24	331	53	247	47		22 24	72 02	334	07		
16 36	335	19	250	36		22 36	74 54	337	17		
16 48	338	46	253	24		22 48	77 44	340	30		
17 00	342	16	256	11		23 00	80 34	343	43		
17 12	345	47	258	58		23 12	83 22	346	57		
17 24	349	19	261	44		23 24	86 09	350	12		
17 36	352	53	264	30		23 36	88 54	353	28		
17 48	358	56	267	15		23 48	91 40	356	44		
18 00	360	00	270	00		24 00	94 24	360	00		
18 12	3	34	272	45							

36 Tables of Bhavyas—லக்கினஸ்புட, பாவஸ்புட வாக்கியம்.

TABLE 9. (Contd.)

Latitude Degree 12 North.

வாக்கியம் 9. (துடர்ச்சி.)

அகாசம்சம் பாகை 12 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி	நிமி.	பா.	கலை.	பா.	கலை.	மணி	நிமி.	பா.	கலை.	பா.	கலை.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
0 00	94 48	0 00	6 12	182 59	92 45	6 12	182 59	92 45	6 12	182 59	92 45
0 12	97 31	3 16	6 24	186 00	95 30	6 24	186 00	95 30	6 24	186 00	95 30
0 24	100 15	6 32	6 36	188 59	98 16	6 36	188 59	98 16	6 36	188 59	98 16
0 36	102 59	9 48	6 48	191 58	101 02	6 48	191 58	101 02	6 48	191 58	101 02
0 48	105 41	13 03	7 00	194 57	103 49	7 00	194 57	103 49	7 00	194 57	103 49
1 00	108 24	16 17	7 12	197 55	106 36	7 12	197 55	106 36	7 12	197 55	106 36
1 12	111 08	19 30	7 24	201 52	109 24	7 24	201 52	109 24	7 24	201 52	109 24
1 24	113 51	22 43	7 36	203 48	112 13	7 36	203 48	112 13	7 36	203 48	112 13
1 36	116 35	25 53	7 48	206 44	115 03	7 48	206 44	115 03	7 48	206 44	115 03
1 48	119 20	29 03	8 00	209 39	117 55	8 00	209 39	117 55	8 00	209 39	117 55
2 00	122 04	32 11	8 12	212 33	120 47	8 12	212 33	120 47	8 12	212 33	120 47
2 12	124 50	35 18	8 24	215 26	123 41	8 24	215 26	123 41	8 24	215 26	123 41
2 24	127 36	38 23	8 36	218 18	126 37	8 36	218 18	126 37	8 36	218 18	126 37
2 36	130 24	41 26	8 48	221 09	129 33	8 48	221 09	129 33	8 48	221 09	129 33
2 48	133 12	44 28	9 00	223 59	132 32	9 00	223 59	132 32	9 00	223 59	132 32
3 00	136 01	47 28	9 12	226 48	135 32	9 12	226 48	135 32	9 12	226 48	135 32
3 12	138 51	50 27	9 24	229 36	138 34	9 24	229 36	138 34	9 24	229 36	138 34
3 24	141 42	53 23	9 36	232 24	141 37	9 36	232 24	141 37	9 36	232 24	141 37
3 36	144 34	56 19	9 48	235 10	144 42	9 48	235 10	144 42	9 48	235 10	144 42
3 48	147 27	59 13	10 00	237 56	147 49	10 00	237 56	147 49	10 00	237 56	147 49
4 00	150 21	62 05	10 12	240 40	150 57	10 12	240 40	150 57	10 12	240 40	150 57
4 12	153 16	64 57	10 24	243 25	154 07	10 24	243 25	154 07	10 24	243 25	154 07
4 24	156 12	67 47	10 36	246 09	157 17	10 36	246 09	157 17	10 36	246 09	157 17
4 36	158 08	70 36	10 48	248 52	160 30	10 48	248 52	160 30	10 48	248 52	160 30
4 48	162 05	73 24	11 00	251 36	163 43	11 00	251 36	163 43	11 00	251 36	163 43
5 00	165 03	76 11	11 12	254 19	166 57	11 12	254 19	166 57	11 12	254 19	166 57
5 12	168 02	78 58	11 24	257 01	170 12	11 24	257 01	170 12	11 24	257 01	170 12
5 24	171 01	81 44	11 36	259 45	173 28	11 36	259 45	173 28	11 36	259 45	173 28
5 36	174 00	84 30	11 48	262 29	176 44	11 48	262 29	176 44	11 48	262 29	176 44
5 48	177 01	87 15	12 00	265 12	180 00	12 00	265 12	180 00	12 00	265 12	180 00
6 00	180 00	90 00	12 12	267 57	183 16	12 12	267 57	183 16	12 12	267 57	183 16

TABLE 9. (Contd.)

Latitude Degree 12 North

வாக்கியம் 9. (துடர்ச்சி.)

அகூடாம்சம் பாகை 12 வடக்கு

Siderial Time		Udaya Lagna		Dasama Lagna		Siderial Time		Udaya Lagna		Dasama Lagna	
நட்சத்திர ஹோரை		உதைய லக்கினம்		தசம லக்கினம்		நட்சத்திர ஹோரை		உதைய லக்கினம்		தசம லக்கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி.	நிமி.	பா.	கலை.	பா.	கலை.	மணி.	நிமி.	பா.	கலை.	பா.	கலை.
(1)	(2)	(3)	(4)	(5)	(6)	(1)	(2)	(3)	(4)	(5)	(6)
12	24	270	41	186	32	18	24	7	11	275	30
12	36	273	27	189	48	18	36	10	46	278	16
12	48	276	13	193	03	18	48	14	21	281	02
13	00	279	01	196	17	19	00	17	53	283	49
13	12	281	51	199	30	19	12	21	24	286	36
13	24	284	32	202	43	19	24	24	53	289	24
13	36	287	34	205	53	19	36	28	20	292	13
13	48	290	28	209	03	19	48	31	45	295	03
14	00	293	23	212	11	20	00	35	08	297	55
14	12	296	22	215	18	20	12	38	28	300	47
14	24	299	22	218	23	20	24	41	46	303	41
14	36	302	25	221	26	20	36	45	01	306	37
14	48	305	30	224	28	20	48	48	13	309	33
15	00	308	36	227	28	21	00	51	24	312	32
15	12	311	47	230	27	21	12	54	30	315	32
15	24	314	59	233	23	21	24	57	35	318	34
15	36	318	14	236	19	21	36	60	38	321	37
15	48	321	32	239	13	21	48	63	38	324	42
16	00	324	52	242	05	22	00	66	37	327	49
16	12	328	15	244	57	22	12	69	32	330	57
16	24	331	40	247	47	22	24	72	26	334	07
16	36	335	07	250	36	22	36	75	23	337	17
16	48	338	36	253	24	22	48	78	09	340	30
17	00	342	07	256	11	23	00	80	59	343	43
17	12	345	39	258	58	23	12	83	47	346	57
17	24	349	14	261	44	23	24	86	33	350	12
17	36	352	49	264	30	23	36	89	19	353	28
17	48	356	24	267	15	23	48	92	03	356	44
18	00	360	00	270	00	24	00	94	48	360	00
18	12	3	36	272	45						

TABLE 9. (Contd.)

Latitude Degree 13 North

வாக்கியம் 9. (துடர்ச்சி.)

அகூடாம்சம் பாகை 13 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)	(2)	(3)	(4)	(5)	(6)	(1)	(2)	(3)	(4)	(5)	(6)
0 00	95 13	0 00	6 12	182 59	92 45	0 12	97 57	3 16	6 24	185 57	95 30
0 12	97 57	3 16	6 24	185 57	95 30	0 24	100 43	6 32	6 36	188 55	98 16
0 24	100 43	6 32	6 36	188 55	98 16	0 36	103 25	9 48	6 48	191 53	101 02
0 36	103 25	9 48	6 48	191 53	101 02	0 48	106 04	13 03	7 00	194 50	103 49
0 48	106 04	13 03	7 00	194 50	103 49	1 00	108 47	16 17	7 12	197 46	106 36
1 00	108 47	16 17	7 12	197 46	106 36	1 12	111 41	19 30	7 24	200 42	109 24
1 12	111 41	19 30	7 24	200 42	109 24	1 24	114 13	22 43	7 36	203 38	112 13
1 24	114 13	22 43	7 36	203 38	112 13	1 36	116 57	25 53	7 48	206 33	115 03
1 36	116 57	25 53	7 48	206 33	115 03	1 48	120 20	29 03	8 00	209 26	117 55
1 48	120 20	29 03	8 00	209 26	117 55	2 00	122 25	32 11	8 12	212 20	120 47
2 00	122 25	32 11	8 12	212 20	120 47	2 12	125 10	35 18	8 24	215 11	123 41
2 12	125 10	35 18	8 24	215 11	123 41	2 24	127 56	38 23	8 36	218 02	126 37
2 24	127 56	38 23	8 36	218 02	126 37	2 36	130 42	41 26	8 48	220 52	129 33
2 36	130 42	41 26	8 48	220 52	129 33	2 48	133 30	44 28	9 00	223 41	132 32
2 48	133 30	44 28	9 00	223 41	132 32	3 00	136 19	47 28	9 12	226 30	135 32
3 00	136 19	47 28	9 12	226 30	135 32	3 12	139 08	50 27	9 24	229 18	138 34
3 12	139 08	50 27	9 24	229 18	138 34	3 24	141 58	53 23	9 36	232 04	141 37
3 24	141 58	53 23	9 36	232 04	141 37	3 36	144 49	56 19	9 48	234 50	144 42
3 36	144 49	56 19	9 48	234 50	144 42	3 48	147 40	59 13	10 00	237 35	147 49
3 48	147 40	59 13	10 00	237 35	147 49	4 00	150 34	62 05	10 12	239 40	150 57
4 00	150 34	62 05	10 12	239 40	150 57	4 12	153 27	64 57	10 24	243 03	154 07
4 12	153 27	64 57	10 24	243 03	154 07	4 24	156 22	67 47	10 36	245 47	157 17
4 24	156 22	67 47	10 36	245 47	157 17	4 36	159 18	70 36	10 48	248 29	160 30
4 36	159 18	70 36	10 48	248 29	160 30	4 48	162 14	73 24	11 00	251 13	163 43
4 48	162 14	73 24	11 00	251 13	163 43	5 00	165 10	76 11	11 12	253 56	166 57
5 00	165 10	76 11	11 12	253 56	166 57	5 12	168 07	78 58	11 24	256 35	170 12
5 12	168 07	78 58	11 24	256 35	170 12	5 24	171 05	81 44	11 36	259 17	173 28
5 24	171 05	81 44	11 36	259 17	173 28	5 36	174 03	84 30	11 48	262 03	176 44
5 36	174 03	84 30	11 48	262 03	176 44	5 48	177 01	87 15	12 00	264 47	180 00
5 48	177 01	87 15	12 00	264 47	180 00	6 00	180 00	90 00	12 12	267 32	183 16
6 00	180 00	90 00	12 12	267 32	183 16						

TABLE 9. (Contd.)

Latitude Degree 13 North.

வாக்கியம் 9. (துடர்ச்சி.)

அகஷாாம்சம் பாகை 13 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)	(2)	(3)		(1)	(2)	(3)		(3)		(3)	
12	24	270	16	186	32	18	24	7	15	275	30
12	36	273	00	189	48	18	36	10	52	278	16
12	48	275	48	193	03	18	48	14	28	281	02
13	00	278	36	196	17	19	00	18	02	283	49
13	12	281	25	199	30	19	12	21	57	286	36
13	24	284	20	202	43	19	24	25	06	289	24
13	36	287	09	205	53	19	36	28	34	292	13
13	48	290	03	209	03	19	48	31	58	295	03
14	00	292	59	212	11	20	00	35	25	297	55
14	12	295	58	215	18	20	12	38	46	300	47
14	24	298	59	218	23	20	24	42	05	303	41
14	36	302	01	221	26	20	36	45	21	306	37
14	48	305	07	224	28	20	48	48	34	309	33
15	00	308	15	227	28	21	00	51	45	312	32
15	12	311	26	230	27	21	12	54	53	315	32
15	24	314	39	233	23	21	24	57	59	318	34
15	36	317	55	236	19	21	36	61	01	321	37
15	48	321	14	239	13	21	48	64	02	324	42
16	00	324	35	242	05	22	00	67	01	327	49
16	12	328	02	244	57	22	12	69	57	330	57
16	24	331	26	247	47	22	24	72	51	334	07
16	36	334	54	250	36	22	36	75	40	337	17
16	48	338	03	253	24	22	48	78	35	340	30
17	00	341	58	256	11	23	00	81	24	343	43
17	12	345	32	258	58	23	12	84	12	346	57
17	24	349	08	261	44	23	24	87	00	350	12
17	36	352	45	264	30	23	36	89	44	353	28
17	48	356	23	267	15	23	48	92	28	356	44
18	00	360	00	270	00	24	00	95	13	360	00
18	12	3	37	272	45						

40 Tables of Bhavas—லக்கினஸ்புட, பாவஸ்புட வாக்கியம்.

TABLE 9. (Contd.)

Latitude Degree 14 North

வாக்கியம் 9. (துடர்ச்சி.)

அகூதாம்சம் பாகை 14 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasarna Lagna தசம் லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasarna Lagna தசம் லக் கினம்																																																																																																																																																																												
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.																																																																																																																																																																											
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)																																																																																																																																																																											
0 00	95 38	0 00	6 12	182 57	92 45	0 12	98 21	3 16	185 54	95 30	0 24	101 04	6 32	188 51	98 16	0 36	103 46	9 48	191 48	101 02	0 48	106 29	13 03	7 00	194 43	103 49	1 00	109 11	16 17	7 12	197 39	106 36	1 12	111 53	19 30	7 24	200 33	109 24	1 24	114 54	22 43	7 36	203 28	112 13	1 36	117 18	25 53	7 48	206 22	115 03	1 48	120 02	29 03	8 00	209 15	117 55	2 00	122 46	32 11	8 12	212 07	120 47	2 12	125 30	35 18	8 24	214 57	123 41	2 24	128 15	38 23	8 36	217 47	126 37	2 36	131 01	41 26	8 48	220 37	129 33	2 48	133 47	44 28	9 00	223 25	132 32	3 00	136 35	47 28	9 12	226 13	135 32	3 12	139 23	50 27	9 24	228 59	138 34	3 24	142 13	53 23	9 36	231 45	141 37	3 36	145 03	56 19	9 48	234 30	144 42	3 48	147 53	59 13	10 00	237 14	147 49	4 00	150 45	62 05	10 12	239 58	150 57	4 12	153 38	64 57	10 24	242 42	154 07	4 24	156 32	67 47	10 36	245 06	157 17	4 36	159 27	70 36	10 48	248 07	160 30	4 48	162 21	73 24	11 00	250 49	163 43	5 00	165 17	76 11	11 12	253 31	166 57	5 12	168 12	78 58	11 24	256 14	170 12	5 24	171 09	81 44	11 36	258 56	173 28	5 36	174 06	84 30	11 48	261 39	176 44	5 48	177 03	87 15	12 00	264 23	180 00	6 00	180 00	90 00	12 12	267 06	183 16

Tables of Bhavas—லக்கினஸ்புட, பாவஸ்புட வாக்கியம். 41

TABLE 9. (Contd.)

Latitude Degree 14 North

வாக்கியம் 9. (துடர்ச்சி.)

அக்டாபர்மாதம் பாதை 14 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs. மணி.	Ms. கிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. கிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)	(2)	(3)	(4)	(5)	(6)	(1)	(2)	(3)	(4)	(5)	(6)
12	24	269	50	186	32	18	24	7	19	275	30
12	36	272	36	189	48	18	36	10	58	278	16
12	48	275	23	193	03	18	48	14	36	281	02
13	00	278	11	196	17	19	00	18	11	283	49
13	12	281	00	199	30	19	12	21	46	286	36
13	24	283	51	202	43	19	24	25	18	289	24
13	36	286	43	205	53	19	36	28	48	292	13
13	48	289	38	209	03	19	48	32	17	295	03
14	00	292	35	212	11	20	00	35	42	297	55
14	12	295	34	215	18	20	12	39	05	300	47
14	24	298	34	218	23	20	24	42	25	303	41
14	36	301	38	221	26	20	36	45	41	306	37
14	48	304	44	224	28	20	48	48	56	309	33
15	00	307	53	227	38	21	00	52	07	312	32
15	12	311	04	230	27	21	12	55	16	315	32
15	24	314	19	233	23	21	24	58	22	318	34
15	36	317	35	236	19	21	36	61	26	321	37
15	48	320	55	239	13	21	48	64	26	324	42
16	00	324	18	242	05	22	00	67	25	327	49
16	12	327	43	244	57	22	12	70	22	330	57
16	24	331	12	247	47	22	24	73	17	334	07
16	36	334	42	250	36	22	36	76	09	337	17
16	48	338	14	253	24	22	48	79	00	340	30
17	00	341	49	256	11	23	00	81	49	343	43
17	12	345	24	258	58	23	12	84	37	346	57
17	24	349	02	261	44	23	24	87	24	350	12
17	36	352	41	264	30	23	36	90	10	353	28
17	48	356	20	267	15	23	48	92	54	356	44
18	00	360	00	270	00	24	00	95	38	360	00
18	12	3	40	272	45						

42 Tables of Bhavas—லக்கினஸ்புட, பாவஸ்புட வாக்கியம்.

TABLE 9. (Contd.)

Latitude Degree 15 North

வாக்கியம் 9. (துடர்ச்சி.)

அகூடாம்சம் பாகை 15 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasakana Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasakana Lagna தசம லக் கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)	(2)	(3)		(1)	(2)	(3)		(1)	(2)	(3)	
0 00	96 03	0 00		6 12	182 59	92 45					
0 12	98 45	3 16		6 24	185 52	95 30					
0 24	101 28	6 32		6 36	188 47	98 16					
0 36	104 10	9 48		6 48	191 42	101 02					
0 48	106 52	13 03		7 00	194 38	103 49					
1 00	108 55	16 17		7 12	197 32	106 36					
1 12	112 16	19 30		7 24	200 26	109 24					
1 24	114 58	22 43		7 36	203 19	112 13					
1 36	117 40	25 53		7 48	206 11	115 03					
1 48	120 23	29 03		8 00	209 02	117 55					
2 00	123 06	32 11		8 12	211 54	120 47					
2 12	125 50	35 18		8 24	214 44	123 41					
2 24	128 35	38 23		8 36	217 32	126 37					
2 36	131 19	41 26		8 48	220 21	129 33					
2 48	134 05	44 28		9 00	223 09	132 32					
3 00	136 51	47 28		9 12	225 55	135 32					
3 12	139 39	50 27		9 24	228 41	138 34					
3 24	142 28	53 23		9 36	231 25	141 37					
3 36	145 16	56 19		9 48	234 10	144 42					
3 48	148 06	59 13		10 00	236 54	147 49					
4 00	150 58	62 05		10 12	239 37	150 57					
4 12	153 49	64 57		10 24	242 20	154 07					
4 24	156 41	67 47		10 36	245 02	157 17					
4 36	159 34	70 36		10 48	247 44	160 30					
4 48	162 28	73 24		11 00	251 05	163 43					
5 00	165 22	76 11		11 12	253 08	166 57					
5 12	168 18	78 58		11 24	255 50	170 12					
5 24	171 13	81 44		11 36	258 32	173 28					
5 36	174 08	84 30		11 48	261 15	176 44					
5 48	177 01	87 15		12 00	263 57	180 00					
6 00	180 00	90 00		12 12	266 41	183 16					

TABLE 9. (Contd.)

Latitude Degree 15 North

வாக்கியம் 9. (துடர்ச்சி.)

அகூதாம்சம் பாகை 15 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி.	நிமி.	பா.	கலை.	பா.	கலை.	மணி.	நிமி.	பா.	கலை.	பா.	கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	269	25	186	32	18	24	7	24	275	30
12	36	272	11	189	48	18	36	11	04	278	16
12	48	274	58	193	03	18	48	14	43	281	02
13	00	277	45	196	17	19	00	18	21	283	49
13	12	280	35	199	30	19	12	21	57	286	36
13	24	283	25	202	43	19	24	25	31	289	24
13	36	286	19	205	53	19	36	29	04	292	13
13	48	289	13	209	03	19	48	32	32	295	03
14	00	292	10	212	11	20	00	35	59	297	55
14	12	295	09	215	18	20	12	39	23	300	47
14	24	298	11	218	23	20	24	42	44	303	41
14	36	301	15	221	26	20	36	46	02	306	37
14	48	304	22	224	28	20	48	49	17	309	33
15	00	307	31	227	28	21	00	52	29	312	32
15	12	310	43	230	27	21	12	55	38	315	32
15	24	313	58	233	23	21	24	58	45	318	34
15	36	317	16	236	19	21	36	61	49	321	37
15	48	320	37	239	13	21	48	64	51	324	42
16	00	324	01	242	05	22	00	67	50	327	49
16	12	327	28	244	57	22	12	70	47	330	57
16	24	330	56	247	47	22	24	73	41	334	07
16	36	334	29	250	36	22	36	76	35	337	17
16	48	338	09	253	24	22	48	79	25	340	30
17	00	341	39	256	11	23	00	82	15	343	43
17	12	345	17	258	58	23	12	85	02	346	57
17	24	348	56	261	44	23	24	87	49	350	12
17	36	352	36	264	30	23	36	90	35	353	28
17	48	356	28	267	15	23	48	93	19	356	44
18	00	360	00	270	00	24	00	96	03	360	00
18	12	3	32	272	45						

44 Tables of Bhavas—லக்கினப்புட, பாவன்புட வாக்கியம்.

TABLE 9. (Contd.)

Latitude Degree 16 North.

வாக்கியம் 9. (துடர்ச்சி.)

அகூரம்சம் பாகை 16 வடக்கு

Sidereal Time		Udaya Lagna		Dasama Lagna		Sidereal Time		Udaya Lagna		Dasama Lagna	
நட்சத்திர		உதைய		தசம லக்		நட்சத்திர		உதைய		தசம லக்	
தேறாணை		லக்கினம்		கினம்		தேறாணை		லக்கினம்		கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி	நிமி.	பா.	கலை.	பா.	கலை.	மணி	நிமி.	பா.	கலை.	பா.	கலை.
(1)	(2)	(3)				(1)	(2)	(3)			
0 00	96 29	0 00				6 12	182 54	92 45			
0 12	99 12	3 16				6 24	185 49	95 30			
0 24	101 53	6 32				6 36	188 44	98 16			
0 36	104 35	9 48				6 48	191 37	101 02			
0 48	107 17	13 03				7 00	194 31	103 49			
1 00	109 58	16 17				7 12	197 24	106 36			
1 12	112 39	19 30				7 24	200 17	109 24			
1 24	115 20	22 43				7 36	203 08	112 13			
1 36	118 02	25 53				7 48	206 00	115 03			
1 48	120 44	29 03				8 00	208 51	117 53			
2 00	123 27	32 11				8 12	211 41	120 47			
2 12	126 11	35 18				8 24	214 19	123 41			
2 24	128 54	38 23				8 36	217 17	126 37			
2 36	131 38	41 26				8 48	220 05	129 33			
2 48	134 23	44 28				9 00	222 51	132 32			
3 00	137 09	47 28				9 12	225 37	135 32			
3 12	139 55	50 27				9 24	228 22	138 34			
3 24	142 43	53 23				9 36	231 06	141 37			
3 36	145 41	56 19				9 48	233 49	144 42			
3 48	148 19	59 13				10 00	236 33	147 49			
4 00	151 09	62 05				10 12	239 16	150 57			
4 12	154 00	64 57				10 24	241 58	154 07			
4 24	156 52	67 47				10 36	244 40	157 17			
4 36	159 43	70 36				10 48	247 21	160 30			
4 48	162 36	73 24				11 00	250 02	163 43			
5 00	165 29	76 11				11 12	252 43	166 57			
5 12	168 23	78 58				11 24	255 25	170 12			
5 24	171 16	81 44				11 36	258 07	173 28			
5 36	174 11	84 30				11 48	260 48	176 44			
5 48	177 06	87 15				12 00	263 31	180 00			
6 00	180 00	90 00				12 12	266 15	183 16			

TABLE 9. (Contd.)

Latitude Degree 16 North

வாக்கியம் 9. (துடர்ச்சி.)

அக்ஷாம்சம் பாகை 16 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs. Ms. மணி. நிமி.		Ds. Ms. பா. கலை.		Ds. Ms. பா. கலை.		Hrs. Ms. மணி. நிமி.		Ds. Ms. பா. கலை.		Ds. Ms. பா. கலை.	
(1)		(2)		(3)		(1)		(2)		(3)	
12 24		268 59		186 32		18 24		7 27		275 30	
12 36		271 44		189 48		18 36		11 09		278 16	
12 48		274 31		193 03		18 48		14 51		281 02	
13 00		277 19		196 17		19 00		18 31		283 49	
13 12		280 08		199 30		19 12		22 09		286 36	
13 24		282 49		202 43		19 24		25 45		289 24	
13 36		285 52		205 53		19 36		29 19		292 13	
13 48		288 47		209 03		19 48		32 49		295 03	
14 00		291 44		212 11		20 00		36 17		297 55	
14 12		294 44		215 18		20 12		39 42		300 47	
14 24		297 44		218 23		20 24		43 05		303 41	
14 36		300 42		221 26		20 36		46 24		306 37	
14 48		303 57		224 28		20 48		49 39		309 33	
15 00		307 08		227 28		21 00		52 52		312 32	
15 12		310 21		230 27		21 12		56 03		315 32	
15 24		313 36		233 23		21 24		59 18		318 34	
15 36		316 55		236 19		21 36		62 16		321 37	
15 48		320 18		239 13		21 48		65 16		324 42	
16 00		323 43		242 05		22 00		68 16		327 49	
16 12		327 11		244 57		22 12		71 13		330 57	
16 24		330 41		247 47		22 24		74 08		334 07	
16 36		334 15		250 36		22 36		77 11		337 17	
16 48		338 51		253 24		22 48		79 52		340 30	
17 00		341 29		256 11		23 00		82 41		343 43	
17 12		345 09		258 58		23 12		85 29		346 57	
17 24		348 51		261 44		23 24		88 16		350 12	
17 36		352 33		264 30		23 36		91 01		353 28	
17 48		356 16		267 15		23 48		93 45		356 44	
18 00		360 00		270 00		24 00		96 29		360 00	
18 12		3 44		272 45							

TABLE 9. (Contd.)

Latitude Degree 17 North

வாக்கியம் 9. (குடர்ச்சி.)

அக்டாபர்மாதம் பாகை 17 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி.	நிமி.	பா.	கலை.	பா.	கலை.	மணி.	நிமி.	பா.	கலை.	பா.	கலை.
(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)
0 00	96 53	0 00	6 12	182 54	92 45	0 12	99 36	3 16	6 24	186 17	95 30
0 24	102 18	6 32	6 36	188 30	98 16	0 36	104 59	9 48	6 48	191 30	101 02
0 48	107 41	13 03	7 00	194 25	103 49	1 00	110 21	16 17	7 12	197 16	106 36
1 12	113 02	19 30	7 24	200 08	109 24	1 12	113 02	19 30	7 24	200 08	109 24
1 24	115 43	22 43	7 36	202 53	112 13	1 24	115 43	22 43	7 36	202 53	112 13
1 36	118 24	25 53	7 48	205 49	115 03	1 36	118 24	25 53	7 48	205 49	115 03
1 48	121 06	29 03	8 00	208 38	117 55	1 48	121 06	29 03	8 00	208 38	117 55
2 00	123 47	32 11	8 12	211 28	120 47	2 00	123 47	32 11	8 12	211 28	120 47
2 12	126 30	35 18	8 24	214 15	123 41	2 12	126 30	35 18	8 24	214 15	123 41
2 24	129 13	38 23	8 36	217 03	126 37	2 24	129 13	38 23	8 36	217 03	126 37
2 36	131 56	41 26	8 48	219 49	129 33	2 36	131 56	41 26	8 48	219 49	129 33
2 48	134 40	44 28	9 00	222 35	132 32	2 48	134 40	44 28	9 00	222 35	132 32
3 00	137 25	47 28	9 12	225 20	135 32	3 00	137 25	47 28	9 12	225 20	135 32
3 12	140 11	50 27	9 24	228 04	138 34	3 12	140 11	50 27	9 24	228 04	138 34
3 24	142 57	53 23	9 36	230 47	141 37	3 24	142 57	53 23	9 36	230 47	141 37
3 36	145 45	56 19	9 48	233 30	144 42	3 36	145 45	56 19	9 48	233 30	144 42
3 48	148 32	59 13	10 00	236 13	147 49	3 48	148 32	59 13	10 00	236 13	147 49
4 00	151 22	62 05	10 12	238 54	150 57	4 00	151 22	62 05	10 12	238 54	150 57
4 12	154 11	64 57	10 24	241 36	154 07	4 12	154 11	64 57	10 24	241 36	154 07
4 24	157 07	67 47	10 36	244 17	157 17	4 24	157 07	67 47	10 36	244 17	157 17
4 36	159 52	70 36	10 48	246 58	160 30	4 36	159 52	70 36	10 48	246 58	160 30
4 48	162 44	73 24	11 00	249 39	163 43	4 48	162 44	73 24	11 00	249 39	163 43
5 00	165 35	76 11	11 12	252 19	166 57	5 00	165 35	76 11	11 12	252 19	166 57
5 12	168 30	78 58	11 24	255 01	170 12	5 12	168 30	78 58	11 24	255 01	170 12
5 24	171 30	81 44	11 36	257 42	173 28	5 24	171 30	81 44	11 36	257 42	173 28
5 36	173 43	84 30	11 48	260 24	176 44	5 36	173 43	84 30	11 48	260 24	176 44
5 48	177 06	87 15	12 00	263 07	180 00	5 48	177 06	87 15	12 00	263 07	180 00
6 00	180 00	90 00	12 12	265 46	183 16	6 00	180 00	90 00	12 12	265 46	183 16

TABLE 9. (Contd.)

Latitude Degree 17 North.

வாக்கியம் 9. (துடர்ச்சி.)

அக்ஷரம்சம் பாகை 17 வடக்கு

Siderial Time		Udaya Lagna		Dasama Lagna		Siderial Time		Udaya Lagna		Dasama Lagna	
நட்சத்திர ஹோரை		உதைய லக்கினம்		தசம லக் கினம்		நட்சத்திர ஹோரை		உதைய லக்கினம்		தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி	நிமி.	பா.	கலை.	பா.	கலை.	மணி	நிமி.	பா.	கலை.	பா.	கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	268	34	186	32	18	24	7	31	275	30
12	36	271	15	189	48	18	36	11	16	278	16
12	48	274	05	193	03	18	48	14	59	281	02
13	00	276	53	196	17	19	00	18	41	283	49
13	12	279	42	199	30	19	12	22	20	286	36
13	24	282	33	202	43	19	24	25	58	289	24
13	36	285	26	205	53	19	36	29	34	292	13
13	48	298	21	209	03	19	48	33	06	295	03
14	00	291	18	212	11	20	00	36	35	297	55
14	12	294	18	215	18	20	12	40	01	300	47
14	24	297	21	218	23	20	24	43	25	303	41
14	36	300	25	221	26	20	36	46	44	306	37
14	48	303	33	224	28	20	48	50	02	309	33
15	00	306	42	227	28	21	00	53	18	312	32
15	12	309	58	230	27	21	12	56	27	315	32
15	24	313	16	233	23	21	24	59	35	318	34
15	36	316	35	236	19	21	36	62	39	321	37
15	48	319	59	239	13	21	48	65	42	324	42
16	00	323	25	242	05	22	00	68	42	327	49
16	12	326	54	244	57	22	12	71	39	330	57
16	24	330	26	247	47	22	24	74	34	334	07
16	36	334	02	250	36	22	36	77	27	337	17
16	48	337	40	253	24	22	48	80	18	340	30
17	00	341	19	256	11	23	00	83	07	343	43
17	12	345	01	258	58	23	12	85	55	346	57
17	24	348	44	261	44	23	24	88	45	350	12
17	36	352	29	264	30	23	36	91	26	353	28
17	48	356	14	267	15	23	48	94	14	356	44
18	00	360	00	270	00	24	00	96	53	360	00
18	12	3	46	272	45						

48 Tables of Bhavas—லக்கினஸ்புட, பாவஸ்புட வாக்கியம்.

TABLE 9. (Contd.)

Latitude Degree 18 North

வாக்கியம் 9. (தூடர்ச்சி.)

அகாஷாம்சம் பாகை 18 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி	நிமி.	பா.	கலை.	பா.	கலை.	மணி	நிமி.	பா.	கலை.	பா.	கலை.
(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)
0 00	97 19	0 00	6 12	182 52	92 45	0 12	100 01	3 16	6 24	185 44	95 30
0 24	102 43	6 32	6 36	188 35	98 16	0 36	105 24	9 48	6 48	191 28	101 02
0 48	108 04	13 03	7 00	194 18	103 49	1 00	110 45	16 17	7 12	197 09	106 36
1 12	113 24	19 30	7 24	199 09	109 24	1 24	116 05	22 43	7 36	202 50	112 13
1 36	118 46	25 53	7 48	205 38	115 03	1 48	121 27	29 03	8 00	208 27	117 55
2 00	124 08	32 11	8 12	211 15	120 47	2 12	126 49	35 18	8 24	214 02	123 41
2 24	129 31	38 23	8 36	216 48	126 37	2 36	132 14	41 26	8 48	219 33	129 33
2 48	134 58	44 28	9 00	222 18	132 32	3 00	137 42	47 28	9 12	225 02	135 32
3 12	140 27	50 27	9 24	227 46	138 34	3 24	143 12	53 23	9 36	230 29	141 37
3 36	145 58	56 19	9 48	233 11	144 42	3 48	148 45	59 13	10 00	235 52	147 49
4 00	151 33	62 05	10 12	238 33	150 57	4 12	154 22	64 57	10 24	241 14	154 07
4 24	157 10	67 47	10 36	243 55	157 17	4 36	160 01	70 36	10 48	246 36	160 30
4 48	162 51	73 24	11 00	249 15	163 43	5 00	165 42	76 11	11 12	251 56	166 57
5 12	168 32	78 58	11 24	254 36	170 12	5 24	171 25	81 44	11 36	257 17	173 28
5 36	174 16	84 30	11 48	259 59	176 44	5 48	177 08	87 15	12 00	262 41	180 00
6 00	180 00	90 00	12 12	265 24	183 16						

Tables of Bhavas—லக்கினஸ்புட, பாவஸ்புட வாக்கியம். 49

TABLE 9. (Contd.)

Latitude Degree 18 North

வாக்கியம் 9. (தொடர்ச்சி.)

அகாஷாம்சம் பாகை 18 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி.	நிமி.	பா.	கலை.	பா.	கலை.	மணி.	நிமி.	பா.	கலை.	பா.	கலை.
(1)	(2)	(3)	(4)	(5)	(6)	(1)	(2)	(3)	(4)	(5)	(6)
12	24	268	08	186	32	18	24	7	36	275	30
12	36	270	53	189	48	18	36	11	22	278	16
12	48	273	38	193	03	18	48	15	08	281	02
13	00	276	27	196	17	19	00	18	52	283	49
13	12	279	16	199	30	19	12	22	33	286	36
13	24	282	07	202	43	19	24	26	12	289	24
13	36	285	00	205	53	19	36	29	50	292	13
13	48	287	55	209	03	19	48	33	22	295	03
14	00	290	53	212	11	20	00	36	54	297	55
14	12	293	53	215	18	20	12	40	21	300	47
14	24	296	45	218	23	20	24	43	46	303	41
14	36	300	01	221	26	20	36	47	06	306	37
14	48	303	09	224	28	20	48	50	24	309	33
15	00	306	21	227	28	21	00	53	39	312	32
15	12	309	36	230	27	21	12	56	51	315	32
15	24	312	54	233	23	21	24	59	59	318	34
15	36	316	14	236	19	21	36	63	15	321	37
15	48	319	39	239	13	21	48	66	07	324	42
16	00	323	06	242	05	22	00	69	07	327	49
16	12	326	38	244	57	22	12	72	05	330	57
16	24	330	10	247	47	22	24	75	00	334	07
16	36	333	38	250	36	22	36	77	53	337	17
16	48	337	27	253	24	22	48	80	44	340	30
17	00	341	08	256	11	23	00	83	32	343	43
17	12	344	52	258	58	23	12	86	22	346	57
17	24	348	38	261	44	23	24	89	07	350	12
17	36	352	24	264	30	23	36	91	52	353	28
17	48	356	12	267	15	23	48	94	36	356	44
18	00	360	00	270	00	24	00	97	19	360	00
18	12	3	48	272	45						

50 Tables of Bhavas—லக்கினஸ்புட, பாவஸ்புட வாக்கியம்.

TABLE 9. (Contd.)

Latitude Degree 19 North

வாக்கியம் 9. (தூடர்ச்சி.)

அகூடாம்சம் பாகை 19 வடக்கு

Siderial Time நட்சத்திர ஹேரா		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹேரா		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி.	நிமி.	பா.	கலை.	பா.	கலை.	மணி.	நிமி.	பா.	கலை.	பா.	கலை.
(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)
0 00	97 45	0 00	6 12	182 54	92 45	0 12	100 27	3 16	6 24	185 42	95 30
0 24	103 08	6 32	6 36	188 32	98 16	0 36	105 48	9 48	6 48	191 22	101 02
0 48	108 29	13 03	7 00	194 12	103 49	1 00	111 08	16 17	7 12	197 02	106 36
1 12	113 48	19 30	7 24	199 51	109 24	1 12	113 48	19 30	7 24	199 51	109 24
1 24	116 29	22 43	7 36	203 40	112 13	1 24	116 29	22 43	7 36	203 40	112 13
1 36	119 09	25 53	7 48	205 27	115 03	1 36	119 09	25 53	7 48	205 27	115 03
1 48	121 48	29 03	8 00	208 15	117 55	1 48	121 48	29 03	8 00	208 15	117 55
2 00	124 29	32 11	8 12	211 01	120 47	2 00	124 29	32 11	8 12	211 01	120 47
2 12	127 13	35 18	8 24	213 48	123 41	2 12	127 13	35 18	8 24	213 48	123 41
2 24	129 52	38 23	8 36	216 32	126 37	2 24	129 52	38 23	8 36	216 32	126 37
2 36	132 33	41 26	8 48	219 17	129 33	2 36	132 33	41 26	8 48	219 17	129 33
2 48	135 15	44 28	9 00	222 01	132 32	2 48	135 15	44 28	9 00	222 01	132 32
3 00	137 59	47 28	9 12	224 45	135 32	3 00	137 59	47 28	9 12	224 45	135 32
3 12	140 43	50 27	9 24	227 27	138 34	3 12	140 43	50 27	9 24	227 27	138 34
3 24	143 28	53 23	9 36	230 08	141 37	3 24	143 28	53 23	9 36	230 08	141 37
3 36	146 12	56 19	9 48	232 47	144 42	3 36	146 12	56 19	9 48	232 47	144 42
3 48	148 59	59 13	10 00	235 31	147 49	3 48	148 59	59 13	10 00	235 31	147 49
4 00	151 45	62 05	10 12	238 12	150 57	4 00	151 45	62 05	10 12	238 12	150 57
4 12	154 33	64 57	10 24	240 51	154 07	4 12	154 33	64 57	10 24	240 51	154 07
4 24	156 20	67 47	10 36	243 31	157 17	4 24	156 20	67 47	10 36	243 31	157 17
4 36	160 09	70 36	10 48	246 12	160 30	4 36	160 09	70 36	10 48	246 12	160 30
4 48	162 58	73 24	11 00	248 52	163 43	4 48	162 58	73 24	11 00	248 52	163 43
5 00	165 48	76 11	11 12	251 31	166 57	5 00	165 48	76 11	11 12	251 31	166 57
5 12	168 38	78 58	11 24	254 12	170 12	5 12	168 38	78 58	11 24	254 12	170 12
5 24	171 28	81 44	11 36	256 52	173 28	5 24	171 28	81 44	11 36	256 52	173 28
5 36	174 18	84 30	11 48	259 33	176 44	5 36	174 18	84 30	11 48	259 33	176 44
5 48	177 06	87 15	12 00	262 15	180 00	5 48	177 06	87 15	12 00	262 15	180 00
6 00	180 00	90 00	12 12	264 58	183 16	6 00	180 00	90 00	12 12	264 58	183 16

TABLE 9. (Contd.)

Latitude Degree 19 North

வாக்கியம் 9. (துடர்ச்சி.)

அக்டாம்பம் பாகை 19 வடக்கு

Sidereal Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Sidereal Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)	(2)	(3)		(3)		(1)	(2)	(3)			
12	24	267	41	186	32	18	24	7	42	275	30
12	36	270	26	189	48	18	36	11	34	278	16
12	48	273	12	193	03	18	48	15	16	281	02
13	00	275	44	196	17	19	00	19	02	283	49
13	12	278	48	199	30	19	12	22	46	286	36
13	24	281	39	202	43	19	24	26	27	289	24
13	36	284	33	205	53	19	36	30	05	292	13
13	48	287	28	209	03	19	48	33	41	295	03
14	00	290	26	212	11	20	00	37	13	297	55
14	12	293	38	215	18	20	12	40	41	300	47
14	24	296	29	218	23	20	24	44	07	303	41
14	36	299	35	221	26	20	36	47	30	306	37
14	48	302	45	224	28	20	48	50	48	309	33
15	00	305	56	227	28	21	00	54	04	312	32
15	12	309	12	230	27	21	12	57	15	315	32
15	24	312	30	233	23	21	24	60	25	318	34
15	36	315	53	236	19	21	36	63	31	321	37
15	48	319	19	239	13	21	48	66	22	324	42
16	00	322	47	242	05	22	00	69	34	327	49
16	12	326	19	244	57	22	12	72	32	330	57
16	24	329	55	247	47	22	24	75	27	334	07
16	36	333	33	250	36	22	36	78	21	337	17
16	48	337	14	253	24	22	48	81	12	340	30
17	00	340	58	256	11	23	00	84	16	343	43
17	12	344	44	258	58	23	12	86	48	346	57
17	24	348	26	261	44	23	24	89	34	350	12
17	36	352	18	264	30	23	36	92	19	353	28
17	48	356	09	267	15	23	48	95	02	356	44
18	00	360	00	270	00	24	00	97	45	360	00
18	12	3	51	272	45						

52 Tables of Bhavanas—லக்கினஸ்புட, பாவஸ்புட வாக்கியம்.

TABLE 9. (Contd.)

Latitude Degree 20 North.

வாக்கியம் 9. (துடர்ச்சி.)

அக்டாம்பம்சம் பாகை 20 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி	நிமி.	பா.	கலை.	பா.	கலை.	மணி	நிமி.	பா.	கலை.	பா.	கலை.
(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)	(1)	(2)	(3)
0 00	98 12	0 00	6 12	182 50	92 45	0 12	100 53	3 16	6 24	185 39	95 30
0 24	103 33	6 32	6 36	188 28	98 16	0 36	106 14	9 48	6 48	191 17	101 02
0 48	108 54	13 03	7 00	194 07	103 49	1 00	111 33	16 17	7 12	196 54	106 36
1 12	114 12	19 30	7 24	199 42	109 24	1 12	114 12	19 30	7 24	199 42	109 24
1 24	116 51	22 43	7 36	202 30	112 13	1 24	116 51	22 43	7 36	202 30	112 13
1 36	119 31	25 53	7 48	205 40	115 03	1 36	119 31	25 53	7 48	205 40	115 03
1 48	122 10	29 03	8 00	208 03	117 55	1 48	122 10	29 03	8 00	208 03	117 55
2 00	124 50	32 11	8 12	210 49	120 47	2 00	124 50	32 11	8 12	210 49	120 47
2 12	127 31	35 18	8 24	213 34	123 41	2 12	127 31	35 18	8 24	213 34	123 41
2 24	130 10	38 23	8 36	216 18	126 37	2 24	130 10	38 23	8 36	216 18	126 37
2 36	132 52	41 26	8 48	219 01	129 33	2 36	132 52	41 26	8 48	219 01	129 33
2 48	135 54	44 28	9 00	221 44	132 32	2 48	135 54	44 28	9 00	221 44	132 32
3 00	138 16	47 28	9 12	224 26	135 32	3 00	138 16	47 28	9 12	224 26	135 32
3 12	140 59	50 27	9 24	227 08	138 34	3 12	140 59	50 27	9 24	227 08	138 34
3 24	143 42	53 23	9 36	229 50	141 37	3 24	143 42	53 23	9 36	229 50	141 37
3 36	146 26	56 19	9 48	232 29	144 42	3 36	146 26	56 19	9 48	232 29	144 42
3 48	149 11	59 13	10 00	235 10	147 49	3 48	149 11	59 13	10 00	235 10	147 49
4 00	151 57	62 05	10 12	237 50	150 57	4 00	151 57	62 05	10 12	237 50	150 57
4 12	154 20	64 57	10 24	240 29	154 07	4 12	154 20	64 57	10 24	240 29	154 07
4 24	157 30	67 47	10 36	243 09	157 17	4 24	157 30	67 47	10 36	243 09	157 17
4 36	160 18	70 36	10 48	245 48	160 30	4 36	160 18	70 36	10 48	245 48	160 30
4 48	163 06	73 24	11 00	248 27	163 43	4 48	163 06	73 24	11 00	248 27	163 43
5 00	165 53	76 11	11 12	251 06	166 57	5 00	165 53	76 11	11 12	251 06	166 57
5 12	168 43	78 58	11 24	253 46	170 12	5 12	168 43	78 58	11 24	253 46	170 12
5 24	171 32	81 44	11 36	256 27	173 28	5 24	171 32	81 44	11 36	256 27	173 28
5 36	174 21	84 30	11 48	259 07	176 44	5 36	174 21	84 30	11 48	259 07	176 44
5 48	177 10	87 15	12 00	261 48	180 00	5 48	177 10	87 15	12 00	261 48	180 00
6 00	180 00	90 00	12 12	264 31	183 16	6 00	180 00	90 00	12 12	264 31	183 16

TABLE 9. (Contd.)

Latitude Degree 20 North

வாக்கியம் 9. (தூர்ச்சி.)

அக்டாம்பசம் பாகை 20 வடக்கு

Siderial Time நட்சத்திர ஹேராசை		Udaya Lagna உதைய லக்கினம்		Dasarna Lagna தசம் லக் கினம்		Siderial Time நட்சத்திர ஹேராசை		Udaya Lagna உதைய லக்கினம்		Dasarna Lagna தசம் லக் கினம்	
Hrs. Ms.	Ds. Ms.	Ds. Ms.	Ds. Ms.	Hrs. Ms.	Ds. Ms.	Hrs. Ms.	Ds. Ms.	Ds. Ms.	Ds. Ms.	Hrs. Ms.	Ds. Ms.
மணி. நிமி.	பா. கலை.	பா. கலை.	பா. கலை.	மணி. நிமி.	பா. கலை.	மணி. நிமி.	பா. கலை.	பா. கலை.	பா. கலை.	மணி. நிமி.	பா. கலை.
(1)	(2)	(3)	(4)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
12 24	267 14	186 32	18 24	7 45	275 30	12 24	267 14	186 32	18 24	7 45	275 30
12 36	269 58	189 48	18 36	11 36	278 16	12 36	269 58	189 48	18 36	11 36	278 16
12 48	271 45	193 03	18 48	15 26	281 02	12 48	271 45	193 03	18 48	15 26	281 02
13 00	275 32	196 17	19 00	19 13	283 49	13 00	275 32	196 17	19 00	19 13	283 49
13 12	278 21	199 30	19 12	22 59	286 36	13 12	278 21	199 30	19 12	22 59	286 36
13 24	281 12	202 43	19 24	26 42	289 24	13 24	281 12	202 43	19 24	26 42	289 24
13 36	284 06	205 53	19 36	30 22	292 13	13 36	284 06	205 53	19 36	30 22	292 13
13 48	287 00	209 03	19 48	33 59	295 03	13 48	287 00	209 03	19 48	33 59	295 03
14 00	289 58	212 11	20 00	37 33	297 55	14 00	289 58	212 11	20 00	37 33	297 55
14 12	292 59	215 18	20 12	41 03	300 47	14 12	292 59	215 18	20 12	41 03	300 47
14 24	296 03	218 23	20 24	44 30	303 41	14 24	296 03	218 23	20 24	44 30	303 41
14 36	299 06	221 26	20 36	47 53	306 37	14 36	299 06	221 26	20 36	47 53	306 37
14 48	302 19	224 28	20 48	51 12	309 33	14 48	302 19	224 28	20 48	51 12	309 33
15 00	305 31	227 28	21 00	54 29	312 32	15 00	305 31	227 28	21 00	54 29	312 32
15 12	308 43	230 27	21 12	57 41	315 32	15 12	308 43	230 27	21 12	57 41	315 32
15 24	312 07	233 23	21 24	60 54	318 34	15 24	312 07	233 23	21 24	60 54	318 34
15 36	315 30	236 19	21 36	63 57	321 37	15 36	315 30	236 19	21 36	63 57	321 37
15 48	318 57	239 13	21 48	67 01	324 42	15 48	318 57	239 13	21 48	67 01	324 42
16 00	322 27	242 05	22 00	70 02	327 49	16 00	322 27	242 05	22 00	70 02	327 49
16 12	326 01	244 57	22 12	73 00	330 57	16 12	326 01	244 57	22 12	73 00	330 57
16 24	329 38	247 47	22 24	75 54	334 07	16 24	329 38	247 47	22 24	75 54	334 07
16 36	333 18	250 36	22 36	78 48	337 17	16 36	333 18	250 36	22 36	78 48	337 17
16 48	337 01	253 24	22 48	81 39	340 30	16 48	337 01	253 24	22 48	81 39	340 30
17 00	340 47	256 11	23 00	84 28	343 43	17 00	340 47	256 11	23 00	84 28	343 43
17 12	344 34	258 58	23 12	88 15	346 57	17 12	344 34	258 58	23 12	88 15	346 57
17 24	348 24	261 44	23 24	90 02	350 12	17 24	348 24	261 44	23 24	90 02	350 12
17 36	352 15	264 30	23 36	92 46	353 28	17 36	352 15	264 30	23 36	92 46	353 28
17 48	356 07	267 15	23 48	95 29	356 44	17 48	356 07	267 15	23 48	95 29	356 44
18 00	360 00	270 00	24 00	98 12	360 00	18 00	360 00	270 00	24 00	98 12	360 00
18 12	3 53	272 45				18 12	3 53	272 45			

54 Tables of Bhavas—லக்கினஸ்புட, பாவஸ்புட வாக்கியம்.

TABLE 9. (Contd.)

Latitude Degree 21 North

வாக்கியம் 9. (துடர்ச்சி.)

அக்டாம்பம் பாகை 21 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி.	நிமி.	பா.	கலை.	பா.	கலை.	மணி.	நிமி.	பா.	கலை.	பா.	கலை.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
0 00	98 38	0 00	6 12	182 48	92 45	0 12	101 19	3 16	6 24	185 37	95 30
0 24	103 59	6 32	6 36	188 25	98 16	0 36	106 39	9 48	6 48	191 13	101 02
0 48	109 18	13 03	7 00	194 00	103 49	1 00	111 56	16 17	7 12	196 47	106 36
1 12	114 35	19 30	7 24	199 34	109 24	1 12	114 35	19 30	7 24	199 34	109 24
1 24	117 14	22 43	7 36	202 21	112 13	1 24	117 14	22 43	7 36	202 21	112 13
1 36	120 52	25 53	7 48	205 07	115 03	1 36	120 52	25 53	7 48	205 07	115 03
1 48	122 31	29 03	8 00	207 51	117 55	1 48	122 31	29 03	8 00	207 51	117 55
2 00	125 10	32 11	8 12	210 35	120 47	2 00	125 10	32 11	8 12	210 35	120 47
2 12	127 50	35 18	8 24	213 20	123 41	2 12	127 50	35 18	8 24	213 20	123 41
2 24	130 30	38 23	8 36	216 03	126 37	2 24	130 30	38 23	8 36	216 03	126 37
2 36	133 10	41 26	8 48	218 47	129 33	2 36	133 10	41 26	8 48	218 47	129 33
2 48	135 51	44 28	9 00	221 27	132 32	2 48	135 51	44 28	9 00	221 27	132 32
3 00	138 33	47 28	9 12	224 09	135 32	3 00	138 33	47 28	9 12	224 09	135 32
3 12	141 13	50 27	9 24	226 50	138 34	3 12	141 13	50 27	9 24	226 50	138 34
3 24	143 57	53 23	9 36	229 30	141 37	3 24	143 57	53 23	9 36	229 30	141 37
3 36	146 40	56 19	9 48	232 10	144 42	3 36	146 40	56 19	9 48	232 10	144 42
3 48	149 25	59 13	10 00	234 50	147 49	3 48	149 25	59 13	10 00	234 50	147 49
4 00	152 09	62 05	10 12	237 29	150 57	4 00	152 09	62 05	10 12	237 29	150 57
4 12	154 53	64 57	10 24	239 08	154 07	4 12	154 53	64 57	10 24	239 08	154 07
4 24	157 39	67 47	10 36	242 46	157 17	4 24	157 39	67 47	10 36	242 46	157 17
4 36	160 26	70 36	10 48	245 25	160 30	4 36	160 26	70 36	10 48	245 25	160 30
4 48	163 13	73 24	11 00	248 04	163 43	4 48	163 13	73 24	11 00	248 04	163 43
5 00	166 00	76 11	11 12	250 42	166 57	5 00	166 00	76 11	11 12	250 42	166 57
5 12	168 47	78 58	11 24	253 21	170 12	5 12	168 47	78 58	11 24	253 21	170 12
5 24	171 35	81 44	11 36	256 01	173 28	5 24	171 35	81 44	11 36	256 01	173 28
5 36	174 23	84 30	11 48	258 41	176 44	5 36	174 23	84 30	11 48	258 41	176 44
5 48	177 12	87 15	12 00	261 22	180 00	5 48	177 12	87 15	12 00	261 22	180 00
6 00	180 00	90 00	12 12	264 04	183 16	6 00	180 00	90 00	12 12	264 04	183 16

TABLE 9. (Contd.)

Latitude Degree 21 North.

வாக்கியம் 9. (துடர்ச்சி.)

அகூரம்சம் பாகை 21 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	266	48	186	32	18	24	7	49	275	30
12	36	269	32	189	48	18	36	11	43	278	16
12	48	272	17	193	03	18	48	15	34	281	02
13	00	275	04	196	17	19	00	19	24	283	49
13	12	277	53	199	30	19	12	23	11	286	36
13	24	280	44	202	43	19	24	26	57	289	24
13	36	283	33	205	53	19	36	30	39	292	13
13	48	286	39	209	03	19	48	34	17	295	03
14	00	289	32	212	11	20	00	37	21	297	55
14	12	292	32	215	18	20	12	41	24	300	47
14	24	295	35	218	23	20	24	44	52	303	41
14	36	298	42	221	26	20	36	48	16	306	37
14	48	301	52	224	28	20	48	51	36	309	33
15	00	305	06	227	28	21	00	54	54	312	32
15	12	308	24	230	27	21	12	58	08	315	32
15	24	311	44	233	23	21	24	61	18	318	34
15	36	315	08	236	19	21	36	64	25	321	37
15	48	318	36	239	13	21	48	67	28	324	42
16	00	322	39	242	05	22	00	70	28	327	49
16	12	325	43	244	57	22	12	73	21	330	57
16	24	329	21	247	47	22	24	76	23	334	07
16	36	333	03	250	36	22	36	79	16	337	17
16	48	336	49	253	24	22	48	82	07	340	30
17	00	340	36	256	11	23	00	84	56	343	43
17	12	344	26	258	58	23	12	87	43	346	57
17	24	348	17	261	44	23	24	90	28	350	12
17	36	352	11	264	30	23	36	93	12	353	28
17	48	356	05	267	15	23	48	95	56	356	44
18	00	360	00	270	00	24	00	98	38	360	00
18	12	3	55	272	45						

56 Tables of Bhavas—லக்கினஸ்புட, பாவஸ்புட வாக்கியம்.

TABLE 9. (Contd.)

Latitude Degree 22 North

வாக்கியம் 9. (துடர்ச்சி.)

அக்டாபர்மீசம் பாகை 22 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	99	05	0	00	6	12	182	47	92	45
0	12	101	45	3	16	6	24	185	35	95	30
0	24	104	25	6	32	6	36	188	20	98	16
0	36	107	04	9	48	6	48	191	07	101	02
0	48	109	43	13	03	7	00	193	54	103	49
1	00	112	21	16	17	7	12	196	40	106	36
1	12	114	59	19	30	7	24	199	26	109	24
1	24	117	37	22	43	7	36	202	11	112	13
1	36	120	15	25	53	7	48	204	55	115	03
1	48	122	54	29	03	8	00	207	39	117	55
2	00	125	32	32	11	8	12	210	23	120	47
2	12	128	09	35	18	8	24	213	06	123	41
2	24	130	50	38	23	8	36	215	48	126	37
2	36	133	29	41	26	8	48	218	29	129	33
2	48	136	09	44	28	9	00	221	10	132	32
3	00	138	50	47	28	9	12	224	00	135	32
3	12	141	31	50	27	9	24	226	31	138	34
3	24	144	12	53	23	9	36	229	10	141	37
3	36	146	54	56	19	9	48	231	51	144	42
3	48	149	37	59	13	10	00	234	28	147	49
4	00	152	21	62	05	10	12	237	06	150	57
4	12	155	05	64	57	10	24	239	45	154	07
4	24	157	49	67	47	10	36	242	23	157	17
4	36	160	34	70	36	10	48	245	01	160	30
4	48	163	20	73	24	11	00	247	39	163	43
5	00	166	06	76	11	11	12	250	17	166	57
5	12	168	53	78	58	11	24	252	56	170	12
5	24	171	40	81	44	11	36	255	35	173	28
5	36	174	25	84	30	11	48	258	15	176	44
5	48	177	13	87	15	12	00	260	55	180	00
6	00	180	00	90	00	12	12	263	37	183	16

TABLE 9. (Contd.)

Latitude Degree 22 North

வாக்கியம் 9. (துடர்ச்சி.)

அசுபாம்சம் பாகை 22 வடக்கு

Siderial Time		Udaya Lagna		Dasama Lagna		Siderial Time		Udaya Lagna		Dasama Lagna	
நட்சத்திர ஹோரை		உதைய லக்கினம்		தசம லக் கினம்		நட்சத்திர ஹோரை		உதைய லக்கினம்		தசம லக் கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)	(2)	(3)	(4)	(5)	(6)	(1)	(2)	(3)	(4)	(5)	(6)
12 24	266 20	186 32	18 24	7 55	275 30						
12 36	269 04	189 48	18 36	11 50	278 16						
12 48	271 49	193 03	18 48	15 45	281 02						
13 00	274 36	196 17	19 00	19 37	283 49						
13 12	277 24	199 30	19 12	23 27	286 36						
13 24	279 56	202 43	19 24	27 18	289 24						
13 36	283 09	205 53	19 36	30 11	292 13						
13 48	286 42	209 03	19 48	34 37	295 03						
14 00	289 04	212 11	20 00	38 13	297 55						
14 12	292 03	215 18	20 12	41 46	300 47						
14 24	295 08	218 23	20 24	45 18	303 41						
14 36	298 15	221 26	20 36	48 41	306 37						
14 48	301 26	224 28	20 48	52 02	309 33						
15 00	304 41	227 28	21 00	55 19	312 32						
15 12	307 58	230 27	21 12	58 34	315 32						
15 24	311 19	233 23	21 24	61 45	318 34						
15 36	314 42	236 19	21 36	64 52	321 37						
15 48	318 14	239 13	21 48	67 57	324 42						
16 00	321 47	242 05	22 00	70 56	327 49						
16 12	325 23	244 57	22 12	73 56	330 57						
16 24	329 49	247 47	22 24	76 51	334 07						
16 36	332 47	250 36	22 36	80 04	337 17						
16 48	336 33	253 24	22 48	82 36	340 30						
17 00	340 23	256 11	23 00	85 24	343 43						
17 12	344 15	258 58	23 12	88 11	346 57						
17 24	348 10	261 44	23 24	90 56	350 12						
17 36	352 05	264 30	23 36	93 40	353 28						
17 48	356 02	267 15	23 48	96 23	356 44						
18 00	360 00	270 00	24 00	99 05	360 00						
18 12	3 58	272 45									

TABLE 9. (Contd.)

Latitude Degree 23 North

வாக்கியம் 9. (துடர்ச்சி.)

அகஷாட்சம் பாகை 23 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs. Ms. மணி. நிமி.		Ds. Ms. பா. கலை.		Ds. Ms. பா. கலை.		Hrs. Ms. மணி. நிமி.		Ds. Ms. பா. கலை.		Ds. Ms. பா. கலை.	
(1)		(2)		(3)		(1)		(2)		(3)	
0 00		99 31		0 00		6 12		182 44		92 45	
0 12		102 12		3 16		6 24		185 31		95 30	
0 24		104 51		6 32		6 36		188 18		98 16	
0 36		107 30		9 48		6 48		191 03		101 02	
0 48		110 08		13 03		7 00		193 49		103 49	
1 00		112 46		16 17		7 12		196 32		106 36	
1 12		115 23		19 30		7 24		199 17		109 24	
1 24		118 01		22 43		7 36		202 01		112 13	
1 36		120 37		25 53		7 48		204 45		115 03	
1 48		123 15		29 03		8 00		207 27		117 55	
2 00		125 53		32 11		8 12		210 10		120 47	
2 12		128 31		35 18		8 24		212 51		123 41	
2 24		131 09		38 23		8 36		215 33		126 37	
2 36		133 48		41 26		8 48		218 14		129 33	
2 48		136 27		44 28		9 00		220 54		132 32	
3 00		139 06		47 28		9 12		223 33		135 32	
3 12		141 46		50 27		9 24		226 12		138 34	
3 24		144 27		53 23		9 36		228 51		141 37	
3 36		147 09		56 19		9 48		231 29		144 42	
3 48		149 50		59 13		10 00		234 07		147 49	
4 00		152 33		62 05		10 12		236 45		150 57	
4 12		155 15		64 57		10 24		239 23		154 07	
4 24		157 59		67 47		10 36		241 59		157 17	
4 36		160 43		70 36		10 48		244 37		160 30	
4 48		163 28		73 24		11 00		247 14		163 43	
5 00		166 11		76 11		11 12		249 52		166 57	
5 12		168 57		78 58		11 24		252 30		170 12	
5 24		171 42		81 44		11 36		255 09		173 28	
5 36		174 29		84 30		11 48		257 48		176 44	
5 48		177 16		87 15		12 00		260 29		180 00	
6 00		180 00		90 00		12 12		263 10		183 16	

TABLE 9. (Contd.)

Latitude Degree 23 North

வாக்கியம் 9. (துடர்ச்சி.)

அக்டாபர்மாதம் பாகை 23 வடக்கு

Sidereal Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Sidereal Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி.	நிமி.	பா.	கலை.	பா.	கலை.	மணி.	நிமி.	பா.	கலை.	பா.	கலை.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
12	24	265	51	186	32	18	24	8	00	275	30
12	36	268	35	189	48	18	36	11	58	278	16
12	48	271	21	193	03	18	48	15	54	281	02
13	00	274	07	196	17	19	00	19	49	283	49
13	12	276	56	199	30	19	12	23	41	286	36
13	24	279	47	202	43	19	24	27	30	289	24
13	36	282	40	205	53	19	36	31	03	292	13
13	48	285	35	209	03	19	48	34	57	295	03
14	00	288	34	212	11	20	00	38	35	297	55
14	12	291	35	215	18	20	12	42	09	300	47
14	24	294	39	218	23	20	24	45	40	303	41
14	36	296	42	221	26	20	36	49	06	306	37
14	48	300	58	224	28	20	48	52	28	309	33
15	00	304	13	227	28	21	00	55	47	312	32
15	12	307	32	230	27	21	12	59	02	315	32
15	24	310	54	233	23	21	24	63	18	318	34
15	36	314	20	236	19	21	36	65	21	321	37
15	48	317	51	239	13	21	48	68	25	324	42
16	00	321	25	242	05	22	00	71	26	327	49
16	12	325	03	244	57	22	12	74	25	330	57
16	24	328	57	247	47	22	24	77	20	334	07
16	36	332	30	250	36	22	36	80	13	337	17
16	48	336	19	253	24	22	48	83	04	340	30
17	00	340	11	256	11	23	00	85	53	343	43
17	12	344	06	258	58	23	12	88	39	346	57
17	24	348	02	261	44	23	24	91	25	350	12
17	36	352	00	264	30	23	36	94	09	353	28
17	48	356	00	267	15	23	48	96	50	356	44
18	00	360	00	270	00	24	00	99	31	360	00
18	12	4	00	272	45						

TABLE 9. (Contd.)

Latitude Degree 24 North.

வாக்கியம் 9. (துடர்ச்சி.)

அகூடாம்சம் பாகை 24 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி	நிமி.	பா.	கலை.	பா.	கலை.	மணி	நிமி.	பா.	கலை.	பா.	கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	99	59	0	00	6	12	182	45	92	45
0	12	102	39	3	16	6	24	185	29	95	30
0	24	105	17	6	32	6	36	188	14	98	16
0	36	107	55	9	48	6	48	190	57	101	02
0	48	110	33	13	03	7	00	193	41	103	49
1	00	113	10	16	17	7	12	196	26	106	36
1	12	115	47	19	30	7	24	199	08	109	24
1	24	118	24	22	43	7	36	201	51	112	13
1	36	121	00	25	53	7	48	204	33	115	03
1	48	123	37	29	03	8	00	207	16	117	55
2	00	126	14	32	11	8	12	209	57	120	47
2	12	128	51	35	18	8	24	212	38	123	41
2	24	131	29	38	23	8	36	215	18	126	37
2	36	134	32	41	26	8	48	217	58	129	33
2	48	136	45	44	28	9	00	220	37	132	32
3	00	139	23	47	28	9	12	223	15	135	32
3	12	142	02	50	27	9	24	225	28	138	34
3	24	144	42	53	23	9	36	228	31	141	37
3	36	147	22	56	19	9	48	231	09	144	42
3	48	150	03	59	13	10	00	233	46	147	49
4	00	152	44	62	05	10	12	236	23	150	57
4	12	155	27	64	57	10	24	239	00	154	07
4	24	158	09	67	47	10	36	241	36	157	17
4	36	160	52	70	36	10	48	244	13	160	30
4	48	163	34	73	24	11	00	246	50	163	43
5	00	166	19	76	11	11	12	249	27	166	57
5	12	169	03	78	58	11	24	252	05	170	12
5	24	171	46	81	44	11	36	254	43	173	28
5	36	174	31	84	30	11	48	257	21	176	44
5	48	177	15	87	15	12	00	260	01	180	00
6	00	180	00	90	00	12	12	262	42	183	16

TABLE 9. (Contd.)

Latitude Degree 24 North

வாக்கியம் 9. (துடர்ச்சி.)

அகூதாம்சம் பாகை 24 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி.	நிமி.	பா.	கலை.	பா.	கலை.	மணி.	நிமி.	பா.	கலை.	பா.	கலை.
(1)	(2)	(3)		(1)	(2)	(3)		(1)	(2)	(3)	
12	24	265	24	186	32	18	24	8	05	275	30
12	36	268	07	189	48	18	36	12	06	278	16
12	48	270	52	193	03	18	48	16	05	281	02
13	00	273	33	196	17	19	00	20	02	283	49
13	12	276	27	199	30	19	12	23	56	286	36
13	24	279	18	202	43	19	24	27	46	289	24
13	36	282	11	205	53	19	36	31	34	292	13
13	48	285	17	209	03	19	48	35	17	295	03
14	00	288	05	212	11	20	00	38	58	297	55
14	12	291	07	215	18	20	12	42	33	300	47
14	24	294	11	218	23	20	24	46	04	303	41
14	36	297	19	221	26	20	36	49	32	306	37
14	48	300	31	224	28	20	48	52	55	309	33
15	00	303	46	227	28	21	00	56	14	312	32
15	12	307	05	230	27	21	12	59	29	315	32
15	24	310	28	233	23	21	24	62	41	318	34
15	36	313	56	236	19	21	36	65	49	321	37
15	48	317	27	239	13	21	48	68	53	324	42
16	00	321	02	242	05	22	00	71	55	327	49
16	12	324	43	244	57	22	12	74	53	330	57
16	24	328	26	247	47	22	24	77	49	334	07
16	36	332	14	250	36	22	36	80	42	337	17
16	48	336	04	253	24	22	48	83	33	340	30
17	00	339	58	256	11	23	00	86	22	343	43
17	12	343	55	258	58	23	12	89	08	346	57
17	24	347	54	261	44	23	24	91	53	350	12
17	36	351	55	264	30	23	36	94	36	353	28
17	48	355	57	267	15	23	48	97	18	356	44
18	00	360	00	270	00	24	00	99	59	360	00
18	12	4	03	272	45						

TABLE 9. (Contd.)

Latitude Degree 25 North

வாக்கியம் 9. (துடர்ச்சி.)

அகாசம்சம் பாகை 25 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	100	27	0	00	6	12	182	46	92	45
0	12	103	05	3	16	6	24	185	27	95	30
0	24	105	44	6	32	6	36	188	10	98	16
0	36	108	22	9	48	6	48	190	53	101	02
0	48	110	58	13	03	7	00	193	35	103	49
1	00	113	36	16	17	7	12	196	18	106	36
1	12	116	11	19	30	7	24	199	00	109	24
1	24	118	48	22	43	7	36	201	42	112	13
1	36	121	23	25	53	7	48	204	23	115	03
1	48	123	59	29	03	8	00	207	04	117	55
2	00	126	35	32	11	8	12	209	44	120	47
2	12	129	12	35	18	8	24	212	23	123	41
2	24	131	49	38	23	8	36	215	03	126	37
2	36	134	51	41	26	8	48	217	41	129	33
2	48	137	03	44	28	9	00	220	19	132	32
3	00	139	41	47	28	9	12	222	57	135	32
3	12	142	19	50	27	9	24	225	09	138	34
3	24	144	57	53	23	9	36	228	11	141	37
3	36	147	37	56	19	9	48	230	48	144	42
3	48	150	16	59	13	10	00	233	25	147	49
4	00	152	56	62	05	10	12	236	01	150	57
4	12	155	37	64	57	10	24	238	37	154	07
4	24	158	18	67	47	10	36	241	12	157	17
4	36	161	00	70	36	10	48	243	49	160	30
4	48	163	42	73	24	11	00	246	24	163	43
5	00	166	25	76	11	11	12	249	02	166	57
5	12	169	07	78	58	11	24	251	38	170	12
5	24	171	50	81	44	11	36	254	16	173	28
5	36	174	33	84	30	11	48	256	55	176	44
5	48	177	14	87	15	12	00	259	32	180	00
6	00	180	00	90	00	12	12	262	13	183	16

TABLE 9. (Contd.)

Latitude Degree 25 North.

வாக்கியம் 9. (துடர்ச்சி.)

அகஷாாம்சம் பாகை 25 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)	(2)	(3)		(1)	(2)	(3)		(3)		(3)	
12	24	264	56	186	32	18	24	8	10	275	30
12	36	267	38	189	48	18	36	12	14	278	16
12	48	270	23	193	03	18	48	16	15	281	02
13	00	273	09	196	17	19	00	20	14	283	49
13	12	275	57	199	30	19	12	24	11	286	36
13	24	278	47	202	43	19	24	28	04	289	24
13	36	281	40	205	53	19	36	31	53	292	13
13	48	284	37	209	03	19	48	35	39	295	03
14	00	287	35	212	11	20	00	39	20	297	55
14	12	290	36	215	18	20	12	42	57	301	47
14	24	293	41	218	23	20	24	46	29	303	41
14	36	296	50	221	26	20	36	49	58	306	37
14	48	300	01	224	28	20	48	53	22	309	33
15	00	303	18	227	28	21	00	56	42	312	32
15	12	306	38	230	27	21	12	59	59	315	32
15	24	310	02	233	23	21	24	63	10	318	34
15	36	313	31	236	19	21	36	66	19	321	37
15	48	317	03	239	13	21	48	69	24	324	42
16	00	320	40	242	05	22	00	72	25	327	49
16	12	324	21	244	57	22	12	75	23	330	57
16	24	328	07	247	47	22	24	78	20	334	07
16	36	331	56	250	36	22	36	81	13	337	17
16	48	335	49	253	24	22	48	84	03	340	30
17	00	339	46	256	11	23	00	86	51	343	43
17	12	343	45	258	58	23	12	89	37	346	57
17	24	347	46	261	44	23	24	92	22	350	12
17	36	351	50	264	30	23	36	95	04	353	28
17	48	355	55	267	15	23	48	97	47	356	44
18	00	360	00	270	00	24	00	100	27	360	00
18	12	4	05	273	45						

64 Tables of Bhavas—லக்கினஸ்புட, பாவஸ்புட வாக்கியம்.

TABLE 9. (Contd.)

Latitude Degree 26 North

வாக்கியம் 9. (குடர்ச்சி.)

அகாசம்சம் பாகை 26 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி	நிமி.	பா.	கலை.	பா.	கலை.	மணி	நிமி.	பா.	கலை.	பா.	கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	107	54	0	00	6	12	182	42	92	45
0	12	103	34	3	16	6	24	185	25	95	30
0	24	106	11	6	32	6	36	188	06	98	16
0	36	108	49	9	48	6	48	190	47	101	02
0	48	111	25	13	03	7	00	193	29	103	49
1	00	114	01	16	17	7	12	196	11	106	36
1	12	116	36	19	30	7	24	198	51	109	24
1	24	119	11	22	43	7	36	201	32	112	13
1	36	121	08	25	53	7	48	204	12	115	03
1	48	124	22	29	03	8	00	206	51	117	55
2	00	126	57	32	11	8	12	209	31	120	47
2	12	129	32	35	18	8	24	212	09	123	41
2	24	132	08	38	23	8	36	214	47	126	37
2	36	134	44	41	26	8	48	217	15	129	33
2	48	137	20	44	23	9	00	220	02	132	32
3	00	139	58	47	28	9	12	222	40	135	32
3	12	142	35	50	27	9	24	225	16	138	34
3	24	145	13	53	23	9	36	227	52	141	37
3	36	147	51	56	19	9	48	230	28	144	42
3	48	150	29	59	13	10	00	233	03	147	49
4	00	153	09	62	05	10	12	235	38	150	57
4	12	155	48	64	57	10	24	237	52	154	07
4	24	158	28	67	47	10	36	240	49	157	17
4	36	161	09	70	36	10	48	243	24	160	30
4	48	163	49	73	24	11	00	245	59	163	43
5	00	166	31	76	11	11	12	248	35	166	57
5	12	169	13	78	58	11	24	251	11	170	12
5	24	171	54	81	44	11	36	253	49	173	28
5	36	174	35	84	30	11	48	256	26	176	44
5	48	177	18	87	15	12	00	259	06	180	00
6	00	180	00	90	00	12	12	261	45	183	16

Tables of Bhavas—லக்கினஸ்புட, பாவஸ்புட வாக்கியம். 65

TABLE 9. (Contd.)

Latitude Degree 26 North

வாக்கியம் 9. (துடர்ச்சி.)

அக்ஷராம்சம் பாகை 26 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி.	நிமி.	பா.	கலை.	பா.	கலை.	மணி.	நிமி.	பா.	கலை.	பா.	கலை.
(1)	(2)	(3)		(1)	(2)	(3)					
12 24	264	29	186	32	18 24	8 16	275	30			
12 36	267	09	189	48	18 36	12 22	278	16			
12 48	269	53	193	03	18 48	16 27	281	02			
13 00	272	39	196	17	19 00	20 28	283	49			
13 12	275	27	199	30	19 12	24 27	286	36			
13 24	278	17	202	43	19 24	28 22	289	24			
13 36	281	10	205	53	19 36	32 14	292	13			
13 48	284	06	209	03	19 48	36 00	295	03			
14 00	287	04	212	11	20 00	39 43	297	55			
14 12	290	06	215	18	20 12	43 22	300	47			
14 24	293	11	218	23	20 24	46 56	303	41			
14 36	296	19	221	26	20 36	50 26	306	37			
14 48	299	32	224	28	20 48	53 51	309	33			
15 00	302	49	227	28	21 00	57 11	312	32			
15 12	306	09	230	27	21 12	60 28	315	32			
15 24	309	34	233	23	21 24	63 41	318	34			
15 36	313	04	236	19	21 36	66 49	321	37			
15 48	316	38	239	13	21 48	69 54	324	42			
16 00	320	17	242	05	22 00	72 56	327	49			
16 12	324	00	244	57	22 12	75 54	330	57			
16 24	327	46	247	47	22 24	78 50	334	07			
16 36	331	38	250	36	22 36	81 43	337	17			
16 48	335	33	253	24	22 48	84 33	340	30			
17 00	339	32	256	11	23 00	87 21	343	43			
17 12	343	33	258	53	23 12	90 07	346	57			
17 24	347	38	261	44	23 24	92 51	350	12			
17 36	351	44	264	30	23 36	95 31	353	28			
17 48	355	52	267	15	23 48	98 15	356	44			
18 00	360	00	270	00	24 00	100 54	360	00			
18 12	4	08	272	45							

TABLE 9. (Contd.)

Latitude Degree 27 North

வாக்கியம் 9. (துடர்ச்சி.)

அக்டாம்பம் பாகை 27 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
0 00	101 23	0 00	6 12	182 41	92 45						
0 12	104 02	3 16	6 24	185 21	95 30						
0 24	106 38	6 32	6 36	188 02	98 16						
0 36	109 15	9 48	6 48	191 29	101 02						
0 48	111 51	13 03	7 00	193 23	103 49						
1 00	114 26	16 17	7 12	196 02	106 36						
1 12	117 01	19 30	7 24	198 43	109 24						
1 24	119 35	22 43	7 36	201 22	112 13						
1 36	122 11	25 53	7 48	204 01	115 03						
1 48	124 44	29 03	8 00	206 39	117 55						
2 00	127 19	32 11	8 12	209 18	120 47						
2 12	129 54	35 18	8 24	211 55	123 41						
2 24	132 28	38 23	8 36	214 33	126 37						
2 36	135 04	41 26	8 48	217 09	129 33						
2 48	137 39	44 28	9 00	219 45	132 32						
3 00	140 15	47 28	9 12	222 21	135 32						
3 12	142 51	50 27	9 24	224 56	138 34						
3 24	145 27	53 23	9 36	227 32	141 37						
3 36	148 05	56 19	9 48	230 06	144 42						
3 48	150 42	59 13	10 00	232 41	147 49						
4 00	153 21	62 05	10 12	235 16	150 57						
4 12	155 59	64 57	10 24	237 49	154 07						
4 24	158 38	67 47	10 36	240 25	157 17						
4 36	161 17	70 36	10 48	242 59	160 30						
4 48	163 58	73 24	11 00	245 34	163 43						
5 00	166 37	76 11	11 12	248 09	166 57						
5 12	168 31	78 58	11 24	250 45	170 12						
5 24	171 58	81 44	11 36	253 22	173 28						
5 36	174 39	84 30	11 48	255 58	176 44						
5 48	177 19	87 15	12 00	258 37	180 00						
6 00	180 00	90 00	12 12	261 16	183 16						

TABLE 9. (Contd.)

Latitude Degree 27 North

வாக்கியம் 9. (துடர்ச்சி.)

அசுஷாம்சம் பாகை 27 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)	(2)	(3)		(1)	(2)	(3)		(3)		(3)	
12	24	263	56	186	32	18	24	8	22	275	30
12	36	266	33	189	48	18	36	12	31	278	16
12	48	269	23	193	03	18	48	16	38	281	02
13	00	272	08	196	17	19	00	20	42	283	49
13	12	274	55	199	30	19	12	24	43	286	36
13	24	278	46	202	43	19	24	28	41	289	24
13	36	280	38	205	53	19	36	32	34	292	13
13	48	283	36	209	03	19	48	36	23	295	03
14	00	286	33	212	11	20	00	40	08	297	55
14	12	289	35	215	18	20	12	43	43	300	47
14	24	292	40	218	23	20	24	47	24	303	41
14	36	295	49	221	26	20	36	50	53	306	37
14	48	299	01	224	28	20	48	53	53	309	33
15	00	302	19	227	28	21	00	57	41	312	32
15	12	306	02	230	27	21	12	60	59	315	32
15	24	309	07	233	23	21	24	64	11	318	34
15	36	312	36	236	19	21	36	67	20	321	37
15	48	316	12	239	13	21	48	70	25	324	42
16	00	319	52	242	05	22	00	73	27	327	49
16	12	323	37	244	57	22	12	76	24	330	57
16	24	327	26	247	47	22	24	79	22	334	07
16	36	331	19	250	36	22	36	81	14	337	17
16	48	335	17	253	24	22	48	85	05	340	30
17	00	339	18	256	11	23	00	87	52	343	43
17	12	343	22	258	58	23	12	90	37	346	57
17	24	347	29	261	44	23	24	93	27	350	12
17	36	351	38	264	30	23	36	96	04	353	28
17	48	355	50	267	15	23	48	98	44	356	44
18	00	360	00	270	00	24	00	101	23	360	00
18	12	4	10	272	45						

TABLE 9. (Contd.)

Latitude Degree 28 North.

வாக்கியம் 9. (துடர்ச்சி.)

அக்டாம்பம்சம் பாகை 28 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி	நிமி.	பா.	கலை.	பா.	கலை.	மணி	நிமி.	பா.	கலை.	பா.	கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	101	52	0	00	6	12	182	40	92	45
0	12	104	30	3	16	6	24	185	19	95	30
0	24	107	06	6	32	6	36	187	59	98	16
0	36	109	42	9	48	6	48	190	38	101	02
0	48	112	17	13	03	7	00	193	17	103	49
1	00	114	06	16	17	7	12	195	56	106	36
1	12	117	24	19	30	7	24	198	34	109	24
1	24	120	00	22	43	7	36	201	12	112	13
1	36	122	17	25	53	7	48	203	51	115	03
1	48	125	07	29	03	8	00	206	28	117	55
2	00	127	40	32	11	8	12	209	04	120	47
2	12	130	14	35	18	8	24	211	41	123	41
2	24	133	50	38	23	8	36	214	17	126	37
2	36	135	39	41	26	8	48	216	52	129	33
2	48	137	57	44	28	9	00	219	28	132	32
3	00	140	32	47	28	9	12	222	03	135	32
3	12	143	08	50	27	9	24	224	21	138	34
3	24	145	43	53	23	9	36	226	10	141	37
3	36	148	19	56	19	9	48	229	46	144	42
3	48	150	56	59	13	10	00	232	20	147	49
4	00	153	32	62	05	10	12	234	53	150	57
4	12	156	09	64	57	10	24	237	43	154	07
4	24	158	48	67	47	10	36	240	00	157	17
4	36	161	26	70	36	10	48	242	36	160	30
4	48	164	04	73	24	11	00	245	54	163	43
5	00	166	43	76	11	11	12	247	43	166	57
5	12	169	22	78	58	11	24	250	18	170	12
5	24	172	01	81	44	11	36	252	54	173	28
5	36	174	41	84	30	11	48	255	30	176	44
5	48	177	20	87	15	12	00	258	08	180	00
6	00	180	00	90	00	12	12	260	46	183	16

TABLE 9. (Contd.)

Latitude Degree 28 North

வாக்கியம் 9. (துடர்ச்சி)

அசுடாம்சம் பாகை 28 வடக்கு

Siderial Time		Udaya Lagna		Dasama Lagna		Siderial Time		Udaya Lagna		Dasama Lagna	
நட்சத்திர வேறாசை		உதைய லக்கினம்		தசம லக் கினம்		நட்சத்திர வேறாசை		உதைய லக்கினம்		தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி	நிமி.	பா.	கலை.	பா.	கலை.	மணி	நிமி.	பா.	கலை.	பா.	கலை.
(1)	(2)	(3)	(4)	(5)	(6)	(1)	(2)	(3)	(4)	(5)	(6)
12 24	263 27	186 32	18 24	8 24	275 30	12 24	263 27	186 32	18 24	8 24	275 30
12 36	266 09	189 48	18 36	12 47	278 16	12 36	266 09	189 48	18 36	12 47	278 16
12 48	268 52	193 03	18 48	16 50	281 02	12 48	268 52	193 03	18 48	16 50	281 02
13 00	271 37	196 17	19 00	20 57	283 49	13 00	271 37	196 17	19 00	20 57	283 49
13 12	274 25	199 30	19 12	25 00	286 36	13 12	274 25	199 30	19 12	25 00	286 36
13 24	277 15	202 43	19 24	29 00	289 24	13 24	277 15	202 43	19 24	29 00	289 24
13 36	280 07	205 53	19 36	32 56	292 13	13 36	280 07	205 53	19 36	32 56	292 13
13 48	283 02	209 03	19 48	36 47	295 03	13 48	283 02	209 03	19 48	36 47	295 03
14 00	286 01	212 11	20 00	40 33	297 55	14 00	286 01	212 11	20 00	40 33	297 55
14 12	289 03	215 18	20 12	44 14	300 47	14 12	289 03	215 18	20 12	44 14	300 47
14 24	292 08	218 23	20 24	47 51	303 41	14 24	292 08	218 23	20 24	47 51	303 41
14 36	295 18	221 26	20 36	51 23	306 37	14 36	295 18	221 26	20 36	51 23	306 37
14 48	298 31	224 28	20 48	54 49	309 33	14 48	298 31	224 28	20 48	54 49	309 33
15 00	301 49	227 28	21 00	58 11	312 32	15 00	301 49	227 28	21 00	58 11	312 32
15 12	305 11	230 27	21 12	61 29	315 32	15 12	305 11	230 27	21 12	61 29	315 32
15 24	308 37	233 23	21 24	64 42	318 34	15 24	308 37	233 23	21 24	64 42	318 34
15 36	312 09	236 19	21 36	67 52	321 37	15 36	312 09	236 19	21 36	67 52	321 37
15 48	315 46	239 13	21 48	70 57	324 42	15 48	315 46	239 13	21 48	70 57	324 42
16 00	319 27	242 05	22 00	73 59	327 49	16 00	319 27	242 05	22 00	73 59	327 49
16 12	323 13	244 57	22 12	76 58	330 57	16 12	323 13	244 57	22 12	76 58	330 57
16 24	327 04	247 47	22 24	79 53	334 07	16 24	327 04	247 47	22 24	79 53	334 07
16 36	331 00	250 36	22 36	82 45	337 17	16 36	331 00	250 36	22 36	82 45	337 17
16 48	335 00	253 24	22 48	85 35	340 30	16 48	335 00	253 24	22 48	85 35	340 30
17 00	339 03	256 11	23 00	88 23	343 43	17 00	339 03	256 11	23 00	88 23	343 43
17 12	343 10	258 58	23 12	91 08	346 57	17 12	343 10	258 58	23 12	91 08	346 57
17 24	347 13	261 44	23 24	93 51	350 12	17 24	347 13	261 44	23 24	93 51	350 12
17 36	351 36	264 30	23 36	96 33	353 28	17 36	351 36	264 30	23 36	96 33	353 28
17 48	355 46	267 15	23 48	99 14	356 44	17 48	355 46	267 15	23 48	99 14	356 44
18 00	360 00	270 00	24 00	101 52	360 00	18 00	360 00	270 00	24 00	101 52	360 00
18 12	. 4 14	272 45				18 12	. 4 14	272 45			

70 Tables of Bhavas—லக்கினஸ்புட, பாவஸ்புட வாக்கியம்.

TABLE 9. (Contd.)

Latitude Degree 29 North

வாக்கியம் 9. (துடர்ச்சி.)

அகூதாம்சம் பாகை 29 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக்கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	101	21	0	00	6	12	181	38	92	45
0	12	104	58	3	16	6	24	185	16	95	30
0	24	107	34	6	32	6	36	187	55	98	16
0	36	110	10	9	48	6	48	190	33	101	02
0	48	112	44	13	03	7	00	193	11	103	49
1	00	115	17	16	17	7	12	195	49	106	36
1	12	117	51	19	30	7	24	198	26	109	24
1	24	120	20	22	43	7	36	201	04	112	13
1	36	122	57	25	53	7	48	203	40	115	03
1	48	125	30	29	03	8	00	206	17	117	55
2	00	128	02	32	11	8	12	208	52	120	47
2	12	130	36	35	18	8	24	211	26	123	41
2	24	133	09	38	23	8	36	214	02	126	37
2	36	135	42	41	26	8	48	216	37	129	33
2	48	138	16	44	28	9	00	219	11	132	32
3	00	140	49	47	28	9	12	222	11	135	32
3	12	143	23	50	27	9	24	224	18	138	34
3	24	145	58	53	23	9	36	226	51	141	37
3	36	148	34	56	19	9	48	229	24	144	42
3	48	151	08	59	13	10	00	231	58	147	49
4	00	153	43	62	05	10	12	234	30	150	57
4	12	156	20	64	57	10	24	237	03	154	07
4	24	158	56	67	47	10	36	239	40	157	17
4	36	161	34	70	36	10	48	242	09	160	30
4	48	164	11	73	24	11	00	244	43	163	43
5	00	166	49	76	11	11	12	247	16	166	57
5	12	169	27	78	58	11	24	249	50	170	12
5	24	172	05	81	44	11	36	252	26	173	28
5	36	174	44	84	30	11	48	255	02	176	44
5	48	178	22	87	15	12	00	258	39	180	00
6	00	180	00	90	00	12	12	260	16	183	16

TABLE 9. (Contd.)

Latitude Degree 29 North.

வாக்கியம் 9. (துடர்ச்சி.)

அகஷாட்சம் பாவை 29 வடக்கு

Siderial Time		Udaya Lagna		Dasama Lagna		Siderial Time		Udaya Lagna		Dasama Lagna	
நட்சத்திர ஹோரை		உதைய லக்கினம்		தசம லக் கினம்		நட்சத்திர ஹோரை		உதைய லக்கினம்		தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி	நிமி.	பா.	கலை.	பா.	கலை.	மணி	நிமி.	பா.	கலை.	பா.	கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	262	56	186	32	18	24	8	34	275	30
12	36	265	39	159	48	18	36	12	49	278	16
12	48	268	20	193	03	18	48	17	03	281	02
13	00	271	05	196	17	19	00	21	12	283	49
13	12	273	53	199	30	19	12	25	18	286	36
13	24	276	42	202	43	19	24	29	20	289	24
13	36	279	35	205	53	19	36	33	13	292	13
13	48	282	26	209	03	19	48	37	12	295	03
14	00	285	28	212	11	20	00	40	59	297	55
14	12	288	30	215	18	20	12	44	42	300	47
14	24	291	35	218	23	20	24	48	20	303	41
14	36	294	45	221	26	20	36	52	53	306	37
14	48	297	59	224	28	20	48	55	20	309	33
15	00	301	17	227	28	21	00	58	43	312	32
15	12	304	40	230	27	21	12	62	01	315	32
15	24	307	08	233	23	21	24	65	15	318	34
15	36	311	40	236	19	21	36	68	25	321	37
15	48	315	18	239	13	21	48	71	30	324	42
16	00	319	01	242	05	22	00	74	32	327	49
16	12	322	48	244	57	22	12	77	34	330	57
16	24	326	42	247	47	22	24	80	25	334	07
16	36	330	40	250	36	22	36	83	18	337	17
16	48	334	42	253	24	22	48	86	07	340	30
17	00	338	48	256	11	23	00	88	55	343	43
17	12	342	57	258	58	23	12	91	40	346	57
17	24	347	11	261	44	23	24	94	22	350	12
17	36	351	26	264	30	23	36	97	04	353	28
17	48	355	43	267	15	23	48	99	44	356	44
18	00	360	00	270	00	24	00	101	21	360	00
18	12	4	17	272	45						

TABLE 9. (Contd.)

Latitude Degree 30 North

வாக்கியம் 9. (துடர்ச்சி.)

அகாசாம்சம் பாகை 30 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	102	52	0	00	6	12	182	37	92	45
0	12	104	58	3	16	6	24	185	14	95	30
0	24	108	03	6	32	6	36	187	51	98	16
0	36	110	38	9	48	6	48	190	28	101	02
0	48	113	37	13	03	7	00	193	05	103	49
1	00	115	44	16	17	7	12	195	41	106	36
1	12	118	17	19	30	7	24	198	17	109	24
1	24	120	50	22	43	7	36	200	53	112	13
1	36	123	22	25	53	7	48	203	28	115	03
1	48	125	53	29	03	8	00	206	13	117	55
2	00	128	25	32	11	8	12	208	29	120	47
2	12	130	57	35	18	8	24	211	13	123	41
2	24	133	29	38	23	8	36	213	46	126	37
2	36	136	02	41	26	8	48	216	20	129	33
2	48	138	34	44	28	9	00	218	52	132	32
3	00	141	08	47	28	9	12	221	26	135	32
3	12	143	40	50	27	9	24	223	58	138	34
3	24	146	14	53	23	9	36	226	31	141	37
3	36	148	47	56	19	9	48	229	03	144	42
3	48	151	31	59	13	10	00	231	35	147	49
4	00	153	47	62	05	10	12	234	07	150	57
4	12	156	32	64	57	10	24	236	38	154	07
4	24	159	07	67	47	10	36	239	10	157	17
4	36	161	43	70	36	10	48	241	43	160	30
4	48	164	19	73	24	11	00	244	16	163	43
5	00	166	55	76	11	11	12	246	23	166	57
5	12	169	32	78	58	11	24	249	22	170	12
5	24	172	09	81	44	11	36	251	57	173	28
5	36	174	46	84	30	11	48	255	02	176	44
5	48	177	23	87	15	12	00	257	08	180	00
6	00	180	00	90	00	12	12	259	46	183	16

Tables of Bhavanas—லக்கினஸ்புட, பாவஸ்புட வாக்கியம். 73

TABLE 9. (Contd.)

Latitude Degree 30 North

வாக்கியம் 9. (துடர்ச்சி.)

அக்டோபர்மீசம் பாகை 30 வடக்கு

Siderial Time		Udaya Lagna		Dasama Lagna		Siderial Time		Udaya Lagna		Dasama Lagna	
நட்சத்திர ஹோரை		உதைய லக்கினம்		தசம லக் கினம்		நட்சத்திர ஹோரை		உதைய லக்கினம்		தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி. நிமி.		பா.	கலை.	பா.	கலை.	மணி. நிமி.		பா.	கலை.	பா.	கலை.
(1)	(2)	(3)		(1)	(2)	(3)					
12 24	262 25	186 52	18 24	8 41	275 30						
12 36	265 06	189 48	18 36	12 59	278 16						
12 48	267 49	193 03	18 48	17 16	281 02						
13 00	270 33	196 17	19 00	21 28	283 49						
13 12	273 19	199 30	19 12	25 37	286 36						
13 24	276 09	202 43	19 24	29 42	289 24						
13 36	279 01	205 53	19 36	33 42	292 13						
13 48	281 56	209 03	19 48	37 37	295 03						
14 00	284 54	212 11	20 00	41 37	297 55						
14 12	287 56	215 18	20 12	45 11	300 47						
14 24	291 01	218 23	20 24	48 53	303 41						
14 36	294 12	221 26	20 36	52 24	306 37						
14 48	297 26	224 28	20 48	55 53	309 33						
15 00	300 45	227 28	21 00	59 15	312 32						
15 12	304 07	230 27	21 12	62 34	315 32						
15 24	307 36	233 23	21 24	65 48	318 34						
15 36	311 07	236 19	21 36	68 59	321 37						
15 48	314 49	239 13	21 48	72 04	324 42						
16 00	318 23	242 05	22 00	75 06	327 49						
16 12	322 23	244 57	22 12	78 04	330 57						
16 24	326 18	247 47	22 24	80 59	334 07						
16 36	330 18	250 36	22 36	83 51	337 17						
16 48	334 23	253 24	22 48	86 41	340 30						
17 00	338 32	256 11	23 00	89 27	343 43						
17 12	342 44	258 53	23 12	92 11	346 57						
17 24	347 01	261 44	23 24	94 54	350 12						
17 36	351 19	264 30	23 36	97 35	353 28						
17 48	355 39	267 15	23 48	100 14	356 44						
18 00	360 00	270 00	24 00	102 52	360 00						
18 12	4 21	272 45									

74 Tables of Bhavas—லக்கினஸ்புட, பாவஸ்புட வாக்கியம்.

TABLE 9. (Contd.)

Latitude Degree 31 North

வாக்கியம் 9. (துடர்ச்சி.)

அகாசம்சம் பாகை 31 வடக்கு

Sidereal Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Sidereal Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
0 00	103 22	0 00		6 12		6 12	182 33	92 45			
0 12	105 58	3 16		6 24		6 24	185 12	95 30			
0 24	108 32	6 32		6 36		6 36	187 48	98 16			
0 36	111 39	9 48		6 48		6 48	190 23	101 02			
0 48	113 39	13 03		7 00		7 00	192 58	103 49			
1 00	116 11	16 17		7 12		7 12	195 33	106 36			
1 12	118 43	19 30		7 24		7 24	198 07	109 24			
1 24	121 15	22 43		7 36		7 36	200 43	112 13			
1 36	123 46	25 53		7 48		7 48	203 17	115 03			
1 48	126 17	29 03		8 00		8 00	205 51	117 55			
2 00	128 48	32 11		8 12		8 12	208 24	120 47			
2 12	131 19	35 18		8 24		8 24	210 58	123 41			
2 24	133 50	38 23		8 36		8 36	213 31	126 37			
2 36	136 21	41 26		8 48		8 48	216 03	129 33			
2 48	138 53	44 28		9 00		9 00	218 36	132 32			
3 00	141 24	47 28		9 12		9 12	221 07	135 32			
3 12	143 57	50 27		9 24		9 24	223 39	138 34			
3 24	146 29	53 23		9 36		9 36	226 10	141 37			
3 36	149 02	56 19		9 48		9 48	228 41	144 42			
3 48	151 36	59 13		10 00		10 00	231 12	147 49			
4 00	154 09	62 05		10 12		10 12	233 43	150 57			
4 12	156 43	64 57		10 24		10 24	236 14	154 07			
4 24	159 17	67 47		10 36		10 36	238 45	157 17			
4 36	161 53	70 36		10 48		10 48	241 17	160 30			
4 48	164 27	73 24		11 00		11 00	243 49	163 43			
5 00	167 02	76 11		11 12		11 12	246 21	166 57			
5 12	169 37	78 58		11 24		11 24	248 54	170 12			
5 24	172 12	81 44		11 36		11 36	251 28	173 28			
5 36	174 48	84 30		11 48		11 48	254 02	176 44			
5 48	177 27	87 15		12 00		12 00	256 38	180 00			
6 00	180 00	90 00		12 12		12 12	259 15	183 16			

Tables of Bhavas—லக்கினஸ்புட, பாவஸ்புட வாக்கியம். 75

TABLE 9. (Contd.)

Latitude Degree 31 North

வாக்கியம் 9. (துடர்ச்சி.)

அக்டாபர்மாதம் பாவை 31 வடக்கு

Sidereal Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Sidereal Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி.	நிமி.	பா.	கலை.	பா.	கலை.	மணி.	நிமி.	பா.	கலை.	பா.	கலை.
(1)	(2)	(3)	(4)	(5)	(6)	(1)	(2)	(3)	(4)	(5)	(6)
12	24	261	54	186	32	18	24	8	48	275	30
12	36	264	34	189	48	18	36	13	10	278	16
12	48	267	15	193	03	18	48	17	29	281	02
13	00	269	59	196	17	19	00	21	25	283	49
13	12	272	46	199	30	19	12	25	57	286	36
13	24	275	35	202	43	19	24	30	04	289	24
13	36	278	27	205	53	19	36	34	06	292	13
13	48	281	22	209	03	19	48	38	04	295	03
14	00	284	19	212	11	20	00	41	30	297	55
14	12	287	21	215	18	20	12	45	40	300	47
14	24	290	27	218	23	20	24	49	21	303	41
14	36	293	37	221	26	20	36	52	56	306	37
14	48	296	52	224	28	20	48	56	25	309	33
15	00	300	11	227	28	21	00	59	49	312	32
15	12	303	35	230	27	21	12	63	08	315	32
15	24	307	04	233	23	21	24	66	23	318	34
15	36	310	39	236	19	21	36	69	38	321	37
15	48	314	20	239	13	21	48	72	39	324	42
16	00	318	30	242	05	22	00	75	41	327	49
16	12	321	56	244	57	22	12	78	38	330	57
16	24	325	54	247	47	22	24	81	33	334	07
16	36	329	56	250	36	22	36	84	25	337	17
16	48	334	03	253	24	22	48	87	14	340	30
17	00	338	35	256	11	23	00	90	01	343	43
17	12	342	31	258	58	23	12	92	45	346	57
17	24	346	50	261	44	23	24	95	26	350	12
17	36	351	12	264	30	23	36	98	06	353	28
17	48	355	35	267	15	23	48	100	45	356	44
18	00	360	00	270	00	24	00	103	22	360	00
18	12	4	25	272	45						

TABLE 9. (Contd.)

Latitude Degree 32 North.

வாக்கியம் 9. (துடர்ச்சி.)

அகஷரம்சம் பாகை 32 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி	நிமி.	பா.	கலை.	பா.	கலை.	மணி	நிமி.	பா.	கலை.	பா.	கலை.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
0 00	103 49	0 00	6 12	182 35	92 45	0 12	106 24	3 16	6 24	185 09	95 30
0 24	108 57	6 32	6 36	187 44	98 16	0 36	111 31	9 48	6 48	190 19	101 02
0 48	113 24	13 03	7 00	190 58	103 49	1 00	116 35	16 17	7 12	195 27	106 36
1 12	119 05	19 30	7 24	198 01	109 24	1 24	121 36	22 43	7 36	200 34	112 13
1 36	124 06	25 53	7 48	203 08	115 03	1 48	126 36	29 03	8 00	205 41	117 55
2 00	129 11	32 11	8 12	208 14	120 47	2 12	131 37	35 18	8 24	210 46	123 41
2 24	133 07	38 23	8 36	213 18	126 37	2 36	136 38	41 26	8 48	215 49	129 33
2 48	139 09	44 28	9 00	218 20	132 32	3 00	141 40	47 28	9 12	220 51	135 32
3 12	144 11	50 27	9 24	223 22	138 34	3 24	146 24	53 23	9 36	226 53	141 37
3 36	149 14	56 19	9 48	228 23	144 42	3 48	151 46	59 13	10 00	230 49	147 49
4 00	154 19	62 05	10 12	233 24	150 57	4 12	156 52	64 57	10 24	235 54	154 07
4 24	159 26	67 47	10 36	238 24	157 17	4 36	161 59	70 36	10 48	240 55	160 30
4 48	164 33	73 24	11 00	243 25	163 43	5 00	169 02	76 11	11 12	246 36	166 57
5 12	169 41	78 58	11 24	248 29	170 12	5 24	172 16	81 44	11 36	251 03	173 28
5 36	174 51	84 30	11 48	253 36	176 44	5 48	177 25	87 15	12 00	256 11	180 00
6 00	180 00	90 00	12 12	259 26	183 16						

TABLE 9. (Contd.)

Latitude Degree 32 North

வாக்கியம் 9. (துடர்ச்சி.)

அக்டாபர்மாதம் பாதகை 32 வடக்கு

Sidereal Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Sidereal Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி.	நிமி.	பா.	கலை.	பா.	கலை.	மணி.	நிமி.	பா.	கலை.	பா.	கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	261	25	186	32	18	24	8	55	275	30
12	36	264	04	189	48	18	36	13	21	278	16
12	48	266	46	193	03	18	48	17	43	281	02
13	00	269	29	196	17	19	00	22	02	283	49
13	12	272	14	199	30	19	12	27	17	286	36
13	24	275	04	202	43	19	24	30	27	289	24
13	36	277	54	205	53	19	36	34	31	292	13
13	48	280	49	209	03	19	48	38	29	295	03
14	00	283	53	212	11	20	00	42	22	297	55
14	12	286	48	215	18	20	12	46	10	300	47
14	24	289	54	218	23	20	24	49	52	303	41
14	36	293	04	221	26	20	36	53	27	306	37
14	48	296	19	224	28	20	48	56	58	309	33
15	00	299	38	227	28	21	00	60	22	312	32
15	12	303	02	230	27	21	12	63	41	315	32
15	24	306	33	233	23	21	24	66	56	318	34
15	36	310	08	236	19	21	36	70	06	321	37
15	48	313	50	239	13	21	48	73	12	324	42
16	00	317	38	242	05	22	00	76	07	327	49
16	12	321	31	244	57	22	12	79	11	330	57
16	24	325	29	247	47	22	24	82	05	334	07
16	36	329	33	250	36	22	36	84	56	337	17
16	48	332	43	253	24	22	48	87	46	340	30
17	00	337	58	256	11	23	00	90	31	343	43
17	12	342	17	258	58	23	12	93	14	346	57
17	24	346	39	261	44	23	24	95	56	350	12
17	36	351	05	264	30	23	36	98	35	353	28
17	48	355	32	267	15	23	48	100	34	356	44
18	00	360	00	270	00	24	00	103	49	360	00
18	12	4	28	272	45						

TABLE 9. (Contd.)

Latitude Degree 33 North

வாக்கியம் 9. (துடர்ச்சி.)

அகாசம்சம் பாகை 33 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி.	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)	(2)	(3)		(1)	(2)	(3)					
0	00	104	24	0	00	6	12	182	30	92	45
0	12	106	58	3	16	6	24	185	39	95	30
0	24	109	31	6	32	6	36	187	39	98	16
0	36	112	04	9	48	6	48	190	23	101	02
0	48	114	35	13	03	7	00	192	46	103	49
1	00	117	06	16	17	7	12	195	19	106	36
1	12	119	35	19	30	7	24	197	51	109	24
1	24	122	05	22	43	7	36	200	23	112	13
1	36	124	32	25	53	7	48	202	55	115	03
1	48	127	04	29	03	8	00	205	26	117	55
2	00	129	33	32	11	8	12	207	58	120	47
2	12	132	03	35	18	8	24	210	28	123	41
2	24	134	32	38	23	8	36	212	59	126	37
2	36	137	02	41	26	8	48	215	29	129	33
2	48	139	31	44	28	9	00	217	59	132	32
3	00	142	01	47	28	9	12	220	29	135	32
3	12	144	31	50	27	9	24	222	58	138	34
3	24	147	01	53	23	9	36	225	28	141	37
3	36	149	32	56	19	9	48	227	57	144	42
3	48	152	02	59	13	10	00	230	27	147	49
4	00	154	34	62	05	10	12	232	56	150	57
4	12	157	05	64	57	10	24	235	28	154	07
4	24	159	37	67	47	10	36	237	55	157	17
4	36	162	09	70	36	10	48	240	25	160	30
4	48	164	41	73	24	11	00	242	54	163	43
5	00	167	14	76	11	11	12	245	25	166	57
5	12	169	47	78	58	11	24	247	56	170	12
5	24	172	21	81	44	11	36	250	29	173	28
5	36	175	21	84	30	11	48	253	02	176	44
5	48	177	30	87	15	12	00	255	36	180	00
6	00	180	00	90	00	12	12	258	13	183	16

TABLE 9. (Contd.)

Latitude Degree 33 North.

வாக்கியம் 9. (துடர்ச்சி.)

அக்டாபர்மீசம் பாகை 33 வடக்கு

Sidereal Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Sidereal Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
12	24	260	49	186	32	18	24	9	03	275	30
12	36	263	28	189	48	18	36	13	32	278	16
12	48	266	09	193	03	18	48	17	59	281	02
13	00	268	51	196	17	19	00	22	21	283	49
13	12	271	37	199	30	19	12	26	39	286	36
13	24	274	25	202	43	19	24	30	51	289	24
13	36	277	16	205	53	19	36	34	59	292	13
13	48	280	11	209	03	19	48	39	00	295	03
14	00	283	08	212	11	20	00	42	55	297	55
14	12	286	09	215	18	20	12	46	44	300	47
14	24	289	15	218	23	20	24	50	14	303	41
14	36	292	25	221	26	20	36	54	03	306	37
14	48	295	40	224	28	20	48	57	34	309	33
15	00	299	00	227	28	21	00	61	00	312	32
15	12	302	26	230	27	21	12	64	20	315	32
15	24	305	57	233	23	21	24	67	35	318	34
15	36	309	46	236	19	21	36	70	45	321	37
15	48	313	16	239	13	21	48	73	51	324	42
16	00	317	05	242	05	22	00	76	52	327	49
16	12	321	00	244	57	22	12	79	49	330	57
16	24	325	01	247	47	22	24	82	44	334	07
16	36	329	09	250	36	22	36	85	35	337	17
16	48	333	21	253	24	22	48	88	23	340	30
17	00	337	39	256	11	23	00	91	09	343	43
17	12	342	01	258	58	23	12	93	51	346	57
17	24	346	28	261	44	23	24	96	32	350	12
17	36	350	57	264	30	23	36	99	11	353	28
17	48	355	28	267	15	23	48	101	47	356	44
18	00	360	00	270	00	24	00	104	24	360	00
18	12*	4	32	272	45						

80 Tables of Bhavas—லக்கினஸ்புட, பாவஸ்புட வாக்கியம்.

TABLE 9. (Contd.)

Latitude Degree 34 North

வாக்கியம் 9. (துடர்ச்சி.)

அகூதாமசம் பாகை 34 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி	நிமி.	பா.	கலை.	பா.	கலை.	மணி	நிமி.	பா.	கலை.	பா.	கலை.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
0 00	104 56	0 00	6 12	182 32	92 45	0 12	107 29	3 16	6 24	185 04	95 30
0 24	110 01	6 32	6 36	187 36	98 16	0 36	112 33	9 48	6 48	190 12	101 02
0 48	115 03	13 03	7 00	192 39	103 49	1 00	117 34	16 17	7 12	195 10	106 36
1 12	120 02	19 30	7 24	197 41	109 24	1 24	122 31	22 43	7 36	200 13	112 13
1 36	125 00	25 53	7 48	202 44	115 03	1 48	127 28	29 03	8 00	205 13	117 55
2 00	129 57	32 11	8 12	207 44	120 47	2 12	132 25	35 18	8 24	210 13	123 41
2 24	134 54	38 23	8 36	212 43	126 37	2 36	137 22	41 26	8 48	215 12	129 33
2 48	139 50	44 28	9 00	217 41	132 32	3 00	142 19	47 28	9 12	220 10	135 32
3 12	144 48	50 27	9 24	222 38	138 34	3 24	147 17	53 23	9 36	225 06	141 37
3 36	149 47	56 19	9 48	227 35	144 42	3 48	152 16	59 13	10 00	230 03	147 49
4 00	154 47	62 05	10 12	232 32	150 57	4 12	157 16	64 57	10 24	235 00	154 07
4 24	159 47	67 47	10 36	237 29	157 17	4 36	162 19	70 36	10 48	239 58	160 30
4 48	164 50	73 24	11 00	242 26	163 43	5 00	167 21	76 11	11 12	244 57	166 57
5 12	169 48	78 58	11 24	247 27	170 12	5 24	172 24	81 44	11 36	249 59	173 28
5 36	174 56	84 30	11 48	252 31	176 44	5 48	177 28	87 15	12 00	255 04	180 00
6 00	180 00	90 00	12 12	257 40	183 16						

Tables of Bhavas—லக்கினஸ்புட, பாவஸ்புட வாக்கியம். 81

TABLE 9. (Contd.)

Latitude Degree 34 North.

வாக்கியம் 9. (துடர்ச்சி.)

அகஷாம்சம் பாகை 34 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.	Hrs. மணி	Ms. நிமி.	Ds. பா.	Ms. கலை.	Ds. பா.	Ms. கலை.
(1)	(2)	(3)		(1)	(2)	(3)		(3)		(3)	
12	24	260	16	186	32	18	24	9	11	275	30
12	36	262	54	189	48	18	36	13	44	278	16
12	48	265	35	193	03	18	48	18	15	281	02
13	00	268	16	196	17	19	00	22	40	283	49
13	12	271	01	199	30	19	12	27	02	286	36
13	24	273	49	202	43	19	24	31	16	289	24
13	36	276	39	205	53	19	36	35	26	292	13
13	48	279	33	209	03	19	48	39	20	295	03
14	00	282	31	212	11	20	00	43	26	297	55
14	12	285	31	215	18	20	12	47	17	300	47
14	24	288	38	218	23	20	24	51	01	303	41
14	36	291	48	221	26	20	36	54	39	306	37
14	48	295	03	224	28	20	48	58	11	309	33
15	00	298	23	227	28	21	00	61	37	312	32
15	12	301	49	230	27	21	12	64	57	315	32
15	24	305	21	233	23	21	24	68	12	318	34
15	36	308	59	236	19	21	36	71	22	321	37
15	48	312	43	239	13	21	48	74	29	324	42
16	00	316	34	242	05	22	00	77	29	327	49
16	12	320	30	244	57	22	12	80	27	330	57
16	24	324	34	247	47	22	24	83	21	334	07
16	36	328	44	250	36	22	36	86	11	337	17
16	48	332	58	253	24	22	48	88	59	340	30
17	00	337	20	256	11	23	00	91	44	343	43
17	12	341	45	258	58	23	12	94	25	346	57
17	24	346	16	261	44	23	24	97	06	350	12
17	36	350	49	264	30	23	36	99	44	353	28
17	48	355	24	267	15	23	48	102	20	356	44
18	00	360	00	270	00	24	00	104	56	360	00
18	12	4	36	272	45						

82 Tables of Bhavas—லக்கினஸ்புட, பாவஸ்புட வாக்கியம்.

TABLE 9. (Contd.)

Latitude Degree 35 North

வாக்கியம் 9. (துடர்ச்சி.)

அகாசம்சம் பாகை 35 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி.	நிமி.	பா.	கலை.	பா.	கலை.	மணி.	நிமி.	பா.	கலை.	பா.	கலை.
(1)		(2)		(3)		(1)		(2)		(3)	
0	00	105	29	0	00	6	12	182	31	92	45
0	12	108	01	3	16	6	24	185	02	95	30
0	24	110	32	6	32	6	36	187	32	98	16
0	36	113	03	9	48	6	48	190	03	101	02
0	48	115	32	13	03	7	00	192	33	103	49
1	00	118	02	16	17	7	12	195	03	106	36
1	12	120	30	19	30	7	24	197	33	109	24
1	24	122	58	22	43	7	36	200	02	112	13
1	36	125	26	25	53	7	48	202	32	115	03
1	48	127	53	29	03	8	00	205	02	117	55
2	00	130	21	32	11	8	12	208	00	120	47
2	12	132	48	35	18	8	24	209	59	123	41
2	24	135	15	38	23	8	36	212	27	126	37
2	36	137	42	41	26	8	48	214	55	129	33
2	48	140	10	44	28	9	00	217	23	132	32
3	00	142	37	47	28	9	12	219	50	135	32
3	12	145	05	50	27	9	24	222	18	138	34
3	24	147	33	53	23	9	36	224	45	141	37
3	36	150	01	56	19	9	48	227	12	144	42
3	48	152	00	59	13	10	00	229	39	147	49
4	00	154	58	62	05	10	12	232	07	150	57
4	12	157	28	64	57	10	24	234	34	154	07
4	24	159	58	67	47	10	36	237	02	157	17
4	36	162	27	70	36	10	48	239	30	160	30
4	48	164	57	73	24	11	00	241	58	163	43
5	00	167	27	76	11	11	12	244	28	166	57
5	12	169	57	78	58	11	24	246	57	170	12
5	24	172	28	81	44	11	36	249	28	173	28
5	36	174	58	84	30	11	48	251	59	176	44
5	48	177	29	87	15	12	00	254	31	180	00
6	00	180	00	90	00	12	12	257	06	183	16

TABLE 9. (Contd.)

Latitude Degree **35** North

வாக்கியம் 9. (துடர்ச்சி.)

அக்டோபர் பாகை 35 வடக்கு

[illegible]

TABLE 9. (Contd.)

Latitude Degree 36 North

வாக்கியம் 9. (கூடர்ச்சி.)

அகாசாம்சம் பாகை 36 வடக்கு

Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்		Siderial Time நட்சத்திர ஹோரை		Udaya Lagna உதைய லக்கினம்		Dasama Lagna தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி	நிமி.	பா.	கலை.	பா.	கலை.	மணி	நிமி.	பா.	கலை.	பா.	கலை.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
0	00	106	01	0	00	6	12	182	29	92	45
0	12	108	33	3	16	6	24	184	59	95	30
0	24	111	04	6	32	6	36	187	36	98	16
0	36	113	34	9	48	6	48	189	58	101	02
0	48	116	02	13	03	7	00	192	26	103	49
1	00	118	31	16	17	7	12	194	55	106	36
1	12	120	58	19	30	7	24	197	24	109	24
1	24	123	25	22	43	7	36	199	52	112	13
1	36	125	52	25	53	7	48	202	21	115	03
1	48	128	19	29	03	8	00	204	49	117	55
2	00	130	44	32	11	8	12	207	13	120	47
2	12	133	10	35	18	8	24	209	43	123	41
2	24	135	37	38	23	8	36	212	11	126	37
2	36	137	28	41	26	8	48	214	38	129	33
2	48	140	29	44	23	9	00	217	04	132	32
3	00	142	56	47	28	9	12	219	31	135	32
3	12	145	22	50	27	9	24	222	32	138	34
3	24	147	49	53	23	9	36	224	23	141	37
3	36	150	17	56	19	9	48	226	50	144	42
3	48	152	47	59	13	10	00	229	16	147	49
4	00	155	11	62	05	10	12	231	41	150	57
4	12	157	39	64	57	10	24	234	08	154	07
4	24	160	08	67	47	10	36	236	35	157	17
4	36	162	36	70	36	10	48	239	02	160	30
4	48	165	05	73	24	11	00	241	29	163	43
5	00	167	34	76	11	11	12	243	58	166	57
5	12	170	02	78	53	11	24	246	26	170	12
5	24	172	24	81	44	11	36	248	56	173	28
5	36	175	01	84	30	11	48	251	27	176	44
5	48	177	31	87	15	12	00	253	59	180	00
6	00	180	00	90	00	12	12	256	32	183	16

TABLE 9. (Contd.)

Latitude Degree 36 North

வாக்கியம் 9. (துடர்ச்சி.)

அசுஷாம்சம் பாகை 36 வடக்கு

Sideral Time		Udaya Lagna		Dasama Lagna		Sideral Time		Udaya Lagna		Dasama Lagna	
நட்சத்திர ஹோரை		உதைய லக்கினம்		தசம லக் கினம்		நட்சத்திர ஹோரை		உதைய லக்கினம்		தசம லக் கினம்	
Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.	Hrs.	Ms.	Ds.	Ms.	Ds.	Ms.
மணி. நிமி.		பா. கலை.		பா. கலை.		மணி. நிமி.		பா. கலை.		பா. கலை.	
(1)	(2)	(3)	(4)	(5)	(6)	(1)	(2)	(3)	(4)	(5)	(6)
12 24	259 07	186 32	18 24	9 29	275 30	12 36	261 43	189 48	18 36	14 11	278 16
12 48	264 22	193 03	18 48	18 49	281 02	13 12	269 47	199 30	19 12	27 50	286 36
13 00	267 03	196 17	19 00	23 22	283 49	13 24	272 33	202 43	19 24	32 11	289 24
13 12	269 47	199 30	19 12	27 50	286 36	13 36	275 23	205 53	19 36	36 26	292 13
13 24	272 33	202 43	19 24	32 11	289 24	13 48	278 15	209 03	19 48	40 34	295 03
13 36	275 23	205 53	19 36	36 26	292 13	14 00	281 12	212 11	20 00	44 35	297 55
13 48	278 15	209 03	19 48	40 34	295 03	14 12	284 13	215 18	20 12	48 29	300 47
14 00	281 12	212 11	20 00	44 35	297 55	14 24	287 18	218 23	20 24	52 16	303 41
14 12	284 13	215 18	20 12	48 29	300 47	14 36	289 28	221 26	20 36	55 59	306 37
14 24	287 18	218 23	20 24	52 16	303 41	14 48	293 44	224 28	20 48	59 28	309 33
14 36	290 28	221 26	20 36	55 59	306 37	15 00	297 05	227 28	21 00	62 55	312 32
14 48	293 44	224 28	20 48	59 28	309 33	15 12	300 32	230 27	21 12	66 16	315 32
15 00	297 05	227 28	21 00	62 55	312 32	15 24	304 01	233 23	21 24	69 32	318 34
15 12	300 32	230 27	21 12	66 16	315 32	15 36	307 44	236 19	21 36	72 42	321 37
15 24	304 01	233 23	21 24	69 32	318 34	15 48	311 31	239 13	21 48	75 47	324 42
15 36	307 44	236 19	21 36	72 42	321 37	16 00	315 25	242 05	22 00	78 48	327 49
15 48	311 31	239 13	21 48	75 47	324 42	16 12	319 26	244 57	22 12	81 45	330 57
16 00	315 25	242 05	22 00	78 48	327 49	16 24	323 34	247 47	22 24	84 37	334 07
16 12	319 26	244 57	22 12	81 45	330 57	16 36	327 49	250 36	22 36	87 27	337 17
16 24	323 34	247 47	22 24	84 37	334 07	16 48	332 10	253 24	22 48	90 13	340 30
16 36	327 49	250 36	22 36	87 27	337 17	17 00	336 38	256 11	23 00	92 57	343 43
16 48	332 10	253 24	22 48	90 13	340 30	17 12	341 11	258 58	23 12	95 38	346 57
17 00	336 38	256 11	23 00	92 57	343 43	17 24	345 49	261 44	23 24	98 17	350 12
17 12	341 11	258 58	23 12	95 38	346 57	17 36	350 31	264 30	23 36	100 53	353 28
17 24	345 49	261 44	23 24	98 17	350 12	17 48	355 14	267 15	23 48	103 28	356 44
17 36	350 31	264 30	23 36	100 53	353 28	18 00	360 00	270 00	24 00	106 01	360 00
17 48	355 14	267 15	23 48	103 28	356 44	18 12	4 46	272 45			

TABLE 10. வாக்கியம் 10. Sidereal Time நட்சத்திர வேளாறு

M. Date மா. தேதி.	1865 N. ப.	1866 N. ப.	1867 N. ப.	1869 N. ப.	1870 N. ப.
	H. M. S.	H. M. S.	H. M. S.	H. M. S.	H. M. S.
	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.
Jun ஜூன் 1	18 44 36	18 43 53	18 42 41	18 44 42	18 43 44
11	19 24 01	19 23 04	19 22 06	19 24 07	19 23 10
21	20 03 27	20 02 29	20 01 32	20 03 33	20 01 36
31	20 40 53	20 41 55	20 40 57	20 42 59	20 42 01
Jul ஜூன் 10	21 22 18	21 21 20	21 20 23	21 22 24	21 21 27
20	22 01 44	22 00 46	21 59 48	22 01 50	22 00 52
Ma மார் 2	22 41 09	22 40 12	22 39 14	22 41 15	22 40 18
12	23 20 35	23 19 37	23 18 39	23 20 41	23 19 43
22	0 00 00	23 59 03	23 58 05	0 00 06	23 59 09
Apr ஏப் 1	0 39 26	0 38 28	0 37 30	0 39 32	0 38 34
11	1 18 51	1 17 54	1 16 56	1 18 57	1 18 00
21	1 58 17	1 57 19	1 56 21	1 58 23	1 57 24
May மே 1	2 37 42	2 36 45	2 35 47	2 37 48	2 36 51
11	3 17 08	3 16 10	3 15 13	3 17 14	3 16 16
21	3 56 33	3 55 36	3 54 38	3 56 39	3 55 42
31	4 35 59	4 35 01	4 34 04	4 36 05	4 35 08
Ju ஜூன் 10	5 15 25	5 14 27	5 13 29	5 15 31	5 14 33
20	5 54 50	5 53 52	5 52 55	5 54 56	5 53 59
30	6 34 16	6 33 18	6 32 20	6 34 22	6 33 24
July ஜூலை 10	7 13 41	7 12 44	7 11 46	7 13 47	7 12 50
20	7 53 07	7 52 09	7 51 12	7 53 19	7 52 15
30	8 32 32	8 31 35	8 30 37	8 32 38	8 31 41
Au ஆக 9	9 11 58	9 11 00	9 10 03	9 12 04	9 11 07
19	9 51 23	9 50 26	9 49 28	9 51 30	9 50 32
29	10 30 49	10 29 51	10 28 54	10 30 55	10 29 58
Sep செப் 9	11 10 15	11 09 17	11 08 19	11 10 21	11 09 23
19	11 49 40	11 48 42	11 47 45	11 49 46	11 48 49
28	12 29 06	12 28 08	12 27 10	12 29 12	12 28 14
Oct அக் 8	13 08 31	13 07 33	13 06 36	13 08 37	13 07 40
18	13 47 57	13 46 59	13 46 01	13 48 03	13 47 05
28	14 27 22	14 26 24	14 25 27	14 27 28	14 26 31
Nov நவ 7	15 06 48	15 05 50	15 04 52	15 06 54	15 05 56
17	15 46 13	15 45 16	15 44 18	15 46 19	15 45 22
27	16 25 39	16 24 41	16 23 43	16 25 45	16 24 47
Dec டிச 7	17 05 04	17 04 07	17 03 09	17 05 10	17 04 13
17	17 44 30	17 43 32	17 42 35	17 44 36	17 43 39
27	18 23 55	18 22 58	18 22 00	18 24 01	18 23 04

N. B. See the end of this table, வாக்கியம் முடிவைப் பார்க்கவும்.

Tables of Sidereal Time—நட்சத்திர வேறாரை வாக்கியம். 87
TABLE 10. வாக்கியம் 10. Sidereal Time நட்சத்திர வேறாரை

M. Date மா. தேதி.	1871 N. ப.	1872 N. ப.	1873 N. ப.	1874 N. ப.	1875 N. ப.	1876 N. ப.	1877 N. ப.
	H. M. S.	H. M. S.	H. M. S.	H. M. S.	H. M. S.	H. M. S.	H. M. S.
	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.
Jan ஜன 1	18 42 47	18 44 49	18 43 52	18 42 55	18 44 58		
11	19 22 13	19 24 15	19 23 18	19 22 21	19 24 23		
21	20 01 38	20 03 40	20 02 43	20 01 46	20 03 49		
31	20 41 04	20 43 06	20 42 09	20 41 12	20 43 14		
Feb பிப் 10	21 20 29	21 22 31	21 21 34	21 20 37	21 22 40		
20	21 59 55	22 01 57	21 00 22	21 59 25	22 02 06		
Mar மார் 2	22 39 20	22 41 22	22 40 25	22 39 28	22 41 31		
12	23 18 46	23 20 48	23 19 51	23 18 54	23 20 57		
22	23 58 11	0 00 14	23 59 16	23 58 20	0 00 22		
Apr ஏப் 1	0 37 37	0 39 39	0 38 42	0 37 45	0 39 48		
11	1 17 02	1 19 05	1 18 08	1 17 11	1 19 13		
22	1 56 28	1 58 30	1 57 33	1 56 36	1 58 39		
May மே 1	2 35 54	2 37 56	2 36 59	2 35 02	2 38 04		
11	3 15 19	3 17 21	3 16 24	3 15 27	3 17 30		
21	3 54 45	3 56 47	3 55 50	3 54 53	3 56 55		
31	4 34 10	4 36 12	4 35 15	4 34 19	4 36 21		
Ju ஜூ 10	5 13 36	5 15 38	5 14 41	5 13 44	5 15 47		
20	5 53 01	5 55 04	5 54 07	5 53 10	5 55 12		
30	6 32 27	6 34 29	6 33 32	6 32 35	6 34 38		
July ஜூலை 10	7 11 53	7 13 55	7 12 58	7 12 01	7 14 03		
20	7 51 18	8 53 20	7 52 23	7 51 27	7 53 29		
30	8 30 44	8 32 46	8 31 49	8 30 42	8 32 55		
Aug ஆக 9	9 10 09	9 12 11	9 11 14	9 10 18	9 12 20		
19	9 49 35	9 51 37	9 50 40	9 49 43	9 51 46		
29	10 29 00	10 31 03	10 26 09	10 29 09	10 31 11		
Sep செப் 8	11 03 26	11 10 28	11 09 31	11 08 34	11 10 37		
18	11 47 51	11 49 54	11 48 57	11 48 00	11 50 02		
28	12 27 17	12 29 19	12 28 22	12 27 25	12 29 28		
Oct அக் 8	13 06 42	13 08 45	13 07 48	13 06 51	13 08 53		
18	13 46 08	13 48 10	13 47 13	13 46 16	13 48 19		
28	14 25 33	14 27 36	14 26 39	14 25 42	14 27 44		
Nov நவ 7	15 04 59	15 07 01	15 06 04	15 05 08	15 07 10		
17	15 44 25	15 46 27	15 45 30	15 44 37	15 46 36		
27	16 23 50	16 25 52	16 24 55	16 23 59	16 26 01		
Dec டிச 7	17 03 16	17 05 18	17 04 21	17 03 24	17 05 27		
17	17 42 41	17 44 43	17 43 47	17 42 50	17 44 52		
27	18 22 07	18 24 09	18 23 12	18 22 15	18 24 18		

88 Tables of Bhavas—லக்கணஸ்புட, பாவஸ்புட-வாக்கியம்.

TABLE 10. வாக்கியம் 10. Sidereal Time நட்சத்திர வேறாரை

M. Date	1878 N. ப.	1879 N. ப.	1881 N. ப.	1882 N. ப.	1883 N. ப.
மர. தேதி.	H. M. S.	H. M. S.	H. M. S.	H. M. S.	H. M. S.
ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.
Jan ஜன 1	18 44 01	18 43 04	18 45 06	18 44 08	18 43 11
11	19 23 26	19 22 29	19 24 31	19 23 34	19 22 37
21	20 02 52	20 01 55	20 03 57	20 03 00	20 02 02
31	20 42 17	20 41 20	20 43 23	20 42 25	20 41 28
Feb பிப் 10	21 21 43	21 20 46	21 22 48	21 21 51	21 20 53
20	22 01 09	22 00 11	22 02 14	22 01 16	22 00 19
Mar மார் 2	22 40 34	22 39 37	22 41 39	22 40 42	22 39 44
12	23 20 00	23 19 03	23 21 05	23 20 07	23 19 10
22	23 59 25	23 58 28	0 00 30	23 59 33	23 58 35
Apr ஏப் 1	0 38 51	0 37 54	0 39 56	0 38 58	0 38 01
11	1 18 16	1 17 19	1 19 21	1 18 24	1 17 26
21	1 57 42	1 56 45	1 58 47	1 57 49	1 56 52
May மே 1	2 37 07	2 36 10	2 38 12	2 37 15	2 36 17
11	3 16 33	3 15 36	3 17 38	3 16 41	3 15 43
21	3 55 58	3 55 01	3 57 03	3 56 06	3 55 09
31	4 35 24	4 34 27	4 36 29	4 35 32	4 34 34
Ju ஜூ 10	5 14 50	5 13 53	5 15 55	5 14 57	5 14 00
20	5 54 15	5 53 19	5 55 20	5 54 23	5 53 25
30	6 33 41	6 32 44	6 34 46	6 33 48	6 32 51
July ஜூலை 10	7 13 06	7 12 09	7 14 11	7 13 14	7 12 16
20	7 52 32	7 51 35	7 53 37	7 52 39	7 51 42
30	8 31 58	8 31 00	8 33 02	8 32 05	8 31 08
Aug ஆக 9	9 11 23	9 10 26	9 12 28	9 11 31	9 10 33
19	9 50 49	9 49 52	9 51 54	9 50 56	9 49 59
29	10 30 14	10 29 17	10 31 19	10 30 22	10 29 24
Sep செப் 8	11 09 40	11 08 43	11 10 43	11 09 47	11 08 50
18	11 49 05	11 48 08	11 50 10	11 49 13	11 48 15
28	12 28 31	12 27 34	12 29 36	12 28 38	12 27 41
Oct அக் 8	13 07 56	13 06 59	13 09 01	13 08 04	13 07 06
18	13 47 22	13 46 25	13 48 27	13 47 29	13 46 32
28	14 26 47	14 25 50	14 27 52	14 26 55	14 25 57
Nov நவ 7	15 06 13	15 05 16	15 07 18	15 06 20	15 05 23
17	15 45 39	15 44 41	15 46 43	15 45 46	15 44 48
27	16 25 04	16 24 07	16 26 09	16 25 11	16 24 14
Dec டிச 7	17 04 30	17 03 33	17 05 35	17 04 37	17 03 39
17	17 43 55	17 42 58	17 45 00	17 44 03	17 43 05
27	18 23 21	18 22 24	18 24 26	18 23 28	18 22 31

Tables of Sideral Time—நட்சத்திர வேளாறை வாக்கியம், 89

TABLE 10. வாக்கியம் 10. Sideral Time நட்சத்திர வேளாறை

M. Date ம. தேதி.	1885 N. ப.	1886 N. ப.	1887 N. ப.	1889 N. ப.	1890 N. ப.
	H. M. S. ம. நி. ச.	H. M. S. ம. நி. ச.	H. M. S. ம. நி. ச.	H. M. S. ம. நி. ச.	H. M. S. ம. நி. ச.
Jan ஜன 1	18 45 12	18 44 15	18 43 17	18 45 19	18 44 21
11	19 24 38	19 23 40	19 22 43	19 24 44	19 23 47
21	20 04 08	20 03 06	20 02 08	20 04 10	20 03 13
31	20 43 29	20 42 31	20 41 34	20 43 35	20 42 38
Fe பி 10	21 22 55	21 21 57	21 20 59	21 23 01	21 22 04
20	22 02 20	21 01 22	22 00 25	22 03 26	22 01 29
Ma மார் 2	22 41 46	22 40 48	22 39 50	22 41 52	22 40 55
12	23 21 11	23 20 13	23 19 16	23 21 17	23 20 20
22	0 00 37	23 59 39	23 58 41	0 00 43	23 59 46
Ap ஏப் 1	0 40 02	0 39 05	0 38 07	0 40 08	0 39 11
11	1 19 28	1 18 30	1 17 32	1 19 34	1 18 37
21	1 58 53	1 57 56	1 56 58	1 59 00	1 58 02
May மே 1	2 38 19	2 37 21	2 36 24	2 38 25	2 37 28
11	3 17 44	3 16 47	3 15 49	3 17 51	3 16 54
21	3 57 10	3 56 12	3 55 15	3 57 16	3 56 19
31	4 36 35	4 35 38	4 34 40	4 36 42	4 35 45
Ju ஜூ 10	5 16 01	5 15 03	5 14 06	5 16 07	5 15 10
20	5 55 27	5 54 29	5 53 31	5 55 33	5 54 36
30	6 34 52	6 33 54	6 32 57	6 34 58	6 34 01
July ஜூலை 10	7 14 18	7 13 20	7 12 22	7 14 24	7 13 27
20	7 53 43	7 52 46	7 51 48	7 53 50	7 52 53
30	8 33 09	8 32 11	8 31 14	8 33 15	8 32 18
Au ஆக 9	9 12 34	9 11 37	9 10 39	9 12 41	9 11 44
19	9 52 00	9 51 02	9 50 05	9 52 16	9 51 09
29	10 31 25	10 30 28	10 29 30	10 31 32	10 30 35
Sep செப் 8	11 10 51	11 09 53	11 08 56	11 10 57	11 10 00
18	11 50 16	11 49 19	11 48 21	11 50 23	11 49 26
28	12 29 42	12 28 44	12 27 47	12 29 48	12 28 51
Oct அக் 8	13 09 07	13 08 10	13 07 12	13 09 14	13 08 17
18	13 48 33	13 47 35	13 46 38	13 48 39	13 47 43
28	14 27 59	14 27 01	14 26 03	14 28 05	14 27 08
Nov நவ 7	15 07 24	15 06 26	15 05 29	15 07 31	15 06 33
17	15 46 50	15 45 52	15 44 54	15 46 56	15 46 59
27	16 26 15	16 25 18	16 24 20	16 26 22	16 25 25
Dec டிச 7	17 05 41	17 04 43	17 03 46	17 05 47	17 04 51
17	17 45 06	17 44 09	17 43 11	17 45 13	17 44 16
27	18 24 32	18 23 34	18 22 37	18 24 38	18 23 41

TABLE 10. வாக்கியம் 10. Sidereal Time நட்சத்திர நேரமாவர

M. Date ம. தேதி.	1891 N. ப.			1893 N. ப.			1894 N. ப.			1895 N. ப.			1897 N. ப.		
	H. M. S.			H. M. S.			H. M. S.			H. M. S.			H. M. S.		
	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.
Jan ஜன 1	18	43	24	18	45	26	18	44	29	18	43	32	18	45	35
11	19	22	50	19	24	52	19	23	55	19	22	58	19	25	01
21	20	02	15	20	04	18	20	03	21	20	02	24	20	04	26
31	20	41	41	20	43	43	20	42	46	20	41	49	20	43	52
Fe பிப் 10	21	21	06	21	23	09	21	22	12	21	21	15	21	23	17
20	22	00	32	22	02	34	22	01	37	22	00	40	22	02	43
Ma மார் 2	22	39	57	22	42	00	22	41	03	22	40	06	22	42	08
12	23	19	23	23	21	25	23	20	28	23	19	31	23	21	34
22	23	58	52	0	00	51	23	59	54	23	58	57	0	00	59
Ap ஏப் 1	0	38	14	0	40	16	0	39	19	0	38	22	0	40	25
11	1	17	39	1	19	42	1	18	45	1	17	48	1	19	51
21	1	57	05	1	59	07	1	58	10	1	57	14	1	59	16
May மே 1	2	36	31	2	38	33	2	37	36	2	36	39	2	38	42
11	3	15	56	3	17	59	3	17	02	3	16	05	3	18	07
21	3	55	22	3	57	24	3	56	27	3	55	30	3	57	33
31	4	34	47	4	36	50	4	35	53	4	34	56	4	36	58
Ju ஜூ 10	5	14	13	5	16	15	5	15	49	5	14	21	5	16	24
20	5	53	38	5	51	41	5	54	44	5	53	47	5	55	50
30	6	33	04	6	35	06	6	34	10	6	33	13	6	35	15
July ஜூலை 10	7	12	30	7	14	32	7	13	35	7	12	38	7	14	41
20	7	51	55	7	53	58	7	53	01	7	52	04	7	54	06
30	8	31	21	8	33	23	8	32	26	8	31	29	8	33	32
Au ஆக 9	9	10	46	9	12	49	9	11	52	9	10	55	9	12	57
19	9	50	12	9	52	14	9	51	17	9	50	20	9	52	23
29	10	29	37	10	31	40	10	30	43	10	29	46	10	31	49
Sep செப் 8	11	09	03	11	11	05	11	10	08	11	09	12	11	11	14
18	11	48	28	11	50	31	11	49	34	11	48	37	11	50	40
28	12	27	54	12	29	57	12	29	00	12	28	03	12	30	05
Oct அக 8	13	07	20	13	09	22	13	08	25	13	07	28	13	09	31
18	13	46	45	13	48	48	13	47	51	13	46	54	13	48	56
28	14	26	11	14	28	13	14	27	16	14	26	19	14	28	22
Nov நவ 7	15	05	36	15	07	39	15	06	42	15	05	45	15	07	47
17	15	45	02	15	47	04	15	46	07	15	45	10	15	47	13
27	16	24	27	16	26	30	16	25	33	16	24	36	16	26	38
Dec டிச 7	17	03	53	17	05	55	17	04	58	17	03	02	17	05	04
17	17	43	18	17	45	21	17	44	24	17	43	27	17	45	30
27	18	22	44	18	24	47	18	23	50	18	22	53	18	24	55

TABLE 10. வாக்கியம் 10. Siderial Time நட்சத்திர ஹோரை

M. Date	1898 N. ப.	1899 N. ப.	1900 N. ப.	1901 N. ப.	1902 N. ப.
ம. தேதி.	H. M. S.	H. M. S.	H. M. S.	H. M. S.	H. M. S.
ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.
Jan ஜன 1	18 44 38	18 43 41	18 42 44	18 41 46	18 40 49
11	19 24 04	19 23 06	19 22 09	19 21 12	19 20 14
21	20 03 29	20 02 32	20 01 35	20 00 37	19 59 40
31	20 42 55	20 41 58	20 41 00	20 40 03	20 39 05
Feb பிப் 10	21 22 20	21 21 23	21 20 26	21 19 29	21 18 31
20	22 01 46	22 00 49	21 59 51	21 58 54	21 57 56
Mar மார் 2	22 41 11	22 40 14	22 39 17	22 38 20	22 37 22
12	23 20 37	23 19 40	23 18 43	23 17 45	23 16 47
22	0 00 02	23 59 05	23 58 08	23 57 11	23 56 13
Apr ஏப் 1	0 39 28	0 38 31	0 37 33	0 36 36	0 35 38
11	1 18 53	1 17 56	1 16 59	1 16 02	1 15 04
21	1 58 19	1 57 22	1 56 24	1 55 27	1 54 29
May மே 1	2 37 45	2 36 47	2 35 50	2 34 53	2 33 55
11	3 17 10	3 16 13	3 15 16	3 14 18	3 13 21
21	3 56 36	3 55 38	3 54 41	3 53 44	3 52 46
31	4 36 01	4 35 04	4 34 07	4 33 09	4 32 12
Ju ஜூ 10	5 15 27	5 14 30	5 13 33	5 12 35	5 11 37
20	5 54 52	5 53 55	5 52 58	5 52 01	5 51 03
30	6 34 18	6 33 21	6 32 23	6 31 26	6 30 28
July ஜூலை 1	7 13 44	7 12 46	7 11 49	7 10 52	7 09 54
20	7 53 09	7 52 12	7 51 15	7 50 17	7 49 19
30	8 32 35	8 31 37	8 30 40	8 29 43	8 28 35
Aug ஆக 9	9 12 00	9 11 03	9 10 06	9 09 08	9 08 11
19	9 51 26	9 50 29	9 49 31	9 48 34	9 47 36
29	10 30 51	10 29 54	10 28 57	10 27 59	10 27 02
Sep செப் 8	11 10 17	11 09 20	11 08 22	11 07 25	11 06 27
18	11 49 42	11 48 45	11 47 48	11 46 50	11 45 53
28	12 29 08	12 28 11	12 27 13	12 26 16	12 25 18
Oct அக் 8	13 08 34	13 07 36	13 06 39	13 05 42	13 04 44
18	13 47 59	13 47 02	13 46 04	13 45 07	13 44 09
28	14 27 25	14 26 27	14 25 30	14 24 33	14 23 35
Nov நவ 7	15 06 50	15 05 53	15 04 55	15 03 58	15 03 00
17	15 46 16	15 45 18	15 44 21	15 43 24	15 42 26
27	16 25 41	16 24 44	16 23 47	16 22 49	16 21 51
Dec டிச 7	17 05 07	17 04 10	17 03 12	17 02 15	17 01 17
17	17 44 32	17 43 35	17 42 38	17 41 40	17 40 43
27	18 23 58	18 23 01	18 22 03	18 21 06	18 20 08

TABLE 10. வாக்கியம் 10. Sidereal Time நட்சத்திர வேளாறை

M. Date		1903 N. P.			1905 N. P.			1906 N. P.			1907 N. P.			1909 N. P.		
H. M. S.		H. M. S.			H. M. S.			H. M. S.			H. M. S.			H. M. S.		
ம. நி. ச.		ம. நி. ச.			ம. நி. ச.			ம. நி. ச.			ம. நி. ச.			ம. நி. ச.		
Jan ஜன	1	18	39	51	18	41	52	18	40	55	18	39	57	18	41	59
	11	19	19	06	19	21	18	19	20	20	19	19	23	19	21	24
	21	19	58	42	20	00	44	19	59	46	19	58	48	20	00	50
	31	20	38	08	20	40	09	20	39	11	20	38	14	20	40	16
Fe பிப்	10	21	17	33	21	19	35	21	18	37	21	17	39	21	19	41
	20	21	56	59	21	59	00	21	58	02	21	57	05	21	59	07
Ma மார்	2	22	36	24	22	38	26	22	37	28	22	36	30	22	38	32
	12	23	15	50	23	17	51	23	16	53	23	15	56	23	17	58
	22	23	55	15	23	57	17	23	56	19	23	55	21	23	57	23
Ap ஏப்	1	0	34	41	0	36	42	0	35	44	0	34	47	0	36	49
	11	1	14	06	1	16	08	1	15	10	1	14	12	1	16	14
	21	1	53	32	1	55	33	1	54	35	1	53	28	1	55	40
May மே	1	2	32	57	2	34	59	2	34	01	2	33	04	2	35	05
	11	3	12	23	3	14	24	3	13	27	3	12	29	3	14	31
	21	3	51	48	3	53	50	3	52	52	3	51	55	3	53	27
	31	4	31	14	4	33	15	4	32	18	4	31	20	4	33	32
Ju ஜூ	10	5	10	40	5	12	14	5	11	43	5	10	46	5	12	48
	20	5	50	05	5	52	06	5	51	09	5	50	11	5	52	13
	30	6	29	31	6	31	32	6	30	34	6	29	37	6	31	39
July ஜூலை	10	7	08	56	7	10	58	7	10	00	7	09	02	7	11	04
	20	7	48	22	7	50	24	7	49	26	7	48	28	7	50	30
	30	8	27	47	8	29	49	8	28	51	8	27	54	8	29	56
Au ஆக	9	9	07	13	9	09	14	9	08	17	9	07	19	9	09	21
	19	9	46	38	9	48	40	9	47	42	9	46	45	9	48	47
	29	10	26	04	10	28	05	10	27	08	10	26	10	10	28	12
Sep செப்	8	11	05	30	11	07	31	11	06	33	11	05	36	11	07	38
	18	11	44	55	11	46	56	11	45	59	11	45	01	11	47	03
	28	12	24	21	12	26	22	12	25	24	12	24	27	12	26	29
Oct அக்ட	8	13	03	46	13	05	47	13	04	50	13	03	52	13	05	54
	18	13	43	12	13	45	13	13	44	15	13	43	18	13	45	20
	28	14	23	37	14	24	38	14	23	41	14	22	43	14	24	45
Nov நவ	7	15	02	03	15	04	04	15	03	06	15	02	09	15	04	11
	17	15	41	28	15	43	29	15	42	32	15	41	35	15	43	37
	27	16	20	54	16	22	55	16	21	58	16	21	00	16	23	02
Dec டிசு	7	17	00	19	17	02	20	17	01	23	17	00	26	17	02	28
	17	17	39	45	17	41	46	17	40	49	17	39	51	17	41	53
	27	18	19	10	18	21	11	18	20	14	18	19	17	18	21	19

TABLE 10. வாக்கியம் 10. Sidereal Time நட்சத்திர ஹோரை

M. Date மா. தேதி.	1910 N. ப		1911 N. ப		1913 N. ப		1914 N. ப		1915 N. ப	
	H. M. S.	ம. நி. ச.	H. M. S.	ம. நி. ச.	H. M. S.	ம. நி. ச.	H. M. S.	ம. நி. ச.	H. M. S.	ம. நி. ச.
Jan ஜன	118 41 02	18 40 05	18 42 07	18 41 10	18 40 13					
	11 19 20 27	19 19 50	19 21 33	19 20 36	19 19 39					
	21 19 59 53	19 58 56	20 00 58	20 00 01	19 59 04					
	31 20 39 18	20 38 21	20 40 24	20 39 27	20 38 30					
Feb பிப்	10 21 18 44	21 17 47	21 19 49	21 18 52	21 17 55					
	20 21 58 09	21 57 12	21 59 15	21 58 18	21 57 21					
Mar மார்	2 22 37 35	22 36 38	22 38 41	22 37 44	22 36 50					
	12 23 17 01	23 16 03	23 18 06	23 17 09	23 16 12					
	22 23 56 26	23 55 29	23 57 32	23 56 35	23 55 38					
Apr ஏப்	1 0 35 52	0 34 55	0 36 57	0 36 00	0 35 03					
	11 1 15 17	1 14 20	1 16 23	1 15 26	1 14 29					
	21 1 54 43	1 53 46	1 55 48	1 54 51	1 53 54					
May மே	1 2 34 08	2 33 11	2 35 14	2 34 17	2 33 20					
	11 3 13 34	3 12 37	3 14 39	3 13 42	3 12 45					
	21 3 52 59	3 52 02	3 54 05	3 53 08	3 52 11					
	31 4 32 25	4 31 28	4 33 31	4 32 34	4 31 37					
Ju ஜூ	10 5 11 51	5 10 53	5 12 36	5 11 59	5 11 02					
	20 5 51 16	5 50 19	5 52 22	5 51 25	5 50 28					
	30 6 30 42	6 29 45	6 31 47	6 30 50	6 29 53					
July ஜூலை	10 7 10 07	7 09 10	7 11 13	7 10 16	7 09 19					
	20 7 49 33	7 48 36	7 50 38	7 49 41	7 48 44					
	30 8 28 58	8 28 01	8 30 04	8 29 07	8 28 10					
Aug ஆக	9 9 08 24	9 07 27	9 09 30	9 08 33	9 07 36					
	19 9 47 50	9 46 52	9 48 55	9 47 58	9 47 01					
	29 10 27 15	10 26 18	10 28 21	10 27 24	10 26 27					
Sep செப்	8 11 06 41	11 05 44	11 07 46	11 06 49	11 05 52					
	18 11 46 06	11 45 09	11 47 12	11 46 15	11 45 18					
	28 12 25 32	12 24 35	12 26 37	12 25 40	12 24 43					
Oct அக்	8 13 04 57	13 04 00	13 06 03	13 05 06	13 04 09					
	18 13 44 23	13 43 26	13 45 28	13 44 31	13 43 34					
	28 14 23 48	14 22 51	14 24 54	14 23 57	14 23 00					
Nov நவ	7 15 03 14	15 02 17	15 04 19	15 03 23	15 02 25					
	17 15 42 39	15 41 42	15 43 45	15 42 48	15 41 51					
	27 16 22 05	16 21 08	16 23 11	16 22 14	16 21 17					
Dec டிசு	7 17 01 31	17 00 34	17 02 36	17 01 39	17 00 42					
	17 17 40 56	17 39 59	17 42 02	17 41 05	17 40 08					
	27 18 20 22	18 19 25	18 21 27	18 20 30	18 19 33					

TABLE 10. வாக்கியம் 10. Sidereal Time நட்சத்திர வேறாண

M. Date மா. தேதி.	1923 N. P.			1925 N. P.			1926 N. P.			1927 N. P.			1929 N. P.		
	H. M. S.			H. M. S.			H. M. S.			H. M. S.			H. M. S.		
	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.
Jan ஜன 1	18	40	28	18	42	29	18	41	31	18	40	31	18	42	36
	11	19	19	53	19	21	54	19	20	57	19	20	00	19	22
	21	19	59	19	20	01	20	20	00	23	19	59	25	20	01
	31	20	38	43	20	40	16	20	39	18	20	38	51	20	40
Fe பிப் 10	21	18	10	21	20	11	21	19	14	21	18	16	21	20	18
	20	21	57	35	21	59	37	21	58	39	21	57	42	21	59
Ma மார் 2	22	37	01	22	39	02	22	38	05	22	37	07	22	39	10
	12	23	16	26	23	18	28	23	17	30	23	16	33	23	18
	22	23	55	52	23	57	53	23	56	56	23	55	58	23	58
Ap ஏப் 1	0	35	17	0	37	19	0	36	21	0	35	24	0	37	26
	11	1	14	43	1	16	44	1	15	47	1	14	49	1	16
	21	1	54	08	1	56	01	1	55	12	1	54	15	1	56
May மே 1	2	33	34	2	35	35	2	34	38	2	33	41	2	35	43
	11	3	13	00	3	15	01	3	14	03	3	13	06	3	15
	21	3	52	25	3	54	26	3	53	29	3	52	32	3	54
	31	4	31	51	4	33	52	4	32	55	4	31	57	4	33
Ju ஜூ 10	5	11	16	5	13	18	5	12	20	5	11	23	5	13	25
	20	5	50	42	5	52	43	5	51	46	5	50	48	5	52
	30	6	30	07	6	32	09	6	31	11	6	30	14	6	32
July ஜூலை 10	7	09	33	7	11	34	7	10	37	7	09	40	7	11	42
	20	7	48	58	7	50	59	7	50	02	7	49	05	7	51
	30	8	28	23	8	30	25	8	29	28	8	28	31	8	30
Au ஆக 9	9	07	50	9	09	51	9	08	54	9	07	56	9	09	58
	19	9	47	15	9	49	17	9	48	19	9	47	22	9	49
	29	10	26	41	10	28	42	10	27	45	10	26	47	10	28
Sep செப் 8	11	06	06	11	08	08	10	07	01	11	06	13	10	08	15
	18	11	45	32	11	47	33	11	46	36	11	45	38	11	47
	28	12	24	57	12	26	59	12	26	01	12	25	04	12	27
Oct அக் 8	13	04	23	13	06	24	13	05	27	13	04	29	13	06	32
	18	13	43	48	13	45	50	13	44	52	13	43	55	13	45
	28	14	23	14	14	25	15	14	24	18	14	23	21	14	25
Nov நவ 7	15	02	39	15	04	41	15	03	43	15	02	46	15	04	48
	17	15	42	05	15	44	07	15	43	09	15	42	12	15	44
	27	16	21	30	16	23	32	16	22	34	16	21	37	16	23
Dec டி 7	17	00	56	17	02	57	17	02	00	17	01	03	17	03	05
	17	17	40	22	17	42	23	17	41	26	17	40	28	17	42
	27	18	19	47	18	21	49	18	20	51	18	19	54	18	21

TABLE 10. வாக்கியம் 10. Siderial Time நட்சத்திர வேறாசை

M. Date மா. தேதி.	1930 N. ப			1931 M. இ			1932 M. இ			1933 M. இ			1934 M. இ			1935 M. இ		
	H. M. S.			H. M. S.			H. M. S.			H. M. S.			H. M. S.			H. M. S.		
	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.
Jan ஜன 1	18	11	39	6	38	44	6	40	46	6	39	49	6	38	52			
	11	19	21	04	7	18	09	7	20	12	7	19	15	7	18	18		
	21	20	00	30	7	57	35	7	59	37	7	58	40	7	57	43		
	31	20	39	56	8	37	01	8	39	03	8	38	06	8	37	09		
Feb பிப் 10	21	19	21	9	16	26	9	18	29	9	17	32	9	16	34			
	20	21	58	47	9	55	52	9	57	54	9	56	57	9	56	00		
Mar மார் 2	22	38	12	10	35	17	10	37	20	10	36	23	10	35	26			
	12	23	17	38	11	14	43	11	16	45	11	15	48	11	14	51		
	23	23	57	03	11	54	08	11	56	11	11	55	14	11	54	17		
Apr ஏப் 1	0	36	29	12	33	34	12	35	36	12	34	39	12	33	42			
	11	1	15	55	13	12	59	13	15	02	13	14	05	13	13	08		
	21	1	55	20	13	52	25	13	54	27	13	53	30	13	52	33		
May மே 1	2	34	46	14	31	50	14	33	52	14	32	56	14	31	59			
	11	3	14	11	15	11	16	15	13	18	15	12	21	15	11	24		
	21	3	53	37	15	50	42	15	52	44	15	15	47	15	50	50		
	31	4	33	02	16	30	07	16	32	01	16	31	13	16	30	15		
Jun ஜூ 10	5	12	28	17	09	33	17	11	35	17	10	38	17	09	41			
	20	5	51	54	17	48	58	17	51	01	17	50	04	17	49	07		
	30	6	31	19	18	28	24	18	30	26	18	29	29	18	28	32		
July ஜூலை 10	7	10	45	18	07	50	19	09	52	19	08	55	19	07	58			
	20	7	50	10	19	47	15	19	49	18	19	48	20	19	47	23		
	30	8	29	36	20	26	41	20	28	43	20	27	46	20	26	49		
Aug ஆக 9	9	09	01	21	06	06	21	08	09	21	07	12	21	06	15			
	19	9	48	27	21	45	32	21	47	34	21	46	37	21	45	40		
	29	10	27	53	22	24	57	22	27	00	22	26	03	22	25	06		
Sep செப் 8	11	07	18	23	04	23	23	06	25	23	05	28	23	04	31			
	18	11	46	44	23	43	48	23	45	51	23	44	54	23	43	57		
	28	12	26	09	0	23	14	0	25	16	0	24	19	0	23	22		
Oct அக் 8	13	05	35	1	02	39	1	04	42	1	03	45	1	02	48			
	18	13	45	00	1	42	05	1	44	07	1	43	10	1	42	13		
	28	14	24	26	2	31	31	2	23	33	2	22	36	2	21	39		
Nov நவ 7	15	03	51	3	00	56	3	02	59	3	02	02	3	01	04			
	17	15	43	17	3	40	22	3	42	24	3	41	27	3	40	30		
	27	16	22	43	4	19	47	4	21	50	4	20	53	4	19	56		
Dec டிச 7	17	02	03	4	59	13	5	01	15	5	00	18	4	59	21			
	17	17	41	34	5	33	38	5	40	41	5	39	44	5	38	47		
	27	18	20	59	6	18	04	6	20	06	6	19	09	6	18	12		

Tables of Sidereal Time—நட்சத்திர ஹோரை வாக்கியம், 97

TABLE 10. வாக்கியம் 10. Sidereal Time நட்சத்திர ஹோரை

M. Date	1937 M இ	1938 M இ	1939 M இ	1941 M இ
ம. தேதி.	H. M. S.	H. M. S.	H. M. S.	H. M. S.
ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.
Jan ஜன 1	6 40 54	6 31 57	6 39 00	6 41 41
11	7 20 20	7 19 23	7 18 25	7 20 26
21	7 59 46	7 53 48	7 57 51	7 59 52
31	8 39 11	8 38 14	8 37 16	8 39 18
Feb பெ 10	9 18 37	9 17 30	9 16 42	9 18 43
20	9 58 02	9 57 05	10 00 04	9 58 09
Mar மார் 2	10 37 28	10 36 30	10 35 33	10 37 34
12	11 16 53	11 15 56	11 14 58	11 17 00
22	11 56 19	11 55 21	11 54 24	11 56 25
Ap ஏப் 1	12 35 44	12 34 47	12 33 49	12 35 51
11	13 15 10	13 14 12	13 13 15	13 15 16
21	13 54 35	13 53 38	13 52 40	13 54 42
May மே 1	14 34 01	14 33 04	14 32 06	14 34 07
11	15 13 26	15 12 29	15 11 32	15 13 33
21	15 52 52	15 51 55	15 50 57	15 52 58
31	16 32 18	16 31 20	16 30 22	16 32 24
Ju ஜூ 10	17 11 43	17 10 46	17 09 48	17 11 50
20	17 51 09	17 50 11	17 49 14	17 51 15
30	18 30 34	18 29 37	18 28 39	18 30 41
July ஜூலை 10	19 10 00	19 09 03	19 08 05	19 10 06
20	19 49 25	19 48 28	19 47 30	19 49 32
30	20 28 51	20 27 54	20 26 56	20 28 57
Au ஆக 9	21 08 17	21 07 19	21 06 22	21 08 23
19	21 47 42	21 46 45	21 45 47	21 47 48
29	22 27 08	22 26 10	22 25 13	22 27 14
Sep செப் 8	23 06 33	23 05 36	23 04 38	23 06 39
18	23 45 59	23 45 01	23 44 04	23 46 05
28	0 25 24	0 24 27	0 23 29	0 25 30
Oct அக் 8	1 04 50	1 03 52	1 02 55	1 04 56
18	1 44 15	1 43 18	1 42 20	1 44 22
28	2 23 41	2 22 43	2 21 46	2 23 47
Nov நவ 7	3 03 06	3 02 09	3 01 11	3 03 13
17	3 42 42	3 41 34	3 40 37	3 42 38
27	4 21 58	4 21 00	4 20 02	4 22 04
Dec டிச 7	5 01 23	5 00 26	4 59 28	5 01 29
17	5 40 49	5 39 51	5 38 54	5 40 55
27	6 20 14	6 19 17	6 18 19	6 20 20

LEAP YEARS.

TABLE 10. வாக்கியம் 10. Siderial Time நட்சத்திர வேளாண்

M. Date மா. தேதி.	1868 N. ப			1872 N. ப			1876 N. ப			1880 N. ப			1884 N. ப		
	H. M. S.			H. M. S.			H. M. S.			H. M. S.			H. M. S.		
	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.
Jan ஜன 1	18	41	43	18	41	50	18	41	58	18	42	07	18	42	13
11	19	21	09	19	21	15	19	21	24	19	21	32	19	21	39
21	20	00	34	20	00	41	20	00	49	20	00	58	20	01	05
31	20	40	00	20	40	06	20	40	15	20	40	23	20	40	30
Feb பிப் 10	21	19	25	21	19	32	21	19	40	21	19	49	21	19	56
20	21	58	51	21	58	58	21	59	06	21	59	14	21	59	21
Mar மார் 1	22	38	16	22	38	23	22	38	31	22	38	40	22	38	47
11	23	17	52	23	17	49	23	17	57	23	18	05	23	18	12
21	23	57	07	23	57	14	23	57	23	23	57	31	23	57	38
31	0	36	33	0	36	40	0	36	48	0	36	56	0	37	03
Apr ஏப் 10	1	15	58	1	16	05	1	16	14	1	16	22	1	16	29
20	1	55	24	1	55	31	1	55	39	1	55	48	1	55	54
30	2	34	49	2	34	56	2	35	05	2	35	13	2	35	20
May மே 10	3	14	15	3	14	22	3	14	30	3	14	39	3	14	45
20	3	53	40	3	53	47	3	53	56	3	54	04	3	54	11
30	4	33	06	4	33	13	4	33	21	4	33	30	4	33	37
Jun ஜூ 9	5	12	32	5	12	39	5	12	47	5	12	55	5	13	02
19	5	51	57	5	53	04	5	52	13	5	52	21	5	52	28
29	6	31	23	6	31	30	6	31	38	6	31	47	6	31	51
July ஜூலை 9	7	10	48	7	10	55	7	11	04	7	11	12	7	11	19
19	7	15	14	7	50	21	7	50	29	7	50	38	7	50	44
29	8	29	39	8	29	46	8	29	55	8	30	03	8	30	10
Aug ஆக 8	9	09	05	9	09	12	9	09	20	9	09	29	9	09	35
18	9	48	31	9	48	38	9	48	46	9	48	54	9	49	01
28	10	27	56	10	28	03	10	28	12	10	28	20	10	28	25
Sep செப் 7	11	07	22	11	07	29	11	07	37	11	07	45	11	07	52
17	11	46	47	11	46	54	11	47	03	11	47	11	11	47	18
27	12	26	13	12	26	20	12	26	28	12	26	36	12	26	43
Oct அக் 7	13	05	38	13	05	45	13	05	54	13	06	02	13	06	09
17	13	45	04	13	45	11	13	45	19	13	45	28	13	45	34
27	14	24	29	14	24	36	14	24	45	14	24	53	14	24	50
Nov நவ 6	15	03	55	15	04	02	15	04	10	15	04	19	15	04	25
16	15	43	20	15	43	27	15	43	36	15	43	44	15	43	51
26	16	22	46	16	22	53	16	23	02	16	23	10	16	23	16
Dec டிச 6	17	02	11	17	02	19	17	02	27	17	02	35	17	02	42
16	17	41	37	17	41	44	17	41	53	17	42	01	17	42	07
26	18	21	03	18	21	10	18	21	18	18	21	26	18	21	33

TABLE 10. வாக்கியம் 10. Sidereal Time நட்சத்திர ஹோரை

M. Date மார். தேதி.	1888 N. ப.			1892 N. ப.			1896 N. ப.			1904 N. ப.			1908 N. ப.		
	H. M. S.			H. M. S.			H. M. S.			H. M. S.			H. M. S.		
	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.	ம.	நி.	ச.
Jan ஜன 1	18	42	20	18	42	27	18	42	35	18	33	53	18	39	00
11	19	21	45	19	21	52	19	22	01	19	18	19	19	18	25
21	20	01	10	20	01	18	20	01	27	19	57	44	19	57	51
31	20	40	36	20	40	44	20	40	52	20	37	10	20	37	16
Feb பெப் 10	21	20	01	21	20	09	21	20	18	21	16	36	21	16	42
20	21	59	27	21	59	35	21	59	43	21	56	01	21	56	07
Mar மார் 1	22	33	52	22	39	01	22	39	09	22	35	27	22	35	33
11	23	18	18	23	18	26	23	18	34	23	14	52	23	14	58
21	23	57	43	23	57	51	23	58	00	23	54	18	23	54	24
31	0	37	09	0	37	17	0	37	26	0	33	43	0	33	50
Apr ஏப் 10	1	16	35	1	16	42	1	16	51	1	13	09	1	13	15
20	1	56	01	1	56	08	1	56	17	1	52	34	1	52	41
30	2	35	26	2	35	33	2	35	42	2	32	00	2	32	06
May மே 10	3	14	52	3	14	59	3	15	08	3	11	25	3	11	32
20	3	54	17	3	54	25	3	54	33	3	50	51	3	50	57
30	4	33	43	4	33	50	4	33	59	4	30	16	4	30	23
Jun ஜூ 9	5	13	08	5	13	16	5	13	24	5	09	42	5	09	48
19	5	52	34	5	52	41	5	52	50	5	49	07	5	49	14
29	6	31	59	6	32	07	6	32	16	6	28	33	6	28	40
July ஜூலை 9	7	11	25	7	11	33	7	11	41	7	07	59	7	08	05
19	7	50	51	7	50	59	7	51	07	7	47	24	7	47	31
29	8	30	16	8	30	24	8	30	32	8	26	50	8	26	56
Aug ஆக 8	9	09	42	9	09	49	9	09	58	9	06	15	9	06	22
18	9	49	07	9	49	15	9	49	23	9	45	41	9	45	47
28	10	28	33	10	28	41	10	28	49	10	25	06	10	25	13
Sept செப் 7	11	07	58	11	08	06	11	08	15	11	04	32	11	04	38
17	11	47	24	11	47	31	11	47	40	11	43	57	11	44	04
27	12	26	49	12	26	57	12	27	06	12	23	23	12	23	29
Oct அக் 7	13	06	15	13	06	22	13	06	31	13	02	48	13	02	55
17	13	45	40	13	45	48	13	45	57	13	42	14	13	42	21
27	14	25	06	14	25	14	14	25	22	14	21	39	14	21	46
Nov நவ 6	15	04	32	15	04	39	15	04	48	15	01	05	15	01	12
16	15	43	57	15	44	05	15	44	13	15	40	31	15	40	37
26	16	23	23	16	23	30	16	23	39	16	19	56	16	20	03
Dec டிச 6	17	02	48	17	02	56	17	03	05	16	59	23	16	59	28
16	17	42	14	17	42	21	17	42	30	17	38	47	17	38	54
26	18	21	39	18	21	47	18	21	56	18	18	13	18	18	19

TABLE 10. வாக்கியம் 10. Siderial Time நட்சத்திர ஹோரை

M. Date	1912 N. P.	1916 N. P.	1920 N. P.	1924 N. P.	1928 N. P.
மா. தேதி.	H. M. S.	H. M. S.	H. M. S.	H. M. S.	H. M. S.
ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.	ம. நி. ச.
Jan ஜன 1	18 39 08	18 39 16	18 39 24	18 39 30	18 39 37
	11 19 18	33 19 18	42 19 18	49 19 18	55 19 19
	21 19 57	59 19 58	07 19 58	15 19 58	21 19 58
	31 20 37	24 20 37	33 20 37	40 20 38	50 20 37
Feb பிப் 10	21 16 50	21 16 58	21 17 06	21 17 12	21 17 19
	20 21 56	15 21 56	24 21 56	31 21 56	37 21 56
Mar மார் 1	22 35 41	22 35 50	22 35 57	22 36 03	22 36 01
	11 23 15	06 23 15	15 23 15	22 23 15	29 23 15
	21 23 54	32 23 54	41 23 54	48 23 54	54 23 55
	31 0 33	58 0 34	06 0 34	14 0 34	20 0 34
Apr ஏப் 10	1 13 23	1 13 32	1 13 39	1 13 45	1 13 52
	20 1 52	49 1 52	57 1 53	05 1 53	11 1 53
	30 2 32	14 2 32	23 2 32	30 2 32	06 2 32
May மே 10	3 11 40	3 11 48	3 11 56	3 12 02	3 12 09
	20 3 51	05 3 51	14 3 51	21 3 51	27 3 51
	30 4 30	31 4 30	40 4 30	47 4 30	53 4 31
Ju ஜூ 09	5 09 36	5 10 05	5 10 12	5 10 18	5 10 26
	19 5 49	22 5 49	31 5 49	38 5 49	44 5 49
	29 6 28	48 6 28	56 6 29	03 6 29	10 6 29
July ஜூலை 9	7 08 13	7 0 22	7 08 29	7 08 35	7 08 42
	19 7 47	39 7 47	47 7 47	55 7 48	01 7 48
	29 8 27	04 8 27	13 8 27	20 8 27	26 8 27
Au ஆக 8	9 06 30	9 06 39	9 06 46	9 06 52	9 06 59
	18 9 45	56 9 46	04 9 46	11 9 46	17 9 46
	28 10 25	21 10 25	30 10 25	37 10 25	43 10 25
Sep செப் 7	11 04 47	11 04 55	11 05 02	11 05 08	11 05 16
	17 11 44	12 11 44	21 11 44	28 11 44	34 11 44
	27 12 23	18 12 23	46 12 23	53 12 23	59 12 24
Oct அக் 7	13 03 03	13 03 12	13 03 19	13 03 25	13 03 32
	17 13 42	29 13 42	37 13 42	44 13 42	50 13 42
	27 14 21	54 14 22	08 14 22	10 14 22	16 14 22
Nov நவ 6	15 01 20	15 01 28	15 01 35	15 01 41	15 01 49
	16 15 40	45 15 40	54 15 41	01 15 41	07 15 41
	26 16 20	11 16 20	20 16 20	27 16 20	33 16 20
Dec டிச 6	16 59 37	16 59 45	16 59 52	16 59 58	17 00 06
	16 17 39	02 17 39	11 17 39	18 17 39	24 17 39
	26 18 18	28 18 18	36 18 18	43 18 18	49 18 18

TABLE 10. வாக்கியம் 10. Sideral Time நட்சத்திர ஹோரை

M. Date ம. தேதி.	1932 Mஇ			1936 Mஇ			1940 Mஇ		
	H. M. S.	ம.	நி. ச.	H. M. S.	ம.	நி. ச.	H. M. S.	ம.	நி. ச.
Jan ஜன 1	6 37 47	6	37 47	6 37 55	6	37 55	6 38 02	6	38 02
11	7 17 12	7	17 12	7 17 21	7	17 21	7 17 2	7	17 2
21	7 56 38	7	56 38	7 56 46	7	56 46	7 56 53	7	56 53
31	8 36 03	8	36 03	8 36 12	8	36 12	8 36 19	8	36 19
Feb பிப் 10	9 15 29	9	15 29	9 15 37	9	15 37	9 15 44	9	15 44
20	9 54 55	9	54 55	9 55 03	9	55 03	9 55 10	9	55 10
Mar மார் 1	10 34 20	10	34 20	10 34 28	10	34 28	10 34 3	10	34 3
11	11 13 46	11	13 46	11 13 54	11	13 54	11 14 01	11	14 01
21	11 53 11	11	53 11	11 53 20	11	53 20	11 53 26	11	53 26
31	12 32 37	12	32 37	12 32 35	12	32 35	12 32 52	12	32 52
Apr ஏப் 10	13 12 02	13	12 02	13 12 11	13	12 11	13 12 17	13	12 17
20	13 51 28	13	51 28	13 51 36	13	51 36	13 51 43	13	51 43
30	14 30 53	14	30 53	14 31 02	14	31 02	14 31 08	14	31 08
May மே 10	15 10 19	15	10 19	15 10 27	15	10 27	15 10 34	15	10 34
20	15 49 45	15	49 45	15 49 53	15	49 53	15 49 59	15	49 59
30	16 29 10	16	29 10	16 29 18	16	29 18	16 29 59	16	29 59
Ju ஜூ 9	17 08 36	17	08 36	17 08 44	17	08 44	17 08 51	17	08 51
19	17 48 01	17	48 01	17 48 10	17	48 10	17 48 16	17	48 16
29	18 27 27	18	27 27	18 27 35	18	27 35	18 27 42	18	27 42
July ஜூலை 9	19 06 52	19	06 52	19 07 01	19	07 01	19 07 07	19	07 07
19	19 46 18	19	46 18	19 46 26	19	46 26	19 46 33	19	46 33
29	20 25 44	20	25 44	20 25 52	20	25 52	20 25 58	20	25 58
Au ஆக 8	21 05 09	21	05 09	21 05 17	21	05 17	21 05 24	21	05 24
18	21 44 03	21	44 03	21 44 43	21	44 43	21 44 50	21	44 50
28	22 24 00	22	24 00	22 24 08	22	24 08	22 24 15	22	24 15
Sep செப் 7	23 03 26	23	03 26	23 03 34	23	03 34	23 03 41	23	03 41
17	23 42 51	23	42 51	23 43 00	23	43 00	23 43 06	23	43 06
27	0 22 17	0	22 17	0 22 25	0	22 25	0 22 32	0	22 32
Oct அக் 7	1 01 42	1	01 42	1 01 51	1	01 51	1 01 57	1	01 57
17	1 41 08	1	41 08	1 41 16	1	41 16	1 41 23	1	41 23
27	2 20 33	2	20 33	2 20 42	2	20 42	2 20 48	2	20 48
Nov நவ 6	2 59 59	3	00 07	3 00 07	3	00 07	3 00 14	3	00 14
16	3 39 25	3	39 25	3 39 33	3	39 33	3 39 39	3	39 39
26	4 18 50	4	18 50	4 18 58	4	18 58	4 19 05	4	19 05
Dec டிசு 6	4 58 16	4	58 16	4 58 24	4	58 24	4 58 30	4	58 30
16	5 37 41	5	37 41	5 37 49	5	37 49	5 37 56	5	37 56
26	6 17 07	6	17 07	6 17 15	6	17 15	6 17 22	6	17 22

N.B. Sideral Time at 12 hr-0 m (Noon) in Greenwich=N. Sideral Time at 0 hr-0 m. (Midnight) in Greenwich—M. N shows that Sideral Time is given at 12 hrs-0 m (Noon) at Greenwich, M in the date column stands for Month. Maximum Sideral Time=24 hrs-0 m-0 sd. Sideral Time is generally given at intervals of ten days; for intermediate dates it must be calculated by proportion.

குறிப்பு:—நட்சத்திர ஹோரை-கிரீன்விச்-பகல் மணி 12-0 நிமிஷத்திற்கு=N. நட்சத்திர ஹோரை-கிரீன்விச்-பகல் மணி 12-0 நிமிஷத்திற்கு=M. N காட்டுகிறது நட்சத்திர ஹோரை-கிரீன்விச்-பகல் மணி 12-0 நிமிஷத்திற்கு=பகல் மணி 12-0 நிமிஷத்திற்கு. ப என்பது நட்சத்திர ஹோரை கிரீன்விச்-பகல் மணி 12-0 நிமிஷத்திற்குக் கொடுக்கப்பட்டது எனது தெரிகிறது. இ-என்பது நட்சத்திர ஹோரை கிரீன்விச்-பகல் மணி 12-0 நிமிஷத்திற்குக் கொடுக்கப்பட்டது எனது தெரிகிறது. M-என்பது மாதம். மொத்த நட்சத்திர ஹோரை மணி=24 மணி-0 நிமிஷம்-0 சக்கண்டு.

TABLE 11. வாக்கியம் 11.

Geographical (Terrestrial) Latitude and Longitude of Important Places In India and Other Countries.

இந்தியாவிலும் இதர தேசங்களிலும் உள்ள முக்கிய பட்டணங்களின் அகநாட்சமும் (Latitude), ரேகாட்சமும் (Longitude).

இடங்களின் பெயர்கள்.	Names of Places.	அகநாட்சம். Latitude.	ரேகாட்சம். Longitude.
Aden	ஏடன்	12 45 N. உ.	45 02 E. க.
Adoni	ஆதோணி	15 39 "	77 18 "
Agra	அக்ரா	27 09 "	78 04 "
Ahamedabad	ஆமதாபாத்	23 01 "	72 37 "
Ahmednagar	ஆம்நகர்	19 04 "	74 47 "
Ajmore	ஆஜ்மீர்	26 26 "	74 43 "
Akola	அகோலா	20 41 "	77 01 "
Akyab	அக்யாபு	20 09 "	92 49 "
Alipore	அலிப்பூர்	22 31 "	88 23 "
Allahabad	அலஹாபாத்	25 27 "	81 53 "
Alleppy	அலப்பே	9 26 "	76 32 "
Amraoti	ஆம்ரோடி	20 55 "	77 47 "
Anantapur	அனந்தபூர்	14 03 "	75 14 "
Anakapalle	அனகபல்லி	17 42 "	83 02 "
Arcot	ஆற்காடு	12 48 "	79 32 "
Assam	ஆசாம்	26 01 "	92 01 "
Baghdad	பாசுதாட்டு	33 21 "	44 23 "
Balasore	பாலசோர்	21 31 "	86 59 "
Bangalore	பங்களூர்	12 59 "	77 38 "
Bangunapalle	பங்கனபல்லி	15 21 "	78 16 "
Baroda	பரோடா	22 14 "	73 00 "
Bassein	பேசின்	19 15 "	72 14 "
Belgaum	பெல்காம்	15 53 "	74 35 "
Bellary	பெல்லாரி	15 10 "	76 53 "
Benares	காசி	25 20 "	83 04 "
Berhampore	பர்ஹம்பூர்	19 19 "	84 50 "
Bey pore	பெய்பூர்	11 09 "	75 52 "
Bezwada	பெஜவாடா	16 27 "	80 43 "

இடங்களின் பெயர்கள்.	Names of Places.	அகநாமம். Latitude.	ரேகாம்சம். Longitude.
		° ' "	° ' "
Bhagalpore	பாகல்பூர்	25 16 N. உ.	87 03 E. கி.
Bharatpur	பர்ட்பூர்	27 10 "	77 36 "
Bijapur	பிஜபூர்	16 51 "	75 05 "
Bikaner	பிக்காரீர்	28 02 "	73 23 "
Bimlipatam	பிமிலிப்பட்டணம்	17 56 "	83 31 "
Bobbili	பொப்பிலி	18 34 "	83 31 "
Bodinayakkanur	போடிநாயக்கனூர்	10 00 "	78 06 "
Bombay	பம்பாய்	18 53 36	72 48 54
Basra	பசரா	30 31 "	47 51 "
Broach	ப்ரோச்சு	21 46 "	72 59 "
Calcutta	கல்கத்தா	22 35 "	88 24 "
Calingapatam	கள்ளிக்கோட்டை	11 04 "	75 48 "
Calicut	கலிங்கப்பட்டணம்	18 19 "	84 08 "
(in Ganjam)			
Cambay	காம்பே	21 01 "	72 31 "
Cannanore	கண்ணனூர்	11 48 "	75 21 "
Cawnpore	கான்பூர்	26 27 "	80 23 "
Chicacole	சிக்காகோல்	18 12 "	83 58 "
Chingleput	செங்கல்பட்டு	12 42 "	80 02 "
Chittoore	சித்தூர்	13 13 "	79 10 "
Chitaldrug	சிட்டல்பூர்	14 13 "	72 25 "
Cocanada	காக்கிநாடா	16 56 "	82 14 "
Cochin	கொச்சி	9 57 "	76 16 "
Coimbatore	கொயம்பத்தூர்	11 01 "	77 01 "
Colombo	கொளம்பு	6 55 "	79 55 "
Conjeeveram	காஞ்சீபுரம்	12 50 "	79 07 "
Cooch Behar	கூச்சிஹார்	26 18 "	89 27 "
Coonoor	கூனூர்	11 15 "	76 48 "
Cuddalore	கூடலூர்	11 42 "	79 48 "
Cuddapah	கடப்பை	14 27 "	78 52 "
Cumbum	கம்பம்	15 39 "	79 09 "
Cuttack	கட்டாக்	20 47 "	85 56 "
Darbhanga	டர்பங்கா	25 11 "	85 58 "
Darjeeling	டார்ஜீலிங்	27 04 "	88 19 "
Dehra Dun	டேராடூன்	30 20 "	78 05 "
Delhi	டில்லி	28 40 "	77 18 "

இடங்களின் பெயர்கள்.	Names of Places.	அகாஷம்சம். Latitude.	ரேகாம்சம். Longitude.
		0 /	0 /
Dehra Ismail Khan	டேராஹிஸ்மயில் கான்	31 53 N. உ.	70 57 E. கி.
Dharmapuri	தர்மபுரி	12 12 „	78 12 „
Dharwar	டார்வார்	15 22 „	75 03 „
Diamond Island	டயம்மண்டிஹீவு	15 53 „	94 20 „
Dindigul	திண்டுக்கல்	10 16 „	78 00 „
Dodabetta	தொத்தபெட்டா	11 26 „	76 41 „
Dum Dum	டம்டம்	22 44 „	88 39 „
Dwaraka	துவாரகை	22 15 „	69 06 „
Elloore	எல்லூர்	16 42 „	81 06 „
Ernakulam	எறணக்குளம்	9 58 „	76 18 „
Erode	ஈரோடு	11 20 „	77 45 „
Galle	காலி	6 01 „	80 14 „
Ganjam	கஞ்சம்	19 24 „	85 08 „
Gauhati	கொஹத்தி	26 10 „	91 47 „
Gaya	கயா	24 48 „	85 02 „
Ginjee	செஞ்சி	12 18 „	79 45 „
Gooty	குத்தி	15 06 „	77 41 „
Gopalpur	கோபாலபுறம்	19 15 „	84 56 „
Gudiyattam	குடியாத்தம்	13 00 „	78 52 „
Gujarat	கர்ஜரம்	22 19 „	71 00 „
Greenwich	கிரீன்விச்சு	51 28 38.2 „	00 00 „
Guntakal	குண்டகல்	15 07 „	77 31 „
Guntur	குண்டூர்	16 17 „	80 28 „
Gwalior	குவாலியர்	26 20 „	78 07 „
Howrah	ஹௌரா	22 42 „	88 20 „
Hubli	ஹுப்லி	15 24 „	75 12 „
Hyderabad (Deccan)	அயித்திராபாத் (தக்ஷணமாகாணம்)	17 19 „	78 29 „
Hyderabad (Sind)	அதிராபாத் (சிண்டு)	25 22 „	68 23 „
Indore	இந்தூர்	22 43 „	75 49 „
Ispahan	இஸ்பஹான்	32 39 „	51 43 „
Jaffna	ஜாப்னா	9 39 „	80 00 „
Jaipur	ஜெயப்பூர்	26 54 „	75 51 „
Jamnagar	ஜாமநகர்	22 26 „	70 16 „

இடங்களின் பெயர்கள்.	Names of Places.	அகநாட்சம். Latitude.	ரேகாட்சம். Longitude.
		° ' "	° ' "
Jhansi	ஜான்சி	25 26 N. E.	78 36 E. கி.
Jodhpur	ஜோட்பூர்	26 16 "	73 03 "
Jubbulpore	ஜப்பல்பூர்	23 09 "	79 58 "
Kabul	காபூல்	34 31 "	69 17 "
Kalyan	கல்யான்	19 14 "	73 09 "
Karachi	கராச்சி	24 52 "	67 05 "
Khanpur (Bha- galpur State)	கான்பூர் (பஹல் பூர் ராஜ்யம்)	30 10 "	71 17 "
Kirkee	கற்கீ	18 39 "	73 53 "
Kodaikanal	கோடைக்கானல்	10 14 "	77 33 "
Kolhapur	கோலாப்பூர்	16 34 "	74 14 "
Krishnagar	கிருஷ்ணகர்	23 25 "	88 34 "
Kumbakonam	கும்பகோணம்	10 56 "	79 24 "
Kurnool	கர்நூல்	15 51 "	70 06 "
Lahore	லாகூர்	31 33 "	74 20 "
Lucknow	லக்னோ	26 54 "	80 58 "
Madras	மதராஸ்	13 04 "	80 15 "
Madura	மதுரை	09 54 "	78 09 "
Mainpuri	மெயின்பூரி	27 13 "	79 02 "
Mandalay	மாண்டலே	21 58 "	96 07 "
Mangalore	மங்களூர்	12 51 "	74 52 "
Mannargudi	மான்னர்குடி	10 42 "	79 26 "
Marmagao	மார்மகோவா	15 24 "	72 49 "
Masulipatam	மசூலிப்பட்டணம்	16 08 "	81 11 "
Maymyo	மெய்மியோ	22 00 "	96 29 "
Mayavaram	மாயவரம்	11 06 "	79 44 "
Mauritius	மொரீசியஸ்	20 09 "	57 25 "
Meerut	மீரத்	29 00 "	77 44 "
Mercara	மற்காரா	13 25 "	75 46 "
Midnapore	மிட்னாபூர்	22 24 "	87 20 "
Moulmein	மௌல்மீன்	16 31 "	90 39 "
Multan	மூல்தான்	30 11 "	71 32 "
Murshadabad	மூர்ஷிடாபாத்	24 09 "	85 14 "
Mysore	மைசூர்	12 17 "	76 43 "
Nagarcot	நாகர்கோவில்	08 02 "	77 39 "
Nagpur	நாக்பூர்	21 08 "	76 08 "

இடங்களின் பெயர்கள்.	Names of Places.	அகஷாம்சம். Latitude.	ரேகாட்சம். Longitude.
		0 1	0 1
Nandyal	நந்தியால்	15 29 N. உ.	78 34 E. கி.
Narayanganj	நாராயணன்கான்ஜ்	23 38 "	90 33 "
Nasik	நாசிக்	20 03 "	74 00 "
Negapatam	நாகப்பட்டணம்	10 47 "	79 54 "
Nellore	நெல்லூர்	14 26 "	80 00 "
Nizamabad	நைஜாமாபாட்	18 41 "	78 08 "
(Indore)	(இந்தூர்)		
Nowgong	நௌகாங்கு	25 02 "	79 31 "
Nuwara Eliya	நுவராய இலையா	06 51 "	80 41 "
Ootacamund	உதகமண்டலம்	11 28 "	76 45 "
Oudh	அயோத்தி	27 01 "	81 31 "
Palamcottah	பாலையங்கோட்டை	08 42 "	77 44 "
Palghat	பாலக்காடு	10 48 "	76 38 "
Pamban	பாம்பன்	09 16 "	79 14 "
Pattiala	பாட்டியாலா	30 19 "	76 24 "
Patna	பாடலிபுரம்	25 31 "	85 15 "
Patur	பாத்தூர்	20 43 "	83 10 "
Penang	பினாங்கு	05 17 "	100 03 "
Peshawar	பெஷாவர்	34 01 "	71 38 "
Poona	பூனா	18 32 "	73 56 "
Porbandar	போர்பந்தர்	21 44 "	69 33 "
Port Blair	போர்ட்டு பிளைர்	11 42 "	92 46 "
Port Victoria	போர்ட்டு விக்டோ	04 20 "	55 44 "
(Seychelles)	சீயா		
Prome	ப்ரோம்	18 42 "	95 14 "
Pudukkotai	புதுக்கோட்டை	10 23 "	78 51 "
Pulicat	பழுவேற்காடு	13 29 "	80 22 "
Puri	பூரி	19 49 "	85 53 "
Purnea	பூர்னியா	25 47 "	87 32 "
Quetta	குயட்டா	30 11 "	67 01 "
Raichur	ரெய்ச்சூர்	16 11 "	77 24 "
Rajpur	ராஜ்பூர்	21 14 "	81 42 "
Rajkot	ராஜ்கோட்	22 17 "	70 57 "
Rajahmundry	ராயமபேந்திரம்	17 01 "	81 47 "
Rajapalayam	இராஜபாளையம்	09 30 "	77 32 "
Ranchi	ராஞ்சி	23 22 "	85 22 "

இடங்களின் பெயர்கள்.	Names of Places.	அகநாட்சம். Latitude.	ரேகாட்சம். Longitude.
Rameswaram	ராமேஸ்வரம்	09 14 N. உ.	79 21 E. கி.
Ramnad	ராமநாதபுரம்	09 18 "	78 55 "
Rangoon	ரங்கூன்	16 48 "	96 12 "
Ratnagiri	ரத்னகிரி	17 07 "	73 18 "
Rawalpindi	ராவல்பிண்டி	33 38 "	73 05 "
Sabarnati	சபர்நதி	24 01 "	73 01 "
Salcm	சேலம்	11 40 "	78 11 "
Salsette	சால்செட்டி	19 04 "	70 54 "
Sambalpur	சாம்பல்பூர்	21 27 "	84 07 "
Sandur	சண்டூர்	15 02 "	76 33 "
Satara	சட்டாரா	17 34 "	74 01 "
Secunderabad	சகிண்டராபாத்	17 22 "	78 33 "
Sholapur	சோளாப்பூர்	17 41 "	75 58 "
Simla	சிம்லா	31 05 "	77 12 "
Singapore	சிங்கப்பூர்	01 21 "	103 55 "
Sirajganj	சிராஜிகெஞ்சி	24 26 "	89 43 "
Sivasamudram	சிவசமுத்திரம்	12 14 "	77 14 "
Srinagar	ஸ்ரீநகர்	34 05 "	74 52 "
Srirangam	ஸ்ரீரங்கம்	10 48 "	78 41 "
Srirangapatnam	ஸ்ரீரங்கப்பட்டணம்	12 24 "	76 45 "
Surat	சூரத்	21 11 "	72 53 "
Srivilliputtur	ஸ்ரீவில்லிபுத்தூர்	09 30 "	77 36 "
Table Island	டேபில் ஐலாண்டு	14 02 "	93 19 "
Tanjore	தஞ்சாவூர்	10 44 "	79 06 "
Tehran	தெயிரன்	35 42 "	51 24 "
Tellicherry	தலைச்சேரி	11 42 "	75 34 "
Tinnevely	திருநெல்வேலி	08 45 "	77 45 "
Tiruchendur	திருச்செந்தூர்	08 30 "	78 06 "
Tirukkottur	திருக்கோட்டி	11 50 "	79 20 "
Tiruvadi	திருவையார்	11 45 "	79 40 "
Tiruvannamalai	திருவனாமலை	10 49 "	79 45 "
Trichinopoly	திருச்சிணப்பள்ளி	10 51 "	78 47 "
Trichur	திருச்சூர்	10 31 "	76 14 "
Trincomalee	திருக்கோணமலை	08 3 "	81 07 "
Trivandrum	திருவனந்தபுரம்	08 28 "	77 00 "
Tuticorin	துத்துக்குடி	08 48 "	78 08 "

இடங்களின் பெயர்கள்.	Names of Places.	அகாசம்சம். Latitude.	ரேகாசம்சம். Longitude.
Udaipur	உதைப்பூர்	24 36 N. உ.	73 44 E. க.
Udipi	உடுப்பி	13 09 "	74 41 "
Ujjain	உஜ்ஜீனிமாகாளிப் பட்டணம்	23 09 "	75 51 "
Vellore	வேலூர்	12 56 "	79 09 "
Victoria Point	விக்டோரியாபாயிண்ட்	10 01 "	98 34 "
Vijayanagar	விஜயநகர்	15 07 "	76 26 "
Vijianagram	விஜயநகரம்	18 12 "	83 24 "
Vizagapatam	விசாகப்பட்டணம்	17 41 "	83 18 "
Waltair (Vizagapatam)	வால்டேர்	17 45 "	83 22 "
Yerkkad	ஏற்காடு	11 45 "	78 15 "
Zanzibar	ஜான்பிபார்	06 09 "	39 10 "

APPENDIX No. I.—அதுபந்தம் நெ. 1

Time Differences between Greenwich Mean Time and the Mean Time or Standard Time of some important places:—

மீன் டயர், ஸ்டாண்டர்டு டயம் வித்தியாசங்கள்.

Places.	Nature of Time Difference	Hrs-mss-ssds
இடங்கள்	டயம் வித்தியாச விபரம்	மணி-நிமி-செ
Madras	Mean Time Difference	== - 5-20-59.13
சென்னை மாகாணம்		
Bombay Presidency	do.	== - 4-51-15.6
பம்பாய் மாகாணம்		
Calcutta Bengal Province	do.	== - 5-53-20.3
கல்கத்தா (பங்காளம்) மாகாணம்		
Burma	do.	== - 6-24-17
பர்மா		
Mauritius	do.	== - 3-50-12.6
மொருஷியூ		

Table of Time Difference—மணி வித்தியாச வாக்கியம் 109

Places	Nature of Time Difference	Hrs—Mins—Secs
இடங்கள்	டயம் வித்தியாச விபரம்	மணி-நிமி-செ
Singapore Straits Settlements	Mean Time Difference	= — 6-55-17.4
சிங்கப்பூர் ஸ்டெபிட்டு செட்டில்மெண்டு		
India (except Calcutta)	Standard Time Difference	= — 5-30-00.00
இந்தியா (கல்கத்தா தவிர)		
Ceylon	do.	= — 5-30-00.00
சிலோன்	மேற்படி.	
Laccadive Islands	do.	= — 5-30-00.00
லகஷத் தீவுகள்	மேற்படி.	
Burma	do.	= — 6-30-00.00
பர்மா	மேற்படி.	
Straits Settlements	do.	= — 7-00-00
ஸ்டெபிட்டு செட்டில்மெண்டு	மேற்படி.	
"	do.	= — 7-20-00
"	மேற்படி.	
Federated Malay States	do.	= — 7-00-00
பெடரேட்டு மலேயா ஸ்டேட்ச்	மேற்படி.	
Union of South Africa	do.	= — 2-00-00
யூனியன் ஆப் தென் ஆபிரிகா	மேற்படி.	
Mauritius	do.	= — 4-00-00
மொருஷியூ	மேற்படி.	

N.B.—Minus sign prefixed to the Time Differences shows that the Greenwich Mean Time is less than the times of the places by the quantities shown against them.

குறைந்த குறி என்பது கீர்ன்விச்சு மீன் டயம் என்பது அந்தந்த இடங்களின் டயத்தைவிடக் குறைந்தது என்று காட்டும்.

110 Tables of Bhavas—லக்கின ஸ்புட, பாவ ஸ்புட வாக்கியம்

Ayanamsa on the 1st of Chitra (i.e. on the 13th or 14th April.)

சித்திரை மீ 1௨ அயன ஸ்புடம் அல்லது அயனாநும்சம்

English year இங்கி லீஷ்	Ayanamsa Longitude அயன ஸ்புடம்	English year இங்கி லீஷ்	Ayanamsa Longitude அயன ஸ்புடம்	English year இங்கி லீஷ்	Ayanamsa Longitude அயன ஸ்புடம்
வருஷம்	பாகை—கலை	வருஷம்	பாகை—கலை	வருஷம்	பாகை—கலை
1840	21—29	1872	21—56	1904	22—23
1841	21—30	1873	21—57	1905	22—24
1842	21—31	1874	21—58	1906	22—25
1843	21—32	1875	21—59	1907	22—26
1844	21—33	1876	22—0	1908	22—26
1845	21—34	1877	22—0	1909	22—27
1846	21—35	1878	22—1	1910	22—28
1847	21—35	1879	22—2	1911	22—29
1848	21—36	1880	22—3	1912	22—30
1849	21—37	1881	22—4	1913	22—31
1850	21—38	1882	22—5	1914	22—31
1851	21—39	1883	22—6	1915	22—32
1852	21—40	1884	22—6	1916	22—33
1853	21—40	1885	22—7	1917	22—34
1854	21—41	1886	22—8	1918	22—35
1855	21—42	1887	22—9	1919	22—36
1856	21—43	1888	22—10	1920	22—37
1857	21—44	1889	22—11	1921	22—37
1858	21—45	1890	22—11	1922	22—38
1859	21—45	1891	22—12	1923	22—39
1860	21—46	1892	22—13	1924	22—40
1861	21—47	1893	22—14	1925	22—41
1862	21—48	1894	22—15	1926	22—42
1863	21—49	1895	22—16	1927	22—42
1864	21—50	1896	22—16	1928	22—43
1865	21—50	1897	22—17	1929	22—44
1866	21—51	1898	22—18	1930	22—45
1867	21—52	1899	22—19	1931	22—46
1868	21—53	1900	22—20	1932	22—47
1869	21—54	1901	22—21	1933	22—47
1870	21—55	1902	22—21	1934	22—48
1871	21—55	1903	22—22	1935	22—49

Ayanamsa on the 1st of Chitra (i.e. the 13th or 14th April)

சுத்திரை மீ 1௨ அயன ஸ்புடம் அல்லது அயனம்சம் — துடர்ச்சி

English years இங்கி லீஸ்	Ayanamsa Longitude அயன ஸ்புடர்	English years இங்கி லீஷ்	Ayanamsa Longitude அயன ஸ்புடர்	English years இங்கி லீஸ்	Ayanamsa Longitude அயன ஸ்புடர்
வருஷம் பாகை—கலை					
1936	22—51	1958	23—08	1980	23—27
1937	22—51	1959	23—09	1981	23—28
1938	22—52	1960	23—10	1982	23—28
1939	22—53	1961	23—11	1983	23—29
1940	22—53	1962	23—12	1984	23—30
1941	22—54	1963	23—13	1985	23—31
1942	22—55	1964	23—13	1986	23—32
1943	22—56	1965	23—14	1987	23—33
1944	22—57	1966	23—15	1988	23—33
1945	22—57	1967	23—16	1989	23—34
1946	22—58	1968	23—17	1990	23—35
1947	22—59	1969	23—18	1991	23—36
1948	23—00	1970	23—18	1992	23—37
1949	23—01	1971	23—19	1993	23—38
1950	23—02	1972	23—20	1994	23—39
1951	23—02	1973	23—21	1995	23—39
1952	23—03	1974	23—22	1996	23—40
1953	23—04	1975	23—23	1997	23—41
1954	23—05	1976	23—23	1998	23—42
1955	23—06	1977	23—24	1999	23—43
1956	23—07	1978	23—25	2000	23—44
1957	23—08	1979	23—26		

C. G. Rajan's Astrological Books, etc.

(1) **RAJA JOTHIDA GANITHAM** :—(IN English) is a book of Planetary tables for 6300 years *i.e.* from 3200 B.C. to 3100 A.D. It is based on up to date American and European astronomy. It enables the quick calculation of the Geocentric Longitudes and Latitudes of all the nine Indian planets correct to the nearest minute of arc at any moment between 3200 B.C. and 3100 A.D. This book deals with the following points *viz* (1) Siderial time, with 8 tables to calculate Siderial time for any moment between 1800 A.D. and 3100 A.D. (2) Eclipses with rules for the calculation of eclipses according to the Saros of the Chaldeans (3) conversion of Celestial longitude and latitude into Right Ascension and declination and vice versa, (4) Several kinds of time in use, (5) Rising and setting of the Heavenly bodies (6) Rising and Setting of the Sun (7) Standard times of Sunrise and Sunset (8) The Rising and setting of the Moon. Mars, Mercury, Jupiter, Venus, and Saturn (9) Rising and setting of Zodiacal Signs (10) Calculation of the *Lagna* and *Bhavachakra* (11) Calculation of Cusps of houses practically (12) *Ayanamsa* and conversion of *Sayana* longitude into Hindu Spherical Coordinates (14) Tables of conversion of Tropical longitude into Tropico. Polar longitude (15) Tables of Hindu latitude (16) Tables of Hindu *Kranti* (17) Tables of European declination (18) Equation of time. 510 pages, royal size, Calico cloth bound. Price Rs. 5-0-0 Net, (postage extra). In Tamil also Pages 564 Rs. 5-0-0.

(2) **JATHAKA GANITHAM-1st PART** :—(or *Jyothida Graha Shadbhalam* and *Ayur Ganitham*) 3rd edition in Tamil. It is a Mathematical Astrological book and is based on the rules of *Sripathi's Jathaka Karma Paddhadhi* which is a book of Hindu calculations. It has over 48 tables to serve as ready reckoners, to cast *Dasavargas*, to erect *Bhavachakra*, to calculate the *Shadbhala* of planets according to *Sripathy*, to calculate longevity according to the methods of *Ayurdhaya* given in *Brihat Jataka*, and to calculate the *Sputa* of the ten *Upagrahas*. It has numerous examples. The methods of casting and calculating the *Bhavachakra*, planetary *Shadbhalas* and longevity are shown

with reference to an illustrative horoscope. The 3rd edition contains the newly added matter about the moments of Graha Uva, Uvantham, Vakra Arambam, Vakra Nivarthi and the longitudes of the planets at these moments for the years from 1891 to 1941 A.D. to enable the calculation of Chesthta Bhala of planets—This book will serve also as a commentary to Sripathi's Jathaka Karma Paddhadhi and Varahamihira's Brihat Jataka. This is approved by the Madras Text Book Committee for library use. Demi, Octavo. Pages 346. Price Rs. 2-8-0

(3) JATHAKA GANITHAM-2nd PART:—(or Jathaka Phala Phalangal Nirnayam)—In Tamil 416 Pages. In this book, the Dwadasa Bhava Phalam *i.e.* the effects of the twelve houses and the events to be predicted from the twelve houses and the planets in them have been determined with reference to the Shadbhala strength of planets and also with reference to the individual Elements of strength *viz.* Oocha Bhala, Dig Bhala, Paksha Bhala, Graha Uddha Bhala, Hora Bhala, Avana Bhala, Graha Drishti Bhala, and other Bhalas constituting the twenty four Bhalas referred to in Jathaka Ganitham Part 1. It contains also methods to determine planetary strength approximately by those who cannot take the trouble of actual calculation of strength according to Hindu Astrological methods in Jathaka Karma Paddhadhis. It contains important and valuable astrological dogmas, rules, and aphorisms about predictive or judicial astrology extracted from important and classical Hindu Astrological books and also from some important Nadi Granthas such as Sukra Nadi, Kerala Nadi, Dhruva Nadi, Satya Samhita, Bhṛighu Samhita, Sarvasingraha Nadi and Yogha Nadi. It is a very useful book to make predictions according to Hindu Astrology. Price Rs. 2-12-0.

(4) JATHAKA GANITHAM- 3rd PART:—(or Jathaka Raja Mano Itanjitham Malu 1)—In Tamil-558 Pages.—It contains from one hundred and sixty five to two hundred and sixty four rules or dogmas (*i.e.* graha yogas) for each of the twelve lagnas arranged lagnawar (*i.e.* in all 2511 graha yogas etc.

for 12 lagnas extracted from Nadi Granthas such as Sukra Nadi, Kerala Nadi, Dhruva Nadi, Satya Samhita, Bhrighu Samhita, Sarvasangraha Nadi, and Yoga Nadi. These dogmas or rules are those given by such eminent classical astrologers as Vriddha Vasisthar, Parasara, Narathar, Kasipar, Jaimuni, Gargar, Bhrighu, Satyachari, Manu Vishnu, Eswarar, Yavanar, Mayan etc. These dogmas give many details about all the life events of the native of the horoscope, his father, his mother, his brothers and sisters, his father's brothers and sisters, his maternal uncle, his step-mother, his step-brothers and step-sisters, his wife's father etc.—It makes also far reaching predictions which cannot be made ordinarily even by astrologers who are considered to be much above the average astrologer. These dogmas predict events with reference to lagna rasi, position of planets, planetary aspects and mutual aspects and inter-actions among planets taking into account for an event several planets and factors at a time such as Bhava Karaki points, Graha Karaka points and positional strengths such as Orcha, Neecha, Swakshetra, Satru, Rasi position and also, Kendra, Thirikona etc. positions. Thus these dogmas save the astrologer from the great trouble of (1) intelligently putting together the numerous factors that have to be taken into account, considered well and weighed in the mental balance with references to their *pros* & *cons* for a point in life and (2) of thus finding the sum total or resultant planetary force causing a native's event in life. This book will be of very great help to an astrologer if the planetary Yogas in the horoscope under his "scrutiny or examination agree with, or even approximate, the dogmas or planetary yogas set forth in it and he will be able to construct the whole, or a portion of the life history of the native of the horoscope according to the number of yogas found in it as applicable to the horoscope under scrutiny. Price Rs. 3-4-0.

(4) JATHAKA GANITHAM— 4th PART:—(or Jathaka Raja Mano Ranjitham, Malar 2—In Tamil—320 Pages—It contains from ninety to one hundred and fifty eight rules or dogmas

(i.e. graha yogas) for each of the twelve lagnas arranged lagnawar (i.e. in all 1550 graha yogas for 12 lagnas extracted from Nadi Granthas referred to in Malar No. 1 mentioned above. This book is a continuation or a subsequent part of Jathaka Raja Manoranjitham Malar 1 described above. For further details read the description given in Malar I above. Price Rs. 2-4-0.

(5) BRIHAT JATAKA OF VARAHAMIHIRA-2nd (Edition)
—In Tamil. This is a Translation of Brihat Jataka of Varahamihira a standard and classical book on predictive astrology. It has copious notes and information gathered from other books, Chapter VII which deals with Ayurdhaya and the chapters on Raja yoga, planetary combinations for yogas and Nabasha and Sankya Yogas are exhaustively dealt with. It contains also some useful tables to cast Saptavargam and to calculate Drig Bhala of planets. This is approved by the Madras Text Book Committee for library use. Demi, Octavo, pages 318.

Price Rs. 2-0-0. Postage extra.

(6) DASA BOOKTHI CHINTAMANI :— (or Vimshottari System of Planetary Periods and Sub-Periods)—In Tamil—Pages 312. This gives planetary effects that occur in each planetary main period and in each planetary sub-period of main period. It predicts events in a native's life with reference to planetary positions in Rasichakra and Bhuvachakra and with reference to planetary combinations, aspects and inter-actions. The events in sub-periods are given with reference to the position of the lords of the sub-periods from the lagna and also from the lord of the main periods. The author of this book is Komadam Joshia Srinivasa Iyyengar of Sendamangalam. It has a foreword by C. G. Rajan B.A. Price Rs. 1-8-0.

(7) JATHAKA DASA HARISHTA NIVARANI (i.e. the Book of Expiatory and Propitiatory Ceremonies) In Tamil Pages 86. This book gives a detailed description of Sandhis to ward off evils, bad planetary effects and gandams that may occur in planetary main periods and sub-periods. It is a compa-

nion volume of the Dasa Bookthi Chintamani. Its author is Komadam Joshier Srinivasa Iyyengar of Sendamangalam—Price Re. 0-6-0.

(8) JATHAKA SARVRTHA CHINTAMANI by Sri Venkatesa Daivagna—in Tamil is in print and will be out soon.

N.B.—The above books are available with :—

- (1) C. Viswanatham & Co.
7, Venkatesa Maistry Street,
Near Krishnappa Naick Tank.
Sowcarpet Post, Madras.
- (2) C. Subramaniam.
70, Patel Road, Perambur,
Perambur Post, Madras.

