Besides the above nine planets, Indian astronomers take into account a starry sphere in the sky called Saptarsis and the star called Dhruya.

1) $S\bar{u}rya$. The sun gives light to all the other planets. It has an area of 50 crore yojanas and its distance from the earth is 22 crore yojanas. Śūrya exists within the universe, and is called also Martanda as it originated from dead (mṛta) egg (aṇḍa). Sūrya divides the sky, heaven, hell, the earth, east, west, north, south etc. from one another. According to the course of Sūrya three periods of time or 'seasons' like uttarayana, daksināyana and visuvat are caused. Five months from May is the uttarayana period, five months from November the daksinayana period, and the months of April and October are the Visuvats. Since during the uttarāvana the sun rises up comparatively slowly (mandagati) during this period the day is longer than night. As in daksināyana the course of the sun is quicker in pace (Sighragati) night is longer than day, and during visuvat, (samagati) day and night are of equal duration.

The other planets have three positions called Jaradgava, Airāvata and Vaiśvānara, the first being the central position, the second the northern position and the third the southern position. Nine stars, Aśvini, Bharani, Kṛttikā, Rohiṇī, Mṛgaśiras, Ārdrā, Punarvasu and Pusya occupy the Airavata vithi (northern position or segment). Another nine stars, Maghā, Pūrva Phalgunī, Uttara Phalgunī, Hasta, Citrā, Svātī, Viśakhā, Anurādhā and Jyesthā occupy the central position, and the last nine stars, Mūla, Purvāsādha. Uttarāṣāḍha, Śravaṇa, Śraviṣṭhā, Śatabhiṣak, Purvaprosthapada, Uttaraprosthapada and Revatī occupy the southern position.

To the east, south, west and north of Mount Mahameru exist Devadhānikā (Indrapurī) Samyamanī (Yamapurī) Nimlocani (Varunapuri) and Vibhavari (Kuberapuri) respectively. When Sūrya appears in Devadhānikā it will be dawn, when he has travelled to Samyamani it will be noon, when he is in Nimlocani it will be sunset and when he is in Vibhāvarī it will be mid-night. This is how Surya circles the Mahameru. Within 15 nādikās (6 hours) the sun travels $2\frac{1}{2}$ errores plus $2\frac{1}{2}$ lakes of yojanas. Sūrya's chariot has one wheel and twelve spokes. The wheel represents a year and the twelve spokes stand for the twelve months of the year. The chariot has also three nabhis representing the three cāturmāsyas, and six bands representing the six seasons. The height of the chariot is 36 lakhs yojanas and it has a width of 8 yojanas inside. Arunadeva is the charioteer, and the seven chandas are the horses. The seven chandas are, Gāyatrī, Brhatī, Usnik, Jagatī, Tristubh, Anustubh and Pankti).

Night is called Uṣā and day Vyuṣṭi and the time in between is Sandhyā. When Sandhyā begins the terrible Rākṣasas called Mandehas attempt to consume Sūrya. They have been granted the boon that everyday they will be dying though they may not be losing their bodies. So, everyday there rages a fierce fight between them and Surya. When the fight is on, noble brahmins throw up water sanctified by Gayatri mantra with 'Om'. The water turns into Vajrāyudha and burns the Rākṣasas to ashes. The first offering in Agnihotra is made with the recitation of the mantra beginning 'Sūryo Jyoti' because of which the sun is able to shine

with thousands of rays with the result that the Rāksasas are burned to death. The Balakhilyas who number more than 60,000 form Sūryā's body-guard. (See under Sūrya for Purānic stories about him).

2) Candra. (The Moon). Candra exists at one lakh yojanas away from Sūrya, and it revolves round the earth. A candra month of twentyseven days is divided into twelve rāśis (houses) viz. Simha (Leo), Kanyā (Virgo) Tulā (Libra) Vṛścika (Scorpio) Dhanus (Sagittarius) Makara (Capricorn) Kumbha (Aquarius) Mīna (Pisces) Mesa (Aries) Vrsabha (Taurus) Mithuna (Gemini) and Karkataka (Cancer). Every month Candra stays in each of the above houses only

for $2\frac{1}{4}$ days.

The full moon makes Pitrs happy, divides the month into two halves, Kṛṣṇa Pakṣa (the dark fortnight) and Sukla Paksa (the bright fortnight) and functions as the very life of all living beings. The twentyseven stars from Asvinī to Revatī are the wives of Candra. There is another view that Candra has twentyeight wives including another star called Abhijit. Candra has another name, Sarvamaya. Candra with his pleasing rays, as sweet as Amrta (Nectar) bestows happiness on devas, Pitrs and all other living beings. So he is called

Sarvamaya.

Candra's chariot has three wheels. Ten beautiful horses white as Jasmine flowers draw the chariot. These horses also like those of Sūrya live for a Kalpa era. Because the Devas drink its digits Candra wanes into one digit (Kalā). Then Sūrya makes him wax again with one single ray of his called Susumna. When only two Kalas of his remain Candra enters the orbit of Sūrva and stays there in the ray called 'ama', and that day, therefore is called amāvāsyā. And on that day Candra enters waters for the first time, and after that dwells in trees, creepers etc. While Candra is thus in trees etc. those who cut them will be committing the sin of brahmahatyā. (slaughter of a brahmin). When only a little of the 15th kala remains on new moon day hordes of Pitrs gather round the enfeebled Candra to drink him, and they drink the amrta kala, one of the two kalas still remaining with him. Thus the three classes of Pitrs, Barhisadas, Saumyas and Agnisvāttas get absolutely satisfied for one month. Thus Candra nurtures Devas in the Sukla Paksa and pitrs in Krsna Paksa, and grows trees, creepers etc. with life-giving water. (For details see under Candra).

3) Sukra (Venus). Sukra is an auspicious Deva very much interested in doing good to the world and making people happy. His course is also, like that of Surya, of three types, intense (quick), slow and of equal pace. Two-and-a-half yojanas above Sūrya, Sukra follows a course alternating in front of and behind Sūrya. Šukra never goes very far away from Sūrya, and he possesses a big chariot drawn by horses from earth. (For details

see under Sukra).

4) Budha (Mercury). Though inherently auspicious Budha, in contact with inauspicious planets takes their character and becomes weak. Budha also has the three paces, quick, slow and medium. Budha moves close to Surva and if he moves from Surva storms, failure of rain etc. will be the result. He is considered to be the son of Candra. His chariot is made of wind and fire, golden in colour and is drawn by eight horses having the speed of wind. (See under Budha for more details).