

# CHAPTER – 1

## INTRODUCTION

### 1.1 *Tantra*

*Tantra* comes from root words “*Tatri*” or “*Tantri*” means origination or knowledge (Lokeshwaranandan, 1986). The word *Tantra* consist of two words *Tana* and *Tre*. It means through *Sādhana*, *Pūjā* and *Bhakti* one can achieve complete desiers (Chawdhri, 1992).

तन्यते विस्तार्यते ज्ञानं अनेन इति तन्त्रम् ॥

*Tanyate vistāryate jñānam anena iti tantram* ॥

By the scripture knowledge is spreading. *Tantras* are not books of sorcery or witchcraft, magic, spells and formula. They are wonderful scriptures. All persons without the distinction of caste, creed or color can attain spiritual strength, wisdom and eternal bliss. *Tantra* is a *Gupta Vidyā* (Sivananda, 2000).

### 1.2 *Mantra*

The word *Mantra* invokes sacred, divine and pious feeling in us. It consists of two words *Mana* means mind and *Trai* means to protect. It is a spiritual tool to awaken the power which is present within us (Amin, 2004). The sound of the *Mantra* is rhythmical vibration (Sivananda, 2000). The vibration created a word. The word created a sound. The sound created the energy field. The energy field helps to attain eternal bliss or inner bliss (Amin, 2004).

### 1.3 *Yantra*

The *Yantra* is comes from the Sanskrit root word ‘yam’ means supporting the core of an object and ‘tra’ comes from ‘trana’ or liberation from bondage. Therefore, *Yantra* means liberation from birth and rebirth. It is a microcosm of the universe. *Yantra* is different from *Mantra* in that, *Yantra* is the body or form of the deity, whereas *Mantra* is the mind (Das, 2017).

*Yantra* means an instrument, apparatus, an object or a spiritual diagram for *Pūjā* or *Upāsana* to attain the *Siddhi* and to attain desires (Chawdhri, 1984).

*Yantra* is a power of the form pattern which manifests the embodied deity. *Yantra* is an instrument, a machine, a store-house of power (Shankaranarayanan, 1973).

*Yantra* is a diagram, which drawn on paper or on a metal. A *Yantra* is appropriated to a specific *devatā* only (Sivananda, 2000).

*Yantra* means “aid” or “tool” which are used by yogis as aid to meditation (Pott, 1946).

*Yantras* are created through the union of various geometric forms and patterns that teach the mind the power of concentration and focus. The drawing of a *Yantra* needs accuracy, discipline, concentration, neatness and precision. The visual designs of a *Yantra* activate the right hemisphere, which is visual and non-verbal.

Through meditation on *Yantras* may magnetize prosperity, abundance, wellbeing and good luck in all spheres of life. It is believed that these can support the increasing flow of wealth. These *Yantras* can repel negative energies and maintain internal harmony among the seekers (Das, 2017).

## **1.4 Time**

Time is a force. It is also called as *Kāla* in *Saṃskṛta*. *Kāla* means bring event to pass. Time is god and god is time. The knower of god can only be the knower of the time. Even the saints on earth have not known about time completely. For the welfare of humanity, Lord *Brahma*, who is seated on the lotus, has created day, month, years, *Yugās* (Wilhelm, 2008).

## 1.5 Lunar Days

A lunar day is the length of time it takes for the moon to make one complete rotation on its axis compared to the sun. This is important because the moon is tidally locked with respect to the earth. So it is always points the same face towards the earth as it goes around the planet. And this the same time it takes for the moon to orbit around the earth. As the earth and moon are orbiting around the sun, they complete a circle over the course of the year. Each time the moon goes around the earth, it needs to go a little further to get the sun back into the same position (Cain, 2015).

The four times in each month when moon can recognize to stand at a specific quarter phase are as:

1. The new phase is when the moon appears dark.
2. The first phase is when the moon is half illuminate.
3. The full phase is when the moon is wholly illuminated.
4. The last phase is when the moon is half illuminated (Dwyer, 2008).

A *Samskr̥ta* name of lunar days is *tithī* there are 30<sup>th</sup> days in a lunar month. The first 15<sup>th</sup> days of the 30<sup>th</sup> days *tithīs* of the month belongs to *Śukla Pakṣa*. The remaining 15<sup>th</sup> days belongs to *Kṛṣṇa Pakṣa*. This *Kṛṣṇa* and *Śukla Pakṣa* are differentiation by 15<sup>th</sup> day.

### 1.5.1 Śukla Pakṣa

15<sup>th</sup> day of *Śukla Pakṣa* is called *Pūrṇimā*, which means full. End of 15<sup>th</sup> day of *Śukla Pakṣa* the moon is perfectly full.

### 1.5.2 Kṛṣṇa Pakṣa

15<sup>th</sup> day of *Kṛṣṇa Pakṣa* is called *Amāvasyā*. This means dwelling together, union of the sun and moon (Wilhelm, 2008).

### 1.5.3 Significance of *Phālgunaḥ Māsa*

According to Hindu calendar it is a 12<sup>th</sup> month which is coming in February to March. In this month climate is cool and pleasant which is called *Śīśira R̥tu*, while ending of this season temperature becoming slowly warmer. *Śīśira* word in *Saṃskṛta* meaning is cool. Lord *Viṣṇu* is very cool in his nature and who is giving a solution to those who are suffering from worldly burning passions. In *Śrī Viṣṇu Sahasranāma Stotram* *Śīśira* is one of the thousands of names of Lord Sri *Mahā Viṣṇu*. *Phālgū* is the name of a holy bank of river on the *Gayā Kṣetra* which is located in Bihar, which act as healers that helps to away and cure all illness. Full moon day in *Phālgunaḥ Māsa* is famous as *Holī* festival, that day is for worshiping Goddess *Śrī Mahā Lakṣmī*. *Holī* is also known as color festival which is celebrated with great fanfare by Hindus as well as sprinkling colors and color water on each other (Bhagavan, 2011).

### 1.5.4 Significance of *Caitra Māsa*

According to Hindu calendar it is a 1<sup>st</sup> month which also called *Madhu Māsa*. It is a beginning of spring season. Lord *Brahmā* has created the universe on this day which is celebrated as *Ugāḍī* or *Gudhī Pāḍavā*. It is also a sacred month for beginning for Vedic learning. *Madhu* means honey and *Caitra Māsa* is as sweet as honey. *Caitra* is a *Saṃskṛta* word which means a temple or a memorial. Celebrations in *Caitra Māsa* are *Gudhī Pāḍavā*, *Caitra Navarātri*, *Śrī Rāma Navamī*, *Hanumān Jayanti*, and *Ugāḍī* (Bhagavan, 2012).

In this chapter, section 1.1, 1.2 and 1.3 the concept of *Tantra*, *Mantra* and *Yantra* are discussed. And in section 1.4 and 1.5 discussed about the time and the concept of lunar days. In the next chapter the review of the literature is highlighted and briefly explained.

## CHAPTER – 2

### REVIEW OF LITERATURE

#### 2.1 Review of Ancient Literature

##### 2.1.1 *Bhāgavata Purāṇa*

शैली दारुमयि लौहि लेप्या लेख्या च सैकता ।

मनोमै मनिमयी पतिमाष्टविधा स्मृता ॥११ ७२ २ ॥

*Śailī dārumayi lauhi lepyā lekhyā ca saikatā*

*Manomai manimayī patimāṣṭavidhā smṛtā* ||11 72 2||

This *Śloka* mentioned eight different types of images. Those images made of stone, wood metal, sand, jewel and those which are in picture or plastered on conceived in mind (Chattopadhyaya, 1978).

##### 2.1.2 *Kulārṇava Tantra*

यन्त्रं मन्त्रनमयं प्रोक्तं देवता मन्त्ररूपिणी ।

यन्त्रे सा पूजिता देवी सः शैव् प्रसिदति ॥६-८५ ॥

*Yantram mantranamayam proktaṁ devatā mantrarupiṇī*

*Yantre sā pūjitā devī saḥ śaiv prasidati* ||6-85||

The *Yantra* is ensouled by the *Mantra*, and the deity is in the form of the *Mantra*. Worship of the *Yantra* is the same as worship of the deity. For each *Yantra* is the form-pattern of a particular deity. It represents diagrammatically the configuration of the lines of manifestation of deity. The soul of *Yantra* what gives life to it is the *Mantra* that is used to consecrate and energise it. And characteristic sound vibration and they constitute its sound body which is revealed to the audition of the seer in the form of *Mantra*.

कामक्रोधादि दोषात् सर्वदुःख नियन्त्रणात् ।

यन्त्रं इत्याहुरेत अस्मिन् देवः प्रीणाति पूजितः ॥६-८६ ॥

*Kāmakrodhādi doṣāt sarvaduḥkha niyantraṇāt |*

*Yantram ityāhureta asmin devaḥ prīṇāti pūjitaḥ ||6-86||*

*Yantra* are the controller of all pains arising from out of desire, anger and other feelings. That is why, it is called *Yantra*. The deity pleases when worshipped in the *Yantrās*.

शरीरमिव जीवस्य दीपस्य स्नेहवत्प्रिये ।

सर्वेषामपि देवानां तया यन्त्र प्रतिष्ठितम् ॥६-८७ ॥

*Śarīramiva jīvasya dīpasya snehavatpriye |*

*Sarveṣāmapī devānām tayā yantra pratiṣṭhitam ||6-87||*

As the body is to the *jīva* as oil is to lamp, so is *Yantra* the established seat of the Deities. The deity needs physical nodules to function in physical world. And that need is provided by the *Yantra* which a diagrammatic form is corresponding to the configuration of the force that accompany the manifestation of the deity on its own plane. When figure revealed to the vision of the seer in his *Tapasya* is drawn and concentrated upon, as it were the very condition in which the deity become manifest originally and the deity is moved to manifest in the *Yantra*. Thus the *Yantra* is more than a symbol. It is the body of the deity.

तस्माद्यन्त्रं लिखित्वा-वा ध्यायत्वा सावृत्तिकंशिवम् ।

ज्ञात्वा गुरुमुखात् सारं पूज्येत् विधिना प्रिय ॥६-८८ ॥

*Tasmādyantram likhitvā-vā dhyāyavā sāvṛttikāśivam |*

*Jñātvā gurumukhāt sārāṁ pūjyet vidhinā priya ||6-88||*

Therefore, drawing on the *Yantra* and meditation in *Śiva* in his proper form after knowing everything from the *Guru*, one should properly perform the worship.

एक पीठे पृथक्-पूजा बिना यन्त्र करोति यः ।

अंगंगित्वं परित्यज्य देवता शाप्माप्नुय ॥६-८९॥

*Eka pīṭhe pṛthak-pūjā binā yantra karoti yaḥ* |

*Aṅgaṅgitvaṁ parityajya devatā śāpmāpnuya* ||6-89||

The proper method of the worship of *Yantra* lies in the fact that each deity must be worship on separate *Yantra*. If one performs worship of different *Devatās* is the same *Pithā* without their respective *Yantra* then due to the fault of embodiment and the embodied, that *Sādhaka* entails the curse of the deities.

एक पीठे कुलेशानि स्वे स्वे यन्त्रे पृथक्-पृथक् ।

यजेदावरणोपेता देवताः तद्भिमानतः ॥ ६-९० ॥

*Eka pīṭhe kuleśāni sve sve yantra pṛthaka-pṛthaka* |

*Yajedāvaraṇopetā devatāḥ tadbhimānataḥ* || 6-90||

Hence, in same *Pithā*, worship of different deities should be performed separately in their respective *Yantra* in accordance with their respective procedures and coverings.

आवाह देवतामेकं पुज्येदन्य देवतां ।

उभाभ्यां लभते पंगः मन्तः चञ्चल-मानसः ॥६-९१॥

*Āvāḥ devatāmekam pujyedanya devatām* |

*Ubhābhyāṁ labhate paṅgaḥ mantaḥ cancala-mānasaḥ* ||6-91||

If one worships another deity then, invoking a particular different deity the *Sādhaka* of such instable mind gets the curse of both the desires.

यम भूतादि सर्वेभ्यो भये भयो-अपि कुलेश्वरी ।

त्रायते सतत्-श्रव तस्मात् यन्न ऋतिम् ॥१७-६१ ॥

*Yama bhūtādi sarvebhyo bhaye bhayo-api kuleśvarī*

*Trāyate satat-śrava tasmāt yantra ṛtim ॥17-61॥*

Because of from all beings like *Yama* etc, and even from all fear, it always saves, *Trāyate*, so on it is called a *Yantra*. Many people have seen only the pictures of *Yantrās* but most of the people have not seen even the pictures. Only a few may have seen the actual *Yantra*. As *Yantrās* are now being prepared on a commercial basis and are sold at a premium price after a lot of ads in the electronic media, it has become easy to see them. The householders can keep *Yantra* even the *Śrīyantra* and worship it as a part of daily prayer. It will be simple worshipping. But neither *Anusthāna*. Incidentally, only the pictures are given here. Pictures have only the length and width, rather reduced length and shorted width and no height at all (Prosoon, 2013).

### 2.1.3 Lalitā Sahasranama

मन्त्रराजजपश्चैव चक्रराजार्चनं तथा ।

रहस्यनामपाठश्च नाल्पस्य तपसः फलम् ॥

*Mantrarājajapaścaiva cakrarājārcanam tathā*

*Rahasyanāmapāṭhaśca nālpasya tapasaḥ phalam ॥*

The *Japa* of the king of *Mantrās*, the worship of the *Chakrās* and recital of the occult names are the fruits of on little *tapas*.

## 2.1.4 Śrī Vaśiṣṭha Gaṇapati Muni

पावकसागरकोणं यस्तव पावन्यन्त्रम् ।

पूजयति प्रतिघस्रं देवि भजामि तदङ्घ्रिम् ॥

*Pāvakasāgarakoṇaṁ yastava pāvanyantram |*

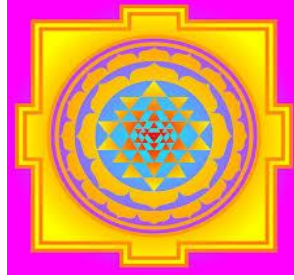
*Pūjayati pratighastram devi bhajāmi tadaṅghrim ||*

Whoever worships daily sacred *Yantra* of fortythree corners, O Goddess, his feet I adore (Shankaranarayanan, 1996).

## 2.1.5 Types of *Yantrās*

### 2.1.5.1 *Yantra* Classified into Five Types According to *Śāstrās*

1. *Bhūprasthāna Yantra*– These *Yantrās* are made from materials.



2. *Meruprasthāna Yantra* – These *Yantrās* are like mountains. At bottom they are broad, in centre small and at top they form the shape of a mountain. These are raised *Yantrās*.



3. *Patāla Yantra* – This is reverse shape of meru *Priśtha Yantra*. In other words a reverse mountain. These are carved one.



4. *Meruprastāra Yantra* – These are cut *Yantrās*.



5. *Ruram prashtha Yantra*– These are forged one. The bottom is in the shape of rectangle whereas top is like a tortoise back (Chawdhri, 1984).

There are number of *Yantras*, some of them with highly intricate designs. Each angles, each section of the figures has a particular significance representing certain truths on the subtler planes. One of most famous of these *Yantras* is the *Śrī-Cakra*. When the supreme *Śakti* of her own becoming then the *Śrī-Cakra* comes into being (Pandit, 1977).

### 2.1.5.2 Depending on their Uses *Yantras* are Divided into Seven Types

1. *Śarīra Yantra* – There are six *Chakrās* in the body, through which kundalini is awakene. These are specific *Yantrās* for each *Chakra* which are worn or used accordingly. Each *Yantra* carries separate *Mantrās* which if recited achieve different gains. These are called *Śarīra Yantrās*.



2. *Dhāraṇa Yantra*– As the name indicates, these *Yantrās* are worn on different parts of the body for specific use. They bestow the results when used accordingly. There are several such *Yantrās* and methods.
3. *Āsana Yantra*– Such *Yantrās* are kept under *Āsana* at the time of *Sādhana*. These bears fruits earlier than others. They are frequently placed under the foundations of houses and temples, as well as under deities so that there are good results within a short span of time.



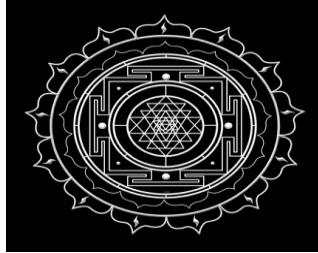
4. *Maṇḍala Yantra*–In this the *Sādhakās* are made to sit in the shape of *Yantrās* itself. Nine persons take part in it. One sits in the centre, four persons in four directions and other four are in subdirections like north east, south west, north west , south east. The central man performs *Pūjā* of *iṣṭa Mantra* whereas others recite other *Mantrās*. The *Sādhana* with this *Yantra* bears fruit early.



5. *Pūjā Yantra* –They are those which are installed in houses and temples while *Pūjā* is performed. These *Yantrās* are for different kinds and for different purposes. They may be of various deities or of the planets.



6. *Chatara Yantra* – These *Yantrās* are kept under the cap or turbon or hat or in cloth or in pocket which is kept always with man.
  
7. *Darśana Yantra*–They are those which, seen by the *Sādhaka* in the morning, are beneficial to the subject, giving him success. There are several places in the country where purified *Yantrās* have been installed, such as at the temple of Lord *Jagannātha* in *Puri* and *Śrī Nātha Devara* temple, where these *Yantrās* are performed to alleviate the trouble of people (Chawdhri, 1992).



### 2.1.6 The Composition of *Yantra*

The employment of *Yantras* for worship is widespread. Even when icons are used, it is usual to inscribe stylized and appropriate geometrical designs in front of the icon and conduct the worship rituals on them. The design signifies consecrated ground, or site on which spiritual forces are gathered. The preparation of the design involves the transformation of an ordinary ground into an effective ground. It is not the icon that transmits this power to the design, the icon derives its merit by its involvement in the design. It is the intentionality of the devotee, along with the traditionally transmitted pattern that makes the design a powerful facility. It is technically known as *Maṇḍala*.

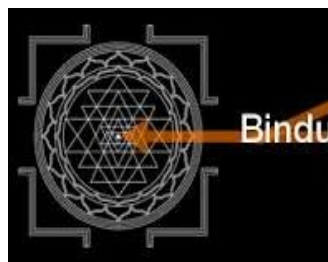
### 2.1.6.1 Maṇḍala

It is the concentration of the most significant aspect of the world in which the devotee lives and seeks to carry out his devotion. *Maṇḍala* in this sense is define as a collection of energies (*Śakti-Samūha*) and as a symbol (*Saṅketa*). *Maṇḍala* activate the energies in both, within the devotee and outside him. It gathers the essential details on all sides from the center. The center is the seed from which the tree of spritual transaction spreads aloud.



### 2.1.6.2 Bindu

Center (*Bindu*) is a significance of the midmost point or center of the *Maṇḍala*. The *Saṁskṛta* word *Bindu* also means seed, sperm, drop. It not only concentrates but becomes the dynamic starting-point. It assemble up the outside forces into a point, and beings to unfold the inner forces. It also represents the point at which the outer space and the inner space meet and have their rest. The center point is thus a union of the ultimate male principle (*Puruṣa*) and the ultimate female principle (*Prakṛti*), the former is the principle of consciousness (*Śiva*) while the latter is energy (*Śakti*). The symbolism permeates the whole composition of *Śrī-Cakra*, which is described as body of *Śiva* (the passive male and the active female).



### 2.1.6.3 Śrī-Cakra

Śrī-Cakra is also called as Śrīyantra. Śrī-Cakra is essentially worship of the mother-goddess. The diagrammatic representation involves the basic form of triangle (Rao, 1989).

According to *Lalithā-Triśatis*

चतुर्भिः शिवचक्रैः शाक्तिकैश्च पञ्चभिः ।

नवचक्रैश्च सन्सिद्धं श्रीचक्रं शिवयोर्वपुः ॥

*Caturbhiḥ śivacakraiḥ śāktikakraiśca pañcabhiḥ*

*Navacakreśca sansidhdam śrīcakram śivayoorvapuh* ॥

Śrī-Cakra is essentially a pattern of interwoven triangles, nine in number of which represent the male principle, identified with *Brahma*, *Rudra*, *Īśvara*, and *Sadāsiva* and five female principle identified with *Śrī-Vidyā*, *Tvaritā*, *Rāja-Rājeśvari*, *Tripurā*, and *Pañcabāṇesi* (Rao, 1857).



### 2.1.7 R̥gveda

गुहा त्रीणि निहिता नेङ्गयन्ति तुरीयं वाचो मनुष्या वदन्ति ।

*Guhā trīṇi nihitā neṅgayanti turīyaṁ vāco manuṣyā vadanti* ॥

The three steps of word are hidden and the fourth step is available to man for articulate speech. The primary impulse to manifest rises in a crescendo of *Nāda*, swells in peals of *Śabda* and goes on reverberating till its faint cadences are caught in the articulate speech of man. The alphabets are the foundation on which the structure of the speech and language is raised (Shankaranarayanan, 1996).

## **2.1.8 Relation between Moon and Earth**

The moon orbit around earth affects the rising and falling tides, the earth affects by gravitational pull of the sun and the moon. But the effects of moon are more because it is 390 times closer to the earth. Rainfall (water content of the earth) is affected by the cycles of the moon tides. The highest rainfall occurs just after the full and new moon. Gravitational pull of the moon also affects the air currents on the surface of earth. This influences the growth of plants, because plants are very sensitive to tiny energy fluctuation (Crawford, 2005).

### **2.1.8.1 Effect of Moon Phases**

In the leguminous plants soybean, peanut, and clover, while sleep movements change the position of the leaves from horizontal to the vertical at night due to photoperiodic perception in the leaves. This behavior reduces the intensity of light falling on the leaf surface. In some nyctinastic plants such as *albizzia*, *sainanea*, and *cassia*, are not only turn vertically at night, but also rotate on their axis in that paired leaf fold together, with the upper surfaces shading each other, the upper surface is more sensitive to light breaks than is the lower surface. Some long-night plants flower most effectively when grown in low intensity light (approximately 0.5 lux) rather than complete darkness during the night. In these plants, moonlight increases the number of flowers produced by a short-day (Plantguy, 2009).

Despite some strong evidences on the influence of lunar phase on certain biological activities as germination rate as study done by Maw in 1967, water absorption study by Brown & Chow in 1973 and metabolism study by Brown in 1960 no definitive results and not clear suggestion seems to be finding until now on the influences on crop yield or animal production. By Zuercher *et al.* in 1998 found that an effect of lunar rhythms on the germination and rate of growth of tropical trees. The percentage of germination and successive rate of growth were highest when seeding took place two days before full moon. Furthermore, the magazine nature published observations which showed that tree trunks expand and contract in conjunction with the cycles of the tides (Sparacino, Porro, & Valenzi, 2011).

In 1952 by Thun has done experiment on effect of moon on potatoes in different zodiac signs. Result found that potatoes did better plant while moon was clearly positioned in earth signs than

at other time. By Kolisko in 1930 investigated the effect of the phases of the moon on seed germination and growth by using wheat. Result showed that at the full moon seeds were germinated faster and more effectively. At the new moon gave the unsuccessful results (Crawford, 2005).

Lighter full moon wood is actually softer with lower compression strength than heavier new moon wood, being more acceptable for construction. Lighter wood could be somewhat more burnable due to a higher water loss and to a better passage of air than dense wood, and produce a better firewood quality. Norway-spruce wood of the lowland regions grows much faster, is lighter and is more easily attacked by fungi and decay than the wood of huge regions. In this sense, dense new moon wood could be more unaffected to decay than lighter full moon wood (Sciences, 2001).

### **2.1.9 Electromagnetic Fields (EMFs)**

EMFs have magnetic and electrical field which is present surround the objects with an electrical charge which will interact with other objects within that field. Like earth has an electromagnetic field because of movement of electrons within the core. Electric field work as strength of the charge and magnetic fields work as a motion of the charge. The fields exist with fluctuating strength and degrees, and wavelength and frequency will determine how it behaves.

#### **2.1.9.1 Effect of EMFs**

Belyavskaya in 2004 found that weak electromagnetic fields suppressed the growth of plants, reduction in cell division, increased protein synthesis and also disintegration in plant roots. Same study is done by Vishki *et al.* in 2012 found an increase in plant growth and in other study by Davies in 1996 found some seeds increased in growth and others showed no change. Pazur *et al.* in 2006 found that exposure to weak EMFs remove calcium ions from cell membranes manipulating calcium availability and thereby affecting plant processes and ability to respond to stress (Chantelle, 2013).

Magnetic water treatment (MWT) has opened new research avenues in agriculture. Safety, compatibility, simplicity, environmentally friendliness, low operating cost and not harmful

effects are the main advantages of this technique. In magnetic field (MF) treatments have shown beneficial effects on the germination of seeds, plant growth and development, the ripening and yield of field crops. The main challenge in applications of magnetic water in agriculture is efficient integrating of irrigation components, designing suitable pumps well-matched with technical and field requirements of magnetic water treatment systems (Ali, Samaneh, & Kavakebian, 2014).

### **2.1.10 Effect of Positive and Negative Ions**

Tesla was done the experiment on electromagnetic flux and gravitational field. He discovered that the ions movement would modify, when it was charged by radio wave transmissions in the low frequency range of 10 to 80 hertz. And it also causes the movement of positive and negative ions by the manipulating of radio frequency. Further studies indicated that with positive ionization, people and animals became tired and lethargic and with negative ionization feeling active and energetic. Ions are moving in the air around us. It has negative or positive charges. Humans, animals and plants also have effect of changes in the concentration or ratio of positive to negative charged. Negative ions are extremely movable and surface of the earth has a negative charge which repelled from the earth. Negative ions are very much beneficial for human's metabolism to enhancing the human behavior. Positive ions or lack of negative ions cause hyper function syndrome or irritation syndrome which involves sleeplessness, irritability, tension, migraine, nausea, heart palpitations, sweating, tremor and dizziness (Ian & Balick, 2010).

## **2.2 Review of Scientific Literature**

Jungyun (2016) studied on seed germination test with influence of *Mahā Mr̥tyuñjaya Mantra*, *Śrīyantra* and pyramid. In design one two types of pyramids and paper *Śrīyantra* was used to see influence on germination of green gram seeds. The control samples were kept under filter paper. Design 2 to see influence of *Mahā Mr̥tyuñjaya Mantra* on fenugreek seeds. Result showed that *Śrīyantra*, pyramids and *Mantra* showed positive influence on germination, radical length, fresh weight and dry weight of germinated seeds compared to control sample. Limitation of the study indicated that variation of temperature at day and night for each trial, size of plywood pyramid and plastic pyramid is not same and non uniform size between *Śrīyantra* and pyramid.

Keerthika (2016) studied on the nutritional and quality characteristics of cucumis sativus varieties. Two different varieties of cucumbers, *Prāṇic* treated raw cucumbers and control varieties were studied for their storage stability in two different temperatures, room temperature 18 to 33°C (RT) and refrigerated temperature 4°C. The different varieties were analyzed for physical, nutritional, functional and quality parameters. Result showed that *Prāṇic* treated samples showed better stability at room temperature and refrigerated storage.

Jois (2016) investigated the physico-chemical qualities of tomato fruits as influenced by *Prāṇic* treatment an ancient technique for enhanced crop development. At the different temperatures refrigerated condition (4° C) and room temperature (26° C) tomatoes were stored at for 15 days, for observations such as quality and quantity by measuring the overall yield, plant height, diameter of the stem, flowers, and flowers per truss and also self-life of tomatoes. Result was found *Prāṇic* group plants got increase in height, more stem diameter and more flowers in per plant as compared to control.

Kshirsagar (2015) find the effects of *Vedic Mantrās* on plants. *Mantrās* are *Om*, *Gāyatrī* and *Mṛtyuñjaya* along with control group. Three plants were used *Tulasī*, Rose and *Gajanīya* to study different parameters like height, number of flower, number of branches and number of leaves. The experiment was conducted in different area and different seasons. Result showed a *Gāyatrī Mantra* effect on increase of the leaves of Rose and the height of *Tulasī* plants. *Mṛtyuñjaya Mantra* showed effect on increase on the height of *Tulasī* plant. But *Om Mantra* increased the leaves of *Tulasī* and height of *Gajanīya* plant. There were effects of all the three *Mantrās* on the increase in number of flowers of the two plants namely, Rose and *Gajanīya* was found to be insignificant in this study. Limitation of the study indicated that this study was pilot study. Experiment of long duration need to be study.

Deep (2014) studied on the macronutrient potassium (K) variation in mung bean sprouts with lunar phases. Lunar activity on sprouting of mung beans in terms of K nutrient and length of the sprout are measured. Result found the K nutrients are more in sprouts as compared to the original

seeds. Limitation of the study indicates that did not measure the isotope of K to know its isotope transmutation.

Kumar (2011) studied on the different pyramids, their materials and shapes on emergence, radical growth and seedling vigor of fenugreek. Two models are used, one of them plywood pyramid and other one of fiberglass pyramid and shape using square and octagonal. Result showed positive influence of pyramids. Limitation of the study indicated that the study of 2<sup>nd</sup> and 4<sup>th</sup> day measurement is not carried on the same seeds, temperature changes could have been a predominate factor, there was no control study with non-pyramidal shape, only two pyramids in each study is carried out, needs more number of pyramids.

Gopinath (2008) investigated on effect of pyramid on preservation of milk. Milk kept under the pyramids for periods of 14 days. And shape used square and octagonal. Results showed that wooden pyramid has shown better result than the fiberglass pyramids on preservative capacity. And also octagonal pyramids have shown better result than square. Limitation of the study indicated that study was essentially an exploratory pilot study to scientifically document the preservative effect of the pyramid power.

Piszczek (2008) had studied on the effect of the colour of light on cucumber seedlings. Seedling was done under daylight and blue light of greenhouse variety of cucumber. The seedlings were assessed in terms of growth dynamics, features and the concentration of selected pigments in fresh leaf weight. Result was found that plants growing under blue lamps were taller, had longer internodes, a thicker stem and a higher dry matter content in fresh shoot weight and number of leaves was not dependent on either the colour of light or the level of quantum irradiance.

Kumar (2005) investigated on effect of pyramid on growth of microorganisms in milk sample. Five models are used, four of them pyramidal shape and fifth of them flat roof. The control milk sample was kept in the open. Result showed that a conical pyramid structure was to be more effective than a flat-roofed structure, and wooden structure was not as effective as plastic structure on pH value, odor, colour, state of the sample and microorganisms count. Limitation of the study indicated that did not measure the temperature inside the pyramid during the testing.

Devi (2004) investigated on effect of *Agnihotrā* on the germination of rice seeds. Rice seeds were germinated in four rooms for periods of 15 days. One room used as control under normal conditions, in the second room fire was lit in specific periods at sunrise and sunset. In third room *Agnihotrā Mantra* was chanted at the same time without fire. In the last room *Agnihotrā* was done along with specific *Mantra* with use of sacrificial fire, at sunrise and sunset. Result showed an *Agnihotrā* influenced on root length, fresh weight and dry weight of seed germination from the very first day itself. Limitation of the study indicated that in this study only male recited the *Mantra* in the room while the sacrifice was being done but the effects of female voices or recorded voices need to be study.

Moon (2000) examined on acceleration of germination of tomato seed by applying AC electric and magnetic fields. The seeds were treated with AC electric fields ranging from 4 to 12 kV/cm and AC magnetic flux densities ranging from 3 to 1000 G, and were exposed to three time periods ranging from 15 to 60 s with corresponding equal rest time periods. The treated sample seed were compared with the untreated seed germinated which was in under normal conditions. Result was found that the percent germination rates of the treated tomato seed were faster compared with the untreated seed.

Kollerstrom (2001) had developed a procedure of sowing according to the position of the moon in front of the twelve astrological constellations. These constellations were classified into four groups according to the element (earth, water, air and fire) on root, leaf, flower and fruit crops which is astrologically related with them. Result shown root, leaf, flower and fruit crops were increased yields when the moon stood before earth, water, air and fire constellations, individually.

Summary of the review of scientific research literature and incorporation of factors in the present study

Sl. No.	Author Name	Title	Parameter	Limitation
1	Jungyun, Jeeye, & Kumar (2016)	Seed germination test with the influence of <i>Śrīyantra</i> , pyramid and <i>Mahā Mrtyuñjaya Mantra</i> .	Radical length, fresh weight and dry weight of germinated seeds.	Variation of temperature at day and night for each trial, size of plywood pyramid and plastic pyramid is not same, non uniform size between <i>Śrīyantra</i> and pyramids.
2	Keerthika, Devaki, Suma, & Urooj (2016)	Studies on the nutritional and quality characteristics of cucumis sativus varieties.	Physical, nutritional, functional and quality parameters.	The number of samples used in the study has not been mentioned.
3	Jois <i>et al.</i> (2016)	Physico-chemical qualities of tomato fruits as influenced by <i>Prānic</i> treatment an ancient technique for enhanced crop development	Quality, quantity, overall yield, plant height, diameter of the stem, flowers, flowers per truss and also self life of tomatoes	The number of samples used in the study has not been clearly mentioned.
4	Kshirsagar & Ekbote (2015)	Effects of <i>Vedic Mantra</i> on plants.	Flowers, leaves and height of plants.	This study was pilot study. Experiment of long duration need to be study
5	Deep & Mittal (2014)	Macronutrient potassium variation in mung bean sprouts with lunar phases.	Potassium nutrient and length of the sprout.	Did not measure the isotope of potassium to know its isotope transmutation.
6	Kumar (2011)	Influence of pyramids on germination and growth of fenugreek	Shapes on emergence, growth and seedling vigor of fenugreek.	The study of 2 <sup>nd</sup> and 4 <sup>th</sup> day measurement was not carried on the same seeds, temperature changes could have been a predominate factor, there was no control study with non-pyramidal shape, only two pyramids in each study was carried out,

				needs more number of pyramids.
7	Gopinath, Nagaraja & Nagendra (2008)	The effect of pyramids on preservation of milk.	Preservative capacity.	Study was essentially an exploratory pilot study to scientifically document the preservative effect of the pyramid power.
8	Seedlings, Piszczek & Gàowacka (2008)	Effect of the colour of light on cucumber seedlings.	Dynamics, features and the concentration of selected pigments in fresh leaf weight.	The number of sample size is used in the study was small.
9	Kumar, Swamy & Nagendra (2005)	Effect of pyramids on microorganisms.	pH value, odor, colour, state of the sample and microorganisms count.	It did not measure the temperature inside the pyramid during the testing.
10	Devi, Swamy, & Nagendra (2004)	Effect of <i>Agnihotrā</i> on the germination of rice seeds.	Root length, shoot length, fresh weight, and dry weight	In this study male recite the <i>Mantra</i> in the room while the sacrifice was being done. The effects of female voices need to be study.
11	Moon & Chung (2000)	Acceleration of germination of tomato seed by applying AC electric and magnetic fields.	Percent germination rates.	-----
12	Kollerstrom & Staudenmaier (2001)	Evidence for lunar-sidereal rhythms in crop yield.	Root, leaf, flower and fruit crops.	-----

No literatures is found about the germination of seeds with influence of subtle energy of *Śrīyantrās* and lunar days, hence this study was taken.

In this chapter, relation with *Mantra* of *Yantra*, types of *Yantra* and composition of *Yantra* are discussed in section 2.1, and in 2.2 briefly explained about the scientific review. In next chapter aim and objective of the study is explaining.

## CHAPTER – 3

### AIM AND OBJECTIVES OF THE STUDY

#### 3.1 Aim

To study the influence of *Śrīyantrās* and lunar days on the germination of seeds.

#### 3.2 Objectives

- a. To study the effect *Śrīyantrās* on the emergence, radical length, fresh weight and oven dry weight.
- b. To study the effect of size of *Śrīyantrās* on the emergence, radical length, fresh weight and oven dry weight.
- c. To study the effect of materials of *Śrīyantrās* on the emergence, radical length, fresh weight and oven dry weight.
- d. Effect of lunar days on the emergence, radical length, fresh weight and oven dry weight.

#### 3.3 Research Question

- a. Is there any effect of *Śrīyantrās* on the emergence, radical length, fresh weight and oven dry weight?
- b. Is there any effect of size of *Śrīyantra* on the emergence, radical length, fresh weight and oven dry weight?
- c. Can the materials of the *Śrīyantra* influence on the emergence, radical length, fresh weight and oven dry weight?
- d. Is there any effect of lunar days on the emergence, radical length, fresh weight and oven dry weight?

### 3.4 Hypotheses

- a. Effect of *Śrīyantrās* exhibit a positive influence on the emergence, radical length, fresh weight and oven dry weight.
- b. Effect of size of *Śrīyantra* exhibit a positive influence on the emergence, radical length, fresh weight and oven dry weight.
- c. Effect of materials of *Śrīyantra* exhibit a positive influence on the emergence, radical length, fresh weight and oven dry weight.
- d. Effect of lunar days exhibit a positive influence on the emergence, radical length, fresh weight and oven dry weight.

### 3.5 Null Hypotheses

- a. Effect of *Śrīyantrās* does not exhibit a positive influence on the emergence, radical length, fresh weight and oven dry weight.
- b. Effect of size of *Śrīyantra* does not exhibit a positive influence on the emergence, radical length, fresh weight and oven dry weight.
- c. Effects of materials of *Śrīyantra* do not exhibit a positive influence on the emergence, radical length, fresh weight and oven dry weight.
- d. Effects of lunar days do not exhibit a positive influence on the emergence, radical length, fresh weight and oven dry weight.

In this chapter explained about in section 3.1 aim of the study, 3.2 objectives of the study, 3.3 research question, 3.4 hypotheses of the study and in 3.5 null hypotheses of the study. Next chapter explained about material and method of the study.

## CHAPTER – 4

### MATERIAL AND METHODS

#### 4.1 Material

##### 4.1.1 Treatments

###### 1. Śrīyantrās

Two types of Śrīyantrās were used with different size.

- a. Paper Śrīyantra (23cm×23cm and 15cm×15cm).
- b. Pañca Loha Śrīyantra (23cm×23cm and 15cm×15cm).

###### 2. Lunar days effect

- a. Phālgunaḥ Māsa for green gram seeds

*Śukla Pakṣaḥ tithīs*

*Pratīpat, Dvītīyā, Tṛtīyā, Caturthī, Pañcamī, Ṣaṣṭhi and Saptamī, Aṣṭamī, Navamī, Daśamī, Ekādaśī, Dvādaśī, Trayodaśī, Caturadaśī, Pūrṇimā.*

*Kṛṣṇa Pakṣaḥ tithīs*

*Pratīpat, Dvītīyā, Tṛtīyā, Caturthī, Pañcamī, Ṣaṣṭhi, Saptamī1, Saptamī2, Aṣṭamī, Navamī, Daśamī, Ekādaśī, Dvādaśī, Trayodaśī, Caturadaśī, Amāvasyā.*

- b. Caitra Māsa for fenugreek seeds

*Śukla Pakṣaḥ tithīs*

*Pratīpat and Dvītīyā, Tṛtīyā, Caturthī, Pañcamī, Ṣaṣṭhi, Saptamī, Aṣṭamī, Navamī, Daśamī, Ekādaśī, Dvādaśī, Trayodaśī, Caturadaśī, Pūrṇimā.*

*Kṛṣṇa Pakṣaḥ tithis*

*Pratīpat, Dvītīyā, Tṛtīyā, Caturthī, Pañcamī, Ṣaṣṭhi, Saptamī, Aṣṭamī, Navamī, Daśamī, Ekādaśī, Dvādaśī, Trayodaśī, Caturdaśī, Amāvasyā.*

#### **4.1.2 Seeds**

Two type of seeds are used they are

- a. Fenugreek
- b. Green gram

Seeds are collected from recognized agriculture institute.

#### **4.1.3 Laboratory Materials**

- Thermometer
- Filter Paper
- Polythene Sheets
- Balance
- Hot Air Oven
- Measuring Scale
- Petri Dish
- Distilled Water
- Pipette
- Magnetic Compass
- Hygrometer

### **4.2 Sample Size**

#### **4.2.1 From Previous Study**

- a. From the study of Jina Devi (2004) sample size were 375 rice seeds.
- b. From the study of Itag Ravi Kumar (2011) sample size were 120 fenugreek seeds.
- c. From the study of Jang Jngyun (2016) sample size were 600 fenugreek seeds.

#### **4.2.2 From Lab Manual - Agriculture Lab Manual and Seed Testing Manual**

- According to International Standards for Genebanks (FAO/IPGRI, 1994) 200 seeds are recommended for germination test with 100 seeds per replication.
- According to Iowa State University of Science and Technology 400 seeds are required for germination test with 100 seeds per replication (Stahr, n.d.).

#### **4.2.3 In this Study**

- a. For effect of *Śrīyantrās* on germination of seeds size of sample was (40 seeds × 15 replication) total is 600 number of seeds.
- b. For effect of lunar days on *Śrīyantra* energy on germination of seeds size of sample was 40 seeds.

#### **4.3 Inclusion Criteria**

- Air dried seed
- Non-uniformity of size and color of seed
- Same testing room
- Each trial of all the treatments is on same day and same time

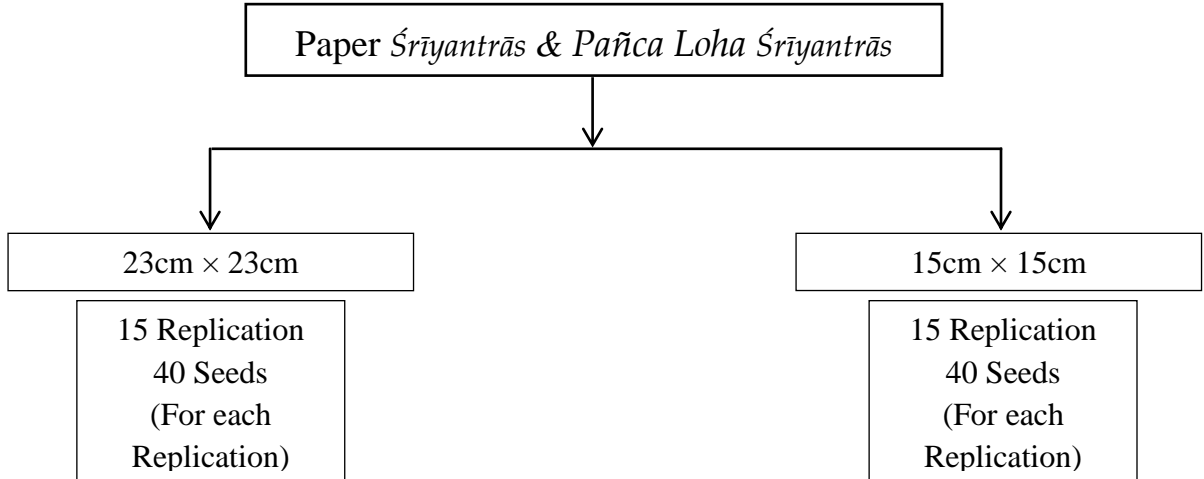
#### **4.4 Exclusion Criteria**

- Broken seed
- Decayed seed
- Color changed seed
- Too small or big size of seed

## 4.5 Methods

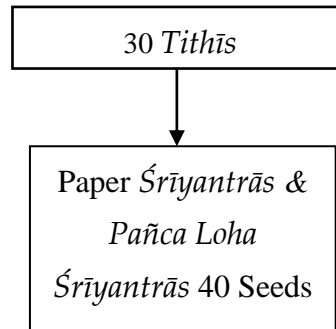
### 4.5.1 Design of the Study

#### 4.5.1.1 Effect of *Śrīyantrās*



Total size of sample is  $40 \text{ seeds} \times 15 \text{ replications} = 600$  number of seeds.

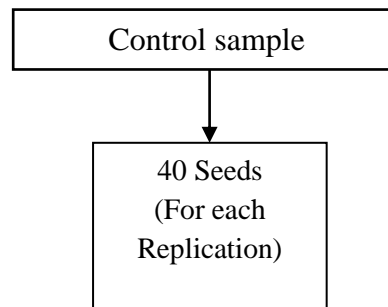
#### 4.5.1.2 Effect of Lunar Days in *Śrīyantrās* Energy



Sample size 40

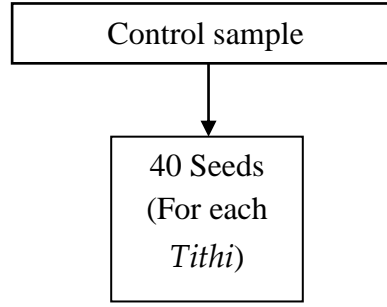
#### 4.5.1.3 Control Sample

- For *Śrīyantrās*



Sample size  $40 \text{ seeds} \times 15 \text{ replications} = 600$  number of seeds.

- For lunar days



Sample size 40 seeds.

**Table 1 – Almanac (Pañcāṅga): Durmukhināmasaṁvatsaraḥ uttarāyaṇam**

*śísirarṭvaḥ phālgunamāsaḥ*

<i>Śuklapakṣaḥ</i>						
Day	Date	Lunar Day/Tithī	Sign/Rāśi	Element/Tattva	Star/Nakṣatra	Sunrise time
Monday	27/2/2017	Pratīpat	Aquarius (Kumbha)	Air/Vāyu	Śatabhiṣa and Pūroabhādra	6:36 am
Tuesday	28/2/2017	Dvītiyā	Pisces (Mīna)	Water/Jala	Uttarābhādra	6:36 am
Wednesday	01/3/2017	Tṛtīyā	Pisces (Mīna)	Water/Jala	Revati	6:29 am
Thursday	02/3/2017	Caturthī	Aries (Meṣa)	Fire/Agni	Aśvini	6:29 am
Friday	03/3/2017	Pañcamī	Aries (Meṣa)	Fire/Agni	Bharaṇi	6:29 am
Saturday	04/3/2017	Ṣaṣṭhi and Saptamī	Taurus (Vṛṣabha)	Earth/Pṛthivī	Kṛttika	6:29 am
Sunday	05/3/2017	Aṣṭamī	Taurus (Vṛṣabha)	Earth/Pṛthivī	Rohiṇi	6:29 am
Monday	06/3/2017	Navamī	Taurus (Vṛṣabha)	Earth/Pṛthivī	Mṛgaśira	6:29 am
Tuesday	07/3/2017	Daśamī	Gemini (Mithana)	Air/Vāyu	Ārdra	6:29 am
Wednesday	08/3/2017	Ekādaśī	Gemini (Mithana)	Air/Vāyu	Punarvasu	6:29 am
Thursday	09/3/2017	Dvādaśī	Cancer (Karkaṭaka)	Water/Jala	Puṣya	6:29 am
Friday	10/3/2017	Trayodaśī	Cancer (Karkaṭaka)	Water/Jala	Āśleṣa	6:29 am
Saturday	11/3/2017	Caturdaśī	Leo (Simha)	Fire/Agni	Makha	6:29 am
Sunday	12/3/2017	Pūrṇimā	Leo (Simha)	Fire/Agni	Pubba	6:23 am

<i>Kṛṣṇapakṣaḥ</i>						
<b>Day</b>	<b>Date</b>	<b>Lunar Day/Tithī</b>	<b>Sign/Rāśi</b>	<b>Element/Tattva</b>	<b>Star/Nakṣatra</b>	<b>Sunrise time</b>
Monday	13/3/2017	<i>Pratipat</i>	Virgo (Kanyā)	Earth/ <i>Pṛthivī</i>	<i>Uttara</i>	6:23 am
Tuesday	14/3/2017	<i>Dvitiyā</i>	Virgo (Kanyā)	Earth/ <i>Pṛthivī</i>	<i>Hasta</i>	6:23 am
Wednesday	15/3/2017	<i>Tṛtīyā</i>	Virgo (Kanyā)	Earth/ <i>Pṛthivī</i>	<i>Citta</i>	6:23 am
Thursday	16/3/2017	<i>Caturthī</i>	Libra (Tulā)	Air/ <i>Vāyu</i>	<i>Svāti</i>	6:23 am
Friday	17/3/2017	<i>Pañcamī</i>	Libra (Tulā)	Air/ <i>Vāyu</i>	<i>Viśākha</i>	6:23 am
Saturday	18/3/2017	<i>Ṣaṣṭhi</i>	Scorpio (Vṛścika)	Water/ <i>Jala</i>	<i>Anūradha</i>	6:23 am
Sunday	19/3/2017	<i>Saptamī1</i>	Scorpio (Vṛścika)	Water/ <i>Jala</i>	<i>Jyeṣṭha</i>	6:23 am
Monday	20/3/2017	<i>Saptamī2</i>	Scorpio (Vṛścika)	Water/ <i>Jala</i>	<i>Jyeṣṭha</i>	6:23 am
Tuesday	21/3/2017	<i>Aṣṭamī</i>	Sagittarius (Dhanussu)	Fire/ <i>Agni</i>	<i>Mūla</i>	6:23 am
Wednesday	22/3/2017	<i>Navamī</i>	Sagittarius (Dhanussu)	Fire/ <i>Agni</i>	<i>Pūrvāṣāḍha</i>	6:17 am
Thursday	23/3/2017	<i>Daśamī</i>	Capricorn (Makara)	Earth/ <i>Pṛthivī</i>	<i>Uttarāṣāḍha</i>	6:17 am
Friday	24/3/2017	<i>Ekādaśī</i>	Capricorn (Makara)	Earth/ <i>Pṛthivī</i>	<i>Śravaṇa</i>	6:17 am
Saturday	25/3/2017	<i>Dvādaśī</i>	Aquarius (Kumbha)	Air/ <i>Vāyu</i>	<i>Dhaniṣṭha</i>	6:17 am
Sunday	26/3/2017	<i>Trayodaśī</i>	Aquarius (Kumbha)	Air/ <i>Vāyu</i>	<i>Śatabhiṣa</i>	6:17 am
Monday	27/3/2017	<i>Caturadaśī</i>	Aquarius (Kumbha)	Air/ <i>Vāyu</i>	<i>Pūrvābhadrā</i>	6:17 am
Tuesday	28/3/2017	<i>Amāvasyā</i>	Pisces (Mīna)	Water/ <i>Jala</i>	<i>Uttarābhadrā</i>	6:17 am

**Table 2 – Almanac (Pañcāṅga): Hevilambhināmasamvatsaraḥ uttarāyaṇam  
vasantartvaḥ caitramāsaḥ**

<i>Śuklapakṣaḥ</i>						
<b>Day</b>	<b>Date</b>	<b>Lunar Day/Tithī</b>	<b>Sign/Rāśi</b>	<b>Element/Tattva</b>	<b>Star/Nakṣatra</b>	<b>Sunrise time</b>
Wednesday	29/3/2017	<i>Pratīpat and Dvītīyā</i>	Pisces (Mīna)	Water/Jala	<i>Revati</i>	6:17 am
Thursday	30/3/2017	<i>Tṛtīyā</i>	Aries (Meṣa)	Fire/Agni	<i>Aśvini</i>	6:17 am
Friday	31/3/2017	<i>Caturthī</i>	Aries (Meṣa)	Fire/Agni	<i>Bharani &amp; Kṛttika</i>	6:17 am
Saturday	01/4/2017	<i>Pañcamī</i>	Taurus (Vṛṣabha)	Earth/Pṛthivī	<i>Rohiṇi</i>	6:09 am
Sunday	02/4/2017	<i>Ṣaṣṭhi</i>	Taurus (Vṛṣabha)	Earth/Pṛthivī	<i>Mṛgaśira</i>	6:09 am
Monday	03/4/2017	<i>Saptamī</i>	Gemini (Mithana)	Air/Vāyu	<i>Ārdra</i>	6:09 am
Tuesday	04/4/2017	<i>Aṣṭamī</i>	Gemini (Mithana)	Air/Vāyu	<i>Punarvasu</i>	6:09 am
Wednesday	05/4/2017	<i>Navamī</i>	Cancer (Karkaṭaka)	Water/Jala	<i>Puṣya</i>	6:09 am
Thursday	06/4/2017	<i>Daśamī</i>	Cancer (Karkaṭaka)	Water/Jala	<i>Āśleṣa</i>	6:09 am
Friday	07/4/2017	<i>Ekādaśī</i>	Leo (Simha)	Fire/Agni	<i>Makha</i>	6:09 am
Saturday	08/4/2017	<i>Dvādaśī</i>	Leo (Simha)	Fire/Agni	<i>Pubba</i>	6:09 am
Sunday	09/4/2017	<i>Trayodaśī</i>	Virgo (Kanyā)	Earth/Pṛthivī	<i>Uttara</i>	6:09 am
Monday	10/4/2017	<i>Caturadaśī</i>	Virgo (Kanyā)	Earth/Pṛthivī	<i>Hasta</i>	6:09 am
Tuesday	11/4/2017	<i>Pūrṇimā</i>	Virgo (Kanyā)	Earth/Pṛthivī	<i>Citta</i>	6:04 am

<i>Kṛṣṇapakṣaḥ</i>						
<b>Day</b>	<b>Date</b>	<b>Lunar Day/Tithī</b>	<b>Sign/Rāśi</b>	<b>Element/Tattva</b>	<b>Star/Nakṣatra</b>	<b>Sunrise time</b>
Wednesday	12/4/2017	<i>Pratīpat</i>	Libra ( <i>Tulā</i> )	Air/ <i>Vāyu</i>	<i>Svāti</i>	6:04 am
Thursday	13/4/2017	<i>Dvītīyā</i>	Libra ( <i>Tulā</i> )	Air/ <i>Vāyu</i>	<i>Svāti</i>	6:04 am
Friday	14/4/2017	<i>Tṛtīyā</i>	Scorpio ( <i>Vṛścika</i> )	Water/ <i>Jala</i>	<i>Viśākha</i>	6:04 am
Saturday	15/4/2017	<i>Caturthī</i>	Scorpio ( <i>Vṛścika</i> )	Water/ <i>Jala</i>	<i>Anūradha</i>	6:04 am
Sunday	16/4/2017	<i>Pañcamī</i>	Scorpio ( <i>Vṛścika</i> )	Water/ <i>Jala</i>	<i>Jyeṣṭha</i>	6:04 am
Monday	17/4/2017	<i>Ṣaṣṭhi</i>	Sagittarius ( <i>Dhanussu</i> )	Fire/ <i>Agni</i>	<i>Mūla</i>	6:04 am
Tuesday	18/4/2017	<i>Saptamī</i>	Sagittarius ( <i>Dhanussu</i> )	Fire/ <i>Agni</i>	<i>Pūrvāṣāḍha</i>	6:04 am
Wednesday	19/4/2017	<i>Aṣṭamī</i>	Capricorn ( <i>Makara</i> )	Earth/ <i>Pṛthivī</i>	<i>Uttarāṣāḍha</i>	6:04 am
Thursday	20/4/2017	<i>Navamī</i>	Capricorn ( <i>Makara</i> )	Earth/ <i>Pṛthivī</i>	<i>Śravaṇa</i>	6:04 am
Friday	21/4/2017	<i>Daśamī</i>	Capricorn ( <i>Makara</i> )	Earth/ <i>Pṛthivī</i>	<i>Dhaniṣṭha</i>	5:59 am
Saturday	22/4/2017	<i>Ekādaśī</i>	Aquarius ( <i>Kumbha</i> )	Air/ <i>Vāyu</i>	<i>Śatabhiṣa</i>	5:59 am
Sunday	23/4/2017	<i>Dvādaśī</i>	Aquarius ( <i>Kumbha</i> )	Air/ <i>Vāyu</i>	<i>Pūrvābhadrā</i>	5:59 am
Monday	24/4/2017	<i>Trayodaśī</i>	Pisces ( <i>Mīna</i> )	Water/ <i>Jala</i>	<i>Uttarābhadrā</i>	5:59 am
Tuesday	25/4/2017	<i>Caturdaśī</i>	Pisces ( <i>Mīna</i> )	Water/ <i>Jala</i>	<i>Revati</i>	5:59 am
Wednesday	26/4/2017	<i>Amāvasyā</i>	Aries ( <i>Meṣa</i> )	Air/ <i>Vāyu</i>	<i>Aśvini</i>	5:59 am















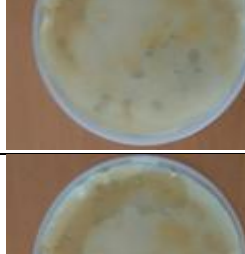

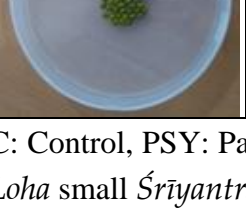

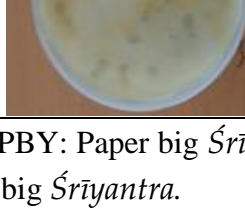

#### 4.5.2 Experiment Procedure

For the study of *Śrīyantra* effect

All samples were placed in same room of well ventilation and maintained uniformity in moisture. Good seeds are selected randomly with measuring of dry weight of size of 600 number seeds. There was 15 replication with 40 seeds each. Photographic demonstration of experiment procedure is given in fig. 1 and 2 for green gram and fenugreek seeds respectively. Fig 3 shows schematic representation of experiment procedure.





















Intervention was of two types *Śrīyantra* that are paper *Śrīyantra* and *Pañca Loha Śrīyantra* with different size (23cm × 23cm and 15cm × 15cm). Weight of each trial seeds that contains 40 seeds was taken then cleaned the seeds with distilled water to remove toxic matter. After cleaning soaked the seeds for 10 hours by using 30 ml distilled water. Then removed the soaked seeds and kept in petri dish with sandwiched between fresh filter paper and covered with respective *Śrīyantra* for the treatment samples and kept at open air for control sample. *Śrīyantra* are orienting towards magnetic N-S direction. Then put distilled water at morning and evening to maintain wetness of a filter paper and allowing the samples to germinate for one day. After one day germinated seeds were counted, and measured radical length of each germinated seeds by using measuring scale, then measuring weight of fresh seeds by balance of accuracy of 0.0001gm. After measuring fresh weight kept the seeds in hot air oven for 6 hours at 60°C and then measured weight of oven dry seeds.

To study the effect of lunar days samples are soaked at sunrise time on each *Tithī* of *Phālgunāḥ Māsa* & *Caitra Māsa* for 10 hours, and germinated for next one day for each treatment of *Śrīyantra* and for control sample.

Sample	Randomly selected 40 seeds and washed with distilled water	Soaked with distilled water	Sandwiched with wet filter paper	Covered with treatment
C				
PSY				
PBY				
MSY				
MBY				

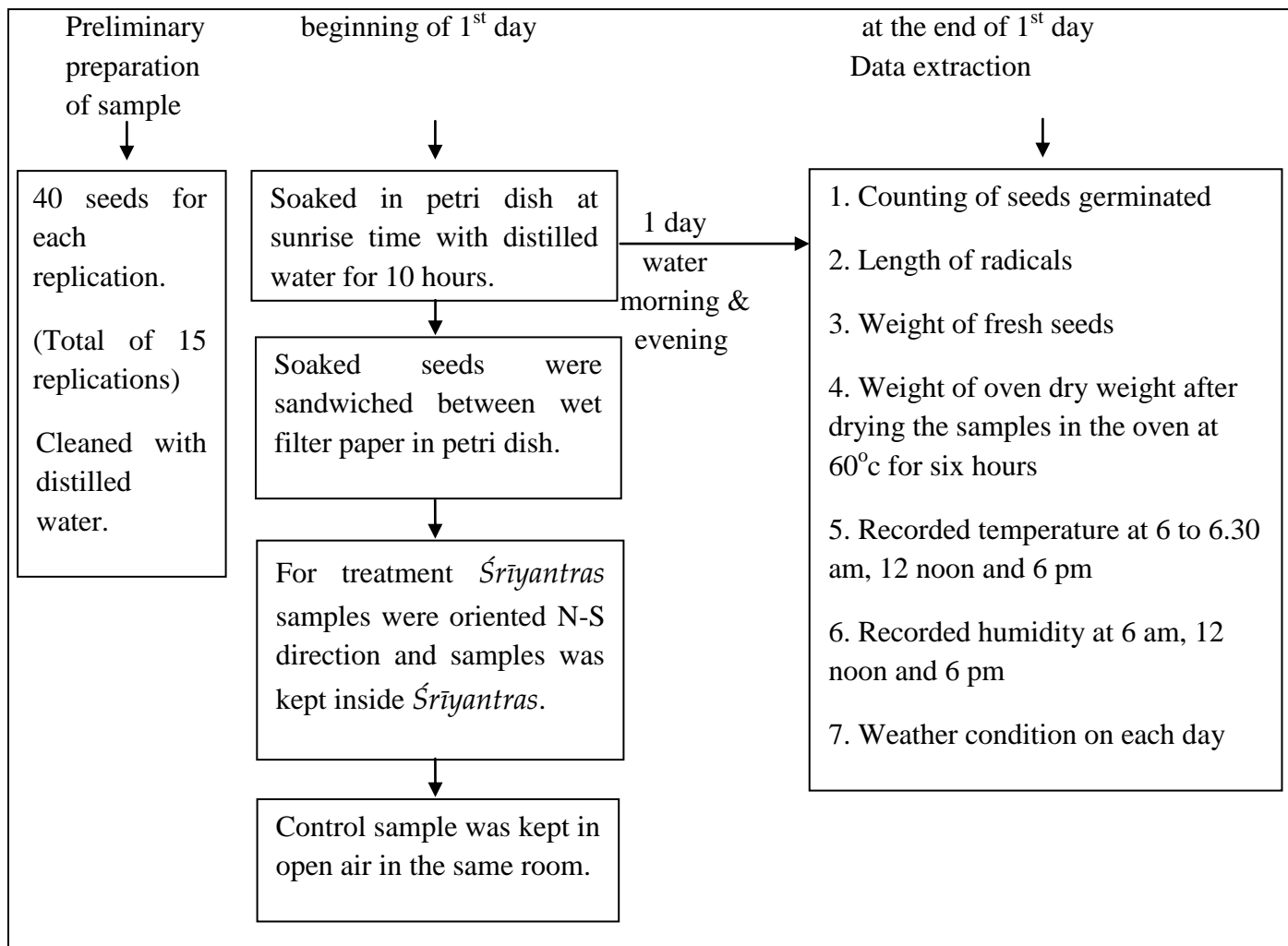
**Legend:** C: Control, PSY: Paper small Śrīyantra, PBY: Paper big Śrīyantra, MSY: Pañca Loha small Śrīyantra, MBY: Pañca Loha big Śrīyantra.

**Fig. 1 – Photographic demonstration of experiment procedure of green gram seeds**

Sample	Randomly selected 40 seeds and washed with distilled water	Soaked with distilled water	Sandwiched with wet filter paper	Covered with treatment
C				
PSY				
PBY				
MSY				
MBY				

**Legend:** C: Control, PSY: Paper small Śrīyantra, PBY: Paper big Śrīyantra, MSY: Pañca Loha small Śrīyantra, MBY: Pañca Loha big Śrīyantra.

**Fig. 2 – Photographic demonstration of experiment procedure of fenugreek seeds**



**Fig. 3 – Schematic diagram of experiment procedure**

In this chapter explained about in section 4.1 materials, 4.2 sample size, 4.3 inclusion criteria, 4.4 exclusion criteria and 4.5 methods. Next chapter is explaining about data extraction and analysis of the study.

## CHAPTER – 5

### DATA EXTRACTION AND ANALYSIS

#### 5.1 Variable Measured

Following variables are measured

1. Dry weight of sample in gm.
2. Number of seeds germinated.
3. Radical length in cm.
4. Fresh weight of germinated seeds in gm.
5. Oven dry weight of germinated seeds in gm.
6. Temperature at 6 to 6:30 am, 12 noon and 6 pm.
7. Humidity at 6 to 6:30 am, 12 noon and 6 pm.
8. Weather on each lunar day.

#### 5.2 Analysis of Variables

Following analysis has done for the recorded variables.

##### 5.2.1 Percentage of Germination

$$= \frac{\text{No. of seed germinated}}{\text{No. of seeds taken}} \times 100$$

##### 5.2.2 Radical Length

Mean, Standard Deviation and respective t-test are calculated by using R Studio software and R commander version 3.3.2.

Shapiro-wilk normality test was used for testing normal distribution. *t*-tests for radical length for normal distribution conducted Welch two sample independent *t*-test and for non-normal distribution conducted Wilcoxon two sample independent *t*-test.

### 5.2.3 Fresh Weight

$$\text{Percentage change with respect of control} = \frac{\text{Fresh weight of } \acute{S}r\acute{i}yantra \text{ sample} - \text{fresh weight of control sample}}{\text{Fresh weight of control sample}} \times 100$$

### 5.2.4 Oven Dry Weight

$$\text{Percentage change with respect of control} = \frac{\text{Oven dry weight of } \acute{S}r\acute{i}yantra \text{ sample} - \text{Oven dry weight of control sample}}{\text{Oven dry weight of control sample}} \times 100$$

In this chapter explained about in section 5.1 variable measured and 5.2 analysis of variable of the study. Next chapter is explaining about result of the study.

## CHAPTER – 6

### RESULT

#### 6.1 Effect of *Śrīyantras* on Germination of Green Gram Seeds

##### 6.1.1 Effect of *Śrīyantras*

Table 3 shows that control sample had maximum percentage of germination (99.67%) compared to all other *Śrīyantra* samples. All *Śrīyantra* samples had more mean radical length compared to control sample and these increments are highest significant ( $<0.001$ ) as given in the Table 4. In this MBY sample had maximum mean value of 1.81 cm. All treatment samples had more fresh weight compared to control sample and in this MBY sample had maximum (88.82 gm) fresh weight. Control sample had maximum (23.35 gm) oven dry weight. Fig. 4 shows graphical representation of effect of *Śrīyantras* on radical length. Fig. 5 shows graphical representation of weight of seeds, fresh weight and oven dry weight of different samples. Fig. 6 shows pattern of germinated seeds of different samples.

##### 6.1.2 Effect of Material of *Śrīyantra*

MBY sample had % of germinated seeds 99.33 and PBY sample had 98.33, MBY sample had 1.81 cm mean radical length and PBY sample had 1.52 cm, MBY sample had fresh weight 88.82 gm and PBY sample had 83.35 gm, MBY sample had oven dry weight 23.35 gm and PBY sample had 23.42 gm.

##### 6.1.3 Effect of Size of *Śrīyantra*

MBY sample had radical length 1.81cm and MSY sample had 1.76 cm, MBY sample had fresh weight 88.26 gm and MSY sample had 88.82 gm and MBY sample had oven dry weight 23.35 gm and MSY sample had 23.30 gm.

**Table 3 - Effect of Śrīyantra on germination of green gram seeds**

Variable	Treatment				
	C	PSY	PBY	MSY	MBY
Number of seeds	600	600	600	600	600
% of germinated seeds	99.67	99.33	98.33	99.33	99.33
Mean of radicals length (cm)	1.25	1.53	1.52	1.76	1.81
Standard deviation of radicals length	0.63	0.85	0.90	1.06	1.12
Dry weight of seeds (gm)	27.60	27.60	27.57	27.52	27.58
Fresh weight of germinated seeds (gm)	77.65	82.99	83.35	88.26	88.82
% change of fresh weight	---	6.88	7.34	13.66	14.39
Oven dry weight of germinated seeds (gm)	23.83	23.53	23.42	23.30	23.35
% change of oven dry weight	---	-1.26	-1.72	-2.22	-2.01

**Legend:** C: Control, PSY: Paper small Śrīyantra, PBY: Paper big Śrīyantra, MSY: Pañca Loha small Śrīyantra, MBY: Pañca Loha big Śrīyantra

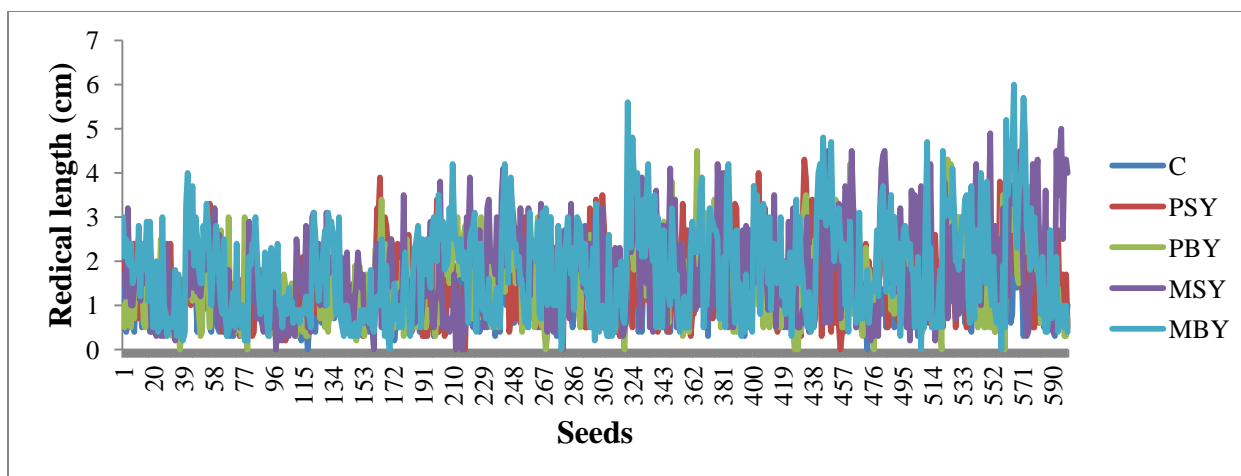
1. Control sample had maximum % of germination compared to other treatment samples.
2. Treatment samples had more mean radical length compared to control sample and MBY had maximum mean radical length.
3. Treatment samples had more fresh weight of germinated seeds compared to control sample and MBY sample had maximum fresh weight.
4. Control sample had maximum oven dry weight of germinated seeds.

**Table 4 - Summary of two sample independent t-test of mean radical length**

Treatment	p-value
C vs PSY	1.71e-07**
C vs PBY	2.08e-06**
C vs MSY	1.54e-15**
C vs MBY	< 2.2e-16**
PSY vs PBY	0.7442
PSY vs MSY	0.0014*
PSY vs MBY	0.0002**
PBY vs MSY	0.0005**
PBY vs MBY	3.70e-05**
MSY vs MBY	0.5991

**Legend:** \*  $p < 0.01$ , \*\*  $p < 0.001$

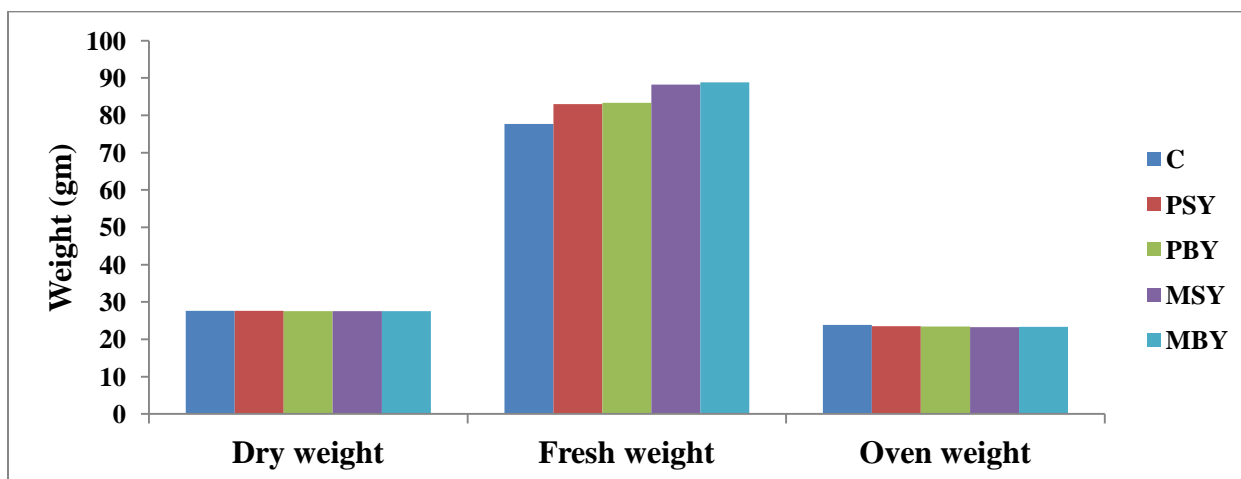
1. PSY, PBY, MSY and MBY samples had shown highest significant in radical length compare to control sample.
2. PSY sample had shown not significant in radical length compare to PBY.
3. MSY sample had shown higher significant in radical length compare to PSY.
4. MBY sample had shown highest significant in radical length compare to PSY.
5. MSY sample had shown highest significant in radical length compare to PBY.
6. MBY sample has shown highest significant in radical length compare to PBY.
7. MBY sample had shown not significant in radical length compare to MSY.



**Legend:** C: Control, PSY: Paper small Śrīyantra, PBY: Paper big Śrīyantra, MSY: Pañca Loha small Śrīyantra, MBY: Pañca Loha big Śrīyantra

- Śrīyantra is more effective than control on mean radical length

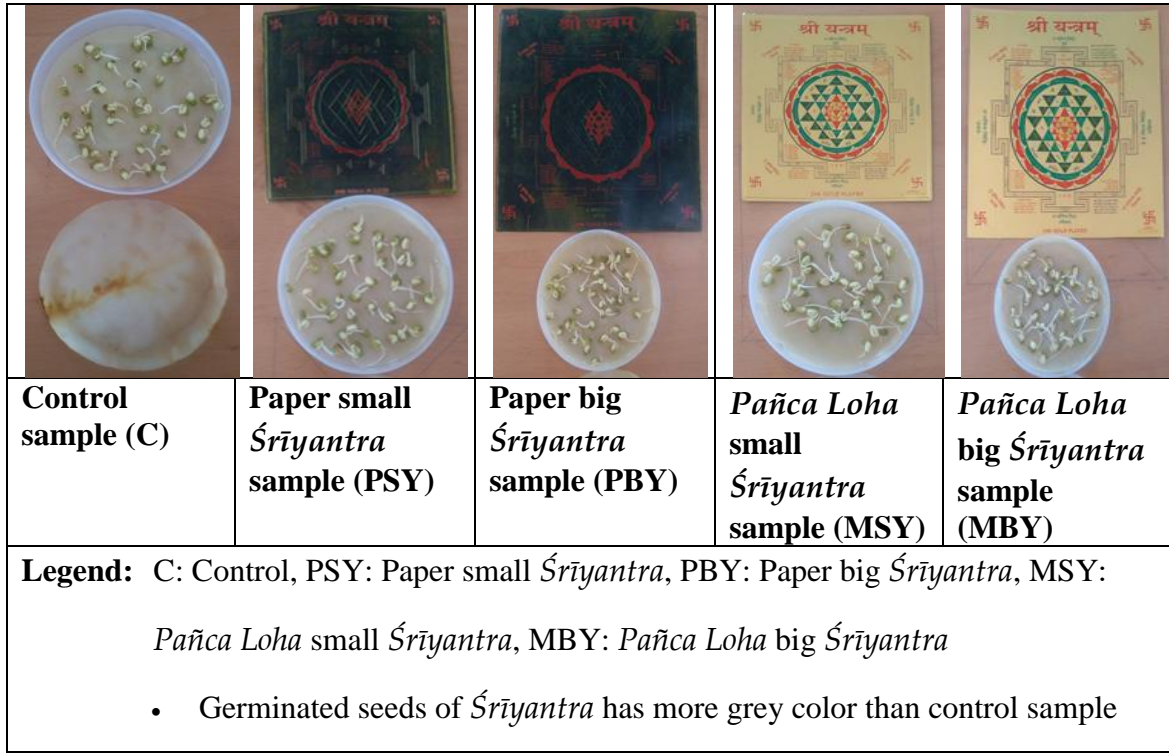
**Fig. 4 - Effect of Śrīyantra on radical length of green gram seeds**



**Legend:** C: Control, PSY: Paper small Śrīyantra, PBY: Paper big Śrīyantra, MSY: Pañca Loha small Śrīyantra, MBY: Pañca Loha big Śrīyantra

- Dry weight is almost the same for all the samples.
- Pañca Loha Śrīyantra was more effective on fresh weight.
- There are no much changes in the oven dry weight of the germinated seeds between the different samples.

**Fig. 5 – Dry weight, fresh weight and oven dry weight of germinated green gram seeds**



**Fig. 6 – Pattern of germination seeds**

## 6.2 Effect of Lunar Days on Germination of Green Gram Seeds

As per the results given in Table 5.1, 5.2, 6.1 and 6.2 there is variation in fresh weight and oven dry weight of germinated seeds in all types of samples at both Śukla Pakṣaḥ and Kṛṣṇa Pakṣaḥ of Phālgunaḥ Māsa due to lunar effects. At Śukla Pakṣaḥ samples control (5.7 gm), PSY (6.16 gm), PBY (6.21 gm) & MBY (6.08 gm) had maximum fresh weight of germinated seeds on Pūrṇimā and sample MSY (6.24 gm) had on Daśamī. At Kṛṣṇa Pakṣaḥ control sample (6.32 gm) on Pratipat, PSY (6.58 gm) on Caturdaśī, PBY (6.88 gm), MSY (7.24 gm) and MBY (7.77 gm) on Ekādaśī had their maximum fresh weight of germinated seeds. Maximum oven dry weight of germinated seeds of control sample (1.65 gm) and PSY (1.64 gm) on Pratipat, PBY (1.6 gm) on Dvitiyā and Caturthī, MSY (1.61 gm) on Caturthī and MBY sample (1.65 gm) on Tṛtīyā at Śukla Pakṣaḥ. At Kṛṣṇa Pakṣaḥ control sample (1.59 gm) on Pratipat and Dvitiyā, PSY (1.58 gm) on Dvitiyā and Pañcamī, PBY (1.61 gm) on Ṣaṣṭhi, MSY (1.58 gm) on Tṛtīyā and MBY

(1.56 gm) on *Dvitiyā* and *Saptamī2* had their maximum oven dry weight of germinated seeds. As results given in the Table 7.1, 7.2, 8.1 and 8.2 show that there is variation in percentage of germination and radicals of germinated seeds due to the effect of lunar days. At *Śukla Pakṣaḥ* control sample (1.47 cm) and PSY (2.08 cm) on *Dvādaśī*, PBY (2.02 cm), MSY (2.18 cm) and MBY (2.25 cm) on *Pūrṇimā* had their maximum mean radical length. As shown in the Fig. 7 the variation of mean radical length in *Śukla Pakṣaḥ* is in gradual increasing way to reach its maximum value on last lunar day of the phase. At *Kṛṣṇa Pakṣaḥ* control sample (1.68 cm), PSY (2.15 cm) and PBY (2.51 cm) on *Saptamī1*, MSY (2.76 cm) on *Ṣaṣṭhi* and MBY (3.10 cm) had on *Saptamī2* had their maximum mean radical length. Fig. 8 shown the variation of mean radical length and had attained its maximum at the middle of phase of *Kṛṣṇa Pakṣaḥ* and decreased at both side of the peak point. Here control sample had the effect of only of lunar days and samples PSY, PBY, MSY and MBY samples had effect of lunar days and their respective *Śrīyantra* on the germination of their seeds.

**Table 5.1 - Lunar days effect on fresh weight and oven dry weight of germinated green gram seeds at Śukla Pakṣaḥ**

Day	C			PSY					PBY				
	dry weight (gm)	Fresh weight (gm)	Oven dry weight (gm)	dry weight (gm)	Fresh weight (gm)	% change fresh weight	Oven dry weight (gm)	% change oven dry weight	dry weight (gm)	Fresh weight (gm)	% change fresh weight	Oven dry weight (gm)	% change oven dry weight
<i>Pratipat</i>	1.85	5.42	1.65	1.88	5.47	0.92	1.64	-0.61	1.82	5.19	-4.24	1.57	-4.85
<i>Dvitiyā</i>	1.86	5.2	1.63	1.85	5.64	8.46	1.6	-1.84	1.84	5.75	10.58	1.6	-1.84
<i>Tṛtīyā</i>	1.84	5.01	1.64	1.83	5.21	3.99	1.58	-3.66	1.84	5.21	3.99	1.56	-4.88
<i>Caturthī</i>	1.85	4.65	1.62	1.86	5.01	7.74	1.62	0.00	1.85	5.12	10.11	1.6	-1.23
<i>Pañcamī</i>	1.83	5.23	1.59	1.86	5.69	8.80	1.62	1.89	1.82	5.54	5.93	1.58	-0.63
<i>Ṣaṣṭhiand Saptamī</i>	1.82	5.09	1.58	1.82	5.26	3.34	1.54	-2.53	1.83	5.28	3.73	1.58	0.00
<i>Aṣṭamī</i>	1.84	5.15	1.56	1.82	5.43	5.44	1.53	-1.92	1.85	5.71	10.87	1.56	0.00
<i>Navamī</i>	1.85	5.41	1.58	1.83	5.58	3.14	1.55	-1.90	1.85	5.77	6.65	1.57	-0.63
<i>Daśamī</i>	1.82	5.58	1.55	1.83	5.81	4.12	1.56	0.65	1.83	5.87	5.20	1.55	0.00
<i>Ekādaśī</i>	1.82	5.11	1.57	1.84	5.58	9.20	1.58	0.64	1.84	5.65	10.57	1.58	0.64
<i>Dvādaśī</i>	1.82	4.65	1.52	1.84	5.44	16.99	1.52	0.00	1.85	5.28	13.55	1.56	2.63
<i>Trayodaśī</i>	1.84	4.51	1.59	1.84	5.23	15.96	1.58	-0.63	1.83	5.49	21.73	1.55	-2.52
<i>Caturdaśī</i>	1.85	4.62	1.57	1.83	5.1	10.39	1.54	-1.91	1.83	4.77	3.25	1.51	-3.82
<i>Pūrṇimā</i>	1.86	5.7	1.59	1.84	6.16	8.07	1.53	-3.77	1.85	6.21	8.95	1.54	-3.14

**Legend:** C: Control, PSY: Paper small Śrīyantra, PBY: Paper big Śrīyantra

1. Control sample had maximum fresh weight on *Pūrṇimā* in Śukla Pakṣaḥ.
2. PSY sample had more % change in fresh weight compared to control sample on all lunar days in Śukla Pakṣaḥ
3. PBY sample had more % change in fresh weight compared to control sample on all lunar days except on *Pratipat* in Śukla Pakṣaḥ.
4. Control sample had maximum oven dry weight on *Pratipat* in Śukla Pakṣaḥ.
5. PSY sample had more % change in oven dry weight compared to control sample on *Pañcamī*, *Daśamī* and *Ekādaśī* in Śukla Pakṣaḥ.
6. PBY sample had more % change in oven dry weight compared to control sample on *Ekādaśī* and *Dvādaśī* in Śukla Pakṣaḥ.

**Table 5.2 - Lunar days effect on fresh weight and oven dry weight of germinated green gram seeds at Śukla Pakṣaḥ**

Day	MSY					MBY				
	dry weight (gm)	Fresh weight (gm)	% change fresh weight	Oven dry weight (gm)	% change oven dry weight	Dry weight (gm)	Fresh weight (gm)	% change fresh weight	Oven dry weight (gm)	% change oven dry weight
<i>Pratīpat</i>	1.83	5.56	2.58	1.54	-6.67	1.89	5.92	9.23	1.63	-1.21
<i>Dvītiyā</i>	1.85	5.97	14.81	1.59	-2.45	1.84	6.05	16.35	1.6	-1.84
<i>Tṛtīyā</i>	1.83	5.58	11.38	1.56	-4.88	1.83	5.92	18.16	1.65	0.61
<i>Caturthī</i>	1.86	5.27	13.33	1.61	-0.62	1.85	5.3	13.98	1.58	-2.47
<i>Pañcamī</i>	1.86	5.92	13.19	1.6	0.63	1.85	5.98	14.34	1.6	0.63
<i>Ṣaṣṭhiand Saptamī</i>	1.83	5.69	11.79	1.55	-1.90	1.83	5.9	15.91	1.53	-3.16
<i>Aṣṭamī</i>	1.82	5.85	13.59	1.51	-3.21	1.83	5.7	10.68	1.51	-3.21
<i>Navamī</i>	1.83	6.09	12.57	1.56	-1.27	1.83	5.82	7.58	1.54	-2.53
<i>Daśamī</i>	1.85	6.24	11.83	1.55	0.00	1.82	6.15	10.22	1.54	-0.65
<i>Ekādaśī</i>	1.82	6.17	20.74	1.59	1.27	1.83	6.08	18.98	1.51	-3.82
<i>Dvādaśī</i>	1.83	5.37	15.48	1.55	1.97	1.84	5.63	21.08	1.54	1.32
<i>Trayodaśī</i>	1.82	5.47	21.29	1.52	-4.40	1.85	5.32	17.96	1.56	-1.89
<i>Caturadaśī</i>	1.84	6.04	30.74	1.51	-3.82	1.83	5.49	18.83	1.52	-3.18
<i>Pūrṇimā</i>	1.82	6.23	9.30	1.52	-4.40	1.83	6.71	17.72	1.51	-5.03

**Legend:** MSY: *Pañca Loha* small Śrīyantra, MBY: *Pañca Loha* big Śrīyantra

1. MSY sample had more % change in fresh weight compared to control sample on all lunar days in Śukla Pakṣaḥ.
2. MBY sample had more % change in fresh weight compared to control sample on all lunar days in Śukla Pakṣaḥ.
3. MSY sample had more % change in oven dry weight compared to control sample on *Ekādaśī* and *Dvādaśī* in Śukla Pakṣaḥ.
4. MBY sample had more % change in oven dry weight compared to control sample on *Tṛtīyā Pañcamī* and *Dvādaśī* in Śukla Pakṣaḥ.

**Table 6.1 - Lunar days effect on fresh weight and oven dry weight of germinated green gram seeds at *Kṛṣṇa Pakṣaḥ***

Day	C			PSY					PBY				
	dry weight (gm)	Fresh weight (gm)	Oven dry weight (gm)	dry weight (gm)	Fresh weight (gm)	% change fresh weight	Oven dry weight (gm)	% change oven dry weight	dry weight (gm)	Fresh weight (gm)	% change fresh weight	Oven dry weight (gm)	% change oven dry weight
<i>Pratīpat</i>	1.85	6.32	1.59	1.83	6.38	0.95	1.54	-3.14	1.84	6.51	3.01	1.51	-5.03
<i>Dvītiyā</i>	1.82	5.4	1.59	1.85	5.9	9.26	1.58	-0.63	1.85	6.27	16.11	1.54	-3.14
<i>Tṛtīyā</i>	1.86	6.05	1.49	1.85	6.27	3.64	1.57	5.37	1.82	6.33	4.63	1.55	4.03
<i>Caturthī</i>	1.82	4.5	1.57	1.82	4.11	-8.67	1.52	-3.18	1.85	4.93	9.56	1.57	0.00
<i>Pañcamī</i>	1.85	5.54	1.57	1.85	5.94	7.22	1.58	0.64	1.83	5.15	-7.04	1.54	-1.91
<i>Ṣaṣṭhi</i>	1.82	5.47	1.53	1.82	6.44	17.73	1.52	-0.65	1.82	6.18	12.98	1.61	5.23
<i>Saptamī1</i>	1.84	5.86	1.57	1.82	6.52	11.26	1.52	-3.18	1.82	6.7	14.33	1.53	-2.55
<i>Saptamī2</i>	1.83	5.66	1.56	1.83	6.3	11.31	1.53	-1.92	1.84	6.19	9.36	1.55	-0.64
<i>Aṣṭamī</i>	1.82	5.71	1.51	1.82	6.36	11.38	1.54	1.99	1.83	6.34	11.03	1.54	1.99
<i>Navamī</i>	1.83	5.83	1.54	1.85	6.02	3.26	1.54	0.00	1.85	6.11	4.80	1.54	0.00
<i>Daśamī</i>	1.84	5.32	1.55	1.85	6.02	13.16	1.53	-1.29	1.86	6.43	20.86	1.49	-3.87
<i>Ekādaśī</i>	1.85	5.18	1.58	1.86	6.32	22.01	1.57	-0.63	1.82	6.88	32.82	1.52	-3.80
<i>Dvādaśī</i>	1.84	5.13	1.54	1.82	6	16.96	1.5	-2.60	1.84	5.94	15.79	1.54	0.00
<i>Trayodaśī</i>	1.83	5.6	1.55	1.83	5.82	3.93	1.51	-2.58	1.84	6.3	12.50	1.55	0.00
<i>Caturdaśī</i>	1.83	5.33	1.55	1.84	6.58	23.45	1.54	-0.65	1.84	6.6	23.83	1.54	-0.65
<i>Amāvasyā</i>	1.85	5.91	1.58	1.83	6.14	3.89	1.52	-3.80	1.82	6.07	2.71	1.5	-5.06

**Legend:** C: Control, PSY: Paper small *Śrīyantra*, PBY: Paper big *Śrīyantra*

1. Control sample had maximum fresh weight on lunar day *Pratīpat* in *Kṛṣṇa Pakṣaḥ*.
2. PSY sample had more % change in fresh weight compared to control sample on all lunar days except on *Caturthī* in *Kṛṣṇa Pakṣaḥ*.
3. PBY sample had more % change in fresh weight compared to control sample on all lunar days except on *Pañcamī* in *Kṛṣṇa Pakṣaḥ*.
4. Control sample had maximum oven dry weight on lunar days *Pratīpat* and *Dvītiyā* in *Kṛṣṇa Pakṣaḥ*.
5. PSY sample had more % change in oven dry weight compared to control sample on *Tṛtīyā*, *Pañcamī* and *ashtam* in *Kṛṣṇa Pakṣaḥ*.
6. PBY sample had more % change in oven dry weight compared to control sample on *Tṛtīyā*, *Ṣaṣṭhi* and *Aṣṭamī* in *Kṛṣṇa Pakṣaḥ*.

**Table 6.2 - Lunar days effect on fresh weight and oven dry weight of germinated green gram seeds at *Kṛṣṇa Pakṣaḥ***

Day	MSY					MBY				
	Dry weight (gm)	Fresh weight (gm)	% change fresh weight	Oven dry weight (gm)	% change oven dry weight	Dry weight (gm)	Fresh weight (gm)	% change fresh weight	Oven dry weight (gm)	% change oven dry weight
<i>Pratīpat</i>	1.83	6.81	7.75	1.54	-3.14	1.83	6.85	8.39	1.53	-3.77
<i>Dvītīyā</i>	1.82	5.64	4.44	1.56	-1.89	1.84	6.54	21.11	1.56	-1.89
<i>Trtīyā</i>	1.86	6.92	14.38	1.58	6.04	1.82	6.31	4.30	1.52	2.01
<i>Caturthī</i>	1.83	5.17	14.89	1.54	-1.91	1.83	5.03	11.78	1.54	-1.91
<i>Pañcamī</i>	1.82	5.95	7.40	1.52	-3.18	1.82	6.14	10.83	1.52	-3.18
<i>Ṣaṣṭhī</i>	1.82	6.82	24.68	1.42	-7.19	1.86	7.11	29.98	1.55	1.31
<i>Saptamī1</i>	1.86	7.13	21.67	1.56	-0.64	1.86	6.69	14.16	1.54	-1.91
<i>Saptamī2</i>	1.84	6.56	15.90	1.54	-1.28	1.86	7.13	25.97	1.56	0.00
<i>Aṣṭamī</i>	1.83	6.74	18.04	1.53	1.32	1.84	6.69	17.16	1.53	1.32
<i>Navamī</i>	1.82	6.35	8.92	1.46	-5.19	1.82	6.54	12.18	1.51	-1.95
<i>Daśamī</i>	1.83	6.43	20.86	1.51	-2.58	1.83	6.44	21.05	1.55	0.00
<i>Ekādaśī</i>	1.82	7.24	39.77	1.52	-3.80	1.85	7.77	50.00	1.54	-2.53
<i>Dvādaśī</i>	1.82	6.86	33.72	1.54	0.00	1.83	6.58	28.27	1.52	-1.30
<i>Trayodaśī</i>	1.84	6.82	21.79	1.53	-1.29	1.83	7.32	30.71	1.52	-1.94
<i>Caturdaśī</i>	1.85	6.68	25.33	1.54	-0.65	1.83	7.33	37.52	1.52	-1.94

**Legend:** MSY: *Pañca Loha* small *Śrīyantra*, MBY: *Pañca Loha* big *Śrīyantra*

1. MSY sample had more % change in fresh weight compared to control sample on all lunar days in *Kṛṣṇa Pakṣaḥ*.
2. MBY sample had more % change in fresh weight compared to control sample on all lunar days in *Kṛṣṇa Pakṣaḥ*.
3. MSY sample had more % change in oven dry weight compared to control sample on *Trtīyā* and *Aṣṭamī* in *Kṛṣṇa Pakṣaḥ*.
4. MBY sample had more % change in oven dry weight compared to control sample on *Trtīyā*, *Ṣaṣṭhī* and *Aṣṭamī* in *Kṛṣṇa Pakṣaḥ*.

**Table 7.1 - Lunar days effect on germination and radicals of germinated green gram seeds on day 1 at Śukla Pakṣaḥ**

Day	C			PSY					PBY				
	Mean (cm)	Std.	% of germ	Mean (cm)	Std.	% change	p-value	% of germ	Mean (cm)	Std.	% change	p-value	% of germ
<i>Pratipat</i>	0.98	0.45	100	1.16	0.54	17.56	0.1433	100	0.87	0.59	-11.70	0.1361	97.5
<i>Dvītiyā</i>	0.90	0.47	100	1.33	0.73	47.50	0.0075**	100	1.26	0.77	40.00	0.0381*	97.5
<i>Tṛtīyā</i>	0.80	0.45	97.5	0.91	0.48	13.48	0.3013	100	0.97	0.60	21.94	0.3541	100
<i>Caturthī</i>	1.08	0.40	100	1.08	0.45	0.00	1.0000	100	1.15	0.57	6.98	0.4985	97.5
<i>Pañcamī</i>	1.21	0.60	100	1.65	0.95	35.67	0.0557	100	1.24	0.74	2.27	0.9193	100
<i>Ṣaṣṭhiand Saptamī</i>	1.42	0.66	100	1.39	0.77	-2.46	0.8280	95	1.69	0.75	18.45	0.1010	100
<i>Aṣṭamī</i>	1.29	0.66	100	1.64	0.89	27.38	0.0845	97.5	1.69	0.80	31.07	0.0276*	97.5
<i>Navamī</i>	1.34	0.51	100	1.58	0.89	17.54	0.1531	100	1.55	0.71	15.30	0.0961	97.5
<i>Daśamī</i>	1.30	0.62	100	1.61	0.77	24.04	0.0491*	100	1.88	0.87	44.62	0.0010***	100
<i>Ekādaśī</i>	1.46	0.67	100	1.80	0.80	23.71	0.0404*	100	1.83	1.01	25.95	0.0542	100
<i>Dvādaśī</i>	1.47	0.57	100	2.08	1.04	41.81	0.0018***	100	1.41	0.88	-4.10	0.7183	95
<i>Trayodaśī</i>	1.30	0.63	97.5	1.46	0.76	12.55	0.2718	97.5	1.75	1.02	34.75	0.0205*	97.5
<i>Caturadaśī</i>	1.28	0.62	100	1.50	0.80	17.15	0.3059	100	1.46	0.72	14.04	0.2326	97.5
<i>Pūrṇimā</i>	1.44	0.63	100	1.95	0.96	36.06	0.0060**	100	2.02	1.15	40.42	0.0156*	97.5

**Legend:** C: control, PSY: paper small Śrīyantra, PBY: paper big Śrīyantra

\*p<0.05, \*\* p<0.01, \*\*\* p<0.001

1. Control sample had maximum radical length on lunar day *Dvādaśī* in Śukla Pakṣaḥ.
2. Compared to control sample PSY sample had increase in radical length on all lunar days except on *Ṣaṣṭhi & Saptamī* but have higher significant increase in radicals on *Dvītiyā*, *Dvādaśī* and *Pūrṇimā* and significant increase in radicals on *Daśamī* and *Ekādaśī* in Śukla Pakṣaḥ.
3. Compared to control sample PBY sample had more radical length on all lunar days except on *Pratipat* and *Dvādaśī* but had highest significant increase in radicals on *Daśamī* and significant increase in radicals on *Dvītiyā*, *Aṣṭamī*, *Ekādaśī*, *Trayodaśī* and *Pūrṇimā* in Śukla Pakṣaḥ.

**Table 7.2 - Lunar days effect on germination and radicals of germinated green gram seeds on day 1 at Śukla Pakṣaḥ**

Day	MSY					MBY				
	Mean (cm)	Std.	% change	p-value	% of germ	Mean (cm)	Std.	% change	p-value	% of germ
<i>Pratīpat</i>	1.20	0.71	21.88	0.2525	100	1.43	0.90	45.29	0.0536	100
<i>Dvītiyā</i>	1.37	0.78	51.94	0.0068**	100	1.70	1.05	88.61	0.0008***	100
<i>Tṛtīyā</i>	1.11	0.71	39.50	0.0468*	97.5	1.28	0.67	60.19	0.0003***	100
<i>Caturthī</i>	1.47	0.75	36.51	0.0050**	97.5	0.027	0.94	-97.49	0.8698	100
<i>Pañcamī</i>	1.50	0.67	23.51	0.1312	100	1.46	0.85	20.62	0.2227	97.5
<i>Ṣaṣṭhi and Saptamī</i>	1.57	1.07	10.37	0.4600	95	1.92	0.95	34.80	0.0086**	100
<i>Aṣṭamī</i>	2.12	0.93	64.47	5.89e-05***	100	2.01	1.06	56.31	0.0013**	97.5
<i>Navamī</i>	1.59	0.90	18.84	0.2616	100	1.49	0.89	10.82	0.7505	100
<i>Daśamī</i>	2.14	1.11	64.62	9.40e-05***	100	2.22	1.32	70.77	0.0002***	100
<i>Ekādaśī</i>	1.82	0.93	24.74	0.1118	100	1.87	1.13	28.52	0.1163	100
<i>Dvādaśī</i>	1.64	0.87	12.12	0.4292	100	1.79	0.94	22.35	0.0636	100
<i>Trayodaśī</i>	1.93	1.27	49.23	0.0521	100	2.14	1.18	65.06	0.0020**	100
<i>Caturadaśī</i>	2.10	1.22	63.35	0.0004***	100	1.83	1.14	42.69	0.0098**	97.5
<i>Pūrṇimā</i>	2.18	1.12	51.92	0.0053**	100	2.25	1.18	56.97	0.0003***	97.5

**Legend:** MSY: *Pañca Loha* small *Śrīyantra*, MBY: *Pañca Loha* big *Śrīyantra*

\* $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

1. Compared to control sample MSY sample had more radical length on all lunar days but have highest significant increase on *Aṣṭamī*, *Daśamī* and *Caturadaśī*, higher significant increase on *Dvītiyā*, *Caturthī* and *Pūrṇimā* and significant increase on *Tṛtīyā* in *Śukla Pakṣaḥ*.

2. Compared to control sample MBY sample had increase in radical length on all lunar days except on *Caturthī* but had highest significant increase in radicals on *Dvītiyā*, *Tṛtīyā*, *Daśamī* and *Pūrṇimā*, higher significant increase on *Ṣaṣṭhi & Saptamī*, *Aṣṭamī*, *Trayodaśī* and *Caturadaśī* and significant increase in radicals on *Pratīpat* in *Śukla Pakṣaḥ*.

**Table 8.1 - Lunar days effect on germination and radicals of germinated green gram seeds on day 1 at *Kṛṣṇa Pakṣaḥ***

Day	C			PSY					PBY				
	Mean (cm)	Std.	% of germ	Mean (cm)	Std.	% change	p-value	% of germ	Mean (cm)	Std.	% change	p-value	% of germ
<i>Pratipat</i>	1.46	0.86	100	1.79	0.93	22.47	0.1023	100	2.02	1.08	38.59	0.0195*	100
<i>Dvītiyā</i>	1.14	0.61	100	1.50	0.66	31.65	0.0113*	100	1.79	0.91	57.58	0.0010***	100
<i>Tṛtīyā</i>	1.27	0.68	100	1.70	1.00	33.60	0.0386*	97.5	1.80	0.99	41.45	0.0142*	100
<i>Caturthī</i>	1.29	0.59	97.5	1.50	0.77	16.47	0.2327	100	1.88	0.76	45.74	0.0002***	100
<i>Pañcamī</i>	1.25	0.58	100	1.55	0.84	24.70	0.1426	100	1.71	1.07	37.35	0.0682	97.5
<i>Ṣaṣṭhi</i>	1.48	0.63	100	2.11	0.89	42.64	0.0008***	100	2.25	0.73	51.95	3.12e-06***	100
<i>Saptamī1</i>	1.68	0.73	100	2.15	1.03	27.93	0.0214*	100	2.51	1.01	49.03	8.40e-05***	100
<i>Saptamī2</i>	1.65	0.67	100	2.11	0.83	27.38	0.0091**	100	2.29	1.20	38.43	0.0050**	100
<i>Aṣṭamī</i>	1.37	0.73	97.5	1.99	0.90	45.44	0.0011**	100	2.42	0.96	76.28	6.08e-07***	100
<i>Navamī</i>	1.50	0.77	97.5	1.90	0.83	26.54	0.0301*	97.5	2.12	0.87	41.24	0.0013**	100
<i>Daśamī</i>	1.44	0.64	97.5	1.93	0.96	34.49	0.0114*	97.5	2.23	0.98	55.40	6.10e-05***	100
<i>Ekādaśī</i>	1.36	0.58	97.5	1.99	0.88	46.49	0.0003***	100	1.74	0.92	28.60	0.0271*	100
<i>Dvādaśī</i>	1.34	0.66	97.5	1.90	0.99	41.60	0.0043**	100	2.02	1.12	50.75	0.0015**	100
<i>Trayodaśī</i>	1.52	0.60	97.5	1.31	0.70	-13.86	0.1562	100	1.97	1.01	30.20	0.0250*	100
<i>Caturadaśī</i>	1.39	0.65	100	1.81	0.97	30.16	0.0263*	100	2.16	0.99	54.94	0.0001***	100
<i>Amāvasyā</i>	1.58	0.75	100	2.03	0.90	28.32	0.0182*	97.5	2.23	0.99	41.30	0.0014**	97.5

**Legend:** C: control, PSY: paper small *Śrīyantra*, PBY: paper big *Śrīyantra*

\* $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

1. Control sample had maximum radical length on lunar day *Saptamī1* in *Kṛṣṇa Pakṣaḥ*.
2. Compared to control sample PSY sample had increase in radical length on all lunar days except on *Trayodaśī* but have highest significant increase on *Ṣaṣṭhi* and *Ekādaśī*, higher significant increase on *Saptamī2*, *Aṣṭamī*, *Dvādaśī* and significant increase on *Dvītiyā*, *Tṛtīyā*, *Saptamī1*, *Navamī*, *Daśamī*, *Caturadaśī* and *Amāvasyā* in *Kṛṣṇa Pakṣaḥ*.
3. Compared to control sample PBY sample had more radical length on all lunar days but had highest significant increase on *Dvītiyā*, *Caturthī*, *Ṣaṣṭhi*, *Saptamī1*, *Aṣṭamī*, *Daśamī*, *Caturadaśī* higher significant increase on *Saptamī2*, *Navamī*, *Dvādaśī* and *Amāvasyā* and significant increase on *Pratipat*, *Tṛtīyā*, *Ekādaśī* and *Trayodaśī* in *Kṛṣṇa Pakṣaḥ*.

**Table 8.2 - Lunar days effect on germination and radicals of germinated green gram seeds on day 1 at *Kṛṣṇa Pakṣaḥ***

Day	MSY					MBY				
	Mean (cm)	Std.	% change	p-value	% of germ	Mean (cm)	Std.	% change	p-value	% of germ
<i>Pratīpat</i>	2.67	1.42	83.19	0.0001***	100	2.37	1.64	62.26	0.0160*	100
<i>Dvītīyā</i>	2.06	1.05	81.32	0.0001***	100	2.32	1.00	104.18	1.97e-07***	100
<i>Tṛtīyā</i>	2.12	1.24	66.60	0.0026**	100	2.47	1.33	94.11	2.22e-05***	100
<i>Caturthī</i>	1.90	0.95	47.09	0.0011**	100	2.03	0.88	57.36	3.86e-05***	100
<i>Pañcamī</i>	2.09	1.20	67.87	0.0010***	97.5	2.37	1.21	90.16	5.11e-05***	100
<i>Ṣaṣṭhi</i>	2.76	1.26	86.80	3.69e-07***	100	2.91	1.22	97.12	1.37e-08***	100
<i>Saptamī1</i>	2.52	1.46	49.93	0.0019**	100	2.87	1.23	70.58	1.96e-06***	100
<i>Saptamī2</i>	2.54	1.58	53.71	0.0415*	100	3.10	1.08	87.75	7.99e-10***	100
<i>Aṣṭamī</i>	2.43	1.23	77.28	1.62e-05***	100	2.83	1.32	106.75	1.22e-06***	100
<i>Navamī</i>	2.46	1.22	64.27	7.74e-05***	97.5	2.63	1.40	75.29	2.87e-05***	100
<i>Daśamī</i>	2.23	1.03	55.05	0.0001***	100	2.54	1.35	77.00	2.02e-05***	97.5
<i>Ekādaśī</i>	2.29	1.48	69.00	0.0060**	100	2.78	1.49	105.17	7.80e-07***	100
<i>Dvādaśī</i>	2.55	1.21	89.93	7.34e-07***	100	2.72	1.45	102.80	1.14e-06***	100
<i>Trayodaśī</i>	2.33	1.39	53.47	0.0248*	100	2.47	1.45	62.87	0.0160*	97.5
<i>Caturadaśī</i>	2.45	1.23	76.12	1.12e-05***	100	2.69	1.37	93.36	1.29e-06***	100
<i>Amāvasyā</i>	2.35	1.39	48.58	0.0278*	100	2.70	1.27	70.89	1.03e-05***	100

**Legend:** MSY: *Pañca Loha* small *Śrīyantra*, MBY: *Pañca Loha* big *Śrīyantra*

\* $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

1. Compared to control sample MSY sample had more radical length on all lunar days but have highest significant increase on *Pratīpat*, *Dvītīyā*, *Pañcamī*, *Ṣaṣṭhi*, *Aṣṭamī*, *Navamī*, *Daśamī*, *Dvādaśī* and *Caturadaśī*, higher significant increase on *Tṛtīyā*, *Caturthī*, *Saptamī1* and *Ekādaśī* and significant increase on *Saptamī2*, *Trayodaśī* and *Amāvasyā* in *Kṛṣṇa Pakṣaḥ*.

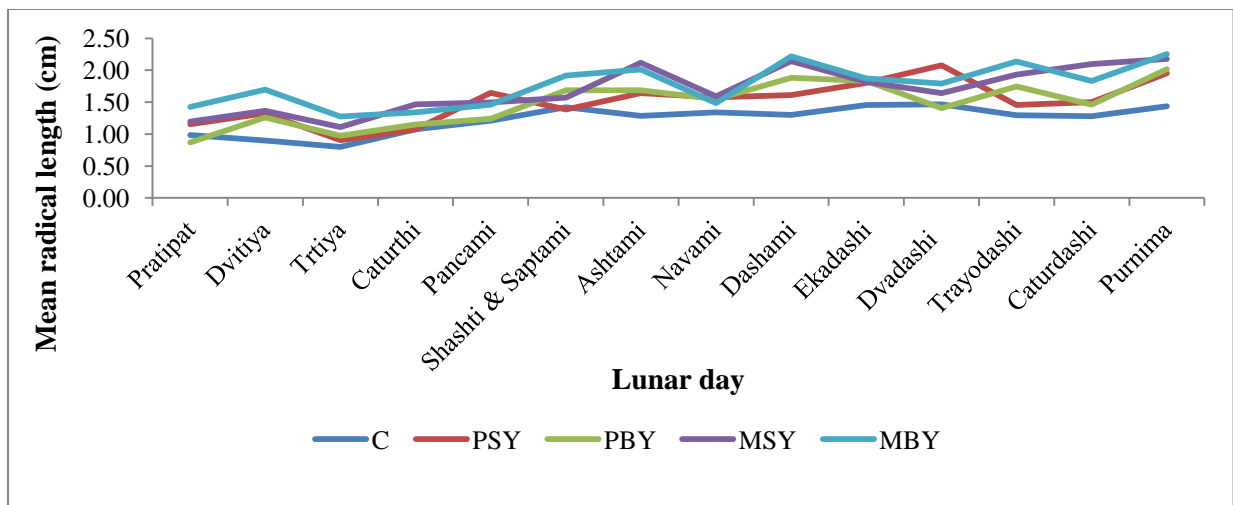
2. Compared to control sample MBY sample had increase in radical length on all lunar days but had highest significant increase in radicals on *Dvītīyā*, *Tṛtīyā*, *Caturthī*, *Pañcamī*, *Ṣaṣṭhi*, *Saptamī1*, *Saptamī2*, *Aṣṭamī*, *Navamī*, *Daśamī*, *Ekādaśī*, *Dvādaśī*, *Caturadaśī* and *Amāvasyā*, significant increase on *Pratīpat* and *trayodash* in *Kṛṣṇa Pakṣaḥ*.

**Table 9.1- Atmosphere parameter at Śukla Pakṣaḥ of Phālgunāḥ Māsa**

Day	Temperature (t) °c				Humidity (h) %			
	6 to 6:30 am	12 noon	6 pm	Average	6 to 6:30 am	12 noon	6 pm	Average
<i>Pratipat</i>	25.6	25.8	28.9	26.77	42	41	27	36.67
<i>Dvitiyā</i>	23	25.5	29.2	25.90	46	35	26	35.67
<i>Tṛtīyā</i>	24.2	25	28	25.73	35	32	29	32.00
<i>Caturthī</i>	23	24.9	28.4	25.43	40	36	32	36.00
<i>Pañcamī</i>	23.1	26.4	30.1	26.53	51	44	37	44.00
<i>Ṣaṣṭhī and Saptamī</i>	24.5	28.1	30.7	27.77	51	49	42	47.33
<i>Aṣṭamī</i>	26.2	28.3	28.9	27.80	54	53	51	52.67
<i>Navamī</i>	26.3	27.6	29.5	27.80	58	61	52	57.00
<i>Daśamī</i>	25.2	27.6	29.7	27.50	63	56	53	57.33
<i>Ekādaśī</i>	26.1	27.1	30.1	27.77	64	60	52	58.67
<i>Dvādaśī</i>	26.2	27.9	30.3	28.13	62	57	51	56.67
<i>Trayodaśī</i>	26.4	28	31.4	28.60	56	47	44	49.00
<i>Caturdaśī</i>	26.8	28.4	20.4	25.20	48	40	37	41.67
<i>Pūrṇimā</i>	27.1	29.2	33.1	29.80	47	44	32	41.00
<b>Mean</b>	25.26	27.13	29.19	27.20	51.21	46.79	40.36	46.12
<b>SD</b>	1.45	1.37	2.84	1.32	8.88	9.52	10.19	9.27

**Table 9.2 - Atmosphere parameter at Kṛṣṇa Pakṣaḥ of Phālgunāḥ Māsa**

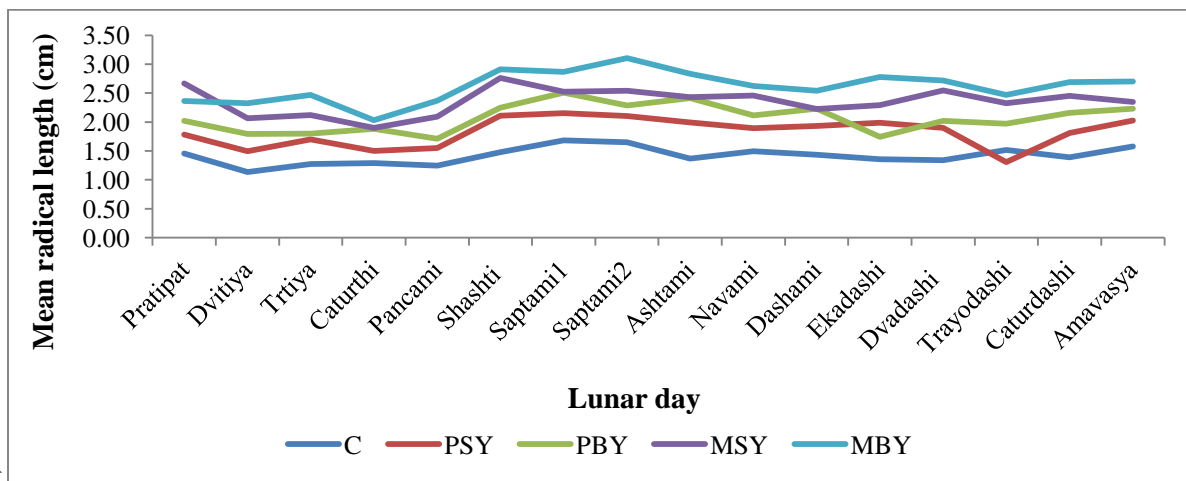
Day	Temperature (t) °c				Humidity (h) %			
	6 to 6:30 am	12 noon	6 pm	Average	6 to 6:30 am	12 noon	6 pm	Average
<i>Pratipat</i>	27.6	31.1	32.6	30.43	47	46	42	45.00
<i>Dvitiyā</i>	27.4	28.4	29.1	28.30	55	57	52	54.67
<i>Tṛtīyā</i>	25.1	27.5	30.1	27.57	62	52	44	52.67
<i>Caturthī</i>	25.3	28.1	29.6	27.67	57	48	39	48.00
<i>Pañcamī</i>	25.1	28.6	31.4	28.37	52	47	41	46.67
<i>Ṣaṣṭhī</i>	26.3	29.3	32.6	29.40	55	47	37	46.33
<i>Saptamī1</i>	27.8	30.1	34.2	30.70	50	49	35	44.67
<i>Saptamī2</i>	28.2	30.4	35.1	31.23	50	49	36	45.00
<i>Aṣṭamī</i>	27.7	29.8	34.8	30.77	47	47	34	42.67
<i>Navamī</i>	27.0	29.6	32.3	29.63	50	44	33	42.33
<i>Daśamī</i>	26.5	29.1	32.6	29.40	51	43	39	44.33
<i>Ekādaśī</i>	26.8	29.8	33.1	29.90	47	38	24	36.33
<i>Dvādaśī</i>	26.9	29.8	30.6	29.10	39	31	26	32.00
<i>Trayodaśī</i>	27.1	29.8	32.3	29.73	35	32	24	30.33
<i>Caturdaśī</i>	27.5	30.1	33.2	30.27	35	30	26	30.33
<i>Amāvasyā</i>	27.8	29.9	30.4	29.37	33	35	24	30.67
<b>Mean</b>	26.88	29.46	32.13	29.49	47.81	43.44	34.75	42.00
<b>SD</b>	0.99	0.92	1.80	1.09	8.40	7.97	8.25	7.81



**Legend:** C: control, PSY: paper small Śrīyantra, PBY: paper big Śrīyantra, MSY: Pañca Loha small Śrīyantra, MBY: Pañca Loha big Śrīyantra

- The last phase Śukla Pakṣaḥ Pūrṇimā was more effective.

**Fig. 7 - Mean radical length of green gram seeds on each tithi at Śukla Pakṣaḥ.**



**Legend:** C: control, PSY: paper small Śrīyantra, PBY: paper big Śrīyantra, MSY: Pañca Loha small Śrīyantra, MBY: Pañca Loha big Śrīyantra

- Kṛṣṇa Pakṣaḥ Saptamī1 at middle phase was more effective.
- Except at pratipat at all other tithi the mean radical length of the Pañca Loha big Śrīyantra was more compared to other samples.

**Fig. 8 - Mean radical length of green gram seeds on each tithi at Kṛṣṇa Pakṣaḥ.**

## **6.3 Effect of Śrīyantra on Germination of Fenugreek Seeds**

### **6.3.1 Effect of Śrīyantras**

Table 10 shows that PBY sample had maximum percentage of germination (99.83 %) compared to all other treatment samples. PBY sample had maximum radical length (0.78 cm) compared to other sample and this increments is higher significant compared to control sample as given in the Table 11. In this MBY sample had maximum fresh weight (24.10 gm) and all treatment samples had more fresh weight compared to control sample. PSY sample had maximum (8.08 gm) oven dry weight. Fig. 9 shows pattern of germinated seeds. Fig. 10 shows graphical representation of effect of Śrīyantras on radical length of germinated seeds. Fig. 11 shows graphical representation of effect of Śrīyantras on fresh weight and oven dry weight of germinated seeds.

### **6.3.2 Effect of Material of Śrīyantras**

PBY sample had % of germinated seeds (99.83 %) and MBY sample had (99.17 %), PBY sample had (0.78 cm) mean radical length and MBY sample had (0.69 cm), PBY sample had fresh weight (21.32 gm) and MBY sample had (24.10 gm), and MBY sample had oven dry weight (8.00 gm) and PBY sample had (8.00 gm).

### **6.3.3 Effect of Size of Śrīyantra**

PBY sample had percentage of germination (99.83 %) and PSY sample had (99.17 %), PBY sample had mean radical length (0.78 cm) and PSY sample had (0.75 cm), MBY sample had fresh weight (24.10 gm) and MSY sample had (22.08 gm) and PBY sample had oven dry weight (8.00 gm) and PSY sample had (8.08 gm).

**Table 10 - Effect of Śrīyantra on germination of fenugreek seeds**

Variable	Treatment				
	C	PSY	PBY	MSY	MBY
Number of seeds	600	600	600	600	600
% of germinated seeds	98.83	99.17	99.83	99.67	99.17
Mean of radicals length (cm)	0.71	0.75	0.78	0.66	0.69
Standard deviation of radicals length	0.31	0.34	0.35	0.26	0.28
Dry weight of seeds (gm)	9.06	8.98	8.99	8.94	8.88
Fresh weight of germinated seeds (gm)	18.75	20.51	21.32	22.08	24.10
% change of fresh weight	-----	9.39	13.71	17.76	28.53
Oven dry weight of germinated seeds (gm)	8.03	8.08	8.00	8.00	8.00
% change of oven dry weight	-----	0.62	-0.37	-0.37	-0.37

**Legend:** C: Control, PSY: Paper small Śrīyantra, PBY: Paper big Śrīyantra, MSY: Pañca Loha small Śrīyantra, MBY: Pañca Loha Śrīyantra

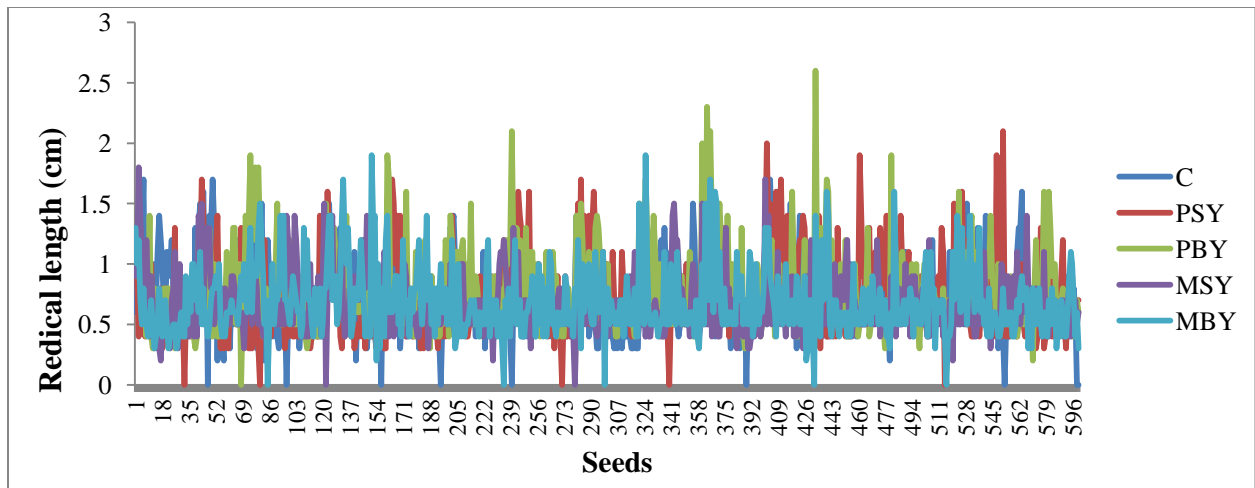
1. PBY sample had maximum % of germination compare to other sample.
2. PBY sample had maximum mean radical length compared to other sample.
3. All treated samples had more fresh weight of germinated seeds compared to control sample.
4. PSY sample had maximum oven dry weight of germinated seeds compared to other sample.

**Table 11 - Summary of two sample independent t-test of mean radical length**

Treatment	p-value
C vs PSY	0.1316
C vs PBY	0.0013**
C vs MSY	0.0104*
C vs MBY	0.3637
PSY vs PBY	0.0906
PSY vs MSY	0.0001***
PSY vs MBY	0.0204*
PBY vs MSY	2.90e-09***
PBY vs MBY	2.41e-05***
MSY vs MBY	0.1316

**Legend:** \* $p < 0.05$ , \*\* $p < 0.01$ , \*\*\* $p < 0.001$

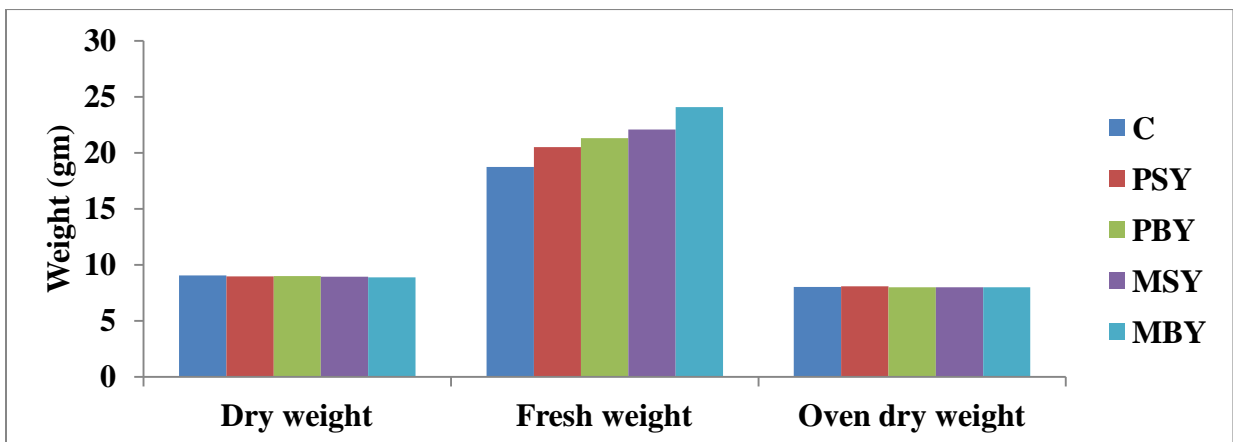
1. PBY sample had shown higher significant and MSY had significant in radical length compared to control sample.
2. PSY had shown highest significant in radical length compared to MSY and had higher significant compared to MBY
3. PBY had highest significant in radical length compared to MSY and MBY.



**Legend:** C: Control, PSY: Paper small *Śrīyantra*, PBY: Paper big *Śrīyantra*, MSY: *Pañca Loha* small *Śrīyantra*, MBY: *Pañca Loha Śrīyantra*

- *Śrīyantra* is more effective than control on mean radical length.

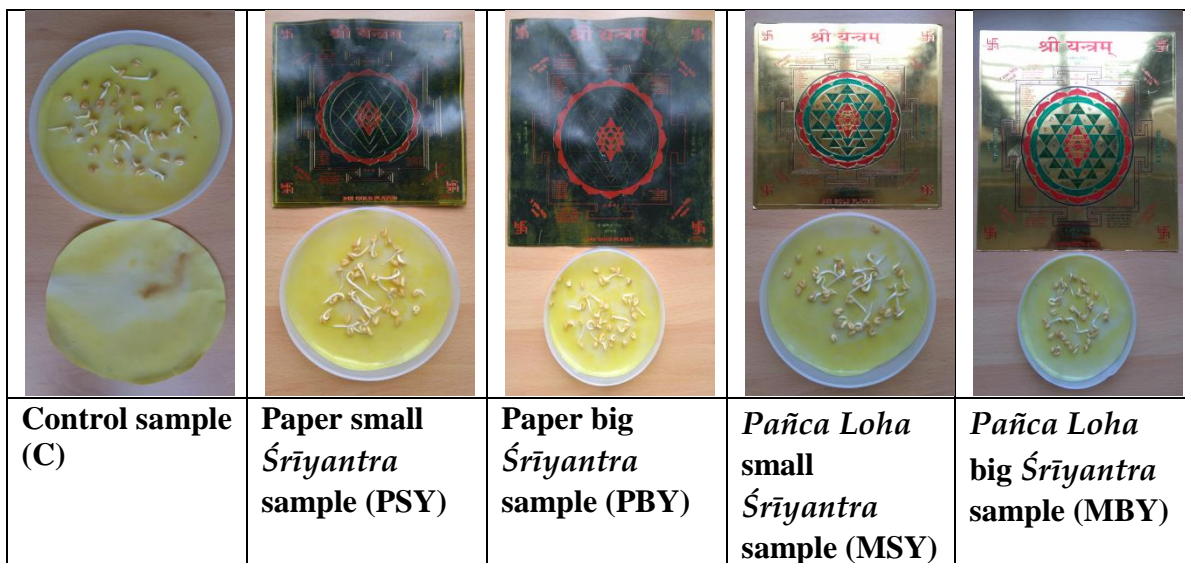
**Fig. 10 - Effect of *Śrīyantra* on radical length of germinated fenugreek seeds.**



**Legend:** C: Control, PSY: Paper small *Śrīyantra*, PBY: Paper big *Śrīyantra*, MSY: *Pañca Loha* small *Śrīyantra*, MBY: *Pañca Loha Śrīyantra*

- Between the samples there is no much difference in dry weight
- Paper *Śrīyantra* was more effective on fresh weight
- Oven dry weight of the germinated seeds was almost same in all the samples.

**Fig. 11 – Dry weight, fresh weight and oven dry weight of germinated fenugreek seeds**



**Fig. 9 – Pattern of germination seeds of fenugreek seeds**

#### **6.4 Effect of Lunar Days on Germination of Fenugreek Seeds**

As per the results given in Table 12.1, 12.2, 13.1 and 13.2 there is variation in fresh weight and oven dry weight of germinated seeds in all types of samples at both *Śukla Pakṣaḥ* and *Kṛṣṇa Pakṣaḥ* of *Caitra Māsa* due to lunar effects. At *Śukla Pakṣaḥ* control (1.73 gm), PSY (1.94 gm), PBY (1.89 gm) and MBY (2.03 gm) samples had maximum fresh weight of germinated seeds on *Tṛtīyā*, and MSY (2.08 gm) on *Trayodaśī*. At *Kṛṣṇa Pakṣaḥ* control sample (1.18 gm) on *Navamī*, PSY (2.02 gm), PBY (2.16 gm) and MSY (2.53 gm) on *Ṣaṣṭhi* and MBY (2.12 gm) on *Aṣṭamī* had their maximum fresh weight of germinated seeds. Maximum oven dry weight of germinated seeds of PBY (0.56 gm) on *Aṣṭamī* & *Ekādaśī*, MSY (0.56 gm) on *Aṣṭamī* and MBY sample (0.58 gm) on *Caturthī* at *Śukla Pakṣaḥ*. At *Kṛṣṇa Pakṣaḥ* PSY (0.62 gm), PBY (0.62 gm), MSY (0.58 gm) and MBY(0.61 gm) samples had maximum oven dry weight on *Ṣaṣṭhi*. As results given in the Table 14.1, 14.2, 15.1 and 15.2 show that there is variation in percentage of germination and radicals of germinated seeds due to the effect of lunar days. At *Śukla Pakṣaḥ* control sample (0.88 cm) and PSY (1.03 cm) on *Dvādaśī*, PBY (0.95 cm) and MBY (0.80 cm) on *Ekādaśī* and MSY (0.88 cm) on *Pañcamī* had their maximum mean radical length. Fig. 12 shows the variation of mean radical length in *Śukla Pakṣaḥ*. Compared to control sample PSY

had highest increment ( $<0.001$ ) on *Pratīpat*, *Dvītīyā* and *Navamī* and significant on *Ekādaśī*. PBY sample had higher significant ( $<0.01$ ) in mean radicals on *Pratīpat*, *Dvītīyā*, *Navamī* and *Ekādaśī*. MSY sample had highest increment ( $<0.001$ ) on *Dvādaśī*, higher significant ( $<0.01$ ) in mean radicals on *Pratīpat*, *Dvītīyā*, and significant ( $<0.05$ ) on *Pañcamī*. MBY sample had highest increment ( $<0.001$ ) in mean radicals on *Pratīpat* and *Dvītīyā*, higher significant ( $<0.01$ ) on *Ekādaśī* and significant increment ( $<0.05$ ) on *Ṣaṣṭhi* and *Saptamī* at *Śukla Pakṣaḥ*. At *Kṛṣṇa Pakṣaḥ* control sample (1.02 cm) and PBY sample on *Dvītīyā*, PBY (1.10 cm) and MBY (2.76 cm) on *Amāvasyā* and MSY (0.80 cm) on *Caturadaśī* had their maximum mean radical length. Fig. 12 shown the variation of mean radical length at *Śukla Pakṣaḥ*. Fig. 13 shown the variation of mean radical length at *Kṛṣṇa Pakṣaḥ*. Compared to control sample PSY had highest increment ( $<0.001$ ) on *Ṣaṣṭhi* and significant on *Dvādaśī* and *Caturadaśī*. PBY sample had higher significant ( $<0.01$ ) in mean radicals on *Ṣaṣṭhi* and significant on *Ekādaśī*. MSY sample had highest increment ( $<0.001$ ) on *Dvītīyā* and significant ( $<0.05$ ) on *Tṛtīyā* and *Caturthī*. MBY sample had highest increment ( $<0.001$ ) in mean radicals on *Dvītīyā* and *Caturadaśī* at *Kṛṣṇa Pakṣaḥ*.

**Table 12.1 - Lunar days effect on fresh weight and oven dry weight of germinated fenugreek seeds at Śukla Pakṣaḥ**

Day	C			PSY					PBY				
	dry weight (gm)	Fresh weight (gm)	Oven dry weight (gm)	dry weight (gm)	Fresh weight (gm)	% change fresh weight	Oven dry weight (gm)	% change oven dry weight	dry weight (gm)	Fresh weight (gm)	% change fresh weight	Oven dry weight (gm)	% change oven dry weight
Pratīpat and Dvītiyā	0.61	1.27	0.54	0.58	1.51	18.90	0.55	1.85	0.61	1.48	16.54	0.52	-3.70
Tṛtīyā	0.59	1.73	0.52	0.59	1.94	12.14	0.54	3.85	0.61	1.89	9.25	0.53	1.92
Caturthī	0.62	1.65	0.51	0.62	1.4	-15.15	0.55	7.84	0.6	1.24	-24.85	0.53	3.92
Pañcamī	0.62	----	0.54	0.62	----	----	0.55	1.85	0.61	----	----	0.54	0.00
Ṣaṣṭhi	0.61	1.48	0.55	0.6	1.58	6.76	0.54	-1.82	0.6	1.59	7.43	0.5	-9.09
Saptamī	0.62	1.41	0.55	0.62	1.69	19.86	0.55	0.00	0.6	1.8	27.66	0.54	-1.82
Aṣṭamī	0.61	1.49	0.55	0.61	1.62	8.72	0.54	-1.82	0.62	1.72	15.44	0.56	1.82
Navamī	0.62	1.49	0.54	0.59	1.6	7.38	0.54	0.00	0.62	1.84	23.49	0.55	1.85
Daśamī	0.58	1.68	0.52	0.59	1.8	7.14	0.53	1.92	0.59	1.83	8.93	0.53	1.92
Ekādaśī	0.59	1.33	0.55	0.59	1.5	12.78	0.55	0.00	0.6	1.8	35.34	0.56	1.82
Dvādaśī	0.62	----	0.55	0.59	----	----	0.53	-3.64	0.58	----	----	0.52	-5.45
Trayodaśī	0.58	1.53	0.52	0.58	1.77	15.69	0.52	0.00	0.58	1.76	15.03	0.52	0.00
Caturadaśī	0.58	1.01	0.51	0.58	0.99	-1.98	0.51	0.00	0.59	1.25	23.76	0.52	1.96
Pūrṇimā	0.62	1.43	0.55	0.6	1.65	15.38	0.53	-3.64	0.58	1.6	11.89	0.54	-1.82

**Legend:** C: Control, PSY: Paper small Śrīyantra, PBY: Paper big Śrīyantra

1. Due to lunar day effect there was variations in fresh and oven dry weight of germinated seeds in Śukla Pakṣaḥ.
2. PSY sample had more fresh weight compared to control sample on all lunar days except on Caturthī and Caturadaśī in Śukla Pakṣaḥ.
3. PBY sample had more fresh weight compared to control sample on all lunar days except on Caturthī in Śukla Pakṣaḥ.
4. Control, PSY and PBY sample had maximum fresh weight of germinated seeds on lunar day Tṛtīyā in Śukla Pakṣaḥ.

**Table 12.2 - Lunar days effect on fresh weight and oven dry weight of germinated fenugreek seeds at Śukla Pakṣaḥ**

Day	MSY					MBY				
	dry weight (gm)	Fresh weight (gm)	% change fresh weight	Oven dry weight (gm)	% change oven dry weight	Dry weight (gm)	Fresh weight (gm)	% change fresh weight	Oven dry weight (gm)	% change oven dry weight
<i>Pratīpatand</i>										
<i>Dvītiyā</i>	0.58	1.53	20.47	0.51	-5.56	0.58	1.75	37.80	0.52	-3.70
<i>Tṛtīyā</i>	0.58	1.64	-5.20	0.52	0.00	0.58	2.03	17.34	0.52	0.00
<i>Caturthī</i>	0.6	1.3	-21.21	0.54	5.88	0.59	1.89	14.55	0.58	13.73
<i>Pañcamī</i>	0.61	----	----	0.54	0.00	0.59	----	----	0.52	-3.70
<i>Ṣaṣṭhī</i>	0.6	1.79	20.95	0.55	0.00	0.6	1.73	16.89	0.54	-1.82
<i>Saptamī</i>	0.62	2.03	43.97	0.55	0.00	0.62	1.96	39.01	0.55	0.00
<i>Aṣṭamī</i>	0.62	1.87	25.50	0.56	1.82	0.62	1.76	18.12	0.55	0.00
<i>Navamī</i>	0.61	1.87	25.50	0.54	0.00	0.6	1.92	28.86	0.54	0.00
<i>Daśamī</i>	0.58	1.9	13.10	0.52	0.00	0.58	1.87	11.31	0.51	-1.92
<i>Ekādaśī</i>	0.58	1.87	40.60	0.53	-3.64	0.58	2.02	51.88	0.53	-3.64
<i>Dvādaśī</i>	0.58	----	----	0.52	-5.45	0.58	----	----	0.52	-5.45
<i>Trayodaśī</i>	0.61	2.08	35.95	0.55	5.77	0.58	1.95	27.45	0.51	-1.92
<i>Caturdaśī</i>	0.6	0.92	-8.91	0.52	1.96	0.58	1.65	63.37	0.53	3.92
<i>Pūrṇimā</i>	0.58	1.64	14.69	0.52	-5.45	0.62	1.94	35.66	0.56	1.82

**Legend:** MSY: *Pañca Loha* small Śrīyantra, MBY: *Pañca Loha* big Śrīyantra

1. MSY and MBY samples had more fresh weight compared to control sample on all lunar days but in MSY except *Tṛtīyā*, *Caturthī* and *Caturdaśī* in *Śukla Pakṣaḥ*.
2. MSY sample had maximum fresh weight on *Trayodaśī* and MBY sample had maximum fresh weight of germinated seeds on *Tṛtīyā* at *Śukla Pakṣaḥ*.
3. MSY sample had maximum oven dry weight on *Aṣṭamī* and MBY on *Caturthī* at *Śukla Pakṣaḥ*.

**Table 13.1 - Lunar days effect on fresh weight and oven dry weight of germinated fenugreek seeds at *Kṛṣṇa Pakṣaḥ***

Day	C			PSY					PBY				
	dry weight (gm)	Fresh weight (gm)	Oven dry weight (gm)	dry weight (gm)	Fresh weight (gm)	% change fresh weight	Oven dry weight (gm)	% change oven dry weight	dry weight (gm)	Fresh weight (gm)	% change fresh weight	Oven dry weight (gm)	% change oven dry weight
<i>Pratīpat</i>	0.59	1.25	0.53	0.62	1.46	16.80	0.55	3.77	0.6	1.52	21.60	0.54	1.89
<i>Dvītiyā</i>	0.62	1.22	0.55	0.58	1.77	45.08	0.52	-5.45	0.59	1.79	46.72	0.53	-3.64
<i>Tṛtīyā</i>	0.61	1.65	0.57	0.59	1.69	2.42	0.56	-1.75	0.58	1.63	-1.21	0.54	-5.26
<i>Caturthī</i>	0.58	----	0.52	0.59	----	----	0.51	-1.92	0.58	----	----	0.51	-1.92
<i>Pañcamī</i>	0.59	1.6	0.53	0.58	1.63	1.88	0.53	0.00	0.58	1.81	13.13	0.52	-1.89
<i>Ṣaṣṭhī</i>	0.58	1.63	0.59	0.58	2.02	23.93	0.62	5.08	0.6	2.16	32.52	0.62	5.08
<i>Saptamī</i>	0.61	1.68	0.55	0.62	1.86	10.71	0.56	1.82	0.61	1.7	1.19	0.53	-3.64
<i>Aṣṭamī</i>	0.61	1.7	0.54	0.62	1.94	14.12	0.55	1.85	0.62	1.98	16.47	0.55	1.85
<i>Navamī</i>	0.59	1.81	0.54	0.59	1.81	0.00	0.53	-1.85	0.58	1.87	3.31	0.51	-5.56
<i>Daśamī</i>	0.58	1.56	0.52	0.58	1.68	7.69	0.53	1.92	0.6	1.8	15.38	0.54	3.85
<i>Ekādaśī</i>	0.59	1.21	0.53	0.58	1.24	2.48	0.53	0.00	0.58	1.22	0.83	0.51	-3.77
<i>Dvādaśī</i>	0.58	1.31	0.53	0.61	1.2	-8.40	0.53	0.00	0.58	1.31	0.00	0.52	-1.89
<i>Tṛayodaśī</i>	0.59	1.58	0.53	0.59	1.71	8.23	0.53	0.00	0.58	1.47	-6.96	0.45	-15.09
<i>Caturdaśī</i>	0.58	1.72	0.52	0.59	1.9	10.47	0.53	1.92	0.59	1.79	4.07	0.51	-1.92
<i>Amāvasyā</i>	0.59	1.76	0.52	0.58	1.85	5.11	0.5	-3.85	0.59	1.93	9.66	0.53	1.92

**Legend:** C: Control, PSY: Paper small *Śrīyantra*, PBY: Paper big *Śrīyantra*

1. Variations in fresh weight and oven dry weight of all samples due to the effect of lunar days at *Kṛṣṇa Pakṣaḥ*.
2. PSY sample had more fresh weight on all lunar days except *Dvādaśī* and PBY sample had more fresh weight on all lunar days except *Tṛayodaśī* compared to control sample at *Kṛṣṇa Pakṣaḥ*.
3. Control sample had maximum fresh weight on *Navamī*, PSY and PBY samples had on *Ṣaṣṭhī* at *Kṛṣṇa Pakṣaḥ*.
4. Control, PSY and PBY sample had maximum oven dry weight on *Ṣaṣṭhī* at *Kṛṣṇa Pakṣaḥ*.

**Table 13.2 - Lunar days effect on fresh weight and oven dry weight of germinated fenugreek seeds at *Kṛṣṇa Pakṣaḥ***

Day	MSY					MBY				
	Dry weight (gm)	Fresh weight (gm)	% change fresh weight	Oven dry weight (gm)	% change oven dry weight	Dry weight (gm)	Fresh weight (gm)	% change fresh weight	Oven dry weight (gm)	% change oven dry weight
<i>Pratīpat</i>	0.59	0.59	-52.80	0.53	0.00	0.58	1.63	30.40	0.52	-1.89
<i>Dvītīyā</i>	0.58	1.91	56.56	0.51	-7.27	0.58	2.09	71.31	0.52	-5.45
<i>Tṛtīyā</i>	0.59	1.85	12.12	0.51	-10.53	0.6	1.96	18.79	0.55	-3.51
<i>Caturthī</i>	0.62	----	----	0.56	7.69	0.58	----	----	0.52	0.00
<i>Pañcamī</i>	0.59	2.03	26.88	0.53	0.00	0.58	1.93	20.63	0.52	-1.89
<i>Ṣaṣṭhī</i>	0.62	2.53	55.21	0.58	-1.69	0.58	1.92	17.79	0.61	3.39
<i>Saptamī</i>	0.6	1.93	14.88	0.55	0.00	0.6	1.97	17.26	0.54	-1.82
<i>Aṣṭamī</i>	0.6	2.06	21.18	0.52	-3.70	0.61	2.12	24.71	0.54	0.00
<i>Navamī</i>	0.6	2.09	15.47	0.53	-1.85	0.59	1.94	7.18	0.54	0.00
<i>Daśamī</i>	0.62	1.97	26.28	0.56	7.69	0.6	2	28.21	0.53	1.92
<i>Ekādaśī</i>	0.58	1.37	13.22	0.52	-1.89	0.59	1.35	11.57	0.53	0.00
<i>Dvādaśī</i>	0.6	1.7	29.77	0.54	1.89	0.62	1.83	39.69	0.56	5.66
<i>Trayodaśī</i>	0.59	1.84	16.46	0.53	0.00	0.58	1.67	5.70	0.53	0.00
<i>Caturadaśī</i>	0.59	1.73	0.58	0.53	1.92	0.58	1.86	8.14	0.51	-1.92
<i>Amāvasyā</i>	0.58	1.94	10.23	0.52	0.00	0.58	1.8	2.27	0.51	-1.92

**Legend:** MSY: *Pañca Loha* small *Śrīyantra*, MBY: *Pañca Loha* big *Śrīyantra*

1. MSY and MBY samples had more fresh weight of germinated seeds compared to control sample on all lunar days except MSY sample on *Pratīpat* at *Kṛṣṇa Pakṣaḥ*.
2. MSY sample had maximum fresh weight of germinated seeds on *Ṣaṣṭhī* and MBY on *Aṣṭamī* at *Kṛṣṇa Pakṣaḥ*.
3. MSY and MBY sample had maximum oven dry weight of germinated seeds on *Ṣaṣṭhī* at *Kṛṣṇa Pakṣaḥ*.

**Table 14.1 - Lunar days effect on germination of fenugreek seeds on radicals on day 1 at**

**Śukla Pakṣaḥ**

Day	C			PSY					PBY				
	Mean (cm)	Std.	% of germ	Mean (cm)	Std.	% change	p-value	% of germ	Mean (cm)	Std.	% change	p-value	% of germ
<i>Pratipatand</i>													
<i>Dvitiyā</i>	0.83	0.31	100	0.58	0.27	-29.39	0.0002***	97.5	0.65	0.26	-21.52	0.0094**	100
<i>Tṛtīyā</i>	0.80	0.44	100	0.74	0.37	-8.41	0.4609	97.5	0.94	0.45	16.51	0.1837	97.5
<i>Caturthī</i>	0.62	0.28	100	0.65	0.27	5.67	0.6544	100	0.63	0.25	2.02	0.8302	100
<i>Pañcamī</i>	0.73	0.35	97.5	0.65	0.32	-10.92	0.1931	100	0.85	0.30	15.36	0.1105	100
<i>Ṣaṣṭhī</i>	0.61	0.23	97.5	0.76	0.40	24.59	0.3020	100	0.73	0.36	18.85	0.3202	100
<i>Saptamī</i>	0.71	0.30	97.5	0.71	0.22	-0.35	0.9226	100	0.85	0.35	19.72	0.0816	100
<i>Aṣṭamī</i>	0.64	0.19	100	0.75	0.35	17.58	0.1901	97.5	0.75	0.25	17.58	0.0632	100
<i>Navamī</i>	0.63	0.35	100	0.88	0.36	39.84	0.0008***	100	0.77	0.31	22.31	0.0098**	100
<i>Daśamī</i>	0.76	0.30	100	0.72	0.23	-4.62	0.8194	97.5	0.79	0.32	3.63	0.7665	100
<i>Ekādaśī</i>	0.60	0.22	97.5	0.76	0.29	27.62	0.0205*	100	0.95	0.50	58.16	0.0018***	100
<i>Dvādaśī</i>	0.88	0.36	100	1.03	0.37	16.71	0.0534	100	0.88	0.43	-0.28	0.7351	100
<i>Trayodaśī</i>	0.68	0.20	100	0.79	0.35	15.44	0.4483	100	0.67	0.28	-2.21	0.2562	100
<i>Caturadaśī</i>	0.70	0.22	100	0.77	0.33	8.90	0.4987	97.5	0.76	0.29	8.19	0.3756	100
<i>Pūrṇimā</i>	0.72	0.35	97.5	0.77	0.41	7.67	0.7441	100	0.80	0.28	11.85	0.0990	100

**Legend:** C: Control, PSY: Paper small Śrīyantra, PBY: Paper big Śrīyantra

\* $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

1. In all the samples there is variations in mean radical length due to the effect of lunar days at Śukla Pakṣaḥ.
2. Control and PSY samples had maximum mean radical length on Dvādaśī and PBY on Ekādaśī at Śukla Pakṣaḥ.
3. Compared to control sample PSY and PBY sample had significant in mean radicals on Pratipat, Dvitiyā, Navamī and Ekādaś at Śukla Pakṣaḥ.

**Table 14.2 - Lunar days effect on germination of fenugreek seeds on radicals on day 1 at**

**Śukla Pakṣaḥ**

Day	MSY					MBY				
	Mean (cm)	Std.	% change	p-value	% of germ	Mean (cm)	Std.	% change	p-value	% of germ
<i>Pratīpatand</i>										
<i>Dvītīyā</i>	0.63	0.33	-23.33	0.0017**	100	0.61	0.24	-26.36	0.0007***	100
<i>Trtīyā</i>	0.76	0.29	-5.30	0.6878	100	0.75	0.26	-7.17	0.6633	100
<i>Caturthī</i>	0.68	0.27	9.31	0.3674	100	0.72	0.29	16.19	0.0808	97.5
<i>Pañcamī</i>	0.88	0.34	19.45	0.0449*	97.5	0.88	0.40	20.48	0.0762	100
<i>Ṣaṣṭhi</i>	0.58	0.16	-5.33	0.4896	100	0.75	0.25	22.13	0.0157*	100
<i>Saptamī</i>	0.68	0.23	-4.93	0.6905	100	0.58	0.23	-18.31	0.0361*	97.5
<i>Aṣṭamī</i>	0.60	0.21	-5.86	0.4090	97.5	0.64	0.21	0.00	0.8415	100
<i>Navamī</i>	0.61	0.16	-3.59	0.2788	100	0.67	0.23	5.98	0.0791	97.5
<i>Daśamī</i>	0.66	0.28	-13.20	0.0666	100	0.67	0.31	-11.88	0.1076	100
<i>Ekādaśī</i>	0.67	0.33	11.30	0.9883	100	0.80	0.34	33.89	0.0079**	100
<i>Dvādaśī</i>	0.66	0.29	-25.50	0.0010***	100	0.73	0.33	-17.28	0.0542	97.5
<i>Trayodaśī</i>	0.64	0.19	-5.51	0.3151	100	0.60	0.20	-11.40	0.0455	100
<i>Caturdaśī</i>	0.63	0.21	-10.32	0.1946	100	0.66	0.27	-6.41	0.3538	97.5
<i>Pūrṇimā</i>	0.64	0.20	-10.45	0.7193	100	0.70	0.28	-3.14	0.9689	100

**Legend:** MSY: *Pañca Loha* small *Śrīyantra*, MBY: *Pañca Loha* big *Śrīyantra*

\* $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

1. MSY and MBY samples had more mean radical length on *Pañcamī* and *Ekādaśī* compared to control sample.
2. Compared to control sample MSY sample had highest increment on *Dvādaśī*, higher significant in mean radicals on *Pratīpat*, *Dvītīyā*, and significant on *Pañcamī* at *Kṛṣṇa Pakṣaḥ*.
3. Compared to control sample MBY sample had highest increment in mean radicals on *Pratīpat* and *Dvītīyā*, higher significant on *Ekādaśī* and significant increment on *Ṣaṣṭhi* and *Saptamī* at *Kṛṣṇa Pakṣaḥ*.

**Table 15.1 - Lunar days effect on germination of fenugreek seeds on radicals on day 1 at**

***Kṛṣṇa Pakṣaḥ***

Day	C			PSY					PBY				
	Mean (cm)	Std.	% of germ	Mean (cm)	Std.	% change	p-value	% of germ	Mean (cm)	Std.	% change	p-value	% of germ
<i>Pratipat</i>	0.69	0.31	95	0.66	0.27	-4.36	0.4012	100	0.70	0.31	2.18	0.7264	100
<i>Dvitiyā</i>	1.02	0.32	97.5	1.07	0.47	4.65	0.6358	100	0.96	0.39	-6.60	0.2437	100
<i>Tṛtīyā</i>	0.69	0.31	97.5	0.63	0.26	-8.36	0.3248	100	0.76	0.44	10.91	0.9612	100
<i>Caturthī</i>	0.82	0.42	100	0.82	0.36	-0.61	0.7160	100	0.88	0.41	7.29	0.4920	100
<i>Pañcamī</i>	0.68	0.31	100	0.59	0.21	-13.92	0.2743	100	0.81	0.39	18.68	0.1024	97.5
<i>Ṣaṣṭhī</i>	0.54	0.13	100	0.64	0.19	19.63	0.0003***	97.5	0.70	0.26	30.37	0.0016**	100
<i>Saptamī</i>	0.67	0.32	100	0.62	0.22	-6.77	0.9651	100	0.75	0.43	12.03	0.2094	100
<i>Aṣṭamī</i>	0.78	0.40	97.5	0.62	0.24	-21.09	0.0496	100	0.70	0.29	-10.86	0.4093	100
<i>Navamī</i>	0.66	0.30	97.5	0.71	0.38	7.60	0.6815	97.5	0.76	0.39	15.21	0.1624	100
<i>Daśamī</i>	0.68	0.31	97.5	0.77	0.30	13.19	0.1631	100	0.71	0.28	3.66	0.7156	100
<i>Ekādaśī</i>	0.70	0.27	100	0.81	0.38	15.30	0.2643	100	0.84	0.29	19.93	0.0293*	100
<i>Dvādaśī</i>	0.73	0.36	100	0.83	0.29	14.14	0.0376*	100	0.84	0.31	15.17	0.0500	100
<i>Trayodaśī</i>	0.79	0.45	97.5	0.77	0.25	-1.91	0.2648	100	0.84	0.26	6.69	0.0946	100
<i>Caturdaśī</i>	0.94	0.38	100	0.78	0.39	-17.24	0.0311*	100	0.95	0.39	1.06	0.9538	100
<i>Amāvasyā</i>	0.86	0.37	97.5	1.10	0.54	28.95	0.0780	100	0.94	0.48	9.94	0.7646	100

**Legend:** C: Control, PSY: Paper small *Śrīyantra*, PBY: Paper big *Śrīyantra*

\* $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

1. Variations in mean radical length in all the samples due to the effect of lunar days at *Kṛṣṇa Pakṣaḥ*.
2. PSY samples had maximum mean radical length on *Amāvasyā*, and Control & PBY samples had on *Dvitiyā* at *Kṛṣṇa Pakṣaḥ*.
3. Compared to control sample PSY sample had highest increment in mean radicals on *Ṣaṣṭhī* and significant on *Dvādaśī* and *Caturdaśī* at *Kṛṣṇa Pakṣaḥ*.
4. Compared to control sample PBY sample had higher significant on *Ṣaṣṭhī* and significant on *Ekādaśī* at *Kṛṣṇa Pakṣaḥ*.

**Table 15.2 - Lunar days effect on germination of fenugreek seeds on radicals on day 1 at**

***Kṛṣṇa Pakṣaḥ***

Day	MSY					MBY				
	Mean (cm)	Std.	% change	p-value	% of germ	Mean (cm)	Std.	% change	p-value	% of germ
<i>Pratīpat</i>	0.64	0.21	-6.55	0.2796	100	0.60	0.20	-12.36	0.1245	100
<i>Dvītiyā</i>	0.71	0.33	-30.81	3.28e-05***	100	0.70	0.28	-32.03	3.62e-06***	100
<i>Tṛtīyā</i>	0.56	0.19	-19.27	0.0282*	100	0.61	0.20	-10.91	0.3354	100
<i>Caturthī</i>	0.59	0.22	-28.27	0.0271*	100	0.67	0.21	-19.15	0.3977	100
<i>Pañcamī</i>	0.66	0.27	-4.03	0.7895	100	0.60	0.22	-12.45	0.5357	97.5
<i>Ṣaṣṭhi</i>	0.57	0.18	6.07	0.4017	100	0.64	0.28	19.16	0.1222	100
<i>Saptamī</i>	0.55	0.21	-18.05	0.1184	97.5	0.63	0.28	-4.89	0.9260	100
<i>Aṣṭamī</i>	0.70	0.29	-10.22	0.4190	100	0.73	0.34	-6.39	0.5532	100
<i>Navamī</i>	0.72	0.25	9.51	0.1576	100	0.64	0.25	-2.66	0.9645	100
<i>Daśamī</i>	0.73	0.35	7.33	0.5739	97.5	0.79	0.33	15.75	0.1837	100
<i>Ekādaśī</i>	0.72	0.39	2.14	0.5034	100	0.72	0.42	2.49	0.4577	100
<i>Dvādaśī</i>	0.65	0.26	-10.69	0.6162	100	0.66	0.24	-9.66	0.6887	100
<i>Trayodaśī</i>	0.66	0.27	-16.56	0.7067	97.5	0.58	0.14	-25.80	0.2632	100
<i>Caturdaśī</i>	0.80	0.31	-14.85	0.1107	100	0.66	0.23	-29.71	0.0006***	100
<i>Amāvasyā</i>	0.75	0.30	-12.87	0.1692	100	0.80	0.33	-6.43	0.4132	100

**Legend:** MSY: *Pañca Loha* small *Śrīyantra*, MBY: *Pañca Loha* big *Śrīyantra*

\* $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$

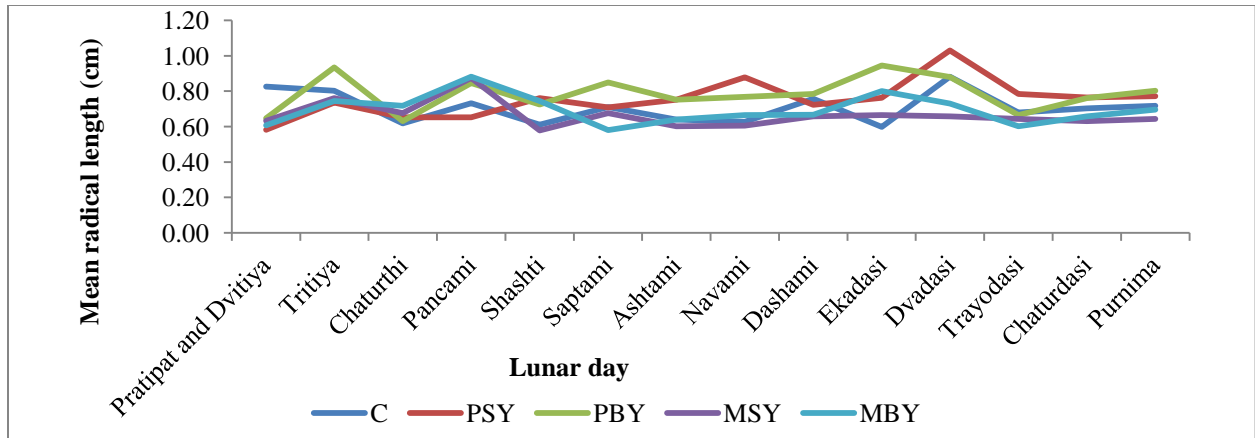
1. MSY sample had maximum mean radical length on *Caturdaśī* and MBY sample had on *Amāvasyā*.
2. Compared to control sample MSY sample had highest increment in mean radicals on *Dvītiyā* and significant on *Tṛtīyā* and *Caturthī* at *Kṛṣṇa Pakṣaḥ*.
3. Compared to control sample MBY sample had highest increment in mean radicals on *Dvītiyā* and *Caturdaśī* at *Kṛṣṇa Pakṣaḥ*.

**Table 16.1 - Atmosphere parameter at Śukla Pakṣaḥ of Caitra Māsa**

Day	Temperature (t) °c				Humidity (h) %				Weather
	6 am	12 noon	6 pm	Average	6 am	12 noon	6 pm	Average	
Pratipatand									Cloudy
<i>Dvītiyā</i>	27.70	30.40	33.50	30.53	36.00	37.00	26.00	33.00	
<i>Tṛtīyā</i>	27.90	30.50	33.80	30.73	35.00	37.00	25.00	32.33	Clear
<i>Caturthī</i>	28.10	31.10	34.30	31.17	33.00	30.00	27.00	30.00	Clear
<i>Pañcamī</i>	28.10	34.00	35.00	32.37	35.00	29.00	24.00	29.33	Clear
<i>Ṣaṣṭhī</i>	28.80	31.20	34.40	31.47	40.00	44.00	32.00	38.67	Cloudy
<i>Saptamī</i>	29.40	31.40	33.90	31.57	44.00	43.00	29.00	38.67	Cloudy
<i>Aṣṭamī</i>	29.60	31.60	34.70	31.97	38.00	38.00	31.00	35.67	Cloudy
<i>Navamī</i>	29.50	31.90	34.20	31.87	42.00	43.00	36.00	40.33	Cloudy
<i>Daśamī</i>	29.10	31.10	32.10	30.77	45.00	42.00	39.00	42.00	Cloudy
<i>Ekādaśī</i>	27.60	30.10	33.20	30.30	49.00	49.00	38.00	45.33	Cloudy
<i>Dvādaśī</i>	29.00	31.20	32.40	30.87	45.00	43.00	39.00	42.33	Clear
<i>Trayodaśī</i>	29.40	31.40	35.20	32.00	42.00	42.00	34.00	39.33	Cloudy
<i>Caturdaśī</i>	29.40	31.80	34.30	31.83	44.00	44.00	35.00	41.00	Clear
<i>Pūrṇimā</i>	29.50	31.60	34.30	31.80	45.00	45.00	36.00	42.00	Clear
<b>Mean</b>	28.79	31.38	33.95	31.37	40.93	40.43	32.21	37.86	-----
<b>SD</b>	0.75	0.92	0.90	0.64	4.83	5.64	5.28	4.98	-----

**Table 16.2 - Atmosphere parameter at Kṛṣṇa Pakṣaḥ of Caitra Māsa**

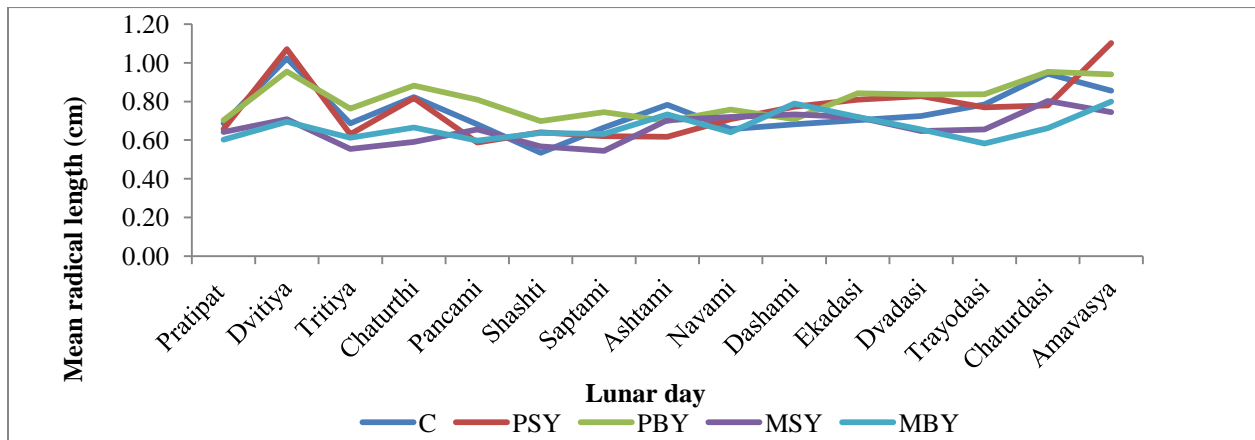
Day	Temperature (t) °c				Humidity (h) %				Wather
	6 am	12 noon	6 pm	Average	6 am	12 noon	6 pm	Average	
<i>Pratipat</i>	29.20	31.60	34.80	31.87	42.00	44.00	26.00	37.33	Clear
<i>Dvītiyā</i>	29.60	32.10	35.20	32.30	42.00	42.00	22.00	35.33	Clear
<i>Tṛtīyā</i>	29.20	31.10	35.20	31.83	37.00	42.00	28.00	35.67	Clear
<i>Caturthī</i>	28.20	31.20	34.80	31.40	42.00	44.00	30.00	38.67	Clear
<i>Pañcamī</i>	29.70	31.80	34.30	31.93	42.00	44.00	35.00	40.33	Clear/ Cloudy
<i>Ṣaṣṭhī</i>	29.20	31.50	33.50	31.40	40.00	41.00	37.00	39.33	Clear/ Rain
<i>Saptamī</i>	28.10	30.80	34.50	31.13	44.00	42.00	35.00	40.33	Clear
<i>Aṣṭamī</i>	29.00	31.40	35.10	31.83	49.00	47.00	37.00	44.33	Clear
<i>Navamī</i>	30.20	31.50	34.30	32.00	46.00	44.00	39.00	43.00	Clear/ Cloudy
<i>Daśamī</i>	28.00	30.80	34.80	31.20	49.00	49.00	36.00	44.67	Clear/ Rain
<i>Ekādaśī</i>	27.60	30.20	34.80	30.87	54.00	53.00	36.00	47.67	Clear/ Cloudy
<i>Dvādaśī</i>	29.00	31.40	35.00	31.80	54.00	51.00	37.00	47.33	Cloudy
<i>Trayodaśī</i>	29.50	31.90	35.20	32.20	51.00	46.00	34.00	43.67	Clear/ Cloudy
<i>Caturdaśī</i>	30.20	32.20	32.40	31.60	50.00	46.00	40.00	45.33	Clear/ Cloudy
<i>Amāvasyā</i>	27.10	29.00	32.80	29.63	54.00	49.00	40.00	47.67	Clear
<b>Mean</b>	28.90	31.21	34.42	31.51	46.71	45.71	34.71	42.38	-----
<b>SD</b>	0.96	0.84	0.90	0.68	5.64	3.69	4.98	4.17	-----



**Legend:** C: Control, PSY: Paper small Śrīyantra, PBY: Paper big Śrīyantra, MSY: Pañca Loha small Śrīyantra, MBY: Pañca Loha big Śrīyantra

- Śukla Pakṣaḥ Dvitiyā at first phase was more effective for PBY, MSY and MBY samples and second phase was more effective for PSY sample.

**Fig. 12 - Mean radical length on each tithi at Śukla Pakṣaḥ**



**Legend:** C: Control, PSY: Paper small Śrīyantra, PBY: Paper big Śrīyantra, MSY: Pañca Loha small Śrīyantra, MBY: Pañca Loha big Śrīyantra

- Kṛṣṇa Pakṣaḥ Dvitiyā was more effective

**Fig. 13 - Mean radical length on each tithi at Kṛṣṇa Pakṣaḥ**

In this chapter explained about in section 6.1 effects of Śrīyantra on germination of green gram seeds, 6.2 effect of lunar day on germination of green gram seeds, 6.3 effect of Śrīyantra on germination of fenugreek seeds, 6.4 effect of lunar days on germination of fenugreek seeds with table and figures. Next chapter is explaining about discussion and conclusion of the study.

## CHAPTER – 7

### DISCUSSION AND CONCLUSION

#### 7.1 Discussion

##### 7.1.1 Effect of *Śrīyantras* on Germination of Green Gram Seeds

###### 7.1.1.1 Effect of *Śrīyantra*

Compared to control all *Śrīyantra* had more effective on mean radical length and fresh weight. *Śrīyantra* have capacity to observe the unknown cosmic energy from the atmosphere, that energy increasing the germination of the seeds. Earlier study was also demonstrated that *Śrīyantra* had significant influence in increasing radicals compared to control sample (Jang, 2016). In the present study there is no effect of *Śrīyantra* on % of germination and oven dry weight compared to control.

###### 7.1.1.2 Effect of Material of *Śrīyantra*

MSY samples had more effective on mean radical length and fresh weight compared to PSY samples. MBY samples had more effective on % of germination, mean radical length and fresh weight compared to PBY. PSY & PBY had more effective on oven dry weight compared to MSY & MBY. Which indicate that *Pañca Loha Śrīyantra* more effective on % of germinated seeds, radical length and fresh weight. Paper *Śrīyantra* more effective on oven dry weight.

###### 7.1.1.3 Effect of Size of *Śrīyantra*

PSY had more % of germination, mean radical length and oven dry weight compared to PBY. PBY had more fresh weight compared to PSY. MBY had more mean radical length, fresh weight and oven dry weight compared to MSY. This showed that bigger size *Pañca Loha Śrīyantra* had more effect on mean radical length, fresh weight and oven dry weight but no effect of % of germination. But bigger size Paper *Śrīyantra* had more effect on fresh weight but no effect on % germination, mean radical length and oven dry weight. The bigger size of *Yantra* has more impact of its influence on the object (FAQ, 2015).

### **7.1.2 Effect of Lunar Days on Germination of Green Gram Seeds**

At almanac *Durmukhināmasamvatsarahḥ uttarāyaṇam śīsiraṭvaḥ phālgunāmāsaḥ* at *Śukla Pakṣaḥ* the lunar day *Pūrṇimā* while moon is exactly  $180^{\circ}$  to the sun is more effective and at *Kṛṣṇa Pakṣaḥ* middle of the phase *Saptamī* is more effective on germination of seeds but between the phase *Kṛṣṇa Pakṣaḥ* was more effective than *Śukla Pakṣaḥ*. Lunar day is the cause of change of phase between sun, moon and earth that might have influenced on electro magnetic waves in the earth's atmosphere and effected on the germination of seeds (Deep, 2014). Earlier studies showed evidence on the influence of lunar phase on certain biological activities as germination rate (Maw, 1967).

### **7.1.3 Effect of Śrīyantra on Germination of Fenugreek Seeds**

#### **7.1.3.1 Effect of Śrīyantra**

Compared to control all *Śrīyantra* had more effective on % of germination and fresh weight. From the atmosphere *Śrīyantra* observe the unknown cosmic energy/ bio energy, that energy increasing the germination of the seeds. Earlier study was also demonstrated that *Śrīyantra* had significant influence in germination of seeds compared to control sample (Kumar, 2016). In the present study there is no effect of *Śrīyantra* on oven dry weight except PSY. PSY & PBY had more effective on mean radical length.

#### **7.1.3.2 Effect of Material of Śrīyantra**

The sample PBY had maximum % of germination and mean radical length compared to MSY and MBY samples. MBY sample had maximum fresh weight compared to PBY and PSY. PSY had maximum oven dry weight compared to MSY and MBY samples. This indicated that Paper *Śrīyantra* had more effect on % of germination, mean radical length and oven dry weight compared to *Pañca Loha Śrīyantra* by observing cosmic energy. But *Pañca Loha Śrīyantra* is more effect on fresh weight compared to Paper *Śrīyantra*.

### **7.1.3.3 Effect of Size of Śrīyantra**

PBY had more effective on % of germination, mean radical length, and fresh weight compared to PSY. PSY had more oven dry weight compared to PBY. MBY had more effective on mean radical length and fresh weight compared to MSY. MSY had more % germination than MBY. This study showed that big size Paper and *Pañca Loha Śrīyantra* had more effect on mean radical length and fresh weight. Bigger size Paper *Śrīyantra* was more effective on % of germination but smaller size *Pañca Loha Śrīyantra* is more effective on % of germination. Smaller size Paper *Śrīyantra* was more effective on oven dry weight but bigger size *Pañca Loha Śrīyantra* not have any effect on oven dry weight.

### **7.1.4 Effect of Lunar Days on Germination of fenugreek Seeds**

At almanac *Hevilambhināmasainvatsarahḥ uttarāyaṇam vasantaṛtvaḥ caitramāsaḥ* of *Śukla Pakṣaḥ* the lunar day *Pratipat* and *Dvitiyā* is more effective and at *Kṛṣṇa Pakṣaḥ* middle of the phase *Ṣaṣṭhi* is more effective on germination of seeds. In the traditional knowledge framework related to agriculture there was always being a common background which stated the influence of lunar and sidereal effects on all farming activities (Mather, 1942).

## **7.2 Conclusion**

### **7.2.1 Effect of Śrīyantras on Germination of Green Gram Seeds**

#### **7.2.1.1 Effect of Śrīyantra**

The present study showed *Śrīyantra* is more effective than control on mean radical length and fresh weight on green gram seeds but not on % of germination and oven dry weight.

#### **7.2.1.2 Effect of Material of Śrīyantra**

The investigation found that *Pañca Loha Śrīyantra* was more effective on mean radical length and fresh weight than paper *Śrīyantra*. Paper *Śrīyantra* is more effective on oven dry weight than *Pañca Loha Śrīyantra*.

### **7.2.1.3 Effect of Size of Śrīyantra**

Smaller size Paper Śrīyantra was more effective on % of germination, mean radical length and oven dry weight and bigger size Paper Śrīyantra was more effective on fresh weight. Bigger size Pañca Loha Śrīyantra was more effective on mean radical length, fresh weight and oven dry weight but size of Pañca Loha Śrīyantra was not effective on % of germination.

### **7.2.2 Effect of Lunar Days on Germination of Green Gram Seeds**

The present study found that at Śukla Pakṣaḥ Pūrṇimā at last phase was more effective, at Kṛṣṇa Pakṣaḥ Saptamī at middle phase was more effective and at overall Kṛṣṇa Pakṣaḥ had more influence than Śukla Pakṣaḥ on the germination of green gram seeds.

### **7.2.3 Effect of Śrīyantra on Germination of Fenugreek Seeds**

#### **7.2.3.1 Effect of Śrīyantra**

The present study showed Śrīyantra is more effective than control on % of germination, mean radical length, fresh weight and oven dry weight on fenugreek seeds.

#### **7.2.3.2 Effect of Material of Śrīyantra**

The present study showed that Paper Śrīyantra was more effective on % of germination, mean radical length and oven dry weight than Pañca Loha Śrīyantra. Pañca Loha Śrīyantra was more effective on fresh weight compared to Paper Śrīyantra.

#### **7.2.3.3 Effect of Size of Śrīyantra**

The present study showed that bigger size Paper Śrīyantra was more effective on % of germination, mean radical length and fresh weight but smaller size Paper Śrīyantra was more effect on oven dry weight. Bigger size Pañca Loha Śrīyantra was more effective on mean radical

length and fresh weight but smaller size *Pañca Loha Śrīyantra* was more effective on % of germination. Bigger size of *Pañca Loha Śrīyantra* had no influence on oven dry weight.

#### **7.2.4 Effect of Lunar Days on Germination of fenugreek Seeds**

The investigation found that at *Śukla Pakṣaḥ Pratipat* and *Dvītīyā* at first phase was more effective, at *Kṛṣṇa Pakṣaḥ Śaṣṭhi* at middle phase was more effective.

In this chapter explained discussion and conclusion of the study in section 7.1.1 & 7.2.1 effects of *Śrīyantra* on germination of green gram seeds, 7.1.2 & 7.2.2 effect of lunar day on germination of green gram seeds, 7.1.3 & 7.2.3 effect of *Śrīyantra* on germination of fenugreek seeds, 7.1.4 & 7.2.4 effect of lunar days on germination of fenugreek seeds with table and figures. Next chapter is explaining about strength of the study, limitation of the study and suggestion for future study.

## CHAPTER – 8

### APPRAISAL

#### 8.1 Strength of the Study

- The study had been carried out to the *Śrīyantrā* effect, its materials and size effect on the germination of green gram and fenugreek seeds.
- The study had been carried out to the lunar days effect with *Śrīyantrā* energy on the germination of green gram and fenugreek seeds.
- In the study two types of materials with same sizes of *Śrīyantrā* were used.

#### 8.2 Limitation of the Study

- Temperature and humidity changes could have been a confounding factor.
- Small sample size in the study of lunar effect.
- Two days germination test was not done.
- Study had been done on only two materials. Required study of more numbers materials of *Śrīyantrā*.
- Study had done on only two different sizes of *Śrīyantrās*. Need to study on various different sizes of *Śrīyantrās*.

#### 8.3 Suggestion for Future Study

- To study on more number of trial studies of different sizes.
- To study effect of orientation towards south, west and east.
- Need more relative study with other materials of *Śrīyantrā* on germination test.
- To study on *Śrīyantrā* with specific *Mantra*.

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## APPENDIX 1

### Raw Data

**Table 1.1 Radical length (cm) of fenugreek seeds and green gram seeds for pyramids effect**

Sl. No.	Green Gram					Fenugreek				
	C	PSY	PBY	MSY	MBY	C	PSY	PBY	MSY	MBY
1	2.4	1.7	1	1.5	3	0.6	1.2	1.1	0.9	1.3
2	1	2	0.5	1.7	2.1	1.2	0.9	0.9	1	1
3	0.4	1.3	1.1	1.2	2.5	0.8	0.4	1	1.8	1.2
4	1.4	1.2	0.6	3.2	2	1	1.3	1	1.4	0.7
5	0.5	1.5	0.6	1.5	1.9	1.2	0.5	0.5	0.9	0.5
6	1.2	1.8	0.5	1	2.4	1.7	0.8	1.1	0.7	0.8
7	1.3	0.8	1.8	1	1.5	0.5	0.4	0.6	0.5	0.5
8	0.4	2.4	0.7	1.4	1.7	0.8	0.9	0.4	1.2	0.5
9	1.2	1.7	1.6	1.8	1.9	1.1	0.6	0.7	0.8	0.4
10	0.8	0.7	1.5	1.6	1.8	0.6	0.5	1.4	0.4	0.5
11	1.3	1.1	1.7	2.5	2.8	0.9	1	0.4	0.9	0.7
12	1.2	1.2	2	1.1	1.2	1	0.5	0.3	0.7	0.5
13	0.5	1.2	1.8	2.2	2.4	0.9	0.3	0.8	0.4	0.3
14	1.2	0.7	0.6	2.4	1.8	0.7	0.5	0.6	0.4	0.4
15	1.4	0.6	0.5	1.5	2	1.1	0.6	0.4	0.3	0.5
16	1.6	1.8	1	2	2.9	1.4	0.4	0.4	0.3	0.8
17	1.2	2	0.9	1.8	1.1	1.2	0.8	0.7	0.2	0.6
18	0.4	1.3	0.7	1.5	2.9	1	0.3	0.5	0.5	0.4
19	1.5	1.5	0.5	0.4	1.8	0.6	0.4	0.8	0.5	0.5
20	0.5	1.4	0.4	0.8	0.5	0.6	0.8	0.7	0.6	0.7
21	1.3	0.8	1	1.6	0.8	1.1	0.5	0.8	0.4	0.5
22	1	1.2	0.6	0.3	2	0.9	0.4	0.8	0.4	0.3
23	1.2	0.4	1.6	1.1	0.4	1	0.6	0.7	0.3	0.4
24	1.2	0.6	1.5	0.6	0.6	1.2	0.4	0.5	0.7	0.4
25	0.9	0.4	2.5	0.3	0.5	0.8	0.5	0.4	0.8	0.5
26	1	0.6	0.5	1	3	0.7	1.3	0.3	1.1	0.5
27	0.4	0.8	1.7	0.3	1	0.6	0.4	1	0.4	0.3
28	0.8	1.3	0.5	1.1	0.8	0.6	0.6	0.4	0.3	0.4
29	0.5	0.6	0.5	2.4	0.3	0.5	0.4	0.5	1	0.5
30	1.5	1	0.5	1	0.5	0.7	0.4	0.7	0.5	0.6
31	1	2.4	1	1.1	0.7	0.5	0.5	0.7	0.7	0.4
32	1	1	0.3	0.6	0.5	0.4	0	0.6	0.5	0.4
33	0.7	1.4	0.3	0.5	0.6	0.5	0.5	0.4	0.5	0.9
34	1.7	0.6	0.3	0.2	1.8	0.6	0.5	0.8	0.4	0.5
35	0.6	1	0.4	0.5	0.3	0.8	0.7	0.7	0.4	0.8
36	0.5	1	0.4	0.6	1.7	0.6	0.4	0.8	0.5	0.6
37	0.6	1.6	0	0.6	0.5	0.4	0.5	0.4	0.7	1
38	0.5	0.7	0.4	0.4	0.3	0.4	0.5	0.4	0.4	1

39	1	0.5	0.4	0.6	0.2	1.3	0.4	0.3	0.5	0.7
40	0.5	0.4	0.3	1	0.4	0.5	0.7	0.4	0.4	0.8
41	1.7	2	2	1.7	3.3	1.3	1	1.2	1.4	0.6
42	1.6	2.5	1.8	1.2	4	1.5	1	1.1	1.3	1.1
43	1.5	1.7	1.2	2.2	2.5	1.4	1.7	0.6	1.5	0.5
44	1.5	1	1.9	2	2.3	1.6	1.4	0.7	0.5	0.8
45	1.5	1.8	1.1	1.4	3.7	0.9	1	0.6	0.9	0.5
46	2	1.2	1.3	2.3	1.9	1.2	0.9	0.8	1.3	0.6
47	1.4	1.9	1.5	1.5	3	0	0.9	0.5	1.2	0.4
48	0.4	1.3	1.2	1.3	2.5	1.4	1	1.3	1.3	0.5
49	1	1	0.8	1.4	1.8	1.3	0.8	1	0.8	0.7
50	1	1.9	0.3	1.2	1.5	1.7	0.5	0.4	0.8	0.8
51	1	2	0.4	1.6	1.5	1.3	0.8	1	0.5	0.8
52	0.9	1.5	2	2.3	2.8	1	1.1	0.8	0.6	0.9
53	1.4	1.2	1.9	1.8	2.3	0.2	1.4	0.4	0.9	0.8
54	1.4	1	1.8	2.4	3.3	0.9	0.6	0.4	0.7	1
55	1.8	2.3	1.5	2.8	2.8	0.3	0.3	0.7	0.8	0.5
56	0.5	3.3	0.5	2	1.8	0.3	0.8	0.7	0.6	0.4
57	0.4	1	1.5	2.1	1	0.2	0.3	0.7	0.7	0.5
58	1	1.9	1.1	1.7	1.8	0.7	0.4	0.6	0.8	0.4
59	1.1	1.7	2	3.2	2	0.9	0.8	1.1	0.6	0.6
60	1	2.2	2	1.8	2.8	0.8	0.3	0.6	0.5	0.6
61	0.5	2.4	1.5	0.5	2.3	0.3	0.7	0.5	0.5	0.6
62	0.4	1.5	1.8	2.6	1.5	0.8	1	0.6	0.9	0.7
63	0.7	1.9	2.7	0.9	1	0.5	0.9	1.3	0.9	0.6
64	0.9	0.4	1.5	1.6	0.8	0.6	0.7	1.3	0.8	0.6
65	0.8	1.9	2	0.8	2.5	0.5	0.5	0.5	0.7	0.6
66	1	0.8	0.5	0.4	0.8	1.2	0.5	0.7	0.5	0.5
67	0.5	0.6	0.7	0.3	0.3	0.7	0.6	1	0.5	0.7
68	0.5	0.4	3	1.8	0.4	0.6	1.3	0	0.6	0.9
69	0.3	0.5	0.8	0.6	0.8	0.7	0.8	0.6	0.5	0.7
70	0.5	1.5	0.6	0.7	1	0.6	0.3	0.7	0.3	1
71	0.3	0.9	1.2	0.4	1.3	0.7	1	1.4	0.6	0.8
72	0.5	0.5	0.4	0.7	0.5	0.8	1.2	1.2	0.6	0.6
73	1	1.2	0.5	1.6	2.4	0.8	0.3	1.4	0.7	1
74	0.8	1.6	0.7	0.6	0.7	0.3	0.4	1.9	0.7	1.3
75	0.3	0.3	0.9	0.5	0.9	0.5	0.3	1.4	0.5	0.6
76	0.4	0.4	0.3	1	0.5	1.4	0.4	1.2	0.6	1
77	0.6	0.4	0.3	0.5	1	0.7	0.5	1.8	1	0.9
78	0.4	0.3	3	0.6	0.2	0.3	0.7	1.7	0.8	0.9
79	0.6	0.5	0.2	0.3	0.2	0.3	0.3	1.8	0.5	1.3
80	0.9	0.7	0	0.4	0.2	0.9	0	1.2	0.5	1.5
81	2.5	1.4	2.4	2.9	2.1	1.5	1	0.9	0.5	1.2
82	1.7	0.5	1.9	2.3	1.9	0.8	0.9	0.4	0.4	0.9
83	1.3	0.3	2	1.1	2.4	0.2	1.2	0.6	0.4	0.5

84	1.1	0.4	1.9	1.5	2.4	0.7	0.6	0.8	0.6	0.7
85	0.7	1.4	2.1	2	3	1.2	0.6	0.6	0.5	0
86	0.7	1.5	1	0.7	2.1	0.9	0.5	0.5	0.5	0.5
87	0.9	1	0.9	1.8	1.3	0.5	0.4	0.6	0.6	0.6
88	1	1.8	1.8	0.7	0.8	0.4	0.6	0.7	0.5	1
89	0.8	1.6	1.5	0.6	0.9	0.8	0.8	0.6	0.8	0.5
90	1.2	0.7	0.8	0.4	1.4	0.4	0.9	1	0.5	0.7
91	1.2	0.6	1.1	0.7	2.2	0.4	0.5	1.5	0.6	0.7
92	1.1	0.8	0.4	1.3	0.7	0.3	1	0.6	0.5	0.8
93	1.4	0.8	0.6	0.8	0.3	0.7	0.5	0.5	0.7	1.4
94	0.8	0.8	0.3	1.3	0.7	0.4	1	0.5	0.5	0.8
95	1.1	1.1	0.5	0.5	2.3	0.8	0.7	0.5	0.6	1.4
96	0.6	0.4	0.4	1.5	1.8	0.6	0.3	0.6	0.5	0.7
97	0.8	0.8	1.5	1.2	2.2	0	0.5	0.7	1.4	0.7
98	0.5	0.3	0.9	0	1.4	0.5	0.4	1.1	1.2	0.6
99	0.7	0.9	1.1	0.9	2.4	0.8	0.8	1.2	0.9	0.5
100	1.1	0.2	0.3	0.5	1	0.5	0.5	0.5	0.8	0.7
101	0.3	0.4	0.5	0.7	1	0.5	0.4	0.7	0.5	0.9
102	0.4	1.2	0.8	0.2	0.5	1.1	0.4	0.5	1.4	0.8
103	0.7	0.6	1.7	0.6	1.1	0.8	0.6	0.5	1.2	0.7
104	1.4	0.2	1.4	0.7	1.2	0.6	0.4	0.8	0.9	0.6
105	0.6	1.1	1.4	1.1	0.8	0.3	0.4	0.5	0.7	0.6
106	0.7	0.5	0.9	0.3	1.4	0.5	0.5	0.7	0.5	0.4
107	0.5	0.8	0.4	1.1	0.9	0.4	0.9	0.9	0.4	0.5
108	0.6	0.6	1.5	1	1.1	0.8	0.7	0.4	0.6	1.3
109	0.6	0.4	0.5	0.6	0.6	0.4	1	0.4	0.4	0.8
110	0.8	0.6	0.4	0.3	0.9	0.5	0.8	0.3	0.4	1.2
111	0.3	0.9	0.3	2.5	0.8	0.9	0.8	0.4	0.4	0.7
112	0.5	1.1	0.8	1.9	0.9	0.7	0.3	0.4	1	0.7
113	0.4	1.8	0.5	1.5	0.6	0.5	0.4	0.5	0.5	0.5
114	0.2	0.8	0.9	1.5	0.9	0.7	0.4	0.6	0.8	0.4
115	0.5	2.1	0.4	1.2	0.8	0.7	0.5	0.7	0.8	0.8
116	0.6	1.6	0.6	1.3	1	0.5	0.4	0.4	0.7	0.5
117	0.6	0.6	0.3	2.8	1.2	0.4	0.4	0.5	0.9	0.7
118	0	1	0.3	0.5	0.8	1	1.4	0.4	0.6	0.8
119	0.5	1.2	0.7	1.6	0.8	0.6	0.6	0.7	0.4	0.4
120	0.5	1.4	1.2	0.4	0.5	0.4	1.1	0.5	0.9	0.5
121	1.3	1.7	2.3	3	2.3	0.8	1.2	1.4	1.5	0.8
122	0.5	1.4	1.8	3.1	3.1	0.7	0.9	1.5	0	0.8
123	0.4	1.6	1.7	1.4	2.6	1.5	1.6	1	0.7	1.1
124	1.1	0.8	1.8	1.9	1.7	1.5	1.2	1.3	1.4	1.4
125	1	2	1.7	2.4	1.1	1.1	0.9	1.4	1.2	1.4
126	1.5	0.7	0.7	1	1.5	1.3	1.2	1.1	1.4	0.7
127	0.6	2	1.4	1.7	1.8	1.2	1.3	1.3	0.7	0.8
128	0.6	1.3	1.9	2	2.3	0.9	0.8	1.1	0.8	0.9

129	1.5	1.8	0.5	1	2.7	0.7	1	1.1	0.7	0.5
130	1	0.7	1.2	3.1	1	1	1	0.9	0.7	0.6
131	1.4	1.4	0.4	1.7	3.1	1.3	0.4	1	1.1	0.9
132	1.7	0.7	1.3	1.8	2.8	0.7	0.3	0.8	1.3	1.4
133	1.2	1	0.7	2	2.9	1.2	0.7	0.8	0.6	1.7
134	1.5	1.3	1.8	2.1	2.6	0.7	0.4	0.9	0.4	1.2
135	0.7	1.9	1	2	1.9	0.6	0.6	1.4	0.5	1
136	1	1.1	1.4	1.2	0.8	0.6	0.8	0.6	0.5	1.3
137	1	0.8	1.2	1.5	2	0.8	0.8	0.8	0.8	0.9
138	1.3	1.3	1.5	1	3	0.5	0.4	0.8	0.6	0.4
139	1.4	1.1	1.8	2.1	0.7	0.4	0.6	0.7	0.8	0.5
140	1	1.7	1	0.7	0.5	1.1	0.3	0.8	0.9	0.8
141	1.5	0.7	1.6	0.5	0.3	0.2	0.4	0.7	0.8	0.7
142	0.9	1.3	1.2	2	1	0.7	0.5	0.6	0.7	0.7
143	0.6	0.5	0.8	2.2	1	0.8	0.4	0.6	0.7	0.9
144	0.6	0.7	1.1	0.7	0.7	0.5	0.6	0.7	1	1.2
145	1	1	0.6	1	0.3	0.9	0.4	0.7	1.2	1
146	1.2	1.3	0.9	1.2	0.5	0.8	0.7	1	0.9	0.7
147	1.2	1.5	0.3	0.5	0.3	0.6	0.3	1.1	0.8	0.4
148	1.3	0.9	1.9	1.2	0.6	0.3	0.8	0.5	1.4	0.5
149	1.5	1	0.2	1.5	0.5	0.5	0.5	0.4	1.1	0.5
150	0.5	0.7	1.4	2.2	0.3	1	0.4	0.8	1	0.4
151	1.8	0.8	1.9	1.7	0.5	0.5	0.4	0.6	1.4	1.9
152	0.8	1	0.8	1.4	0.9	0.6	0.5	0.5	1.3	1.3
153	0.7	0.3	1	1.7	0.6	0.4	0.5	0.7	1	1.4
154	0.5	0.6	0.3	0.6	0.9	0.3	0.3	0.5	0.9	0.2
155	1.1	0.5	1.7	0.7	0.7	0.4	0.7	0.5	0.8	1
156	1.3	0.7	0.6	0.9	0.9	0.5	0.6	0.6	0.5	0.3
157	0.4	1	0.6	0.5	0.6	0	0.6	0.4	0.4	0.8
158	1.2	0.9	1.4	1	1.8	0.7	0.5	0.8	0.4	0.7
159	1.7	0.5	0.6	0.5	0.5	0.4	0.3	1	1.1	0.4
160	1.5	0.8	0	0	0.4	0.6	0.3	0.4	1	1.2
161	1.6	1.9	2.3	2.1	0.9	0.5	1.5	1.9	0.4	1.4
162	1.8	3.2	1.5	2.4	1.2	0.7	1.7	1.7	0.4	0.6
163	2.1	3	1.8	1.8	1	0.5	1.1	0.5	0.5	0.6
164	1.8	3.9	2.3	1.5	1	0.9	1.7	0.7	0.6	0.6
165	2.3	1.7	3.4	0.5	2.5	0.7	1.5	0.8	0.4	0.7
166	1.7	2	1.3	1.5	1.5	1.2	1	0.9	0.5	0.9
167	1	3	2.4	1.2	0.3	0.5	1.4	0.6	0.7	0.9
168	1.5	2.8	1.5	1.8	1.9	0.9	0.9	0.6	0.9	0.5
169	0.7	2.3	2	1.4	0.3	0.3	1.4	0.7	0.9	0.7
170	1.9	1.4	1	2.2	0	0.5	1.1	0.7	0.7	0.4
171	0.5	2.5	0.3	2.5	0.5	0.7	1.1	0.7	0.7	1.2
172	1.7	2.3	1.5	1.7	0.8	1	1	0.5	1	0.6
173	0.2	1.6	0.5	1	1.5	0.4	0.4	1.6	0.9	0.7

174	0.6	1.5	1	1.2	0.7	0.5	0.8	0.6	0.4	0.6
175	1.6	2.4	1.5	1	1	0.5	0.8	0.7	0.6	0.4
176	1.4	1.3	0.6	0.9	0.5	0.5	0.5	0.6	0.5	0.8
177	1.5	1.6	0.8	1.3	0.8	0.4	0.4	0.5	0.5	0.6
178	1	0.9	2	1	0.5	0.6	0.7	0.4	0.6	0.8
179	1.4	0.6	0.3	3.5	1.6	0.5	0.4	1.1	0.5	0.8
180	1.7	0.5	1.1	1.3	2.2	0.7	0.5	0.5	0.4	1
181	1.2	1	2.5	1.6	1.2	0.3	0.9	0.5	0.4	1.2
182	0.5	2.6	0.5	1.2	1.2	0.8	0.3	0.5	0.7	0.7
183	0.5	1.7	1	1.5	0.3	1.1	0.5	0.5	0.5	0.5
184	0.6	0.4	0.8	1.5	0.5	0.6	0.3	0.8	0.6	0.7
185	0.6	1.2	1.8	1	1.8	0.5	0.5	1.2	0.7	0.9
186	1.1	1.8	0.5	0.6	2.3	0.7	0.5	0.5	0.7	1.4
187	2.2	1.6	0.5	1.7	2.5	0.5	0.7	0.5	0.3	0.7
188	1.5	1.5	2.3	2.1	2.8	0.7	0.6	0.3	0.5	0.9
189	0.4	2.3	0.6	1.2	2	0.9	0.6	0.9	0.6	0.5
190	0.6	1	2	0.6	0.5	0.6	0.7	0.5	0.6	0.8
191	1	0.3	0.7	1	2.5	0.7	0.4	0.6	0.5	0.4
192	0.3	0.4	1.3	2	2.3	0.7	0.5	0.4	0.5	0.8
193	1	0.3	0.5	1.2	1.7	0.4	0.3	0.8	0.5	0.5
194	0.4	0.3	0.7	2.5	2.5	0.3	0.7	0.4	0.5	0.8
195	1.6	0.9	0.9	2	1.7	0	0.4	0.6	0.5	1
196	1.8	2	0.7	2.9	1.4	0.5	0.4	0.5	0.7	0.6
197	1.6	0.5	0.9	0.7	2.7	0.5	0.6	0.6	0.6	0.6
198	0.3	0.5	1	0.5	3	0.5	0.4	1.2	0.6	0.8
199	1.9	1.7	0.3	1.1	2.9	0.8	0.5	1	0.5	0.5
200	1.4	3.4	1	1.2	2	0.8	0.7	0.4	0.5	0.7
201	2.8	0.4	2.5	1.4	3.5	1.3	0.6	1.4	1	0.5
202	1.6	0.5	0.6	3.8	2.8	1.3	1.4	1.2	0.8	1.2
203	1.8	1	2	1.3	2.5	1.4	1	1	0.5	0.6
204	1.5	1.8	2.5	0.5	2.9	1	0.5	0.5	0.4	0.3
205	2	0.3	1.7	0.6	1.8	0.9	0.6	1.1	0.5	0.4
206	1.9	0.7	1.9	0.8	1.9	0.6	0.5	0.4	0.6	1
207	2.3	1.7	1.8	0.5	2	1.1	0.5	1	0.7	0.5
208	1.5	2.8	1.5	0.4	3.2	1.1	0.7	1.1	1	0.4
209	1	2.3	1.8	0.7	2.5	0.5	0.6	1.2	1	0.5
210	1.7	1.2	2	0.5	4.2	0.8	0.5	0.8	0.5	0.4
211	1.9	0.8	3	1.7	2.8	1	0.4	1	0.6	0.5
212	1	1.5	2.1	0	2.5	0.7	0.4	1	0.5	0.5
213	1	0.6	3	0.6	2.3	0.9	0.5	0.7	0.5	0.6
214	1.5	0.3	1.7	1.3	2	0.9	0.9	1.5	0.5	0.7
215	1.6	1.2	2.5	0.4	2.5	0.5	0.6	0.7	0.6	0.6
216	0.3	0	1.7	0	2	0.7	0.7	0.5	0.6	0.7
217	2	1.4	2.6	0.3	1.6	0.4	0.5	0.9	0.6	0.5
218	1.8	0	2.8	0.7	2.2	0.6	0.6	0.8	0.7	0.6

219	1.7	1.4	1.7	3	1.7	0.7	0.7	0.6	0.7	0.4
220	2.4	2.8	1	2.5	0.6	0.5	0.9	0.4	0.7	0.6
221	0.6	2.6	1.3	3.9	2.5	0.5	0.8	0.6	0.7	0.5
222	1.3	1.8	0.7	2	2.7	1.1	0.5	0.5	0.4	0.5
223	0.5	2.5	1.8	2.3	2.8	0.3	0.6	0.5	0.6	0.5
224	1.7	2.5	0.7	2.7	3.1	0.6	0.7	0.7	0.8	1
225	2	2	2.3	1.8	0.4	0.7	0.7	0.8	0.8	1.2
226	1.9	1.3	2	1.1	2.4	0.6	0.6	0.9	0.4	0.4
227	0.4	1.9	1.5	2.7	2.2	0.8	0.9	0.7	0.6	0.7
228	0.6	1.4	3	0.8	2.4	0.6	0.7	0.4	0.2	0.7
229	2.1	1	0.7	2	0.9	0.5	0.8	0.9	0.7	0.5
230	1	1	2.2	0.5	1.2	0.4	0.9	0.6	0.5	0.7
231	0.7	1	1.5	1.6	0.7	0.8	0.8	0.6	0.7	0.4
232	0.5	1.5	0.7	3.2	0.9	0.6	0.6	0.8	1	0.5
233	1.7	2	1.9	3.4	1.6	0.8	0.6	0.5	1.1	0.6
234	1	1.9	0.6	2	0.6	0.4	0.4	0.7	1	0.3
235	1.8	2.2	0.5	2.2	0.7	0.3	1.2	0.6	1.2	0
236	1.7	1	0.5	2	0.5	1	0.8	0.9	1	0.7
237	0.3	0.5	1.9	1.7	1	0.5	0.9	1.2	0.8	0.6
238	2.4	2.2	1	3	1.4	0.6	1	1	0.6	0.8
239	1	1.7	0.5	1.5	0.7	0.4	0.6	1.2	0.4	0.4
240	0.4	0.8	1.7	1.4	0.5	0	1.1	2.1	0.5	0.7
241	2.2	2.2	3	3.5	2.5	0.7	0.7	1.1	1.3	0.7
242	2.1	4	2	4.1	3.4	1.1	1	0.6	0.7	1.2
243	1.8	3.2	1.3	1.9	4.2	1	1.1	1.3	0.9	0.5
244	1	2.3	2.3	2	3	0.9	1.6	0.7	1.1	0.6
245	1.3	1.7	1.8	2.1	1.5	0.6	1.4	1.2	0.5	0.7
246	2.6	0.4	2.3	2.8	3.7	0.9	1.3	0.9	0.5	0.4
247	1.2	0.7	1.8	3.5	3.9	0.8	1	0.7	0.4	0.4
248	2.1	1.8	2.1	3.2	3	0.4	1	0.7	0.7	0.4
249	0.6	2	2.3	2.8	2.3	0.8	1.1	1.3	0.7	0.6
250	1	0.7	1.5	2.7	2.4	0.4	1.1	0.5	0.5	0.6
251	1.7	1.1	2.5	2.5	1.9	0.7	1.6	1.1	0.6	0.7
252	1.9	2.3	2	1.5	2.1	0.4	0.5	0.8	0.3	0.7
253	2	0.6	2.6	3.2	1.5	0.9	0.4	1.1	0.8	0.9
254	0.5	2.4	0.4	1.7	1.5	0.5	0.8	0.7	0.5	0.8
255	0.8	1.8	2.4	2.4	1	0.4	0.7	0.7	0.5	0.4
256	0.6	3	0.5	2.5	0.6	0.6	0.5	1	0.5	0.7
257	2.3	2.8	2	1.3	0.7	0.8	1	0.6	0.6	1
258	1.4	3	1	3.2	0.5	0.6	0.8	0.4	0.7	0.5
259	0.7	1.5	1.8	1.2	3.1	0.6	0.7	0.7	0.5	0.9
260	1.8	1.1	2	2.5	2.3	0.5	0.6	0.5	0.6	0.4
261	1.2	2.2	1.5	2.2	2.3	0.8	0.7	0.7	0.6	0.8
262	2.2	2.2	0.5	2.4	2.1	0.6	0.8	1.1	0.5	0.4
263	2.4	1.1	1	2	2	0.7	0.4	0.6	0.7	0.6

264	0.5	0.9	3	2.5	2.9	0.9	0.5	0.5	0.6	1.1
265	1.4	1.3	1.7	2	0.8	0.4	0.8	0.8	0.5	1
266	1.5	0.5	0.6	3.3	0.7	0.7	1	1.1	0.6	0.5
267	1.2	2	0.5	3	3.1	0.7	0.3	0.8	0.5	0.5
268	0.7	1.9	0.5	2.1	2.5	0.4	0.7	0.9	0.6	0.4
269	0.7	1	0	1.7	3.2	0.6	0.9	0.4	0.7	0.6
270	0.5	1.8	0.3	0.4	1	0.5	0.5	0.5	0.8	0.5
271	1	2	1.7	1.6	1.8	0.8	0.4	0.6	0.5	0.5
272	0.6	0.5	3	2.5	3	0.4	0	0.4	0.6	0.6
273	0.7	0.8	1.5	2.3	1.4	0.4	0.6	0.4	0.7	0.5
274	1.8	0.5	1.8	0.4	1	0.7	0.9	0.7	0.8	0.9
275	1.2	2.3	2.2	0.7	1.3	0.4	0.4	0.8	0.5	0.8
276	0.3	1.8	1.5	0.7	1	0.5	0.5	0.8	0.6	0.5
277	2	1.1	1.9	1.9	2.8	0.6	0.4	0.6	0.6	0.5
278	0.3	2.1	2.7	1.1	2	0.6	0.4	0.7	0.4	0.6
279	0.7	1	1.7	0.3	0	0.5	0.5	0.5	0.4	0.4
280	1	0	2.3	1	0.5	0.8	0.5	0.6	0	0.8
281	2	2.2	1.3	2.7	2.2	1.4	0.5	1.4	0.5	0.7
282	0.8	2.6	2.2	1.8	2.5	0.9	1.5	0.5	0.6	1.2
283	1.3	1	2.6	1.5	3	1.5	0.8	0.7	0.7	0.9
284	1.9	1.4	2	0.7	2	1.4	1.7	1.5	0.6	0.3
285	0.8	3.2	1.9	3.3	1.7	1.2	0.8	1.2	0.5	1
286	0.5	1.7	1.4	1.7	2.3	0.9	1.4	0.7	0.8	0.6
287	0.8	1	1.9	2	0.9	1.3	1.2	1	0.5	0.8
288	1	1.8	2.3	2.7	2	1.2	1.3	0.8	0.6	0.8
289	1.7	1.7	2	1.8	3	0.4	1.4	1.1	0.8	1
290	1.9	2.4	0.9	2.5	2.9	0.5	0.5	0.9	0.6	0.6
291	1.4	1.1	0.5	2.5	2.8	0.7	1.3	0.6	0.5	0.5
292	1.1	1.9	1.7	2.2	1.6	0.6	1.6	0.6	0.6	0.5
293	1.4	1.7	2.5	1.4	1.5	0.5	1.2	1.3	0.5	1.1
294	0.9	0.5	2	2.8	2.4	0.3	1.2	1.4	0.4	0.7
295	1.7	0.5	1.8	1.2	1.3	0.3	1.1	1.3	0.5	0.6
296	1.7	0.7	0.9	1.5	1.2	0.7	0.9	1.1	0.5	0.6
297	1	3.2	2.6	2.4	0.5	0.6	0.5	0.5	0.5	0.8
298	1.6	0.5	2.2	1.7	1.5	0.6	1.1	0.5	1.1	1.1
299	1.4	1.6	2	1.2	2.3	0.4	0.5	0.8	0.4	0
300	1.7	2.1	1.1	3	0.2	0.6	1	0.8	0.5	0.8
301	1	3.4	2.5	2.3	3.3	0.8	0.9	1	0.4	0.8
302	1.2	1.9	1	1	1	0.8	0.8	0.5	0.6	0.5
303	2.5	1.2	2.5	0.8	0.4	0.4	0.8	0.7	0.5	0.7
304	2	2.4	0.7	2.4	0.9	0.4	1.1	0.5	0.6	0.6
305	1.4	3.5	0.5	3.2	1	0.3	0.7	0.6	0.6	0.6
306	2.4	2.8	1.7	0.5	0.8	0.7	0.4	0.4	0.7	0.5
307	1.3	2	1.9	0.5	0.5	0.3	0.6	0.4	0.7	0.6
308	1.5	1	1.5	0.4	0.3	0.5	0.6	0.6	0.6	0.5

309	0.5	0.8	1.8	0.3	2.6	0.6	0.5	0.6	0.5	0.7
310	1	0.5	2.2	1.8	0.7	0.3	1.1	0.5	0.5	0.7
311	1.3	1.8	0.5	1	0.3	0.5	0.8	0.6	0.5	0.4
312	1.6	1.2	2	0.5	0.7	0.4	0.8	0.6	0.7	0.6
313	1.5	2	1	2.3	0.4	0.4	0.5	0.5	0.7	0.9
314	2	0.4	1.5	0.7	1.8	0.5	0.5	0.7	0.5	0.7
315	1.1	1.2	0.7	1.1	1.1	0.4	0.6	0.6	0.9	0.5
316	1.4	0.3	2	2.3	1	0.3	0.4	0.7	0.7	0.5
317	0.4	0.3	0.5	0.6	2	0.3	0.7	0.5	0.7	0.6
318	0.9	0.5	0.5	0.3	0.7	0.6	0.6	0.4	1.1	0.8
319	0.5	1.7	0	0.5	0.6	0.3	0.8	0.9	0.6	0.4
320	1.5	1.3	1	0.6	1.5	0.3	0.4	0.7	0.4	0.4
321	2.4	2.6	2	3.5	5.6	0.8	1.1	1.5	0.5	1.5
322	2	1.5	2.5	3.7	3.4	0.6	0.7	0.7	0.5	0.7
323	2.6	1.6	3	2.2	2.3	0.5	0.8	1.1	0.5	1
324	1.7	0.5	3	2.4	4.8	1.5	1	1.1	0.9	0.5
325	1.7	2.5	1.8	2.9	3.8	0.4	0.6	1.7	0.4	1.9
326	2.4	2.7	2.8	3.6	3.6	0.6	0.5	1.3	0.5	1
327	1.8	2.9	3.2	2.8	4	0.9	0.5	1.1	0.4	0.6
328	0.4	1	2.1	2.7	2.3	0.5	0.5	0.7	0.4	0.5
329	1.6	1.6	1.2	0.5	2.8	0.6	0.6	1	0.6	0.5
330	0.4	1	2.4	3.9	2.1	0.9	1	1.4	0.5	0.5
331	1.4	2.2	1.9	2.9	3.4	0.8	0.6	1.1	0.7	0.6
332	2	1.7	2.8	2.5	2.1	0.7	0.9	0.5	0.6	0.5
333	1.7	1.4	1.2	1.5	3.5	0.5	0.6	0.9	0.6	0.4
334	1.9	1.1	1.9	3.5	4.2	0.6	0.6	1	0.4	0.5
335	1.5	1.3	2.5	0.5	2.5	1.2	0.4	0.5	0.5	0.5
336	0.9	2.4	1.2	1.1	2.3	0.9	0.5	0.4	0.4	0.6
337	0.5	2.2	2.5	0.4	2	1.3	0.9	0.5	0.4	1.1
338	0.5	1	1.8	0.7	3.5	0.9	0.7	0.9	0.5	0.5
339	1	1	2.7	3.6	0.5	0.7	0.4	0.6	0.6	0.5
340	1.7	0.4	2.4	1.8	3	0.6	0	0.6	0.5	0.5
341	0.7	1.2	1	2.5	2.5	1.1	0.6	0.5	0.7	1
342	0.8	1	0.5	1.4	1.8	0.5	0.9	0.6	1.4	0.7
343	0.5	0.9	1.1	2.8	0.5	0.5	0.5	0.5	1.5	0.6
344	2.3	0.5	2.9	2.8	2.7	1.2	1.2	0.6	1.2	0.5
345	1.6	2	1.5	1.9	1.6	0.5	1	0.9	1.2	1.1
346	0.4	1.7	1	0.5	1.8	0.4	0.9	0.8	1	0.8
347	1.8	0.4	0.6	2.4	1.2	0.5	0.7	0.9	0.7	0.6
348	0.4	0.8	2.9	4.1	1	0.9	0.5	0.9	0.8	0.5
349	1.5	1	3.8	2	3.2	0.6	0.7	0.5	0.7	0.7
350	1.6	1.7	2.1	3.1	2.4	0.5	0.8	0.5	0.5	0.6
351	1	2.7	1.7	3.4	1.2	1	1	0.7	0.5	0.5
352	0.9	2.1	1.7	0.5	1.7	0.7	0.7	0.7	0.6	0.5
353	1	1.4	1	1.3	0.7	0.9	0.7	1.1	0.4	0.6

354	0.8	1.5	1.4	1.2	0.4	0.8	1	0.5	0.8	0.6
355	1	2.2	2.4	2.4	0.6	1.5	0.9	0.4	1	0.6
356	1	3.3	0.3	2.2	1	1.2	0.8	0.4	0.9	0.4
357	1.3	2.2	0.5	1	1.2	0.6	0.8	0.7	0.4	0.7
358	1.1	2	2	0.5	0.5	0.4	0.7	0.5	0.7	0.4
359	1.5	2.7	1.5	1.2	0.6	0.5	0.8	0.5	0.4	0.3
360	0.7	0.6	0.4	1.7	0.5	0.5	0.8	0.6	0.5	0.6
361	1.7	0.3	2.5	2.7	2.3	1.2	1.2	2	1.5	1
362	2.5	0.8	2.4	2.4	2.9	0.8	0.5	1.3	1.4	0.5
363	2.1	0.8	2.8	1.8	2.2	0.5	0.7	0.8	1	1.5
364	2.7	2.3	2.4	0.9	2.7	0.7	1.5	2.3	0.5	0.9
365	1.6	1.2	4.5	1.8	2.2	0.6	0.9	1.6	0.5	0.7
366	1.4	2.1	1.8	1	2.5	0.7	0.5	2.1	1.5	1.7
367	2.6	1.7	3.8	1.8	3.5	0.8	1.3	1.4	0.4	1.3
368	1.5	2.5	3	2.3	3.9	0.6	1	1.4	1.1	0.6
369	2	1.4	1.8	1.8	0.5	0.4	0.9	1.2	0.9	1.6
370	0.5	1	3.1	1	1	0.5	1	0.9	1.1	1.5
371	2.7	1.8	2.9	1.5	1	1	1.1	1.3	0.4	0.7
372	0.3	1	2.8	0.7	1.8	0.5	1.3	1.5	0.4	1.1
373	2	1.9	2.1	0.8	3.2	0.6	0.9	1.2	0.7	0.6
374	2.1	1.2	2.5	1.2	3	0.5	1.1	1.2	0.5	0.5
375	1.7	0.7	2	2.8	2.9	0.5	1.3	0.6	0.9	0.8
376	1.4	0.9	3.4	1.2	2.7	0.8	0.9	0.8	1.3	0.5
377	1.4	1.8	2.7	1	2.7	1.1	0.7	1.4	0.5	0.5
378	1.3	1.7	1.5	4.2	2.5	0.6	0.4	0.8	0.8	0.6
379	1.3	2.4	1.8	2.7	0.7	0.3	1	0.8	0.5	0.6
380	1.3	4	0.5	3.5	0.8	0.4	0.5	1	0.7	0.5
381	2.2	1.9	1.4	1.6	1.1	0.4	0.7	0.8	0.6	0.6
382	1.4	1.8	2.3	4	2.1	0.5	0.6	0.7	0.5	0.5
383	1.2	2	2	2.3	0.5	0.8	0.7	0.7	0.3	1.1
384	1.3	1.5	1.7	2.1	3.9	0.6	0.8	0.4	0.5	0.7
385	0.9	2.9	2.4	0.5	4.2	0.3	0.6	0.4	0.5	0.9
386	0.8	1.3	0.9	0.7	2.7	0.5	0.6	1.3	0.7	0.9
387	2	2.5	1.2	0.8	2.2	0.5	0.4	0.5	0.4	0.5
388	0.8	2.3	0.4	0.5	1.7	0.7	0.6	0.3	0.6	0.7
389	1.9	3.3	0.5	1.7	0.6	0	0.5	0.6	0.7	0.6
390	0.5	3.2	0.4	1.3	2.7	0.6	0.4	0.4	0.3	0.5
391	1	1.2	0.7	1.2	1.1	0.6	0.7	0.5	0.3	1.1
392	0.5	2.5	0.5	2.4	1.5	0.4	0.6	0.5	0.4	1
393	1.6	2.2	1.1	0.8	0.3	0.8	0.5	0.4	0.6	0.4
394	1.2	1.9	1.3	2.7	0.5	0.6	0.5	0.5	0.4	0.5
395	0.3	0.9	0.5	1.8	0.4	0.6	0.5	0.9	0.5	1
396	2.5	1.8	0.9	2.8	1.7	0.5	0.5	1	0.6	0.7
397	0.7	2	1.7	2.7	0.7	0.5	0.5	0.9	0.6	0.5
398	0.8	2.3	1.2	1.4	0.5	0.7	0.7	0.4	0.4	0.7

399	0.8	2.4	0.8	2.7	1	0.5	0.5	0.5	0.5	0.6
400	1.7	0.6	1.1	1.5	0.4	0.7	0.9	0.5	0.6	0.8
401	1.5	3	1.7	1.5	3.7	1.3	1.2	1	1.7	1.3
402	1.9	2.9	1.4	1.7	2.9	0.5	2	1	0.5	1.2
403	2.6	2	1.5	2.6	3.5	0.9	1.2	0.9	1.4	1.3
404	1.9	4	1	2.5	2	1.7	1.5	1.1	0.6	0.9
405	1.5	2.5	1.6	2	0.8	1.3	0.6	1.2	0.5	0.8
406	2.3	2.7	1	2.6	2	0.9	1.2	0.8	0.7	0.7
407	1.2	2	0.5	1.7	3.3	1.5	1.3	0.4	0.6	0.6
408	1.7	3.2	1.7	2.2	2.5	1	1.6	0.5	0.5	0.4
409	1.9	1.8	2.4	1.6	2.3	1.6	0.9	0.9	1.1	0.9
410	1.5	2.5	2	0.9	1.5	1	0.9	1	0.6	0.7
411	1.4	2.3	0.5	2.4	3	0.8	1.7	0.7	0.5	0.8
412	1.7	2.3	2.4	2.6	0.9	1.3	1	0.6	0.8	0.5
413	1.9	2.5	2.7	1.5	2.2	1.3	0.5	0.5	0.6	0.6
414	2.5	1.3	1.2	3.5	2.4	1	1.1	0.5	0.4	1
415	1.7	1.1	0.5	0.5	2.1	0.8	1.4	0.7	0.9	0.6
416	1	0.4	1.2	1.7	1.5	0.6	1.1	0.5	0.7	0.5
417	1.4	0.7	1.6	2	1.9	1.5	0.9	0.6	0.8	0.6
418	1	1.5	0.5	1.3	3	0.6	1.4	1.6	0.9	0.7
419	1	1	0.7	1	1.2	0.7	0.5	0.9	0.4	0.5
420	0.5	0.7	1	1.5	2	0.7	1.1	0.8	0.8	0.6
421	1.8	0.8	0.8	2	0.8	0.3	0.8	0.4	0.4	0.9
422	1.5	1.5	1	0.5	1.7	0.9	1.1	0.4	0.5	0.8
423	1.3	2	1	2.9	1	1.4	1.2	0.7	0.6	0.5
424	0.9	1	1.2	0.6	2.2	0.6	1.2	0.7	0.6	0.5
425	1.7	1.2	0.5	1.8	0.3	0.5	1.4	0.7	0.3	0.6
426	2	2.3	0.4	3.2	1.5	1.1	1.3	1.2	0.4	0.9
427	2.8	0.5	0	2.5	1.7	0.9	0.8	0.5	0.9	0.2
428	1.2	0.5	1.2	0.6	3.4	0.5	0.6	0.5	0.5	0.3
429	1	2.4	0	0.5	1.5	0.5	0.9	0.6	0.4	0.7
430	0.7	2.9	0.6	0.5	3	0.9	0.9	0.7	1.2	0.7
431	1.9	0.3	0.4	0.7	2	0.8	0.8	0.4	0.5	0.4
432	1.8	3	3	0.9	1.7	0.8	1	0.9	0.6	0
433	0.8	4.3	3.2	0.6	1	0.7	0.9	2.6	0.6	1.4
434	1.5	3.9	3.5	2.5	0.8	0.6	1	1	0.7	0.5
435	0.6	2.8	2	3	0.5	0.8	1.4	1.3	0.5	0.9
436	0.8	2.7	2	0.4	1.3	0.8	0.3	1.1	0.4	0.4
437	1.2	2.2	1.5	1.6	0.4	0.4	1.1	1.3	0.7	1.2
438	1.8	3.4	2.3	2	0.5	0.7	0.5	1.1	0.5	0.7
439	0.5	2.7	2	0.6	0.5	0.7	0.5	1.2	0.5	0.8
440	0.7	2.3	2.5	1	1.2	0.4	0.4	1.7	0.5	1.6
441	2.6	1.6	2	1.4	3.2	1	0.4	1.6	0.5	1.4
442	1.5	1.4	2.7	3	4	0.5	0.4	0.8	0.5	0.5
443	1.7	2.5	2.9	2.1	4.2	0.6	0.7	1.2	0.6	0.4

444	1.5	0.3	2.7	4.2	3	0.8	0.4	0.6	0.6	0.7
445	1.7	1	2.5	2.8	4.8	0.9	0.6	0.8	1	0.6
446	1.4	1.8	2	0.6	3.2	0.7	0.4	0.7	0.6	0.7
447	0.9	1.1	4	1.4	2.8	0.5	1.3	0.5	0.7	0.5
448	1.8	1.6	2.4	4.5	3	0.6	0.8	0.5	0.5	0.4
449	1.5	0.7	3	0.6	3.5	0.5	0.8	1	0.9	0.6
450	0.8	0.4	2.4	2.4	4.7	0.6	0.8	0.5	0.7	0.5
451	1.8	2.3	2	1.8	2.8	0.7	0.5	0.7	0.7	0.5
452	1.4	1.4	2.3	2.7	2	0.5	0.4	1.2	1	0.6
453	2.5	0.6	3.4	3	2.4	0.7	0.8	0.4	1.2	0.4
454	1.7	1.9	2.6	1.9	2.5	0.5	0.4	0.4	0.6	0.6
455	2	0.5	2.1	3.3	3.2	1	0.4	0.8	0.7	0.4
456	1.9	0	2	0.7	2.5	0.5	0.5	0.5	0.4	0.6
457	1.3	0.4	0.5	1.5	2	0.5	0.5	0.7	0.6	1
458	0.5	0.4	0.5	2.2	2.4	0.9	0.6	1	0.7	0.5
459	0.8	2.4	1.5	3.7	1	0.4	0.5	0.6	0.6	0.6
460	1	1.6	1.1	3.5	1.2	1	0.6	0.4	0.6	0.5
461	0.8	1.8	2.3	3.5	0.4	0.5	1.9	0.5	0.5	0.5
462	1.4	2.6	4.2	3	2.9	0.6	1.4	0.5	0.5	0.6
463	2.1	2	1.6	4.5	1.1	0.5	0.9	0.6	0.5	0.8
464	1	1.8	0.8	3.2	1	0.5	0.9	0.5	0.5	0.5
465	2.6	2.1	1.7	3	1	0.8	0.5	0.7	0.5	0.7
466	1.3	2.2	0.5	0.5	0.6	1	1	1.3	0.7	0.6
467	2	2.4	1	1	1.2	0.9	1.3	0.4	0.6	0.8
468	1.2	2.5	0.9	1.3	3.1	0.6	0.6	0.5	0.6	0.5
469	0.6	0.5	0.5	1.5	0.7	0.9	0.9	0.5	0.6	0.9
470	0.4	1.9	0.3	1	0.7	0.8	1	0.7	0.5	0.7
471	0.5	2.2	0.6	1.4	1.3	0.9	1.1	0.8	0.5	0.6
472	0.5	2.4	2.3	1.5	1.2	0.8	0.9	0.5	1.2	0.7
473	0	0.5	1.7	1.2	1.8	0.7	0.7	0.6	0.9	0.5
474	1	2	1.8	0.3	0.6	1	1.3	0.6	0.4	0.8
475	1	0.8	1.5	0.2	1.2	0.8	1.1	0.5	0.5	0.6
476	1	1.8	0.6	0.5	1.5	0.7	0.8	0.5	0.5	0.5
477	0.7	1	0	0.3	1.3	0.6	0.8	0.3	0.7	0.7
478	0.5	1.8	0.8	1	1.6	0.5	1.4	0.7	0.6	0.4
479	1.4	0.7	1.3	0.8	2.7	0.5	0.6	0.5	0.6	0.4
480	1.5	1.4	0.8	0.3	1.2	0.2	0.5	0.5	0.6	0.3
481	1.1	1.7	2.4	3	2.8	1	1.3	1.9	0.9	0.6
482	0.8	2.3	2.8	4.1	3.5	0.7	1.5	0.5	0.5	0.5
483	1	2.7	2.5	4.4	3.7	1.2	1	1.4	0.9	1.6
484	1.4	2.9	2.7	4.5	2.4	0.6	1.3	1	0.4	1
485	0.5	1.7	2.5	3.5	1.3	0.7	1.1	0.8	0.7	0.5
486	2	0.5	1.7	3.5	3.1	0.8	0.5	0.6	0.8	0.6
487	1.2	3.3	2.1	1.5	2.7	0.5	1.4	0.6	0.5	0.5
488	1.3	2.3	0.9	1.9	3.5	0.6	1	1.1	0.5	0.6

489	1.8	1.7	1.8	1.6	1.2	0.9	1	0.9	0.6	0.7
490	0.5	3	0.8	2	3	1.1	0.9	0.8	1	0.5
491	1.7	1	1.8	1.3	2.4	1	0.9	0.9	0.7	0.7
492	2.1	0.7	1	2	1.5	0.7	1.1	0.5	0.8	0.6
493	0.5	0.6	1.1	2.3	2.4	0.8	0.6	0.8	0.4	0.8
494	2.5	1.7	0.7	3.2	0.3	0.8	0.6	1	0.9	0.7
495	0.8	1.7	0.9	2.2	1.2	0.4	0.9	0.8	0.5	0.4
496	1.3	0.6	2	2	2.7	0.5	0.5	0.7	0.9	0.7
497	0.6	1.6	1.7	1.3	2.8	0.5	0.6	1	0.7	0.7
498	1.2	1.9	1.3	0.5	2.5	0.4	0.4	0.5	0.6	0.6
499	0.5	1.9	2.7	1.8	2.1	0.5	0.5	0.3	0.6	0.5
500	0.5	1.3	1.4	0.2	2.4	0.5	0.9	0.7	0.7	0.5
501	0.7	1.2	0.7	3.6	1.8	0.5	0.8	0.8	0.8	0.7
502	0.5	2.8	1	2.4	1.8	0.6	0.5	1	0.5	0.9
503	1.8	1.4	1.6	3.5	0.5	0.8	0.5	1	0.7	1.1
504	1.5	0.5	1.5	3	0.6	0.6	0.4	1	0.4	0.4
505	0.3	2	1	1.8	2.1	0.4	0.6	0.8	1.2	0.9
506	0.5	1.2	1.9	2	1	0.5	0.5	0.5	0.5	1.1
507	1.2	0.5	1.7	3.7	0	1.2	0.6	0.6	0.9	0.7
508	1.5	0.7	0.4	0.5	1.1	0.6	0.5	0.8	0.4	0.8
509	0.7	0.7	1.3	0.5	0.5	0.5	0.5	0.7	0.6	0.3
510	0.9	1.2	2.5	1.7	3.1	0.7	0.7	0.6	0.5	0.7
511	2	1.5	1.5	1.5	4.7	0.7	0.9	0.6	0.5	0.6
512	1.7	0.6	2.3	1.8	0.7	0.9	0.7	0.5	0.7	0.6
513	2.3	2.2	1	4.2	2.3	0.5	1.3	0.6	0.7	0.7
514	1.7	0.5	0.7	1.8	0.5	0.5	1.1	0.8	0.4	0.7
515	2.3	1.7	1.2	1.7	0.5	0.7	0	0.4	0.6	0.4
516	1.9	2.6	0.5	0.2	0.7	0.7	0.5	0.5	0.3	0
517	2	1.5	1.3	0.9	0.5	0.7	0.7	0.7	0.4	0.4
518	1.7	0.5	1	0.7	1	1.1	0.7	0.5	0.7	0.4
519	1.7	1	0.6	0.7	1.8	1	0.7	0.6	0.6	0.5
520	1.1	0.7	0	0.8	0.5	0.7	0.4	0.6	0.2	1.1
521	2.3	0.5	3	1.5	4.5	0.7	1.5	0.5	0.8	0.7
522	2.9	2.6	2.3	3.8	3	0.6	0.7	0.7	1.1	0.8
523	1.2	1.4	2	3.1	3.2	0.5	1.3	0.7	0.8	1.4
524	2.5	1.5	4.3	0.7	3.4	1.5	0.8	1.6	0.5	1.2
525	2	1.1	2.7	1.5	3.2	1.3	0.7	0.5	0.5	0.6
526	1.8	1.2	4.2	1.1	3	0.9	1.6	1	0.9	1.3
527	2.1	1.7	2	2.8	4.1	0.5	0.9	0.7	0.7	0.7
528	2	1.3	3.1	2.2	3.2	1.1	1.2	0.9	0.5	1
529	1.7	0.5	2.7	0.7	2	1.5	1.1	1.1	0.5	0.5
530	1.7	1	3	1.4	2	1	0.5	0.5	0.7	0.8
531	2.3	2.7	3	0.8	1.8	0.5	0.5	1.3	0.5	1.4
532	1.4	1.6	3	2	2.4	0.9	0.4	1.4	0.5	0.8
533	1.5	2.1	1.8	1.5	3	0.5	0.4	0.9	0.6	1

534	1.4	1.5	2.8	2	2.8	0.5	0.9	0.5	0.4	0.6
535	0.6	1	2.5	0.9	3.4	1	0.7	1.1	0.4	0.7
536	2.6	0.5	2.4	1	3.5	1.3	0.6	0.9	0.6	0.7
537	1.5	0.8	2.5	2.3	1.3	0.5	0.4	0.7	0.6	1.3
538	1.6	3.4	0.8	3	0.6	0.5	0.6	0.7	0.5	0.6
539	0.4	2.1	2.8	3.4	3.7	0.6	0.7	0.5	1	0.7
540	1.4	3.3	3.2	3.2	1.4	0.9	0.5	0.5	1.1	0.5
541	0.7	2.7	2.5	2.9	0.7	1.4	0.9	0.9	0.6	0.5
542	1.2	3.4	2	4.2	2.7	0.7	0.9	0.9	0.5	0.4
543	1.5	2	0.5	3	1.9	0.4	0.8	0.9	0.6	0.8
544	0.8	2.5	2.3	1.2	1.1	1	0.7	1.4	0.3	0.4
545	1	2.8	2.8	1	4	0.5	0.5	0.9	0.5	0.6
546	0.7	2.1	0.6	2.9	3.4	1	0.4	0.8	0.5	0.6
547	1	2.8	0.5	2.9	3	1	0.5	0.7	0.5	0.6
548	0.6	3.5	0.5	3.5	1.5	0.8	1.9	0.5	0.5	0.5
549	1.5	1.3	0.8	3.7	3.8	0.3	0.9	1	0.5	0.4
550	2.3	2.1	3	2.9	2.1	0.4	0.8	0.9	0.5	0.4
551	1.5	1.5	0.5	4.9	1.5	0.5	0.4	0.7	1	0.5
552	1.2	2.4	1.2	1.3	1	0.4	2.1	0.8	0.9	0.8
553	0.5	1.6	0.5	1.2	2.1	0	0.6	0.5	0.9	0.5
554	1.6	0.4	0.4	2.8	0.9	0.5	0.4	0.7	0.5	0.5
555	0.7	1.7	0.7	0.8	0.6	0.6	0.5	0.5	0.9	0.6
556	1.5	0.7	1	2.5	0.9	0.4	0.4	0.5	0.6	0.5
557	1.4	3.8	0.7	1.5	1	0.5	0.5	0.9	0.6	0.6
558	1.6	3.5	2.5	1.4	0	0.5	0.7	0.6	0.6	0.4
559	0.5	2.4	3.5	3.2	1.9	0.6	0.5	0.6	0.9	0.4
560	0.7	3.1	0	0.5	0.5	0.4	0.5	0.7	0.6	0.5
561	2.8	3	1.9	3.1	5.2	1.1	0.4	0.4	1.1	0.7
562	2.7	3	3.7	1.2	3.5	1.3	0.7	0.5	0.8	0.6
563	3.1	3.2	4.1	3.7	4	1.3	0.6	0.5	0.5	0.8
564	0.6	2.4	3.5	3.3	4.7	1.6	1	0.6	0.7	0.9
565	0.8	3	2.7	3.7	4.5	0.5	0.5	0.5	0.7	0.7
566	2.7	3	2.8	3.3	6	0.8	0.4	0.5	0.6	0.8
567	2.4	1.7	2.8	3.7	3	0.4	0.5	0.7	1.4	0.8
568	1.4	1.9	1.7	3.4	2.3	0.4	0.6	0.5	0.8	0.3
569	2.6	3.4	1.5	3.3	3.5	0.6	0.8	0.6	0.7	0.5
570	1.8	3.2	2.8	4.5	3.8	0.8	0.4	0.5	0.7	0.3
571	1.5	2	4	2.8	4.3	0.8	0.6	0.2	0.6	0.8
572	0.3	1.3	2.3	1.6	5.7	0.8	0.5	0.8	0.5	0.5
573	2.6	3.4	2.2	1	4.8	0.9	0.3	1.2	0.8	0.5
574	2.6	2.2	2.5	0.3	2.7	0.4	0.4	0.6	0.7	0.6
575	0.9	2.5	3.3	0.4	3.2	0.9	0.6	0.6	0.7	0.8
576	1.4	1	2.5	1.5	1.8	0.6	1.3	0.9	0.5	0.5
577	2.7	2.5	3.7	1.3	3.2	0.6	0.9	0.9	0.4	0.4
578	1	0.5	2.6	4.2	1.9	0.6	0.3	1.6	1.1	0.6

579	1.4	0.5	3.2	3	3	0.7	0.4	1.1	0.5	0.5
580	0.9	1.8	1.8	3.7	2	0.6	1.4	0.5	0.4	0.4
581	1.8	2.1	2.6	4.3	1.9	0.7	1.1	1.6	0.4	0.7
582	1.2	0.6	2.8	2.4	1.5	0.8	0.5	1.3	0.6	0.5
583	2.1	1.9	0.6	2.6	0.8	0.9	0.4	0.9	0.7	0.8
584	1.8	1.5	2.6	1	2.1	0.5	0.9	1	0.6	0.5
585	0.5	1.4	0.9	1.5	0.8	0.8	0.4	1	0.7	0.7
586	0.8	1	1.8	3.6	0.4	0.5	0.5	0.6	0.5	0.3
587	0.5	2.6	1.2	0.8	0.4	0.6	0.5	0.7	0.4	0.5
588	2.7	0.7	1.4	1.3	1	0.8	0.6	0.4	0.5	0.4
589	1.7	1.1	1.6	0.6	2.7	0.5	0.9	0.7	0.7	0.7
590	1.4	0.9	0.5	1.7	0.7	0.4	1.2	0.8	0.7	0.6
591	0.4	0.5	1.9	0.4	1.6	0.9	0.5	0.5	0.4	0.4
592	0.3	0.9	0.9	1	0.8	0.6	0.3	0.5	0.6	0.4
593	1.7	1.2	1.4	4.5	2.1	0.7	0.7	0.7	0.7	0.6
594	0.5	2.7	1.4	3.5	0.4	0.4	0.7	0.5	0.8	0.9
595	1.3	0.9	0.5	4.5	0.7	0.8	0.9	0.6	0.4	1.1
596	0.7	1	1	5	1	0.5	0.9	0.4	0.5	1
597	0.5	1.7	0.8	2.5	0.7	0.8	0.6	0.4	0.5	0.7
598	0.5	1	0.3	4.3	0.5	0.6	0.7	0.5	0.7	0.4
599	0.7	1.7	0.3	4.3	1	0	0.7	0.7	0.5	0.6
600	1	0.5	0.7	4	0.4	0	0.7	0.6	0.6	0.3

**Table 1.2 Radical length (cm) of germination of green gram seeds for lunar days effect at  
Phālguṇa Māsah**

*Durmukhināmasamvatsarah uttarāyaṇam śísirarṭvoh phālguṇamāsah*

<i>Śuklapakṣah</i>										
Sl. No.	C	PSY	PBY	MSY	MBY	C	PSY	PBY	MSY	MBY
	<i>Pratipat</i>					<i>Dvitiyā</i>				
1	2.4	1.7	1	1.5	1.7	2	2	1.7	3.3	1.7
2	1	2	0.5	1.7	1.6	2.5	1.8	1.2	4	1.6
3	0.4	1.3	1.1	1.2	1.5	1.7	1.2	2.2	2.5	1.5
4	1.4	1.2	0.6	3.2	1.5	1	1.9	2	2.3	1.5
5	0.5	1.5	0.6	1.5	1.5	1.8	1.1	1.4	3.7	1.5
6	1.2	1.8	0.5	1	2	1.2	1.3	2.3	1.9	2
7	1.3	0.8	1.8	1	1.4	1.9	1.5	1.5	3	1.4
8	0.4	2.4	0.7	1.4	0.4	1.3	1.2	1.3	2.5	0.4
9	1.2	1.7	1.6	1.8	1	1	0.8	1.4	1.8	1
10	0.8	0.7	1.5	1.6	1	1.9	0.3	1.2	1.5	1
11	1.3	1.1	1.7	2.5	1	2	0.4	1.6	1.5	1
12	1.2	1.2	2	1.1	0.9	1.5	2	2.3	2.8	0.9
13	0.5	1.2	1.8	2.2	1.4	1.2	1.9	1.8	2.3	1.4
14	1.2	0.7	0.6	2.4	1.4	1	1.8	2.4	3.3	1.4
15	1.4	0.6	0.5	1.5	1.8	2.3	1.5	2.8	2.8	1.8
16	1.6	1.8	1	2	0.5	3.3	0.5	2	1.8	0.5
17	1.2	2	0.9	1.8	0.4	1	1.5	2.1	1	0.4
18	0.4	1.3	0.7	1.5	1	1.9	1.1	1.7	1.8	1
19	1.5	1.5	0.5	0.4	1.1	1.7	2	3.2	2	1.1
20	0.5	1.4	0.4	0.8	1	2.2	2	1.8	2.8	1
21	1.3	0.8	1	1.6	0.5	2.4	1.5	0.5	2.3	0.5
22	1	1.2	0.6	0.3	0.4	1.5	1.8	2.6	1.5	0.4
23	1.2	0.4	1.6	1.1	0.7	1.9	2.7	0.9	1	0.7
24	1.2	0.6	1.5	0.6	0.9	0.4	1.5	1.6	0.8	0.9
25	0.9	0.4	2.5	0.3	0.8	1.9	2	0.8	2.5	0.8
26	1	0.6	0.5	1	1	0.8	0.5	0.4	0.8	1
27	0.4	0.8	1.7	0.3	0.5	0.6	0.7	0.3	0.3	0.5
28	0.8	1.3	0.5	1.1	0.5	0.4	3	1.8	0.4	0.5
29	0.5	0.6	0.5	2.4	0.3	0.5	0.8	0.6	0.8	0.3
30	1.5	1	0.5	1	0.5	1.5	0.6	0.7	1	0.5
31	1	2.4	1	1.1	0.3	0.9	1.2	0.4	1.3	0.3
32	1	1	0.3	0.6	0.5	0.5	0.4	0.7	0.5	0.5
33	0.7	1.4	0.3	0.5	1	1.2	0.5	1.6	2.4	1
34	1.7	0.6	0.3	0.2	0.8	1.6	0.7	0.6	0.7	0.8
35	0.6	1	0.4	0.5	0.3	0.3	0.9	0.5	0.9	0.3
36	0.5	1	0.4	0.6	0.4	0.4	0.3	1	0.5	0.4
37	0.6	1.6	0	0.6	0.6	0.4	0.3	0.5	1	0.6
38	0.5	0.7	0.4	0.4	0.4	0.3	3	0.6	0.2	0.4
39	1	0.5	0.4	0.6	0.6	0.5	0.2	0.3	0.2	0.6
40	0.5	0.4	0.3	1	0.9	0.7	0	0.4	0.2	0.9
	<i>Trtīyā</i>					<i>Caturthī</i>				

1	2.5	1.4	2.4	2.9	2.1	1.3	1.7	2.3	3	2.3
2	1.7	0.5	1.9	2.3	1.9	0.5	1.4	1.8	3.1	3.1
3	1.3	0.3	2	1.1	2.4	0.4	1.6	1.7	1.4	2.6
4	1.1	0.4	1.9	1.5	2.4	1.1	0.8	1.8	1.9	1.7
5	0.7	1.4	2.1	2	3	1	2	1.7	2.4	1.1
6	0.7	1.5	1	0.7	2.1	1.5	0.7	0.7	1	1.5
7	0.9	1	0.9	1.8	1.3	0.6	2	1.4	1.7	1.8
8	1	1.8	1.8	0.7	0.8	0.6	1.3	1.9	2	2.3
9	0.8	1.6	1.5	0.6	0.9	1.5	1.8	0.5	1	2.7
10	1.2	0.7	0.8	0.4	1.4	1	0.7	1.2	3.1	1
11	1.2	0.6	1.1	0.7	2.2	1.4	1.4	0.4	1.7	3.1
12	1.1	0.8	0.4	1.3	0.7	1.7	0.7	1.3	1.8	2.8
13	1.4	0.8	0.6	0.8	0.3	1.2	1	0.7	2	2.9
14	0.8	0.8	0.3	1.3	0.7	1.5	1.3	1.8	2.1	2.6
15	1.1	1.1	0.5	0.5	2.3	0.7	1.9	1	2	1.9
16	0.6	0.4	0.4	1.5	1.8	1	1.1	1.4	1.2	0.8
17	0.8	0.8	1.5	1.2	2.2	1	0.8	1.2	1.5	2
18	0.5	0.3	0.9	0	1.4	1.3	1.3	1.5	1	3
19	0.7	0.9	1.1	0.9	2.4	1.4	1.1	1.8	2.1	0.7
20	1.1	0.2	0.3	0.5	1	1	1.7	1	0.7	0.5
21	0.3	0.4	0.5	0.7	1	1.5	0.7	1.6	0.5	0.3
22	0.4	1.2	0.8	0.2	0.5	0.9	1.3	1.2	2	1
23	0.7	0.6	1.7	0.6	1.1	0.6	0.5	0.8	2.2	1
24	1.4	0.2	1.4	0.7	1.2	0.6	0.7	1.1	0.7	0.7
25	0.6	1.1	1.4	1.1	0.8	1	1	0.6	1	0.3
26	0.7	0.5	0.9	0.3	1.4	1.2	1.3	0.9	1.2	0.5
27	0.5	0.8	0.4	1.1	0.9	1.2	1.5	0.3	0.5	0.3
28	0.6	0.6	1.5	1	1.1	1.3	0.9	1.9	1.2	0.6
29	0.6	0.4	0.5	0.6	0.6	1.5	1	0.2	1.5	0.5
30	0.8	0.6	0.4	0.3	0.9	0.5	0.7	1.4	2.2	0.3
31	0.3	0.9	0.3	2.5	0.8	1.8	0.8	1.9	1.7	0.5
32	0.5	1.1	0.8	1.9	0.9	0.8	1	0.8	1.4	0.9
33	0.4	1.8	0.5	1.5	0.6	0.7	0.3	1	1.7	0.6
34	0.2	0.8	0.9	1.5	0.9	0.5	0.6	0.3	0.6	0.9
35	0.5	2.1	0.4	1.2	0.8	1.1	0.5	1.7	0.7	0.7
36	0.6	1.6	0.6	1.3	1	1.3	0.7	0.6	0.9	0.9
37	0.6	0.6	0.3	2.8	1.2	0.4	1	0.6	0.5	0.6
38	0	1	0.3	0.5	0.8	1.2	0.9	1.4	1	1.8
39	0.5	1.2	0.7	1.6	0.8	1.7	0.5	0.6	0.5	0.5
40	0.5	1.4	1.2	0.4	0.5	1.5	0.8	0	0	0.4
	<i>Pañcamī</i>					<i>Ṣaṣṭhi and Saptamī</i>				
1	1.6	1.9	2.3	2.1	0.9	2.8	0.4	2.5	1.4	3.5
2	1.8	3.2	1.5	2.4	1.2	1.6	0.5	0.6	3.8	2.8
3	2.1	3	1.8	1.8	1	1.8	1	2	1.3	2.5
4	1.8	3.9	2.3	1.5	1	1.5	1.8	2.5	0.5	2.9
5	2.3	1.7	3.4	0.5	2.5	2	0.3	1.7	0.6	1.8
6	1.7	2	1.3	1.5	1.5	1.9	0.7	1.9	0.8	1.9
7	1	3	2.4	1.2	0.3	2.3	1.7	1.8	0.5	2

8	1.5	2.8	1.5	1.8	1.9	1.5	2.8	1.5	0.4	3.2	
9	0.7	2.3	2	1.4	0.3	1	2.3	1.8	0.7	2.5	
10	1.9	1.4	1	2.2	0	1.7	1.2	2	0.5	4.2	
11	0.5	2.5	0.3	2.5	0.5	1.9	0.8	3	1.7	2.8	
12	1.7	2.3	1.5	1.7	0.8	1	1.5	2.1	0	2.5	
13	0.2	1.6	0.5	1	1.5	1	0.6	3	0.6	2.3	
14	0.6	1.5	1	1.2	0.7	1.5	0.3	1.7	1.3	2	
15	1.6	2.4	1.5	1	1	1.6	1.2	2.5	0.4	2.5	
16	1.4	1.3	0.6	0.9	0.5	0.3	0	1.7	0	2	
17	1.5	1.6	0.8	1.3	0.8	2	1.4	2.6	0.3	1.6	
18	1	0.9	2	1	0.5	1.8	0	2.8	0.7	2.2	
19	1.4	0.6	0.3	3.5	1.6	1.7	1.4	1.7	3	1.7	
20	1.7	0.5	1.1	1.3	2.2	2.4	2.8	1	2.5	0.6	
21	1.2	1	2.5	1.6	1.2	0.6	2.6	1.3	3.9	2.5	
22	0.5	2.6	0.5	1.2	1.2	1.3	1.8	0.7	2	2.7	
23	0.5	1.7	1	1.5	0.3	0.5	2.5	1.8	2.3	2.8	
24	0.6	0.4	0.8	1.5	0.5	1.7	2.5	0.7	2.7	3.1	
25	0.6	1.2	1.8	1	1.8	2	2	2.3	1.8	0.4	
26	1.1	1.8	0.5	0.6	2.3	1.9	1.3	2	1.1	2.4	
27	2.2	1.6	0.5	1.7	2.5	0.4	1.9	1.5	2.7	2.2	
28	1.5	1.5	2.3	2.1	2.8	0.6	1.4	3	0.8	2.4	
29	0.4	2.3	0.6	1.2	2	2.1	1	0.7	2	0.9	
30	0.6	1	2	0.6	0.5	1	1	2.2	0.5	1.2	
31	1	0.3	0.7	1	2.5	0.7	1	1.5	1.6	0.7	
32	0.3	0.4	1.3	2	2.3	0.5	1.5	0.7	3.2	0.9	
33	1	0.3	0.5	1.2	1.7	1.7	2	1.9	3.4	1.6	
34	0.4	0.3	0.7	2.5	2.5	1	1.9	0.6	2	0.6	
35	1.6	0.9	0.9	2	1.7	1.8	2.2	0.5	2.2	0.7	
36	1.8	2	0.7	2.9	1.4	1.7	1	0.5	2	0.5	
37	1.6	0.5	0.9	0.7	2.7	0.3	0.5	1.9	1.7	1	
38	0.3	0.5	1	0.5	3	2.4	2.2	1	3	1.4	
39	1.9	1.7	0.3	1.1	2.9	1	1.7	0.5	1.5	0.7	
40	1.4	3.4	1	1.2	2	0.4	0.8	1.7	1.4	0.5	
	<i>Aṣṭamī</i>				<i>Navamī</i>						
1	2.2	2.2	3	3.5	2.5	2	2.2	1.3	2.7	2.2	
2	2.1	4	2	4.1	3.4	0.8	2.6	2.2	1.8	2.5	
3	1.8	3.2	1.3	1.9	4.2	1.3	1	2.6	1.5	3	
4	1	2.3	2.3	2	3	1.9	1.4	2	0.7	2	
5	1.3	1.7	1.8	2.1	1.5	0.8	3.2	1.9	3.3	1.7	
6	2.6	0.4	2.3	2.8	3.7	0.5	1.7	1.4	1.7	2.3	
7	1.2	0.7	1.8	3.5	3.9	0.8	1	1.9	2	0.9	
8	2.1	1.8	2.1	3.2	3	1	1.8	2.3	2.7	2	
9	0.6	2	2.3	2.8	2.3	1.7	1.7	2	1.8	3	
10	1	0.7	1.5	2.7	2.4	1.9	2.4	0.9	2.5	2.9	
11	1.7	1.1	2.5	2.5	1.9	1.4	1.1	0.5	2.5	2.8	
12	1.9	2.3	2	1.5	2.1	1.1	1.9	1.7	2.2	1.6	
13	2	0.6	2.6	3.2	1.5	1.4	1.7	2.5	1.4	1.5	
14	0.5	2.4	0.4	1.7	1.5	0.9	0.5	2	2.8	2.4	

15	0.8	1.8	2.4	2.4	1	1.7	0.5	1.8	1.2	1.3
16	0.6	3	0.5	2.5	0.6	1.7	0.7	0.9	1.5	1.2
17	2.3	2.8	2	1.3	0.7	1	3.2	2.6	2.4	0.5
18	1.4	3	1	3.2	0.5	1.6	0.5	2.2	1.7	1.5
19	0.7	1.5	1.8	1.2	3.1	1.4	1.6	2	1.2	2.3
20	1.8	1.1	2	2.5	2.3	1.7	2.1	1.1	3	0.2
21	1.2	2.2	1.5	2.2	2.3	1	3.4	2.5	2.3	3.3
22	2.2	2.2	0.5	2.4	2.1	1.2	1.9	1	1	1
23	2.4	1.1	1	2	2	2.5	1.2	2.5	0.8	0.4
24	0.5	0.9	3	2.5	2.9	2	2.4	0.7	2.4	0.9
25	1.4	1.3	1.7	2	0.8	1.4	3.5	0.5	3.2	1
26	1.5	0.5	0.6	3.3	0.7	2.4	2.8	1.7	0.5	0.8
27	1.2	2	0.5	3	3.1	1.3	2	1.9	0.5	0.5
28	0.7	1.9	0.5	2.1	2.5	1.5	1	1.5	0.4	0.3
29	0.7	1	0	1.7	3.2	0.5	0.8	1.8	0.3	2.6
30	0.5	1.8	0.3	0.4	1	1	0.5	2.2	1.8	0.7
31	1	2	1.7	1.6	1.8	1.3	1.8	0.5	1	0.3
32	0.6	0.5	3	2.5	3	1.6	1.2	2	0.5	0.7
33	0.7	0.8	1.5	2.3	1.4	1.5	2	1	2.3	0.4
34	1.8	0.5	1.8	0.4	1	2	0.4	1.5	0.7	1.8
35	1.2	2.3	2.2	0.7	1.3	1.1	1.2	0.7	1.1	1.1
36	0.3	1.8	1.5	0.7	1	1.4	0.3	2	2.3	1
37	2	1.1	1.9	1.9	2.8	0.4	0.3	0.5	0.6	2
38	0.3	2.1	2.7	1.1	2	0.9	0.5	0.5	0.3	0.7
39	0.7	1	1.7	0.3	0	0.5	1.7	0	0.5	0.6
40	1	0	2.3	1	0.5	1.5	1.3	1	0.6	1.5
			<i>Daśamī</i>					<i>Ekādaśī</i>		
1	2.4	2.6	2	3.5	5.6	1.7	0.3	2.5	2.7	2.3
2	2	1.5	2.5	3.7	3.4	2.5	0.8	2.4	2.4	2.9
3	2.6	1.6	3	2.2	2.3	2.1	0.8	2.8	1.8	2.2
4	1.7	0.5	3	2.4	4.8	2.7	2.3	2.4	0.9	2.7
5	1.7	2.5	1.8	2.9	3.8	1.6	1.2	4.5	1.8	2.2
6	2.4	2.7	2.8	3.6	3.6	1.4	2.1	1.8	1	2.5
7	1.8	2.9	3.2	2.8	4	2.6	1.7	3.8	1.8	3.5
8	0.4	1	2.1	2.7	2.3	1.5	2.5	3	2.3	3.9
9	1.6	1.6	1.2	0.5	2.8	2	1.4	1.8	1.8	0.5
10	0.4	1	2.4	3.9	2.1	0.5	1	3.1	1	1
11	1.4	2.2	1.9	2.9	3.4	2.7	1.8	2.9	1.5	1
12	2	1.7	2.8	2.5	2.1	0.3	1	2.8	0.7	1.8
13	1.7	1.4	1.2	1.5	3.5	2	1.9	2.1	0.8	3.2
14	1.9	1.1	1.9	3.5	4.2	2.1	1.2	2.5	1.2	3
15	1.5	1.3	2.5	0.5	2.5	1.7	0.7	2	2.8	2.9
16	0.9	2.4	1.2	1.1	2.3	1.4	0.9	3.4	1.2	2.7
17	0.5	2.2	2.5	0.4	2	1.4	1.8	2.7	1	2.7
18	0.5	1	1.8	0.7	3.5	1.3	1.7	1.5	4.2	2.5
19	1	1	2.7	3.6	0.5	1.3	2.4	1.8	2.7	0.7
20	1.7	0.4	2.4	1.8	3	1.3	4	0.5	3.5	0.8
21	0.7	1.2	1	2.5	2.5	2.2	1.9	1.4	1.6	1.1

22	0.8	1	0.5	1.4	1.8	1.4	1.8	2.3	4	2.1	
23	0.5	0.9	1.1	2.8	0.5	1.2	2	2	2.3	0.5	
24	2.3	0.5	2.9	2.8	2.7	1.3	1.5	1.7	2.1	3.9	
25	1.6	2	1.5	1.9	1.6	0.9	2.9	2.4	0.5	4.2	
26	0.4	1.7	1	0.5	1.8	0.8	1.3	0.9	0.7	2.7	
27	1.8	0.4	0.6	2.4	1.2	2	2.5	1.2	0.8	2.2	
28	0.4	0.8	2.9	4.1	1	0.8	2.3	0.4	0.5	1.7	
29	1.5	1	3.8	2	3.2	1.9	3.3	0.5	1.7	0.6	
30	1.6	1.7	2.1	3.1	2.4	0.5	3.2	0.4	1.3	2.7	
31	1	2.7	1.7	3.4	1.2	1	1.2	0.7	1.2	1.1	
32	0.9	2.1	1.7	0.5	1.7	0.5	2.5	0.5	2.4	1.5	
33	1	1.4	1	1.3	0.7	1.6	2.2	1.1	0.8	0.3	
34	0.8	1.5	1.4	1.2	0.4	1.2	1.9	1.3	2.7	0.5	
35	1	2.2	2.4	2.4	0.6	0.3	0.9	0.5	1.8	0.4	
36	1	3.3	0.3	2.2	1	2.5	1.8	0.9	2.8	1.7	
37	1.3	2.2	0.5	1	1.2	0.7	2	1.7	2.7	0.7	
38	1.1	2	2	0.5	0.5	0.8	2.3	1.2	1.4	0.5	
39	1.5	2.7	1.5	1.2	0.6	0.8	2.4	0.8	2.7	1	
40	0.7	0.6	0.4	1.7	0.5	1.7	0.6	1.1	1.5	0.4	
	<i>Dvādaśī</i>				<i>Trayodaśī</i>						
1	2.4	1.7	1	1.5	1.7	2.5	0.8	2.4	2.4	2.9	
2	1	2	0.5	1.7	1.6	2.1	0.8	2.8	1.8	2.2	
3	0.4	1.3	1.1	1.2	1.5	2.7	2.3	2.4	0.9	2.7	
4	1.4	1.2	0.6	3.2	1.5	1.6	1.2	4.5	1.8	2.2	
5	0.5	1.5	0.6	1.5	1.5	1.4	2.1	1.8	1	2.5	
6	1.2	1.8	0.5	1	2	2.6	1.7	3.8	1.8	3.5	
7	1.3	0.8	1.8	1	1.4	1.5	2.5	3	2.3	3.9	
8	0.4	2.4	0.7	1.4	0.4	2	1.4	1.8	1.8	0.5	
9	1.2	1.7	1.6	1.8	1	0.5	1	3.1	1	1	
10	0.8	0.7	1.5	1.6	1	2.7	1.8	2.9	1.5	1	
11	1.3	1.1	1.7	2.5	1	0.3	1	2.8	0.7	1.8	
12	1.2	1.2	2	1.1	0.9	2	1.9	2.1	0.8	3.2	
13	0.5	1.2	1.8	2.2	1.4	2.1	1.2	2.5	1.2	3	
14	1.2	0.7	0.6	2.4	1.4	1.7	0.7	2	2.8	2.9	
15	1.4	0.6	0.5	1.5	1.8	1.4	0.9	3.4	1.2	2.7	
16	1.6	1.8	1	2	0.5	1.4	1.8	2.7	1	2.7	
17	1.2	2	0.9	1.8	0.4	1.3	1.7	1.5	4.2	2.5	
18	0.4	1.3	0.7	1.5	1	1.3	2.4	1.8	2.7	0.7	
19	1.5	1.5	0.5	0.4	1.1	1.3	4	0.5	3.5	0.8	
20	0.5	1.4	0.4	0.8	1	2.2	1.9	1.4	1.6	1.1	
21	1.3	0.8	1	1.6	0.5	1.4	1.8	2.3	4	2.1	
22	1	1.2	0.6	0.3	0.4	1.2	2	2	2.3	0.5	
23	1.2	0.4	1.6	1.1	0.7	1.3	1.5	1.7	2.1	3.9	
24	1.2	0.6	1.5	0.6	0.9	0.9	2.9	2.4	0.5	4.2	
25	0.9	0.4	2.5	0.3	0.8	0.8	1.3	0.9	0.7	2.7	
26	1	0.6	0.5	1	1	2	2.5	1.2	0.8	2.2	
27	0.4	0.8	1.7	0.3	0.5	0.8	2.3	0.4	0.5	1.7	
28	0.8	1.3	0.5	1.1	0.5	1.9	3.3	0.5	1.7	0.6	

29	0.5	0.6	0.5	2.4	0.3	0.5	3.2	0.4	1.3	2.7
30	1.5	1	0.5	1	0.5	1	1.2	0.7	1.2	1.1
31	1	2.4	1	1.1	0.3	0.5	2.5	0.5	2.4	1.5
32	1	1	0.3	0.6	0.5	1.6	2.2	1.1	0.8	0.3
33	0.7	1.4	0.3	0.5	1	1.2	1.9	1.3	2.7	0.5
34	1.7	0.6	0.3	0.2	0.8	0.3	0.9	0.5	1.8	0.4
35	0.6	1	0.4	0.5	0.3	2.5	1.8	0.9	2.8	1.7
36	0.5	1	0.4	0.6	0.4	0.7	2	1.7	2.7	0.7
37	0.6	1.6	0	0.6	0.6	0.8	2.3	1.2	1.4	0.5
38	0.5	0.7	0.4	0.4	0.4	0.8	2.4	0.8	2.7	1
39	1	0.5	0.4	0.6	0.6	1.7	0.6	1.1	1.5	0.4
40	0.5	0.4	0.3	1	0.9	1.7	0.3	2.5	2.7	2.3
	<i>Caturadaṣī</i>					<i>Pūrṇimā</i>				
1	1.1	1.7	2.4	3	2.8	2.3	0.5	3	1.5	4.5
2	0.8	2.3	2.8	4.1	3.5	2.9	2.6	2.3	3.8	3
3	1	2.7	2.5	4.4	3.7	1.2	1.4	2	3.1	3.2
4	1.4	2.9	2.7	4.5	2.4	2.5	1.5	4.3	0.7	3.4
5	0.5	1.7	2.5	3.5	1.3	2	1.1	2.7	1.5	3.2
6	2	0.5	1.7	3.5	3.1	1.8	1.2	4.2	1.1	3
7	1.2	3.3	2.1	1.5	2.7	2.1	1.7	2	2.8	4.1
8	1.3	2.3	0.9	1.9	3.5	2	1.3	3.1	2.2	3.2
9	1.8	1.7	1.8	1.6	1.2	1.7	0.5	2.7	0.7	2
10	0.5	3	0.8	2	3	1.7	1	3	1.4	2
11	1.7	1	1.8	1.3	2.4	2.3	2.7	3	0.8	1.8
12	2.1	0.7	1	2	1.5	1.4	1.6	3	2	2.4
13	0.5	0.6	1.1	2.3	2.4	1.5	2.1	1.8	1.5	3
14	2.5	1.7	0.7	3.2	0.3	1.4	1.5	2.8	2	2.8
15	0.8	1.7	0.9	2.2	1.2	0.6	1	2.5	0.9	3.4
16	1.3	0.6	2	2	2.7	2.6	0.5	2.4	1	3.5
17	0.6	1.6	1.7	1.3	2.8	1.5	0.8	2.5	2.3	1.3
18	1.2	1.9	1.3	0.5	2.5	1.6	3.4	0.8	3	0.6
19	0.5	1.9	2.7	1.8	2.1	0.4	2.1	2.8	3.4	3.7
20	0.5	1.3	1.4	0.2	2.4	1.4	3.3	3.2	3.2	1.4
21	0.7	1.2	0.7	3.6	1.8	0.7	2.7	2.5	2.9	0.7
22	0.5	2.8	1	2.4	1.8	1.2	3.4	2	4.2	2.7
23	1.8	1.4	1.6	3.5	0.5	1.5	2	0.5	3	1.9
24	1.5	0.5	1.5	3	0.6	0.8	2.5	2.3	1.2	1.1
25	0.3	2	1	1.8	2.1	1	2.8	2.8	1	4
26	0.5	1.2	1.9	2	1	0.7	2.1	0.6	2.9	3.4
27	1.2	0.5	1.7	3.7	0	1	2.8	0.5	2.9	3
28	1.5	0.7	0.4	0.5	1.1	0.6	3.5	0.5	3.5	1.5
29	0.7	0.7	1.3	0.5	0.5	1.5	1.3	0.8	3.7	3.8
30	0.9	1.2	2.5	1.7	3.1	2.3	2.1	3	2.9	2.1
31	2	1.5	1.5	1.5	4.7	1.5	1.5	0.5	4.9	1.5
32	1.7	0.6	2.3	1.8	0.7	1.2	2.4	1.2	1.3	1
33	2.3	2.2	1	4.2	2.3	0.5	1.6	0.5	1.2	2.1
34	1.7	0.5	0.7	1.8	0.5	1.6	0.4	0.4	2.8	0.9
35	2.3	1.7	1.2	1.7	0.5	0.7	1.7	0.7	0.8	0.6

36	1.9	2.6	0.5	0.2	0.7	1.5	0.7	1	2.5	0.9
37	2	1.5	1.3	0.9	0.5	1.4	3.8	0.7	1.5	1
38	1.7	0.5	1	0.7	1	1.6	3.5	2.5	1.4	0
39	1.7	1	0.6	0.7	1.8	0.5	2.4	3.5	3.2	1.9
40	1.1	0.7	0	0.8	0.5	0.7	3.1	0	0.5	0.5
<b><i>Kṛṣṇa Pakṣaḥ</i></b>										
<b>Sl. No.</b>	<b>C</b>	<b>PSY</b>	<b>PBY</b>	<b>MSY</b>	<b>MBY</b>	<b>C</b>	<b>PSY</b>	<b>PBY</b>	<b>MSY</b>	<b>MBY</b>
	<b><i>Pratipat</i></b>					<b><i>Dvitiyā</i></b>				
1	2.8	3	1.9	3.1	5.2	1.4	1.8	2.5	3.3	2.2
2	2.7	3	3.7	1.2	3.5	1.1	2.1	2.5	3.2	3.7
3	3.1	3.2	4.1	3.7	4	0.6	2.7	3.2	3.6	2.2
4	0.6	2.4	3.5	3.3	4.7	1.3	1.8	2.2	3.2	2.7
5	0.8	3	2.7	3.7	4.5	0.5	1.4	2	1.5	3.5
6	2.7	3	2.8	3.3	6	0.3	2	2.6	3.4	4.3
7	2.4	1.7	2.8	3.7	3	1	1.5	0.8	2.4	2.3
8	1.4	1.9	1.7	3.4	2.3	1.7	2	2.3	1.7	3.2
9	2.6	3.4	1.5	3.3	3.5	2	0.5	2.4	4.2	2.6
10	1.8	3.2	2.8	4.5	3.8	0.2	1	1.8	0.5	3.8
11	1.5	2	4	2.8	4.3	1.8	0.7	2.7	2.5	3.1
12	0.3	1.3	2.3	1.6	5.7	0.6	0.6	2.9	3.4	3
13	2.6	3.4	2.2	1	4.8	2	1	1	2.9	2.1
14	2.6	2.2	2.5	0.3	2.7	2.2	0.7	1.5	2.5	2.4
15	0.9	2.5	3.3	0.4	3.2	1.7	1.7	2.5	1.1	1.7
16	1.4	1	2.5	1.5	1.8	0.6	1.8	1.1	1.8	3.9
17	2.7	2.5	3.7	1.3	3.2	1.5	3	2.7	0.5	2
18	1	0.5	2.6	4.2	1.9	0.8	2.2	2.5	3.2	1.4
19	1.4	0.5	3.2	3	3	1.5	2	2.7	1.4	2.9
20	0.9	1.8	1.8	3.7	2	0.6	0.5	2.2	2.2	2.1
21	1.8	2.1	2.6	4.3	1.9	0.5	1.9	2.8	3.6	1.8
22	1.2	0.6	2.8	2.4	1.5	2.3	2.4	1.8	2.7	2.5
23	2.1	1.9	0.6	2.6	0.8	1.8	1	1.9	1.5	4.2
24	1.8	1.5	2.6	1	2.1	0.7	1.5	2.2	1.4	2
25	0.5	1.4	0.9	1.5	0.8	1.5	1	3.3	3.2	2.8
26	0.8	1	1.8	3.6	0.4	1.3	1.8	2.6	2.7	1.7
27	0.5	2.6	1.2	0.8	0.4	0.6	2	2.5	1.3	3
28	2.7	0.7	1.4	1.3	1	1.7	1.5	2.1	1.2	2.5
29	1.7	1.1	1.6	0.6	2.7	0.8	0.6	1	1	3
30	1.4	0.9	0.5	1.7	0.7	0.5	0.9	0.5	2.3	0.5
31	0.4	0.5	1.9	0.4	1.6	0.7	2	0.5	2	1.6
32	0.3	0.9	0.9	1	0.8	2	2.2	0.4	2.6	3
33	1.7	1.2	1.4	4.5	2.1	1.7	1.4	0.7	0.8	2.5
34	0.5	2.7	1.4	3.5	0.4	0.4	2.1	0.5	1	1
35	1.3	0.9	0.5	4.5	0.7	0.6	0.6	0.6	1	1
36	0.7	1	1	5	1	1.8	1.2	1.3	1.9	0.8
37	0.5	1.7	0.8	2.5	0.7	1.2	0.7	1.6	0.5	1.5
38	0.5	1	0.3	4.3	0.5	0.5	0.9	0.5	0.5	1.2
39	0.7	1.7	0.3	4.3	1	0.5	1	0.5	2.3	0.5
40	1	0.5	0.7	4	0.4	1	2.2	0.3	0.5	0.7

	<i>Trīyā</i>					<i>Caturthī</i>				
1	2.6	1.2	0.7	4	2.9	1.5	1.8	1.8	0.5	2.5
2	0.7	3.2	1.2	3.1	4.7	2	1.1	2	1.8	1.5
3	2	0.7	3.8	2.7	3.8	1.5	1.8	3.5	0.5	2.6
4	2	3.2	2.2	4.3	4.6	1.7	2	2.5	0.7	2.8
5	1.6	2.5	3.5	3	4.2	2	1.7	2.4	3.8	3
6	1.1	0.5	2.7	4.5	2.5	1.8	2.4	2.8	2.7	2.5
7	1.8	2	3.5	2.6	3.2	2	0.5	2.1	0.7	4.5
8	1.5	0.8	1.8	3	2.4	1.7	0.5	1.8	1	3.8
9	0.7	1.2	3	1	2	0.8	0.7	2.4	1.2	3
10	2.2	3	1	2.2	3	1.6	2.1	2.5	0.5	3.3
11	2.5	1	0.7	2.7	2	1	2	1.6	0.8	2.7
12	0.6	2.2	2.4	4	3	1.5	1.1	2.4	1	2.4
13	2.3	1	3.1	2	0.6	1.9	1.3	2	1.6	3
14	1.2	2.7	3.8	1.7	2.8	0.5	1.9	2.2	2	1.2
15	2.4	3	1.4	1.8	3	1.7	1.7	1.2	1.8	2.4
16	1	2.5	0.5	0.7	1	2	0.5	2.2	1.2	2.5
17	1.8	1.2	2.2	1	2	1.8	1.5	2.5	1.2	2.5
18	0.8	0.9	0.4	3.3	2.8	1.5	1	2	0.7	1.5
19	1.8	0	2.7	4.1	2	1	0.5	2.9	1	1.8
20	0.5	0.9	2.1	1.7	1.5	0.8	2.3	2	2.6	1.7
21	1.8	2.4	1	1	2	2.4	3	1.2	3.6	1.3
22	1.7	2.5	0.3	4.2	1	0.6	2.1	0.7	3	1.1
23	2	1.1	2.4	1.4	2	0.5	3	2.1	2.4	2.3
24	0.4	0.5	1.8	1.5	0.5	1.5	0.7	2.7	3.3	1.5
25	0.8	0.5	1	0.5	0.6	1.5	1.3	1	2.4	1.3
26	0.8	0.7	2	3.2	0.5	2	2.1	2.4	2.5	1.2
27	2.1	2.5	1.5	3.5	0.5	1.4	1.5	2.8	2.4	2.1
28	1.2	2.4	1.3	2	2.1	1.7	1	2	1.5	2
29	1.7	1.2	2.3	1	0.7	0.5	2.1	0.5	1.5	1
30	0.8	0.5	2.2	1.5	0.9	0.5	2	1.5	3.7	1.8
31	0.5	1.3	1	0.5	1.4	0	1.3	0.9	2.5	2
32	0.7	0.5	0.9	2.3	2.7	1	2	2.8	3	1.5
33	1	1.7	1.7	0.5	4.6	1.4	0.5	0.7	2.5	2.7
34	0.5	4.3	3	1	5.5	0.5	1.6	2.4	2.3	1
35	0.7	2.3	0.5	0.5	2.7	1	1.4	1	3	1
36	0.5	2.8	0.8	2.7	3.1	1.8	3.5	0.7	1	1.2
37	1	2.5	1.1	1.3	3.9	1.1	0.6	0.5	1.9	0.7
38	0.5	2.2	2.3	0.7	4.2	1.1	1	1	2.4	0.5
39	0.7	0.9	1	1.5	3.7	0.5	0.5	1.4	1.9	2.6
40	0.4	1.5	1.2	0.6	2.2	0.3	0.5	2.1	1.8	1.2
	<i>Pañcamī</i>					<i>Ṣaṣṭhi</i>				
1	2.5	2.5	0	3.5	3.2	2.8	2.2	3.1	5.7	4.2
2	2.5	2.3	3.4	2.7	2.8	2.4	1.8	2.6	4.8	3.2
3	1.5	2.8	4.2	5	4.2	2.5	3	3.2	3.7	3.4
4	1.7	2.4	2.5	2.4	1.7	2.3	2.8	1	2.5	3.5
5	0.7	2.5	2.6	2.4	4.7	2	2.8	2.6	3.6	3.5
6	1.5	2.5	2.4	2	3.4	2	3.1	2.3	3.7	3.7

7	1.8	0.7	2	3.4	2.4	1.7	3	3	3.5	1
8	0.7	0.7	2	3	3.5	1.5	1.2	2.3	4.2	2
9	1.7	1.3	2.7	1.8	3.5	1	1.8	1.7	2.8	2.5
10	1	2.8	1.9	2.5	3.5	2.1	3.2	2.5	5.2	1.2
11	0.5	2.6	2	3	3	2.3	2.9	2.8	4.4	1.8
12	0.6	2	2	4.8	3.2	0.7	3	2.6	4	1.4
13	0.5	2.5	1.7	3	1	2.1	1	3	4.7	0.5
14	1.4	2.2	0.5	2.7	2.4	1.5	3	3	3	1.2
15	1.3	1	2.7	3.8	3.2	2	1.7	1.5	3.2	1.5
16	1.6	1.5	1.5	2.7	3.6	1.3	2.8	3	2	1
17	1.9	0.6	1	0.5	3.3	0.7	1	2	2.8	1.5
18	1.3	1.7	1.2	2.1	2	0.5	3.2	1.5	3.1	3.7
19	2	2.5	1.8	2.8	3.7	1.2	2.5	2.7	3.2	2.8
20	1	1	1	1	2.6	1.7	2.4	3.5	3	2.4
21	1.4	1.8	2.5	1	2	0.5	3.3	1.9	2	1.9
22	2.3	0.5	3.9	0.8	2.8	0.7	2.6	2	1.5	2.7
23	0.5	0.5	1.5	1	1	1.9	2.3	3	2.2	2.1
24	1.9	1	0.7	1	2	1.8	2.1	2.8	2	4.2
25	1.5	1	2.4	1.5	0.3	1.2	0.3	1.5	2.6	2.3
26	0.7	3	0.4	3.5	0.5	2	2.5	1.3	1	5.2
27	1	0.6	4	3.2	1	1.1	2.8	2.4	1.8	3
28	0.5	0.9	1.2	3	2.2	1.8	2.5	1.5	3.2	3.2
29	1.5	0.7	1.2	1.2	0.5	2	1	1.7	2.9	4.8
30	1	0.8	0.5	1	0.5	0.5	3.2	2.2	3.5	3.2
31	0.5	2.5	2.5	1	3	0.5	0.5	2.6	2	4
32	1	1.5	0.3	1.9	0.4	1.5	2.1	3.4	0.5	5.2
33	1	1	0.4	2.4	2.7	1.2	1.8	1	2.4	3.2
34	1	0.8	1.3	0.2	1	1.3	1.5	2.2	0.8	5
35	2	1.1	2.5	1	1	0.8	2.4	0.8	1	4.3
36	1.3	1	0.8	0	1.4	0.7	1.2	2.4	1.8	3.1
37	1	2.8	1.2	1.2	3	1	1.5	1.8	2	3.6
38	0.5	1.5	0.8	1.4	1	1.5	0.5	0.7	0.5	3
39	1	0.5	0.8	1.2	4.1	1	1.2	2.1	1.7	2.8
40	0.5	0.5	0.4	1	3.4	1.8	0.6	2.6	1.9	3.7
	<b>Saptamī1</b>					<b>Saptamī2</b>				
1	1.3	3.2	3.4	5	3.5	2.9	1.8	3.4	3.8	4
2	1.4	3.7	3.2	3.1	3.5	2	3.4	0.8	2.5	2.8
3	2	2.5	0.5	1.5	3.3	1.8	2.9	2.3	1.7	2.6
4	2.5	1.2	1	5.2	5	1.8	2.3	1.2	6.1	3.8
5	2	2.8	1	4.5	4.5	2.3	2.6	2	3.5	3.7
6	3	3.2	2	2.2	1.7	1.9	3.2	2.8	3.9	4.2
7	0.7	1.7	1.9	3.4	3.3	1.8	2	2	4.5	4
8	2.6	4.5	0.5	3.7	1.9	2	2.7	3.2	5.3	3.4
9	3	1.2	1	4.6	1.5	0.7	2.3	1	3.4	2.2
10	2.5	3.4	1.4	2	1.5	1.7	2.5	3.5	4.8	4.2
11	2.3	3	2.5	2.7	3.5	0.7	1.4	2	4.3	5.5
12	2.9	2.7	2.7	4.2	3.7	1.8	2	1.7	3	3.8
13	2.4	3	1.3	3.8	1.8	1.5	3.4	2.8	4.3	4.2

14	1.5	1.6	3	2	3.5	1.6	2.5	4.2	3.4	3.4
15	0.4	2.8	4.2	1.5	1.7	1.8	2	1.5	4.5	3.7
16	2.2	1.2	2.7	2.8	3.5	2.3	2.1	1.5	1	4.2
17	1.7	2.4	2.9	3.9	3.2	3.1	1	0.3	1.4	2.2
18	1.6	3.2	4	4	4.2	2	1.5	2	2.4	2.7
19	1	1	3	0.5	5.7	2	0.7	2.1	2.8	3.2
20	1.8	1.4	2.5	0.5	2.7	1.3	1.6	0.4	0.5	2.4
21	0.4	2.2	2	1.3	2	0.7	1	0.4	1.8	3.2
22	1.5	2.4	3	2.3	1.8	2.8	1.4	2	1.7	2.5
23	1	3.5	2.5	1.9	3.2	1	0.9	1	1.2	1.4
24	1	2.8	3.5	2	3.8	2.4	0.8	0.5	1.5	1.8
25	1.4	2.2	4.3	5	4.2	2	1	1.7	0.6	2.4
26	2	2	1.5	4.8	2.9	0.5	3	3.9	0.8	1
27	1.9	1	2.8	0.5	3.4	1.4	2.7	4.2	1	1.5
28	1.8	3.8	2.5	1.2	4.2	0.5	0.4	0.8	0.7	3.7
29	2.5	2.6	4.2	0.8	1	1.9	2.2	1.4	0.5	3.2
30	1.5	2.4	1.7	0.5	0.8	1	2.5	2.7	1.8	2.4
31	1.5	2	3	1.2	3.2	0.8	2.5	4.3	1.3	1
32	0.5	0.5	3.5	0.5	2.7	2.4	2	2.2	2.7	0.4
33	1.3	2.5	2.9	3	0.7	1.4	3	4	2.5	3.7
34	2.5	0.5	2.5	2.7	1.2	2	2.3	4.9	2.3	3.5
35	1.4	0.6	3.3	2.4	2.4	1	2.5	2.8	1.4	3
36	2.1	1	1.2	2.9	3.5	2	3	3.4	1	4
37	0.6	0.7	3.7	3.3	3.8	2	3.7	2.9	5	4.1
38	1	1	3	1.8	4.1	1.8	2.6	2.7	4.8	4.4
39	0.6	1.5	2.4	1	2	0.5	1	2.5	1.4	3.2
40	2	1.2	2.1	0.7	0.7	1	1.8	2.5	0.5	3.5
	<i>Aṣṭamī</i>					<i>Navamī</i>				
1	1.6	1.9	2.3	2.1	0.9	2.8	0.4	2.5	1.4	3.5
2	1.8	3.2	1.5	2.4	1.2	1.6	0.5	0.6	3.8	2.8
3	2.1	3	1.8	1.8	1	1.8	1	2	1.3	2.5
4	1.8	3.9	2.3	1.5	1	1.5	1.8	2.5	0.5	2.9
5	2.3	1.7	3.4	0.5	2.5	2	0.3	1.7	0.6	1.8
6	1.7	2	1.3	1.5	1.5	1.9	0.7	1.9	0.8	1.9
7	1	3	2.4	1.2	0.3	2.3	1.7	1.8	0.5	2
8	1.5	2.8	1.5	1.8	1.9	1.5	2.8	1.5	0.4	3.2
9	0.7	2.3	2	1.4	0.3	1	2.3	1.8	0.7	2.5
10	1.9	1.4	1	2.2	0	1.7	1.2	2	0.5	4.2
11	0.5	2.5	0.3	2.5	0.5	1.9	0.8	3	1.7	2.8
12	1.7	2.3	1.5	1.7	0.8	1	1.5	2.1	0	2.5
13	0.2	1.6	0.5	1	1.5	1	0.6	3	0.6	2.3
14	0.6	1.5	1	1.2	0.7	1.5	0.3	1.7	1.3	2
15	1.6	2.4	1.5	1	1	1.6	1.2	2.5	0.4	2.5
16	1.4	1.3	0.6	0.9	0.5	0.3	0	1.7	0	2
17	1.5	1.6	0.8	1.3	0.8	2	1.4	2.6	0.3	1.6
18	1	0.9	2	1	0.5	1.8	0	2.8	0.7	2.2
19	1.4	0.6	0.3	3.5	1.6	1.7	1.4	1.7	3	1.7
20	1.7	0.5	1.1	1.3	2.2	2.4	2.8	1	2.5	0.6

21	1.2	1	2.5	1.6	1.2	0.6	2.6	1.3	3.9	2.5	
22	0.5	2.6	0.5	1.2	1.2	1.3	1.8	0.7	2	2.7	
23	0.5	1.7	1	1.5	0.3	0.5	2.5	1.8	2.3	2.8	
24	0.6	0.4	0.8	1.5	0.5	1.7	2.5	0.7	2.7	3.1	
25	0.6	1.2	1.8	1	1.8	2	2	2.3	1.8	0.4	
26	1.1	1.8	0.5	0.6	2.3	1.9	1.3	2	1.1	2.4	
27	2.2	1.6	0.5	1.7	2.5	0.4	1.9	1.5	2.7	2.2	
28	1.5	1.5	2.3	2.1	2.8	0.6	1.4	3	0.8	2.4	
29	0.4	2.3	0.6	1.2	2	2.1	1	0.7	2	0.9	
30	0.6	1	2	0.6	0.5	1	1	2.2	0.5	1.2	
31	1	0.3	0.7	1	2.5	0.7	1	1.5	1.6	0.7	
32	0.3	0.4	1.3	2	2.3	0.5	1.5	0.7	3.2	0.9	
33	1	0.3	0.5	1.2	1.7	1.7	2	1.9	3.4	1.6	
34	0.4	0.3	0.7	2.5	2.5	1	1.9	0.6	2	0.6	
35	1.6	0.9	0.9	2	1.7	1.8	2.2	0.5	2.2	0.7	
36	1.8	2	0.7	2.9	1.4	1.7	1	0.5	2	0.5	
37	1.6	0.5	0.9	0.7	2.7	0.3	0.5	1.9	1.7	1	
38	0.3	0.5	1	0.5	3	2.4	2.2	1	3	1.4	
39	1.9	1.7	0.3	1.1	2.9	1	1.7	0.5	1.5	0.7	
40	1.4	3.4	1	1.2	2	0.4	0.8	1.7	1.4	0.5	
		<i>Daśamī</i>					<i>Ekādaśī</i>				
1	1	2.4	2.3	5.4	3.2	2.8	0	0.8	1.4	6	
2	1.7	3	2	1.8	4	2.4	1.7	1	1	2.8	
3	2.4	3.2	3.2	4.7	5.4	1.8	1.3	0.9	1.8	3.6	
4	1.9	2.2	2.7	2.7	2.7	1.7	1	1.7	2.3	4	
5	1.8	2.5	3.7	0.7	3	1.4	0.7	2.3	1.7	2.3	
6	2.7	3.7	3.9	3.4	0.5	2.6	2.8	0.3	3.2	3	
7	1.8	1	3.4	3	1	2.8	3.8	2	3.4	4.2	
8	1.6	1.2	4	3.7	3	1.2	2.7	2.7	4	3.2	
9	2	1	3	3.4	0.5	1.5	2.8	2	2.7	2	
10	2.2	0.5	2.3	2.7	2.3	1.1	2.5	2	3	2.4	
11	2.2	1.8	3.2	2.9	2	0.5	2.9	1.4	1.5	2.8	
12	1.8	0.7	2.6	2.3	2	2	2.7	2.5	3.4	1	
13	0.5	0.4	3.2	1.85	4.2	1.5	1.5	1.5	2.7	2.5	
14	1.8	2.3	2	3.8	3.4	1.5	2.2	3.4	3.4	3.2	
15	0.6	2.5	3	4	0.5	1.4	2.6	2.6	3	1.2	
16	2	2.4	1.5	3	0.7	2	2.7	3.1	3	3.9	
17	2.7	1.8	2.2	1.3	1.7	1.8	2.1	2.7	1.8	2.1	
18	1	3.2	2.8	1.3	0.4	1.4	2.6	2.4	4	0.5	
19	0.7	1.7	2.3	1.9	0.4	0.8	2.3	2.7	3.2	3.4	
20	1.7	1.4	1.5	1.7	2.6	0	2.5	3.8	2	2.1	
21	2.1	3	2.1	0.5	3	1	1.2	2.7	1.7	0.6	
22	0.5	1.3	3.3	1.6	3.4	2	1.7	2.9	3.7	2.1	
23	0.7	0.8	2.5	3.6	3.9	0.5	1.7	3	2.7	1.3	
24	1.3	1.4	2.1	1	4	2.3	2.5	2.6	0.5	2.8	
25	0.5	1.9	0.5	3.7	3.4	0.5	2	1.3	0.7	2.3	
26	2	2.7	4.6	2	3.7	1.5	2.1	2	0	3.7	
27	0.8	2.6	3.7	4	3.8	1.3	3	2.7	3.2	4.2	

28	1.5	2.8	1.4	0.7	2.8	2.8	0.8	3.1	4.8	4.2
29	2.8	2.4	2.5	3.4	3	3	1	1.8	3.6	2.7
30	0.5	2.3	1	3	4.1	2.4	0.5	2.4	3.8	5.3
31	0.5	0.5	1	3.3	3.3	2	2	2	1.4	1
32	1	2.1	2.4	2.8	2	1.5	1.8	2.6	3	3.6
33	0.8	1.3	2.7	1.2	2.7	0.7	1	1.9	2.8	2.4
34	1	2.1	3	2.2	3.8	0.5	2.8	0.5	0.7	0.7
35	1.3	3.8	2.4	1.4	3	1	1	1	1.4	0.6
36	1	2.5	2	0.5	3.2	2	1.5	1.5	3	0.3
37	0.5	2.8	0.5	2.8	5.1	0.5	1.7	0.5	5	0.5
38	0.7	0.8	1	2.4	4.2	0.5	1.2	2.2	1.2	3.8
39	1.2	2.5	1.7	0.5	2.7	0.7	2.1	3.7	2.3	4.2
40	0	1.2	1.4	1	4.7	1	0.8	2.4	0.4	2.8
	<i>Dvādašī</i>					<i>Trayodašī</i>				
1	3.2	2.9	3	1.8	4	1.5	2.7	4.1	1.6	5.1
2	1.2	3.4	2.7	1.4	3.5	1.8	3.8	2.3	2.5	2.7
3	2.2	1.4	2.2	1.7	3.7	2.3	2.4	2	1	5
4	1.7	2.7	2.6	1.7	4.5	1.7	3	0.5	1.3	5.6
5	1.6	2.6	3.7	2.3	4	2	2.5	2.8	1	4
6	1.9	1	2.8	3.1	5.7	2.3	3	2	1.5	4.3
7	1.5	3	2.5	1.4	4.7	1.3	1	1.4	2.4	3
8	2.3	1.8	3	1	3.8	0.5	1.8	1.4	1.4	3.7
9	2.7	1.6	2.5	0.4	4.2	0.8	3	1.2	2	2.5
10	1.3	3.3	2.8	4	4.2	1.4	0.5	0.5	0.7	4.7
11	0.8	2.9	1.7	0.5	2.3	1.7	2.7	2.6	0.5	3.5
12	1.6	2	2.8	1	4.2	0.9	1.9	2.1	0.3	3.7
13	0.4	2.1	5	1.8	2	1.2	1.6	2	3.9	3.9
14	0.5	1.3	1.7	1.4	2.7	1.4	2.4	2.8	5.8	2
15	0.3	0.5	1.8	1.2	3	1.8	1.5	1	3.6	4.3
16	1.3	0.4	1	2	1.6	1.7	3.2	1.3	3.8	2.9
17	1.6	0	2	0.7	3.3	1.4	2.4	2.3	3	3.2
18	2	1	2.4	1.5	2.5	1.4	3.4	1.3	2	4.4
19	1.8	1.3	3.5	2.8	3	0.8	2.3	0.5	3	2.3
20	1.4	0.5	1.7	2.8	1.7	1.6	2.5	0.5	3	3.6
21	1.7	0.5	2.9	2.4	2.1	2	1.4	1.6	4.2	3.4
22	1	1.2	3.8	2.5	3.7	2.1	0.8	0.5	3.2	2.5
23	1.3	1.8	3.7	1.4	1.5	1.7	1.8	2	5.7	2.9
24	2.4	0.7	2	2	0.5	1.5	1.8	1.5	3.2	3.3
25	0.8	0.5	1.8	2.7	1	1.7	2.6	0.5	1	0.5
26	1.2	2.3	3	3.2	0.5	1.2	1	2.6	5.8	0.4
27	1.7	2.8	1	3	0	0.8	1.7	1	3.7	0.5
28	1	2.8	1.5	3.5	1.4	1	2.2	2.3	1.4	1.5
29	1.7	3	2	3	1.7	1.4	2.8	0.7	3.3	1.3
30	1.3	2	2	2.6	1	1.3	1.4	2	1.5	2.4
31	2	1.8	2.4	1	1.4	0.5	0.5	3.6	0.6	5.3
32	0	1.4	1.2	1.2	1.8	0.5	1.4	2.7	0.5	0.7
33	1.8	3	1	2.2	2.2	1.4	0.5	1.6	2.5	1.8
34	1	2.6	0.4	4.5	3.4	0.3	2.2	1.4	2.2	1.4

35	1.8	2.9	1.5	4	1.7	0.7	0.8	0.8	2.5	0.8
36	1.2	3.2	1.5	2.8	2.3	1.2	2.9	0.5	1.2	2.3
37	1	2	1.4	3	1.2	0	2	3.1	0.5	0.6
38	1.2	2.8	1.2	4	0.8	1.4	2.5	2	0.7	0.3
39	0.8	1.5	0.4	3.1	3.2	2.7	0.8	2.6	2.2	1.7
40	1.2	2.7	3.1	2.4	1.6	1.3	0.7	2.1	1.4	3.2
	<i>Caturdaśī</i>					<i>Amāvasyā</i>				
1	2.1	3.3	3.8	3	5.3	0.6	1.7	3.4	5.1	3.4
2	1	2.3	2.4	3.2	4.2	1.8	2.2	0.4	3.8	1.2
3	2.3	3.3	2.1	4.1	2.8	1.5	2	1	5.3	1.7
4	0.5	3.1	1.8	2.8	3.5	0.9	1.8	1.8	3.8	1
5	1.1	3.1	2.6	3	4	1.8	2	0.3	4.2	1.3
6	2	3.8	2.2	3.4	5.3	1.2	1.1	0.4	3.1	1.6
7	1.8	2.2	1	4	5	0.5	1.7	0.6	3	2
8	1.5	2.3	3	4.8	3.2	1.9	1.5	1.8	3.4	1.4
9	1.7	1.8	2.5	2.7	4.3	2.7	1.9	2	2.8	0.7
10	3.1	3.2	2.7	4	4.7	1.8	1.1	0.4	3.7	0
11	1.8	2.3	3	4	3.5	1	2	1.4	2.6	1
12	1.5	2	3.5	2.1	4.1	1.7	0.6	0.9	1.5	0.8
13	0.5	0.3	2.7	2.4	3	2.1	0.9	3.2	2.5	2.1
14	1.5	2.1	2.4	2.2	2.8	2	1.8	2.9	3.4	0.7
15	1.4	0.7	3.2	4.2	2.5	1.5	2.2	2.4	0.9	1.2
16	1.7	1.8	2.1	3.2	3.4	2	0.4	2.4	5	1
17	1.5	0.6	1.9	3.4	4.2	1.8	0.7	0.9	1.2	2.3
18	0.7	2.7	0	1.8	2.7	2.4	0.7	1	4	0.9
19	0.5	2.8	0.7	0.5	1.5	1.8	0.5	0.5	1	0.7
20	1	1.2	1	1.5	3.1	1.8	1.8	3	1.9	3.5
21	0.3	2.5	1	4.8	2.6	0.4	0.5	2.8	3.8	4.1
22	1.6	0.5	1.5	2	2	1.9	0.3	1.5	1.2	3.9
23	1.3	0.6	2	1.7	2	1.3	0.5	2	1.6	5.3
24	0.8	1	2.5	1.8	3.7	1.9	1	2.4	0.7	4.7
25	1.4	0.5	3	0.5	0.6	1.4	0.8	2.9	0.5	3.3
26	1.2	1.6	0.7	0.8	1	2	1.5	2.9	0.8	4.7
27	1.3	2	4	2	0.7	2.2	2	1.8	1.2	3.5
28	0.5	1.7	1.4	1	0.8	1.4	0.7	2.4	1	3.8
29	0.5	2.4	1	1.7	4.3	1.7	2.4	1.6	1.7	4.2
30	1.6	1.5	2	0.6	3.7	0.8	3.1	1.2	0.6	3.2
31	2.4	2.3	1	2	0.4	1.5	1.2	2.2	2.8	3.1
32	0.5	1.4	1	1.7	0.9	1.7	1.7	2.3	0.4	4.2
33	1.3	2.5	3.2	3.4	2.4	0.6	0.9	4.1	0.7	4
34	1.8	3.1	3.7	2.6	3.1	1.9	0.5	3.2	1	1.4
35	2.2	2.7	0.5	1	2.2	1.5	2.4	2.4	1.8	3.4
36	0.7	2.2	1.4	1.8	1.4	0.3	1	1.2	2.7	3
37	2	1.4	0	3.2	0.7	1.5	0.8	3.4	2.9	2.9
38	0	0.7	0.4	4.7	1	1.8	0.6	3.3	1.9	1.8
39	1.2	0.4	4.2	2.4	1.7	2	0.4	2.7	2.3	4.7
40	1.8	0	1.7	1.8	0.4	0	1.3	1.9	1.2	1

**Table 1.3 Radical length (cm) of germination of fenugreek seeds for lunar days effect at Caitra Māsa**

*Hevilambhināmasamvatsarah uttarāyaṇam vasantaṛtvaḥ caitramāsaḥ*

<i>Śuklapakṣaḥ</i>										
Sl. No.	C	PSY	PBY	MSY	MBY	C	PSY	PBY	MSY	MBY
	<i>Pratīpat and Dvitiyā</i>					<i>Tṛtīyā</i>				
1	0.6	1.2	1.1	0.9	1.3	1.3	1	1.2	1.4	0.6
2	1.2	0.9	0.9	1	1	1.5	1	1.1	1.3	1.1
3	0.8	0.4	1	1.8	1.2	1.4	1.7	0.6	1.5	0.5
4	1	1.3	1	1.4	0.7	1.6	1.4	0.7	0.5	0.8
5	1.2	0.5	0.5	0.9	0.5	0.9	1	0.6	0.9	0.5
6	1.7	0.8	1.1	0.7	0.8	1.2	0.9	0.8	1.3	0.6
7	0.5	0.4	0.6	0.5	0.5	0	0.9	0.5	1.2	0.4
8	0.8	0.9	0.4	1.2	0.5	1.4	1	1.3	1.3	0.5
9	1.1	0.6	0.7	0.8	0.4	1.3	0.8	1	0.8	0.7
10	0.6	0.5	1.4	0.4	0.5	1.7	0.5	0.4	0.8	0.8
11	0.9	1	0.4	0.9	0.7	1.3	0.8	1	0.5	0.8
12	1	0.5	0.3	0.7	0.5	1	1.1	0.8	0.6	0.9
13	0.9	0.3	0.8	0.4	0.3	0.2	1.4	0.4	0.9	0.8
14	0.7	0.5	0.6	0.4	0.4	0.9	0.6	0.4	0.7	1
15	1.1	0.6	0.4	0.3	0.5	0.3	0.3	0.7	0.8	0.5
16	1.4	0.4	0.4	0.3	0.8	0.3	0.8	0.7	0.6	0.4
17	1.2	0.8	0.7	0.2	0.6	0.2	0.3	0.7	0.7	0.5
18	1	0.3	0.5	0.5	0.4	0.7	0.4	0.6	0.8	0.4
19	0.6	0.4	0.8	0.5	0.5	0.9	0.8	1.1	0.6	0.6
20	0.6	0.8	0.7	0.6	0.7	0.8	0.3	0.6	0.5	0.6
21	1.1	0.5	0.8	0.4	0.5	0.3	0.7	0.5	0.5	0.6
22	0.9	0.4	0.8	0.4	0.3	0.8	1	0.6	0.9	0.7
23	1	0.6	0.7	0.3	0.4	0.5	0.9	1.3	0.9	0.6
24	1.2	0.4	0.5	0.7	0.4	0.6	0.7	1.3	0.8	0.6
25	0.8	0.5	0.4	0.8	0.5	0.5	0.5	0.5	0.7	0.6
26	0.7	1.3	0.3	1.1	0.5	1.2	0.5	0.7	0.5	0.5
27	0.6	0.4	1	0.4	0.3	0.7	0.6	1	0.5	0.7
28	0.6	0.6	0.4	0.3	0.4	0.6	1.3	0	0.6	0.9
29	0.5	0.4	0.5	1	0.5	0.7	0.8	0.6	0.5	0.7
30	0.7	0.4	0.7	0.5	0.6	0.6	0.3	0.7	0.3	1
31	0.5	0.5	0.7	0.7	0.4	0.7	1	1.4	0.6	0.8
32	0.4	0	0.6	0.5	0.4	0.8	1.2	1.2	0.6	0.6
33	0.5	0.5	0.4	0.5	0.9	0.8	0.3	1.4	0.7	1
34	0.6	0.5	0.8	0.4	0.5	0.3	0.4	1.9	0.7	1.3
35	0.8	0.7	0.7	0.4	0.8	0.5	0.3	1.4	0.5	0.6
36	0.6	0.4	0.8	0.5	0.6	1.4	0.4	1.2	0.6	1
37	0.4	0.5	0.4	0.7	1	0.7	0.5	1.8	1	0.9
38	0.4	0.5	0.4	0.4	1	0.3	0.7	1.7	0.8	0.9
39	1.3	0.4	0.3	0.5	0.7	0.3	0.3	1.8	0.5	1.3
40	0.5	0.7	0.4	0.4	0.8	0.9	0	1.2	0.5	1.5
	<i>Caturthī</i>					<i>Pañcamī</i>				

1	1.5	1	0.9	0.5	1.2	0.8	1.2	1.4	1.5	0.8	
2	0.8	0.9	0.4	0.4	0.9	0.7	0.9	1.5	0	0.8	
3	0.2	1.2	0.6	0.4	0.5	1.5	1.6	1	0.7	1.1	
4	0.7	0.6	0.8	0.6	0.7	1.5	1.2	1.3	1.4	1.4	
5	1.2	0.6	0.6	0.5	0	1.1	0.9	1.4	1.2	1.4	
6	0.9	0.5	0.5	0.5	0.5	1.3	1.2	1.1	1.4	0.7	
7	0.5	0.4	0.6	0.6	0.6	1.2	1.3	1.3	0.7	0.8	
8	0.4	0.6	0.7	0.5	1	0.9	0.8	1.1	0.8	0.9	
9	0.8	0.8	0.6	0.8	0.5	0.7	1	1.1	0.7	0.5	
10	0.4	0.9	1	0.5	0.7	1	1	0.9	0.7	0.6	
11	0.4	0.5	1.5	0.6	0.7	1.3	0.4	1	1.1	0.9	
12	0.3	1	0.6	0.5	0.8	0.7	0.3	0.8	1.3	1.4	
13	0.7	0.5	0.5	0.7	1.4	1.2	0.7	0.8	0.6	1.7	
14	0.4	1	0.5	0.5	0.8	0.7	0.4	0.9	0.4	1.2	
15	0.8	0.7	0.5	0.6	1.4	0.6	0.6	1.4	0.5	1	
16	0.6	0.3	0.6	0.5	0.7	0.6	0.8	0.6	0.5	1.3	
17	0	0.5	0.7	1.4	0.7	0.8	0.8	0.8	0.8	0.9	
18	0.5	0.4	1.1	1.2	0.6	0.5	0.4	0.8	0.6	0.4	
19	0.8	0.8	1.2	0.9	0.5	0.4	0.6	0.7	0.8	0.5	
20	0.5	0.5	0.5	0.8	0.7	1.1	0.3	0.8	0.9	0.8	
21	0.5	0.4	0.7	0.5	0.9	0.2	0.4	0.7	0.8	0.7	
22	1.1	0.4	0.5	1.4	0.8	0.7	0.5	0.6	0.7	0.7	
23	0.8	0.6	0.5	1.2	0.7	0.8	0.4	0.6	0.7	0.9	
24	0.6	0.4	0.8	0.9	0.6	0.5	0.6	0.7	1	1.2	
25	0.3	0.4	0.5	0.7	0.6	0.9	0.4	0.7	1.2	1	
26	0.5	0.5	0.7	0.5	0.4	0.8	0.7	1	0.9	0.7	
27	0.4	0.9	0.9	0.4	0.5	0.6	0.3	1.1	0.8	0.4	
28	0.8	0.7	0.4	0.6	1.3	0.3	0.8	0.5	1.4	0.5	
29	0.4	1	0.4	0.4	0.8	0.5	0.5	0.4	1.1	0.5	
30	0.5	0.8	0.3	0.4	1.2	1	0.4	0.8	1	0.4	
31	0.9	0.8	0.4	0.4	0.7	0.5	0.4	0.6	1.4	1.9	
32	0.7	0.3	0.4	1	0.7	0.6	0.5	0.5	1.3	1.3	
33	0.5	0.4	0.5	0.5	0.5	0.4	0.5	0.7	1	1.4	
34	0.7	0.4	0.6	0.8	0.4	0.3	0.3	0.5	0.9	0.2	
35	0.7	0.5	0.7	0.8	0.8	0.4	0.7	0.5	0.8	1	
36	0.5	0.4	0.4	0.7	0.5	0.5	0.6	0.6	0.5	0.3	
37	0.4	0.4	0.5	0.9	0.7	0	0.6	0.4	0.4	0.8	
38	1	1.4	0.4	0.6	0.8	0.7	0.5	0.8	0.4	0.7	
39	0.6	0.6	0.7	0.4	0.4	0.4	0.3	1	1.1	0.4	
40	0.4	1.1	0.5	0.9	0.5	0.6	0.3	0.4	1	1.2	
		<i>Şaṣṭhi</i>					<i>Saptamī</i>				
1	0.5	1.5	1.9	0.4	1.4	1.3	0.6	1.4	1	0.5	
2	0.7	1.7	1.7	0.4	0.6	1.3	1.4	1.2	0.8	1.2	
3	0.5	1.1	0.5	0.5	0.6	1.4	1	1	0.5	0.6	
4	0.9	1.7	0.7	0.6	0.6	1	0.5	0.5	0.4	0.3	
5	0.7	1.5	0.8	0.4	0.7	0.9	0.6	1.1	0.5	0.4	
6	1.2	1	0.9	0.5	0.9	0.6	0.5	0.4	0.6	1	
7	0.5	1.4	0.6	0.7	0.9	1.1	0.5	1	0.7	0.5	

8	0.9	0.9	0.6	0.9	0.5	1.1	0.7	1.1	1	0.4
9	0.3	1.4	0.7	0.9	0.7	0.5	0.6	1.2	1	0.5
10	0.5	1.1	0.7	0.7	0.4	0.8	0.5	0.8	0.5	0.4
11	0.7	1.1	0.7	0.7	1.2	1	0.4	1	0.6	0.5
12	1	1	0.5	1	0.6	0.7	0.4	1	0.5	0.5
13	0.4	0.4	1.6	0.9	0.7	0.9	0.5	0.7	0.5	0.6
14	0.5	0.8	0.6	0.4	0.6	0.9	0.9	1.5	0.5	0.7
15	0.5	0.8	0.7	0.6	0.4	0.5	0.6	0.7	0.6	0.6
16	0.5	0.5	0.6	0.5	0.8	0.7	0.7	0.5	0.6	0.7
17	0.4	0.4	0.5	0.5	0.6	0.4	0.5	0.9	0.6	0.5
18	0.6	0.7	0.4	0.6	0.8	0.6	0.6	0.8	0.7	0.6
19	0.5	0.4	1.1	0.5	0.8	0.7	0.7	0.6	0.7	0.4
20	0.7	0.5	0.5	0.4	1	0.5	0.9	0.4	0.7	0.6
21	0.3	0.9	0.5	0.4	1.2	0.5	0.8	0.6	0.7	0.5
22	0.8	0.3	0.5	0.7	0.7	1.1	0.5	0.5	0.4	0.5
23	1.1	0.5	0.5	0.5	0.5	0.3	0.6	0.5	0.6	0.5
24	0.6	0.3	0.8	0.6	0.7	0.6	0.7	0.7	0.8	1
25	0.5	0.5	1.2	0.7	0.9	0.7	0.7	0.8	0.8	1.2
26	0.7	0.5	0.5	0.7	1.4	0.6	0.6	0.9	0.4	0.4
27	0.5	0.7	0.5	0.3	0.7	0.8	0.9	0.7	0.6	0.7
28	0.7	0.6	0.3	0.5	0.9	0.6	0.7	0.4	0.2	0.7
29	0.9	0.6	0.9	0.6	0.5	0.5	0.8	0.9	0.7	0.5
30	0.6	0.7	0.5	0.6	0.8	0.4	0.9	0.6	0.5	0.7
31	0.7	0.4	0.6	0.5	0.4	0.8	0.8	0.6	0.7	0.4
32	0.7	0.5	0.4	0.5	0.8	0.6	0.6	0.8	1	0.5
33	0.4	0.3	0.8	0.5	0.5	0.8	0.6	0.5	1.1	0.6
34	0.3	0.7	0.4	0.5	0.8	0.4	0.4	0.7	1	0.3
35	0	0.4	0.6	0.5	1	0.3	1.2	0.6	1.2	0
36	0.5	0.4	0.5	0.7	0.6	1	0.8	0.9	1	0.7
37	0.5	0.6	0.6	0.6	0.6	0.5	0.9	1.2	0.8	0.6
38	0.5	0.4	1.2	0.6	0.8	0.6	1	1	0.6	0.8
39	0.8	0.5	1	0.5	0.5	0.4	0.6	1.2	0.4	0.4
40	0.8	0.7	0.4	0.5	0.7	0	1.1	2.1	0.5	0.7
	<i>Aṣṭamī</i>					<i>Navamī</i>				
1	0.7	0.7	1.1	1.3	0.7	1.4	0.5	1.4	0.5	0.7
2	1.1	1	0.6	0.7	1.2	0.9	1.5	0.5	0.6	1.2
3	1	1.1	1.3	0.9	0.5	1.5	0.8	0.7	0.7	0.9
4	0.9	1.6	0.7	1.1	0.6	1.4	1.7	1.5	0.6	0.3
5	0.6	1.4	1.2	0.5	0.7	1.2	0.8	1.2	0.5	1
6	0.9	1.3	0.9	0.5	0.4	0.9	1.4	0.7	0.8	0.6
7	0.8	1	0.7	0.4	0.4	1.3	1.2	1	0.5	0.8
8	0.4	1	0.7	0.7	0.4	1.2	1.3	0.8	0.6	0.8
9	0.8	1.1	1.3	0.7	0.6	0.4	1.4	1.1	0.8	1
10	0.4	1.1	0.5	0.5	0.6	0.5	0.5	0.9	0.6	0.6
11	0.7	1.6	1.1	0.6	0.7	0.7	1.3	0.6	0.5	0.5
12	0.4	0.5	0.8	0.3	0.7	0.6	1.6	0.6	0.6	0.5
13	0.9	0.4	1.1	0.8	0.9	0.5	1.2	1.3	0.5	1.1
14	0.5	0.8	0.7	0.5	0.8	0.3	1.2	1.4	0.4	0.7

15	0.4	0.7	0.7	0.5	0.4	0.3	1.1	1.3	0.5	0.6
16	0.6	0.5	1	0.5	0.7	0.7	0.9	1.1	0.5	0.6
17	0.8	1	0.6	0.6	1	0.6	0.5	0.5	0.5	0.8
18	0.6	0.8	0.4	0.7	0.5	0.6	1.1	0.5	1.1	1.1
19	0.6	0.7	0.7	0.5	0.9	0.4	0.5	0.8	0.4	0
20	0.5	0.6	0.5	0.6	0.4	0.6	1	0.8	0.5	0.8
21	0.8	0.7	0.7	0.6	0.8	0.8	0.9	1	0.4	0.8
22	0.6	0.8	1.1	0.5	0.4	0.8	0.8	0.5	0.6	0.5
23	0.7	0.4	0.6	0.7	0.6	0.4	0.8	0.7	0.5	0.7
24	0.9	0.5	0.5	0.6	1.1	0.4	1.1	0.5	0.6	0.6
25	0.4	0.8	0.8	0.5	1	0.3	0.7	0.6	0.6	0.6
26	0.7	1	1.1	0.6	0.5	0.7	0.4	0.4	0.7	0.5
27	0.7	0.3	0.8	0.5	0.5	0.3	0.6	0.4	0.7	0.6
28	0.4	0.7	0.9	0.6	0.4	0.5	0.6	0.6	0.6	0.5
29	0.6	0.9	0.4	0.7	0.6	0.6	0.5	0.6	0.5	0.7
30	0.5	0.5	0.5	0.8	0.5	0.3	1.1	0.5	0.5	0.7
31	0.8	0.4	0.6	0.5	0.5	0.5	0.8	0.6	0.5	0.4
32	0.4	0	0.4	0.6	0.6	0.4	0.8	0.6	0.7	0.6
33	0.4	0.6	0.4	0.7	0.5	0.4	0.5	0.5	0.7	0.9
34	0.7	0.9	0.7	0.8	0.9	0.5	0.5	0.7	0.5	0.7
35	0.4	0.4	0.8	0.5	0.8	0.4	0.6	0.6	0.9	0.5
36	0.5	0.5	0.8	0.6	0.5	0.3	0.4	0.7	0.7	0.5
37	0.6	0.4	0.6	0.6	0.5	0.3	0.7	0.5	0.7	0.6
38	0.6	0.4	0.7	0.4	0.6	0.6	0.6	0.4	1.1	0.8
39	0.5	0.5	0.5	0.4	0.4	0.3	0.8	0.9	0.6	0.4
40	0.8	0.5	0.6	0	0.8	0.3	0.4	0.7	0.4	0.4
	<i>Daśamī</i>					<i>Ekādaśī</i>				
1	0.8	1.1	1.5	0.5	1.5	1.2	1.2	2	1.5	1
2	0.6	0.7	0.7	0.5	0.7	0.8	0.5	1.3	1.4	0.5
3	0.5	0.8	1.1	0.5	1	0.5	0.7	0.8	1	1.5
4	1.5	1	1.1	0.9	0.5	0.7	1.5	2.3	0.5	0.9
5	0.4	0.6	1.7	0.4	1.9	0.6	0.9	1.6	0.5	0.7
6	0.6	0.5	1.3	0.5	1	0.7	0.5	2.1	1.5	1.7
7	0.9	0.5	1.1	0.4	0.6	0.8	1.3	1.4	0.4	1.3
8	0.5	0.5	0.7	0.4	0.5	0.6	1	1.4	1.1	0.6
9	0.6	0.6	1	0.6	0.5	0.4	0.9	1.2	0.9	1.6
10	0.9	1	1.4	0.5	0.5	0.5	1	0.9	1.1	1.5
11	0.8	0.6	1.1	0.7	0.6	1	1.1	1.3	0.4	0.7
12	0.7	0.9	0.5	0.6	0.5	0.5	1.3	1.5	0.4	1.1
13	0.5	0.6	0.9	0.6	0.4	0.6	0.9	1.2	0.7	0.6
14	0.6	0.6	1	0.4	0.5	0.5	1.1	1.2	0.5	0.5
15	1.2	0.4	0.5	0.5	0.5	0.5	1.3	0.6	0.9	0.8
16	0.9	0.5	0.4	0.4	0.6	0.8	0.9	0.8	1.3	0.5
17	1.3	0.9	0.5	0.4	1.1	1.1	0.7	1.4	0.5	0.5
18	0.9	0.7	0.9	0.5	0.5	0.6	0.4	0.8	0.8	0.6
19	0.7	0.4	0.6	0.6	0.5	0.3	1	0.8	0.5	0.6
20	0.6	0	0.6	0.5	0.5	0.4	0.5	1	0.7	0.5
21	1.1	0.6	0.5	0.7	1	0.4	0.7	0.8	0.6	0.6

22	0.5	0.9	0.6	1.4	0.7	0.5	0.6	0.7	0.5	0.5
23	0.5	0.5	0.5	1.5	0.6	0.8	0.7	0.7	0.3	1.1
24	1.2	1.2	0.6	1.2	0.5	0.6	0.8	0.4	0.5	0.7
25	0.5	1	0.9	1.2	1.1	0.3	0.6	0.4	0.5	0.9
26	0.4	0.9	0.8	1	0.8	0.5	0.6	1.3	0.7	0.9
27	0.5	0.7	0.9	0.7	0.6	0.5	0.4	0.5	0.4	0.5
28	0.9	0.5	0.9	0.8	0.5	0.7	0.6	0.3	0.6	0.7
29	0.6	0.7	0.5	0.7	0.7	0	0.5	0.6	0.7	0.6
30	0.5	0.8	0.5	0.5	0.6	0.6	0.4	0.4	0.3	0.5
31	1	1	0.7	0.5	0.5	0.6	0.7	0.5	0.3	1.1
32	0.7	0.7	0.7	0.6	0.5	0.4	0.6	0.5	0.4	1
33	0.9	0.7	1.1	0.4	0.6	0.8	0.5	0.4	0.6	0.4
34	0.8	1	0.5	0.8	0.6	0.6	0.5	0.5	0.4	0.5
35	1.5	0.9	0.4	1	0.6	0.6	0.5	0.9	0.5	1
36	1.2	0.8	0.4	0.9	0.4	0.5	0.5	1	0.6	0.7
37	0.6	0.8	0.7	0.4	0.7	0.5	0.5	0.9	0.6	0.5
38	0.4	0.7	0.5	0.7	0.4	0.7	0.7	0.4	0.4	0.7
39	0.5	0.8	0.5	0.4	0.3	0.5	0.5	0.5	0.5	0.6
40	0.5	0.8	0.6	0.5	0.6	0.7	0.9	0.5	0.6	0.8
	<i>Dvādašī</i>					<i>Trayodaśī</i>				
1	1.3	1.2	1	1.7	1.3	1	0.4	1.6	0.5	1.4
2	0.5	2	1	0.5	1.2	0.5	0.4	0.8	0.5	0.5
3	0.9	1.2	0.9	1.4	1.3	0.6	0.7	1.2	0.6	0.4
4	1.7	1.5	1.1	0.6	0.9	0.8	0.4	0.6	0.6	0.7
5	1.3	0.6	1.2	0.5	0.8	0.9	0.6	0.8	1	0.6
6	0.9	1.2	0.8	0.7	0.7	0.7	0.4	0.7	0.6	0.7
7	1.5	1.3	0.4	0.6	0.6	0.5	1.3	0.5	0.7	0.5
8	1	1.6	0.5	0.5	0.4	0.6	0.8	0.5	0.5	0.4
9	1.6	0.9	0.9	1.1	0.9	0.5	0.8	1	0.9	0.6
10	1	0.9	1	0.6	0.7	0.6	0.8	0.5	0.7	0.5
11	0.8	1.7	0.7	0.5	0.8	0.7	0.5	0.7	0.7	0.5
12	1.3	1	0.6	0.8	0.5	0.5	0.4	1.2	1	0.6
13	1.3	0.5	0.5	0.6	0.6	0.7	0.8	0.4	1.2	0.4
14	1	1.1	0.5	0.4	1	0.5	0.4	0.4	0.6	0.6
15	0.8	1.4	0.7	0.9	0.6	1	0.4	0.8	0.7	0.4
16	0.6	1.1	0.5	0.7	0.5	0.5	0.5	0.5	0.4	0.6
17	1.5	0.9	0.6	0.8	0.6	0.5	0.5	0.7	0.6	1
18	0.6	1.4	1.6	0.9	0.7	0.9	0.6	1	0.7	0.5
19	0.7	0.5	0.9	0.4	0.5	0.4	0.5	0.6	0.6	0.6
20	0.7	1.1	0.8	0.8	0.6	1	0.6	0.4	0.6	0.5
21	0.3	0.8	0.4	0.4	0.9	0.5	1.9	0.5	0.5	0.5
22	0.9	1.1	0.4	0.5	0.8	0.6	1.4	0.5	0.5	0.6
23	1.4	1.2	0.7	0.6	0.5	0.5	0.9	0.6	0.5	0.8
24	0.6	1.2	0.7	0.6	0.5	0.5	0.9	0.5	0.5	0.5
25	0.5	1.4	0.7	0.3	0.6	0.8	0.5	0.7	0.5	0.7
26	1.1	1.3	1.2	0.4	0.9	1	1	1.3	0.7	0.6
27	0.9	0.8	0.5	0.9	0.2	0.9	1.3	0.4	0.6	0.8
28	0.5	0.6	0.5	0.5	0.3	0.6	0.6	0.5	0.6	0.5

29	0.5	0.9	0.6	0.4	0.7	0.9	0.9	0.5	0.6	0.9
30	0.9	0.9	0.7	1.2	0.7	0.8	1	0.7	0.5	0.7
31	0.8	0.8	0.4	0.5	0.4	0.9	1.1	0.8	0.5	0.6
32	0.8	1	0.9	0.6	0	0.8	0.9	0.5	1.2	0.7
33	0.7	0.9	2.6	0.6	1.4	0.7	0.7	0.6	0.9	0.5
34	0.6	1	1	0.7	0.5	1	1.3	0.6	0.4	0.8
35	0.8	1.4	1.3	0.5	0.9	0.8	1.1	0.5	0.5	0.6
36	0.8	0.3	1.1	0.4	0.4	0.7	0.8	0.5	0.5	0.5
37	0.4	1.1	1.3	0.7	1.2	0.6	0.8	0.3	0.7	0.7
38	0.7	0.5	1.1	0.5	0.7	0.5	1.4	0.7	0.6	0.4
39	0.7	0.5	1.2	0.5	0.8	0.5	0.6	0.5	0.6	0.4
40	0.4	0.4	1.7	0.5	1.6	0.2	0.5	0.5	0.6	0.3
	<i>Caturdaśī</i>					<i>Pūrṇimā</i>				
1	1	1.3	1.9	0.9	0.6	0.7	1.5	0.5	0.8	0.7
2	0.7	1.5	0.5	0.5	0.5	0.6	0.7	0.7	1.1	0.8
3	1.2	1	1.4	0.9	1.6	0.5	1.3	0.7	0.8	1.4
4	0.6	1.3	1	0.4	1	1.5	0.8	1.6	0.5	1.2
5	0.7	1.1	0.8	0.7	0.5	1.3	0.7	0.5	0.5	0.6
6	0.8	0.5	0.6	0.8	0.6	0.9	1.6	1	0.9	1.3
7	0.5	1.4	0.6	0.5	0.5	0.5	0.9	0.7	0.7	0.7
8	0.6	1	1.1	0.5	0.6	1.1	1.2	0.9	0.5	1
9	0.9	1	0.9	0.6	0.7	1.5	1.1	1.1	0.5	0.5
10	1.1	0.9	0.8	1	0.5	1	0.5	0.5	0.7	0.8
11	1	0.9	0.9	0.7	0.7	0.5	0.5	1.3	0.5	1.4
12	0.7	1.1	0.5	0.8	0.6	0.9	0.4	1.4	0.5	0.8
13	0.8	0.6	0.8	0.4	0.8	0.5	0.4	0.9	0.6	1
14	0.8	0.6	1	0.9	0.7	0.5	0.9	0.5	0.4	0.6
15	0.4	0.9	0.8	0.5	0.4	1	0.7	1.1	0.4	0.7
16	0.5	0.5	0.7	0.9	0.7	1.3	0.6	0.9	0.6	0.7
17	0.5	0.6	1	0.7	0.7	0.5	0.4	0.7	0.6	1.3
18	0.4	0.4	0.5	0.6	0.6	0.5	0.6	0.7	0.5	0.6
19	0.5	0.5	0.3	0.6	0.5	0.6	0.7	0.5	1	0.7
20	0.5	0.9	0.7	0.7	0.5	0.9	0.5	0.5	1.1	0.5
21	0.5	0.8	0.8	0.8	0.7	1.4	0.9	0.9	0.6	0.5
22	0.6	0.5	1	0.5	0.9	0.7	0.9	0.9	0.5	0.4
23	0.8	0.5	1	0.7	1.1	0.4	0.8	0.9	0.6	0.8
24	0.6	0.4	1	0.4	0.4	1	0.7	1.4	0.3	0.4
25	0.4	0.6	0.8	1.2	0.9	0.5	0.5	0.9	0.5	0.6
26	0.5	0.5	0.5	0.5	1.1	1	0.4	0.8	0.5	0.6
27	1.2	0.6	0.6	0.9	0.7	1	0.5	0.7	0.5	0.6
28	0.6	0.5	0.8	0.4	0.8	0.8	1.9	0.5	0.5	0.5
29	0.5	0.5	0.7	0.6	0.3	0.3	0.9	1	0.5	0.4
30	0.7	0.7	0.6	0.5	0.7	0.4	0.8	0.9	0.5	0.4
31	0.7	0.9	0.6	0.5	0.6	0.5	0.4	0.7	1	0.5
32	0.9	0.7	0.5	0.7	0.6	0.4	2.1	0.8	0.9	0.8
33	0.5	1.3	0.6	0.7	0.7	0	0.6	0.5	0.9	0.5
34	0.5	1.1	0.8	0.4	0.7	0.5	0.4	0.7	0.5	0.5
35	0.7	0	0.4	0.6	0.4	0.6	0.5	0.5	0.9	0.6

36	0.7	0.5	0.5	0.3	0	0.4	0.4	0.5	0.6	0.5
37	0.7	0.7	0.7	0.4	0.4	0.5	0.5	0.9	0.6	0.6
38	1.1	0.7	0.5	0.7	0.4	0.5	0.7	0.6	0.6	0.4
39	1	0.7	0.6	0.6	0.5	0.6	0.5	0.6	0.9	0.4
40	0.7	0.4	0.6	0.2	1.1	0.4	0.5	0.7	0.6	0.5
<b><i>Kṛṣṇa Pakṣaḥ</i></b>										
<b>Sl. No.</b>	<b>C</b>	<b>PSY</b>	<b>PBY</b>	<b>MSY</b>	<b>MBY</b>	<b>C</b>	<b>PSY</b>	<b>PBY</b>	<b>MSY</b>	<b>MBY</b>
	<b><i>Pratipat</i></b>					<b><i>Dvitiyā</i></b>				
1	1.1	0.4	0.4	1.1	0.7	1.4	2	0.5	0.4	0.5
2	1.3	0.7	0.5	0.8	0.6	1.2	1.8	0.9	1.6	1.3
3	1.3	0.6	0.5	0.5	0.8	1.4	1.3	1.3	1	0.5
4	1.6	1	0.6	0.7	0.9	1.3	0.7	1.2	1.1	0.9
5	0.5	0.5	0.5	0.7	0.7	0.8	1.8	1.1	1	0.7
6	0.8	0.4	0.5	0.6	0.8	1.1	1.1	0.5	1.1	0.7
7	0.4	0.5	0.7	1.4	0.8	1.3	0.6	1.6	0.5	0.5
8	0.4	0.6	0.5	0.8	0.3	1	0.9	1.4	0.4	1
9	0.6	0.8	0.6	0.7	0.5	1.4	0.6	0.6	0.4	0.5
10	0.8	0.4	0.5	0.7	0.3	0.7	0.6	0.5	0.4	0.5
11	0.8	0.6	0.2	0.6	0.8	0.9	0.7	0.5	0.5	1.1
12	0.8	0.5	0.8	0.5	0.5	1	0.8	0.5	0.4	0.9
13	0.9	0.3	1.2	0.8	0.5	0.9	1.5	0.5	0.9	0.6
14	0.4	0.4	0.6	0.7	0.6	0.5	0.6	1.4	1.6	1
15	0.9	0.6	0.6	0.7	0.8	1.2	0.5	1.5	1	0.6
16	0.6	1.3	0.9	0.5	0.5	1.1	0.9	1.2	0.5	0.8
17	0.6	0.9	0.9	0.4	0.4	1.2	0.9	0.6	0.7	1.7
18	0.6	0.3	1.6	1.1	0.6	0.9	0.7	1.2	0.4	0.7
19	0.7	0.4	1.1	0.5	0.5	1	1.3	1.1	1.2	0.8
20	0.6	1.4	0.5	0.4	0.4	1.3	0.9	0.6	1.2	0.5
21	0.7	1.1	1.6	0.4	0.7	1	0.6	0.5	0.4	0.6
22	0.8	0.5	1.3	0.6	0.5	1.1	0.7	0.6	0.5	0.7
23	0.9	0.4	0.9	0.7	0.8	1.4	1.6	1.3	0.7	0.5
24	0.5	0.9	1	0.6	0.5	1.5	1.3	1.3	0.6	1
25	0.8	0.4	1	0.7	0.7	1.2	1.1	1	0.5	0.5
26	0.5	0.5	0.6	0.5	0.3	0.5	2.3	0.9	0.5	0.6
27	0.6	0.5	0.7	0.4	0.5	0.9	1.5	0.5	0.6	0.5
28	0.8	0.6	0.4	0.5	0.4	1	1.8	0.5	0.5	0.4
29	0.5	0.9	0.7	0.7	0.7	1	0.9	1	0.5	0.4
30	0.4	1.2	0.8	0.7	0.6	0.4	1.4	0.9	0.4	0.6
31	0.9	0.5	0.5	0.4	0.4	1.2	1	0.8	0.7	0.5
32	0.6	0.3	0.5	0.6	0.4	0.8	0.8	0.9	0.4	0.5
33	0.7	0.7	0.7	0.7	0.6	0.9	1	2.1	1	0.4
34	0.4	0.7	0.5	0.8	0.9	0.9	1.9	0.7	0.6	0.5
35	0.8	0.9	0.6	0.4	1.1	1.4	1.1	1.1	0.5	0.9
36	0.5	0.9	0.4	0.5	1	1	0.6	0.9	1	1.2
37	0.8	0.6	0.4	0.5	0.7	0.6	0.7	0.7	0.9	0.6
38	0.6	0.7	0.5	0.7	0.4	1.2	1	1.5	0.4	0.4
39	0	0.7	0.7	0.5	0.6	1.3	0.9	1.2	0.5	0.6
40	0	0.7	0.6	0.6	0.3	0	0.4	1.1	0.8	0.6

	<i>Trīyā</i>					<i>Caturthī</i>				
1	1.5	0.8	1.4	0.7	0.8	1.5	0.5	1.5	1.6	0.8
2	0.5	1.2	1.8	0.9	0.6	1.5	0.9	1.4	0.4	0.8
3	0.5	0.5	1.5	0.4	0.6	1.4	0.8	1	0.5	0.5
4	0.6	1.2	1	0.4	0.8	1.5	0.7	1.1	0.5	0.7
5	0.7	0.5	1	0.6	0.8	1.4	1.2	1.1	0.8	0.5
6	0.9	0.7	1	0.5	0.4	1.3	1.1	1.5	0.8	0.5
7	0.6	0.4	0.7	0.6	1	1.2	0.4	1.3	0.5	0.4
8	0.9	0.7	0.6	0.6	0.4	0.7	1.2	1	0.6	0.9
9	0.8	0.8	1.1	0.8	0.7	0.8	0.5	1.8	0.4	0.8
10	1.3	0.6	2	0.4	0.7	0.5	1.3	1.2	0.6	0.7
11	0.4	1	1.2	0.9	0.5	0.4	0.5	2	0.8	0.7
12	1	0.6	0.9	1.1	0.6	0.5	0.9	1.2	0.4	0.4
13	1.1	0.9	0.4	0.5	0.5	0.4	0.5	1	0.5	0.6
14	0.5	0.5	1.6	0.5	0.9	0.6	0.5	0.5	0.6	0.6
15	0.9	0.3	0.4	0.6	0.4	0.5	0.7	0.9	0.8	0.7
16	0.5	1.3	0.3	0.4	0.7	1.3	0.5	1.4	0.4	0.7
17	0.5	0.4	0.4	0.4	0.4	0.7	0.8	0.6	0.4	0.6
18	0.5	0.5	0.5	0.4	0.5	0.6	0.5	0.4	0.5	0.6
19	1.2	0.3	1.4	0.4	0.5	1.4	0.9	0.5	0.4	0.4
20	1	0.5	0.5	0.5	0.6	0.7	0.7	0.6	0.4	0.6
21	0.5	1.1	0.4	0.4	0.5	1.4	0.8	0.9	0.5	0.6
22	0.6	0.4	0.4	1	0.4	1.6	0.7	0.7	0.6	0.5
23	1.2	0.5	0.8	0.5	0.7	1	0.4	0.6	0.6	0.7
24	0.5	1	0.7	0.9	0.8	0.5	1.3	0.4	0.7	0.8
25	0.5	0.8	0.9	0.3	0.4	0.6	0.5	1	0.9	1
26	0.5	0.6	0.9	0.7	0.8	0.5	0.6	0.7	0.4	1.1
27	0.4	0.7	0.7	0.4	0.4	0.5	0.6	0.5	0.8	0.4
28	0.9	0.5	0.5	0.4	1.1	0.7	0.9	1.2	0.6	0.4
29	0.3	0.4	0.5	0.5	0.7	0.7	0.8	0.9	0.5	0.7
30	0.4	0.5	0.6	0.7	0.3	0.4	0.6	0.5	0.8	0.4
31	0.7	0.5	0.5	0.5	0.9	0.5	0.9	0.4	0.7	0.4
32	0.8	0.6	0.4	0.6	0.4	0.2	0.4	0.7	0.4	0.5
33	0.5	0.7	0.4	0.5	0.7	0.8	1.7	0.4	0.5	0.9
34	0.7	0.4	0.5	0.4	0.4	0.4	1.4	0.6	0.5	0.7
35	1.1	0.4	0.5	0.5	0.5	1.5	1.8	1	0.5	0.7
36	0.7	0.4	0.4	0.3	0.6	0.8	0.3	0.8	0.5	1.4
37	0.3	0.4	0.4	0.4	0.9	0.5	0.7	0.4	0.7	0.8
38	0.6	0.7	0.4	0.4	0.7	0.5	0.8	0.7	0.5	0.7
39	0.4	0.4	0.4	0.5	0.4	0.5	1.3	0.6	0.6	0.6
40	0	0.5	0.5	0.7	0.5	0.4	1.1	0.3	0.4	0.8
	<i>Pañcamī</i>					<i>Ṣaṣṭhi</i>				
1	1.4	0.8	1.1	0.8	0.7	0.5	0.9	1.5	0.7	0.7
2	1.6	0.5	1.6	0.5	1.1	0.5	0.6	0.9	1	0.5
3	1.5	0.5	1.5	0.8	0.9	0.4	0.6	0.7	0.8	1.2
4	0.5	0.6	1.2	1.3	0.6	0.5	0.5	0.9	0.5	1.1
5	1.1	0.6	0.5	0.7	0.5	0.5	0.6	0.6	0.5	1.5
6	0.5	1.3	1.2	0.5	0.4	0.5	0.5	0.5	0.3	0.5

7	0.5	0.9	1.5	0.6	0.9	0.5	0.7	1.2	0.4	1.3
8	0.8	0.5	0.9	0.7	0.5	0.4	0.9	0.6	0.4	0.5
9	0.7	0.7	1.1	0.4	0.7	0.4	0.5	0.7	0.6	0.4
10	0.5	0.7	1.2	0.4	0.4	0.7	0.9	0.9	0.5	0.4
11	1.2	0.3	1.5	0.4	0.5	0.5	0.7	0.4	0.7	0.5
12	0.6	0.5	0.6	0.5	0.7	0.5	0.6	0.9	0.7	0.5
13	0.5	0.4	0.5	0.6	0.4	0.5	0.6	0.3	0.5	0.3
14	0.6	0.4	0.3	0.7	0.6	0.5	0	0.3	0.8	0.7
15	0.5	1.2	1	0.3	0.6	0.5	0.7	0.6	0.5	0.4
16	0.5	0.7	1.1	0.4	0.5	0.5	0.3	0.4	0.9	0.5
17	0.5	0.9	0.5	0.7	0.6	0.7	1	1	0.6	0.6
18	0.9	0.4	0.6	0.6	0.7	0.5	0.8	0.9	0.6	0.6
19	0.5	0.5	1.2	0.5	0.7	0.5	0.6	0.6	0.7	0.7
20	0.4	0.7	0.9	0.7	0.7	0.4	0.7	0.4	0.6	1.3
21	0.5	0.6	0.5	0.7	0.6	0.6	1	0.5	0.7	0.5
22	0.7	0.5	0.5	0.9	0.9	0.5	0.8	0.5	0.5	0.6
23	1.1	0.3	1	0.3	0.5	0.6	0.7	0.4	0.8	0.7
24	0.7	0.5	0.7	0.4	0.6	0.5	1	1	0.6	0.3
25	0.5	0.6	0.8	0.4	0.5	0.6	0.5	0.5	0.9	0.6
26	0.5	0.5	0.5	0.8	0.4	0.7	0.5	0.8	0.2	0.6
27	0.6	0.5	0.5	0.5	0.7	0.5	0.6	0.4	0.4	0.5
28	0.7	0.6	1.2	0.9	0.4	0.4	0.6	0.7	0.4	0.7
29	0.5	0.8	0.5	0.5	0.5	1	0.5	0.5	0.5	0.5
30	0.5	0.5	0.7	0.4	0.6	0.6	0.6	0.7	0.4	0.4
31	0.5	0.6	0.5	1	1.3	0.6	0.5	0.9	0.4	0.7
32	0.9	0.5	1.3	0.9	0.4	0.8	0.8	0.6	0.5	0.5
33	0.4	0.3	0.6	1.4	0.4	0.5	0.5	0.8	0.5	0.4
34	0.5	0.4	0.7	0.5	0.5	0.5	0.6	1	0.5	1
35	0.5	0.7	0.4	1	0.7	0.4	0.5	0.8	0.6	0.7
36	0.5	0.6	0.5	0.5	0.5	0.8	0.6	0.8	0.8	0.6
37	0.9	0.4	0.6	0.6	0.7	0.5	0.7	0.5	0.4	0.5
38	0.5	0.5	0.5	1.2	0.5	0.4	0.5	0.6	0.3	0.5
39	0.5	0.5	0.4	0.4	0.5	0.4	0.6	0.9	0.4	0.4
40	0.5	0.5	0	0.8	0	0.5	0.8	0.7	0.6	0.6
	<i>Saptamī</i>					<i>Aṣṭamī</i>				
1	1.8	0.8	1.1	0.6	0.5	0.7	0.7	1	0.4	0.6
2	0.6	0.7	0.8	0.6	0.6	1.4	0.5	1	0.5	1
3	0.9	0.9	0.7	0.3	0.5	1.2	1	0.8	0.4	0.4
4	1.5	0.5	0.6	0.5	0.6	0.5	0.6	1.1	0.7	0.5
5	0.6	0.9	0.5	0.4	0.4	0.4	1	0.6	1.1	0.6
6	0.4	0.7	0.6	0.5	2.1	0.6	0.7	1	0.5	1.4
7	0.7	0.6	0.6	0.3	0.8	0.3	0.6	0.8	0.6	0.9
8	0.5	0.5	1	0.6	0.6	0.5	0.5	0.5	0.5	1.1
9	0.5	0.4	0.9	0.5	0.5	0.7	0.7	1	0.9	0.3
10	0.4	0.5	0.4	0.4	0.5	1.4	0.5	0.4	1	0.5
11	0.7	0.3	0.9	1.1	0.6	0.8	0.6	0.5	0.4	0.5
12	0.9	0.9	0.4	0.6	0.9	0	0.6	0.8	1.1	0.4
13	0.5	0.7	0.6	0.5	0.7	1.8	0.7	0.8	1.3	0.7

14	0.5	0.5	0.4	0.3	0.3	0.5	0.5	0.8	0.8	0.5
15	0.7	0.4	0.5	0.5	0.5	1.1	0.4	0.5	0.9	1.6
16	0.9	0.7	0.5	0.5	0.7	0.5	0.4	0.5	1.1	0.5
17	0.5	0.5	1.1	0.6	0.9	0.6	0.3	0.6	0.4	0.5
18	0.8	0.3	1.1	0.5	0.5	1	0.7	0.3	0.5	0.9
19	0.8	0.8	0.9	0.8	0.6	0.9	0.4	0.4	0.8	0.5
20	0.6	0.9	0.5	0.8	0.6	1.1	1.4	0.8	0.6	1.6
21	0.8	0.5	0.5	0.7	0.6	0.8	0.7	1.4	1.2	1.4
22	1.1	0.5	0.3	1	0.5	0.6	0.9	0.5	1.5	0.5
23	0.9	0.6	0.7	0.5	0.5	0.6	0.5	1.3	0.8	1.2
24	0.4	0.5	0.8	0.5	0.5	0.5	0.7	0.5	1.1	1
25	0.7	0.9	0.9	0.4	0.5	0.7	0.6	0.6	0.7	1.1
26	0.8	0.7	0.5	0.5	0.5	1.8	0.7	0.3	0.5	0.7
27	0.5	0.3	0.9	0.6	0.7	0.9	0.5	0.5	0.7	0.5
28	1.3	0.6	0.8	0.6	0.7	0.4	0.4	1.1	0.5	0.4
29	0.3	1	0.4	0.3	0.5	1	0.8	0.6	0.9	0.5
30	0.4	0.8	0.5	0.4	0.4	0.8	0.4	0.5	0.5	0.5
31	0.5	0.8	0.6	0.5	0.7	1.1	1	1.4	0.4	0.7
32	0.7	1.1	0.5	0	0.6	0.5	0.5	0.5	0.5	0.8
33	0.6	0.7	0.8	0.7	1	0.4	0.5	0.7	0.5	0.7
34	0.2	0.8	3	1	0.4	1.3	0.4	0.5	0.6	0.6
35	0.5	0.2	1	0.4	0.7	0.7	1.2	0.4	0.5	0.5
36	0.4	0.4	1	0.4	0.3	1.2	0.3	0.7	0.5	0.9
37	0.4	0.4	0.8	0.7	0.8	0.7	0.5	0.6	0.5	0.8
38	0.4	0.6	0.7	0.9	0.7	0.4	0.4	0.8	0.5	0.5
39	0.5	0.4	0.5	0.4	0.8	0.4	0.5	0.3	0.5	0.7
40	0.4	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.7	0.3
	<i>Navamī</i>					<i>Daśamī</i>				
1	0.5	2	1.8	1.1	1.7	0.5	1	1.2	1.8	0.7
2	1.2	1.4	0.8	0.7	0.9	0.9	1	0.7	1.2	0.5
3	0.4	0.4	0.8	0.5	0.4	0.7	0.8	0.5	0.9	0.9
4	0.7	1.8	2.2	0.5	0.6	1	1.1	1.1	1	1.1
5	0.5	0.5	1.5	0.6	0.4	0.5	1.5	0.7	1	0.4
6	0.6	0.4	0.8	0.8	0.5	0.7	1	0.7	1.3	0.9
7	0.6	0.6	0.4	0.5	0.7	0.6	0.5	0.8	1	0.8
8	0.5	0.6	1	0.9	0.5	0.5	0.5	0.4	1	1.1
9	0.5	0.4	1.3	0.9	0.5	0.6	0.8	1	1.4	1.4
10	1.3	0.5	0.9	0.6	0.5	0.4	0.6	1.1	0.6	1.6
11	0.4	0.6	0.6	0.7	0.5	0.6	1.3	0.9	0.6	0.5
12	0.4	0.5	0.7	0.8	0.9	0.9	1	0.7	1	1.2
13	1.5	0.7	0.5	0.5	0.5	1.4	0.7	0.5	1.1	1.1
14	0.6	0.5	0.5	0.7	0.5	1.5	1.5	0.6	1.2	1.4
15	0.5	0.7	0.7	0.4	0.7	1.2	0.7	0.5	0.8	1.2
16	0.6	1	0.5	0.7	0.7	0.6	1.3	0.8	0.4	0.4
17	1.3	1.1	0.8	1.4	0.6	0.9	0.8	0.6	0.5	0.5
18	1.4	0.9	0.6	0.5	0.6	0.4	0.7	0.4	0.3	0.6
19	0.5	0.4	0.7	0.7	1	0.4	1	1.4	0.4	0.8
20	0.5	0.9	1	0.6	0.4	0.8	0.9	1	0.6	0.5






21	0.5	0.6	0.5	1	0.4	1.2	0.5	1.2	0.6	0.8
22	0.7	0.8	1.4	0.4	0.5	0.7	0.4	0.3	0.6	1.3
23	0.7	0.4	0.7	0.4	0.9	1.1	0.5	0.9	0.4	1.1
24	0.5	0.7	0.6	0.5	0.6	0.7	0.6	0.5	0.4	0.5
25	0	0.5	0.4	0.4	0.4	0.3	0.4	0.5	0.6	0.5
26	0.5	0.4	0.5	0.5	0.6	0.8	0.5	0.5	0.5	0.7
27	0.4	0.4	0.7	1.1	0.7	0.5	0.9	0.5	0.4	0.4
28	0.5	0.8	0.5	0.9	1	0.6	0.5	0.7	0.6	0.5
29	0.9	0.6	0.5	1	0.5	0.7	0.5	0.9	0.9	0.8
30	0.6	0.6	0.6	1	0.5	0.4	0.7	0.5	0.5	1.1
31	0.8	0	0.6	1.1	0.7	0.5	0.5	1.4	0.4	0.9
32	0.5	0.9	0.8	0.7	0.9	0.9	1	0.5	0.7	0.7
33	0.5	1.3	0.5	0.5	0.6	0.3	0.5	0.7	1	0.6
34	0.7	0.5	0.5	1.1	0.4	0	0.8	0.4	0.7	0.5
35	0.5	0.5	0.5	0.5	0.7	1	1	0.4	0.5	0.5
36	0.7	0.6	0.7	0.8	0.7	0.7	0.6	0.6	0.6	0.5
37	0.7	0.8	0.5	1	0.9	0.4	0.5	0.6	0.4	0.9
38	0.5	0.9	0.7	0.7	0.5	0.5	0.5	0.5	0.7	0.4
39	0.9	0.7	0.4	0.5	0.5	0.5	0.8	0.7	0.7	0.9
40	0.7	0.4	0.6	0.6	0.5	0.4	0.5	0.4	0	0.4
	<i>Ekādaśī</i>					<i>Dvādaśī</i>				
1	0.4	0.5	0.6	1.1	1.4	0.7	0.8	0.6	0.6	1.2
2	1	0.7	1.4	1.3	0.5	0.4	0.6	1.2	0.5	0.6
3	0.8	0.6	1.2	0.7	1.3	0.5	0.9	0.5	0.9	0.5
4	0.8	0.5	0.5	0.4	1.8	0.4	0.5	1.4	0.6	0.4
5	0.4	0.7	1	0.4	0.6	0.4	0.8	1.3	0.8	0.8
6	1.3	0.9	1	1	0.8	0.6	1	1.1	1	0.5
7	0.5	0.5	0.5	0.4	0.5	1.6	1.3	0.5	0.5	0.5
8	0.4	0.8	1.2	0.5	0.5	0.8	1.5	1.2	0.7	1.3
9	0.7	1	1.2	0.4	1.2	0.3	1	0.8	0.8	0.4
10	1.3	0.4	1	0.6	1.7	1.2	0.6	1.4	1	0.5
11	0.9	1	1.2	0.4	1.2	0.6	1	0.5	0.7	1
12	0.9	0.4	1	1	1.3	0.5	0.9	1	0.4	1
13	0.6	0.4	1.4	0.5	0.8	0.8	0.7	1.3	0.5	0.6
14	0.7	0.5	1	0.6	0.5	1.3	0.5	1.4	0.6	1.1
15	0.5	1.1	0.7	1.4	0.6	0.7	0.9	0.5	0.4	0.8
16	0.6	2.1	0.7	0.5	0.2	0.7	0.5	0.8	1	0.7
17	0.6	1.3	0.5	0.7	0.7	0.6	0.9	0.7	0.4	0.7
18	0.6	0.4	1	1.1	0.4	0.5	0.4	0.7	0.4	0.6
19	1.2	0.6	1.2	1.4	0.4	0.3	0.8	0.8	0.6	0.9
20	0.8	0.5	1.2	1.1	0.5	1.4	0.5	0.7	0.5	1.1
21	0.4	0.4	0.7	1.3	0.4	1	0.5	0.4	0.8	0.5
22	1.1	0.4	0.7	0.4	0.4	0.5	0.7	0.6	0.5	0.5
23	0.8	1.1	0.5	0.4	0.4	1.3	1.2	0.5	0.9	0.9
24	1.3	0.5	0.9	0.4	0.4	1.1	1.1	0.4	0.5	0.6
25	1	1	0.6	0.4	0.4	0.7	0.6	0.7	0.4	0.5
26	0.5	1.3	0.8	1.1	1.3	0.7	0.8	1.1	0.6	0.5
27	0.7	0.8	0.6	1	1	0.7	1.1	0.5	0.5	0.5






28	0.4	0.7	0.6	2	0.3	1.6	0.6	1.2	0.7	0.4
29	0.7	0.8	0.9	0.4	1.4	0.5	1.6	0.8	0.4	0.4
30	0.4	1	1.1	0.4	1	1.3	0.6	1	0.6	0.5
31	0.8	0.9	0.5	0.7	0.3	0.8	0.7	0.7	0.5	0.5
32	0.9	1.5	0.4	0.6	0.4	0.5	0.7	0.8	0.5	0.7
33	0.5	0.8	0.7	0.5	0.3	0.5	1	1.2	0.6	0.5
34	0.5	1.2	0.5	0.4	0.5	0.4	0.7	0.7	0.5	0.4
35	0.4	1.4	1.1	0.6	0.7	0.4	1.3	0.6	0.8	0.6
36	0.6	0.9	0.8	0.5	0.5	0.3	1.2	1	1.4	0.7
37	0.6	1.2	0.4	1	0.6	0.5	0.7	0.5	0.3	0.5
38	0.7	0.4	0.6	0.4	0.3	0.5	0.5	0.6	0.9	0.6
39	0.4	0.4	0.7	0.3	0.5	0.9	0.6	0.8	1.4	0.4
40	0.4	0.8	1.1	0.4	0.8	0.5	0.8	0.9	0.2	0.8
	<i>Trayodaṣī</i>					<i>Caturadaṣī</i>				
1	1.4	1.4	0.5	0.5	0.4	0.4	1.3	0.7	1.6	0.4
2	1.2	1.5	0.7	0.4	0.4	0.7	1.5	1.2	0.4	0.5
3	1.4	1.1	0.6	0.4	0.6	0.9	1.4	1.6	1	0.4
4	1.9	1.2	0.6	0.4	0.9	0.6	0.3	1.4	0.7	0.6
5	1	1.2	1.3	0.5	0.7	0.9	1.2	0.8	1	0.5
6	0.5	0.8	1.6	1	0.5	0.6	1.5	1.5	1.4	0.6
7	1.1	1	0.7	0.7	0.4	1.6	0.5	0.8	0.8	0.6
8	0.5	1	1.1	0.5	0.8	1.2	1.7	2	0.9	1.2
9	0.6	0.9	1	0.5	0.7	0.5	0.8	0.8	1	0.5
10	1	0.9	1	0.7	0.7	1.6	1.3	1.3	1.1	0.5
11	0.5	0.9	0.7	0.6	0.6	1.4	0.6	0.9	0.5	1.2
12	1.3	0.7	1	0.5	0.7	0.9	0.6	1.2	0.7	0.7
13	1.4	0.5	1	0.5	0.7	1.7	1	0.5	0.6	1.2
14	0.9	0.6	1	0.5	0.5	0.5	0.4	1.4	1	0.5
15	1.9	0.5	0.7	0.7	0.7	0.5	0.5	1.7	0.6	1.1
16	1.5	0.5	0.7	0.4	0.5	1	0.6	0.5	0.7	0.5
17	1.3	0.9	0.4	0.6	0.6	1.5	0.5	1.2	1.2	0.4
18	0.9	0.6	0.5	0.5	0.6	1.4	1.1	0.7	0.6	0.9
19	0.5	0.8	0.6	0	0.6	0.8	0.8	0.4	1	0.8
20	0.9	0.4	0.8	0.9	0.5	1.1	0.5	1.2	0.6	0.8
21	1	0.7	0.6	0.5	0.6	0.7	0.5	1.1	1.3	1.1
22	0.7	0.7	1.1	0.5	1	1.3	0.7	0.5	1	0.6
23	0.8	0.7	1.3	0.5	0.4	1.1	0.4	0.8	0.7	0.5
24	0.4	0.8	0.7	0.6	0.5	0.4	0.5	1	0.8	0.7
25	0.6	0.7	0.9	0.6	0.5	0.7	0.5	1.3	1	0.4
26	0.5	0.6	1	0.8	0.6	0.5	0.8	1.3	0.6	0.5
27	0.5	0.5	0.7	0.6	0.4	1.5	0.5	0.5	1.3	0.3
28	0.4	1	0.7	0.6	0.6	0.7	1	0.5	0.4	0.7
29	0.5	0.6	0.9	0.9	0.5	0.7	0.6	1.1	0.8	0.7
30	0.4	0.7	0.9	0.7	0.4	0.9	1.7	0.6	0.5	0.5
31	0.4	0.8	0.7	0.7	0.5	0.5	0.5	1.1	0.5	0.8
32	0.4	0.9	1.3	0.5	0.5	0.7	0.6	0.8	0.5	0.7
33	0.5	0.7	0.5	0.5	0.8	1.3	0.7	0.5	1.3	0.5
34	0.4	0.5	0.8	1	0.6	1.2	0.6	0.7	0.4	0.5

35	0.4	0.6	1	0.9	0.7	0.6	0.8	0.9	0.5	0.7
36	0.4	0.6	0.8	1.1	0.4	0.6	0.5	0.8	0.8	0.9
37	0.4	0.6	0.9	1.2	0.6	1.3	0.4	1	0.6	0.6
38	0.5	0.5	1	1.6	0.5	1.1	0.7	0.5	0.4	0.7
39	0.5	0.6	0.5	0.9	0.4	0.8	0.5	0.6	0.4	0.6
40	0	0.6	0.7	0.7	0.7	1.3	0.6	0.7	0.9	0.6
<i>Amāvasyā</i>										
1		1.1		1.4		2		0.8		1.5
2		0.8		1.8		0.5		0.5		1.4
3		0.7		1.4		0.8		0.7		1
4		1		1.2		1.3		0.7		1
5		0.5		0.7		1.5		0.5		1
6		0.4		1.1		1.2		1.1		0.8
7		0.8		0.8		1.6		0.5		0.8
8		1.3		1		1.9		1		0.8
9		0.5		0.6		1.9		0.7		1.6
10		0.9		0.6		0.5		1		1.1
11		1.6		0.6		1.1		0.4		1.7
12		1.3		0.4		1.2		0.9		1
13		0.5		1.1		1.1		1.4		1.2
14		1.4		1.5		0.4		1		0.6
15		1.6		0.5		1.1		0.4		0.5
16		1		0.7		1.4		0.3		0.5
17		1.3		0.5		0.9		1		0.9
18		1		0.6		1.2		0.8		0.6
19		0.7		0.9		1.7		0.5		1
20		0.4		0.6		1		0.4		0.5
21		1.3		0.7		1.6		0.8		0.7
22		1		1		0.5		0.3		0.7
23		0.8		0.7		1		0.6		0.8
24		1.5		0.4		0.8		0.4		0.6
25		0.8		0.4		0.5		0.7		1
26		0.9		0.5		0.7		0.9		0.6
27		0.6		1.8		1.2		1.3		0.4
28		1.3		1.5		0.7		1		0.9
29		0.4		2		0.7		1.6		0.7
30		0.6		1.8		0.4		0.8		0.6
31		0.6		1.8		0.7		0.9		0.6
32		0.8		1.9		0.5		0.9		0.9
33		0.6		1.5		0.3		0.5		0.7
34		0.8		2		0.6		0.5		0.6
35		0		2.2		0.4		0.8		0.4
36		0.6		1.2		0.7		0.6		0.5
37		0.7		1.5		0.5		1		0.4
38		0.8		1		0.3		0.4		0.4
39		0.8		1.5		0.6		0.7		0.5
40		0.5		0.7		0.6		0.5		0.5





## APPENDIX 2

**Table 2.1 Laboratory Materials**

SN	Photos	Particular	Size
1		<b>Hot Air Oven</b>	-----
2		<b>Distilled Water</b>	<b>5 liter</b>
3		<b>Magnetic Compass</b>	-----
4		<b>Beaker</b>	<b>50 ml</b>
5		<b>Scale</b>	<b>30 cm</b>

6		<p style="text-align: center;"><b>Hygrometer</b></p>	<p style="text-align: center;">-----</p>
7		<p style="text-align: center;"><b>Scissor</b></p>	<p style="text-align: center;">-----</p>
8		<p style="text-align: center;"><b>Filter Paper</b></p>	<p style="text-align: center;">-----</p>
9		<p style="text-align: center;"><b>Petri Disc</b></p>	<p style="text-align: center;">-----</p>
10		<p style="text-align: center;"><b>Balance</b></p>	<p style="text-align: center;">-----</p>

**Table 2.2 Details of Treatment**

<b>SN.</b>	<b>Picture</b>	<b>Particular</b>	<b>Size</b>	<b>Materials</b>
<b>1</b>	 A small, square-shaped Sri Yantra mandala printed on a golden-colored metal plate. The central design is a complex geometric pattern of interlocking triangles and squares, surrounded by a square border with four T-shaped gates. The text 'श्री यन्त्रम्' is written in Devanagari script at the top and bottom of the plate.	<i>Pañca Loha Small Śrīyantra</i>	15cm×15cm	<i>Pañca Loha</i>
<b>2</b>	 A larger, square-shaped Sri Yantra mandala printed on a golden-colored metal plate. It features the same complex geometric design as the small version but is scaled up. The text 'श्री यन्त्रम्' is visible at the top and bottom.	<i>Pañca Loha Big Śrīyantra</i>	23cm×23cm	<i>Pañca Loha</i>
<b>3</b>	 A small, square-shaped Sri Yantra mandala printed on a dark green or black paper. The design is a simplified version of the Sri Yantra, with a central diamond shape and surrounding geometric patterns. The text 'श्री यन्त्रम्' is faintly visible at the top and bottom.	<b>Paper Small Śrīyantra</b>	15cm×15cm	<b>Paper</b>
<b>4</b>	 A larger, square-shaped Sri Yantra mandala printed on a dark green or black paper. It is a scaled-up version of the small paper mandala, showing the same geometric design and text 'श्री यन्त्रम्'.	<b>Paper Big Śrīyantra</b>	23cm×23cm	<b>Paper</b>