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The Science of Sandhyavandana: Unlocking the Body's Divine Potential

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A Comprehensive Guide to Sandhyavandana and the Gayatri Mantra

Sandhyavandana is a profound and multifaceted daily ritual, deeply embedded in the spiritual discipline of Hindus. Far more than a simple act of prayer, it is a scientifically and philosophically grounded practice designed for holistic human development. This detailed exposition delves into the core components of Sandhyavandana, exploring its physical, mental, and spiritual benefits. We will uncover the symbolic significance of rituals like **Āchamana** and **Ūrdhva Puṇḍra**, and examine their connection to the body's energy centers, or **Chakras**.

A central element of this practice is the **Gayatri Mantra**, a hymn of immense power and antiquity.² This article provides an exhaustive analysis of the mantra, including its structure, meaning, and various forms of recitation, from the simple $Ek\bar{o}mk\bar{a}ra$ to the complex $Sad\bar{o}mk\bar{a}ra$. It also synthesizes the wisdom of ancient scriptures and sages—such as **Lord Krishna** and **Patanjali**—with modern scientific findings on its vibrational efficacy. By exploring the profound connection between the mantra, the body's 72,000 $N\bar{a}dis$, and the divine forms of the **Dashavatara**, this guide aims to illuminate the transformative potential of Gayatri for both spiritual seekers and those interested in its historical and cultural significance.

Sandhyavandana is a daily ritual performed by Hindus who have undergone the *Upanayana* (sacred thread ceremony). Its primary purpose is to express gratitude to the Sun, who illuminates the entire world, by offering prayers during the three critical junctures of the day: sunrise, noon, and sunset.

Benefits and Significance of Sandhyavandana

Performing **Sandhyavandana** is believed to bring peace and tranquility to the mind. From a health perspective, the practice of **Prāṇāyāma** (breathing exercises) purifies the mind, sharpens the intellect, and increases longevity. The secret to the long lives of ancient sages lies in their mastery of Prāṇāyāma. Similarly, **Sūrya Namaskāra** (sun salutations) provides exercise for all parts of the body, and the sun's rays impart essential vitamins. Furthermore, Sandhyavandana serves as the first step towards instilling discipline in one's life.

Sandhyavandana offers two types of purification:

- 1. **Inner purification** from sins that have corrupted the conscience through rituals like *Āchamana* and *Āpaḥ Prāśana*.
- 2. **The manifestation of the divine** within the mind and the physical body's organs.

The practice of **Ūrdhva Puṇḍra** (vertical sectarian mark) described in Sandhyavandana is a tool for inner purity. To understand its significance, a preliminary discussion of the body's **Chakras** and **Kundalini** is necessary.

The Three Bodies and Six Chakras

Humans possess three bodies: the Sthūla (gross), the Sūkṣma (subtle), and the Kāraṇa (causal). The visible body is the Sthūla Sharira. Connecting the gross and subtle bodies

Correspondence: Dr. K. Giridhar Acharya 98/15, 3rd cross, 6th Main, 4th Block T R Nagar, Bengaluru - 560028 are six power centers along the spine, known as **Chakras**. These are: **Mūlādhāra**, **Maṇipūra**, **Anāhata**, **Viśuddhi**, **Ājñā**, and **Sahasrāra**.

The locations of these six Chakras are:

- 1. **Mūlādhāra** Near the reproductive organs.
- 2. **Maṇipūra** Behind the navel, near the spine.
- 3. **Anāhata** Behind the heart, near the spine.
- 4. Viśuddhi Behind the throat pit, near the spine.
- $5.\bar{\mathbf{A}}\mathbf{j}\tilde{\mathbf{n}}\bar{\mathbf{a}}$ Inside the brain, directly behind the space between the evebrows.
- 6. Sahasrāra Approximately 12 inches above the head.

The subtle body contains 72,000 *Nāḍis* (energy channels, not to be confused with medical veins). Of these, three are most important: **Iḍā**, **Piṅgaļā**, **and Suṣumnā**. The Iḍā *Nāḍi* starts from the left nostril, goes through the Ājñā Chakra, descends to the Mūlādhāra Chakra, and ascends back to the Sahasrāra.

The body also has five main vital airs: **Prāṇa**, **Apāna**, **Vyāna**, **Udāna**, **and Samāna**, with Prāṇa and Apāna being the most crucial. Prāṇa moves upwards, controlling the body, while Apāna moves downwards, essential for the elimination of waste, such as urine, feces, and menstrual flow. For spiritual progress, both Prāṇa and Apāna must enter the Suṣumnā *Nāḍi* and move upwards. As spiritual progress is made through devotion and chanting mantras, the upward movement of Prāṇa and Apāna increases, reducing the Apāna energy needed for bodily elimination.

Humans are often prone to downward tendencies, succumbing to Rajasic and Tamasic emotions that lead to failure. The practice of wearing an **Ūrdhva Puṇḍra** aids in reversing this, promoting an upward, spiritual ascent. The visible **Ūrdhva Puṇḍra** is a symbol of the inner journey of energy. It signifies the awakening of the **Kundalini** Shakti at the Mūlādhāra Chakra and its ascent to the Sahasrāra.

The markings of the Ūrdhva Puṇḍra symbolize different stages and aspects of this spiritual journey:

- 1. The mark at the base of the spine symbolizes the awakening of the Kundalini.
- 2. The three marks near the navel represent the I $d\bar{a}$, Pi $ngal\bar{a}$, and Susumn \bar{a} $N\bar{a}dis$.
- 3. The lotus-like mark on the chest represents the blooming of the Anāhata Chakra.
- 4. The marks on the four sides of the throat symbolize the journey from the Anāhata to the Viśuddhi Chakra.
- 5. The marks on the upper arms are to direct the constant flow of life energy through the palms upwards.
- 6. The mark on the forehead symbolizes the movement of energy from the Ājñā to the Sahasrāra Chakra.
- 7. The two marks near the breasts symbolize the Śrīvatsa and *Kaustubha* (divine symbols of Lord Vishnu).

These markings are aids for continuous spiritual awareness and do not, by themselves, produce miracles.

Prāṇāyāma

Yoga gives a special place to **Prāṇāyāma** and suggests practicing it four times a day. The scripture states:

Prātarmadhyandine Sāyam ardhārātre cha kumbhakānı Śanairaśīti paryantam chaturvāram samabhyasetu

This means one should gradually perform up to eighty cycles of Prāṇāyāma, which consists of *Rechaka* (exhalation), $P\bar{u}raka$ (inhalation), and *Kumbhaka* (retention), at dawn, noon, dusk, and midnight. However, in Sandhyavandana, it is done three times a day, primarily for internal purification.

Prāṇāyāmaireva sakalam paśuṣyanti malāḥ II

Just as gold and other metals are purified by fire, the mind and senses, tainted by various sins, are purified by Prāṇāyāma. It also helps in concentrating the mind. More details about Prāṇāyāma can be found in the **Aṣṭāṅga Yoga** texts.

The method of performing Prāṇāyāma in Sandhyavandana is as follows: A **Brahmachari** uses the little, ring, and thumb fingers of the right hand, while a **Grihastha** (householder) or **Vanaprastha** (forest dweller) uses all five fingers to hold the nostrils.

- 1. Exhale the air from the stomach through the right nostril (**Rechaka**).
- 2. Inhale air into the stomach through the left nostril (**Pūraka**).
- 3. Hold the breath by closing both nostrils with the fingers (**Kumbhaka**). In this state of Kumbhaka, one should concentrate and chant the **Gayatri Mantra** along with the seven *Vyāhṛtis* and the *Shiromantra*.

This should be done three, twelve, or twenty-four times. The ratio of Pūraka, Kumbhaka, and Rechaka is **16:64:32**. A short syllable is considered one *Mātrā* (unit of time). If Om is chanted as a long syllable, the *Daśa Praṇava Gayatri* (Gayatri with ten Oms) correctly amounts to 64 Mātrās, which helps in determining the duration of Pūraka and Rechaka.

The Dashapranava Gayatri Mantra

The Daśa Praṇava Gāyatrī consists of ten Omkāras:

"Om Bhūḥ п Om Bhuvaḥ п Om Svaḥ п Om Mahaḥ п Om Janaḥ п Om Tapaḥ п Om Satyaṁ п"

(These are the seven Vyāhṛtis with Om, making seven Oms).

"Om Tat Saviturvarenyam ı Bhargo Devasya Dhīmahi ı Dhiyo Yo Nah Pracodayāt ıı"

(This is the Gayatri itself, with one Om).

"Om Āpō Jyotīrasomṛtam Brahma Bhūrbhuvaḥ Svarom "

(This is the Gayatri Śiras (head), with two Oms).

Totaling ten Omkāras, this chant allows the retained air, infused with the power of the mantra, to circulate through the body via the bloodstream, purifying it of its

imperfections. The recitation during Prāṇāyāma should be done with a full understanding of the mantra's meaning. The breath is to be held within the Suṣumnā Nāḍi, which requires the awakening of the Kundalini. This allows the mantra-infused air to pervade every cell of the body, transforming the practitioner into a being of mantra. This practice helps to redirect the mind, which is normally drawn to worldly affairs by ignorance, towards the divine.

Thus, as Shri Krishna states in the **Bhagavata**: "**Prāṇāyāmaḥ paraṁ balaṁ**" (Prāṇāyāma is the supreme strength).

Patanjali Maharshi's view: By gaining mastery over Prāṇāyāma, a person gradually detaches from the external world and eventually moves towards the all-pervasive supreme reality. The "divine fire" or "divine light" within the practitioner shines forth with great splendor, elevating the mind to the states of Dhāraṇā (concentration) and Dhyāna (meditation). However, reaching this stage can take many years.

Mantras: A Deeper Inquiry

A common question arises: "Since the language of *Sandhyavandana* and other rituals is Sanskrit, which is difficult to learn, why can't we pray to God in a language we understand? Doesn't God, being omnipresent and knowing all languages, accept our prayers regardless of the language?"

The answer becomes clear when we understand the following:

The daily Vedic duty of Sandhyavandana, initiated at *Upanayana*, must be performed until one's last breath. A person who neglects Sandhyavandana is considered a *Karmabhraṣṭa* (one who has fallen from their duties) and becomes unworthy of all other Vedic rituals. The merits of any other virtuous deed performed by such a person are not received. Deities will not accept their worship, nor will ancestors accept their *Piṇḍa* and *Tarpaṇa* (offerings).

The Vedas, a repository of infinite knowledge, were revealed through the breath of Bhagavan and exist solely in Sanskrit, not in any other language. The Vedas, along with their components (Saṃhitā, Brāhmaṇa, Āraṇyaka, Upaniṣad) and auxiliary disciplines (Vedāṅgas like Śikṣā, Vyākaraṇa, Chhandas, Nirukta, Jyotiṣya, and Kalpa), form a complete body of knowledge.

Mantras are the very body of the deities.

As the verse states:

Chhandaḥ pādautu Vedasya hastau kalpo'tha paṭhyate I Jyotiṣāmayanaṁ chakṣuḥ niruktaṁ śrotramēva cha II Śikṣā ghrāṇantu Vedasya mukhaṁ vyākaraṇaṁ smṛtaṁI Tasmātsāṅgamēdhītyaiva Brahmalokē mahīyate II

This describes the various parts of the Veda as limbs: *Chhandas* are its feet, *Kalpa* its hands, *Jyotisha* its eyes, *Nirukta* its ears, *Śikṣā* its nose, and *Vyākaraṇa* its mouth. Therefore, one who studies the Vedas with all its parts is glorified in the world of Brahma.

Since Sandhyavandana and other rituals are Vedic duties, they must be performed in Sanskrit as prescribed. Other languages are not born from the breath of Bhagavan. Performing these Vedic duties in another language would be like an eye specialist performing heart surgery. Therefore, it is a duty to learn and perform the rites in Sanskrit, even if one reads the mantras in a different script. Just as a king will not forgive a subject who breaks the law on the pretext of ignorance, so too a person with the right to perform Sandhyavandana who neglects it will not be freed from sin, regardless of any other virtuous deeds performed.

Sandhyopāstim vinā vipraḥ puṇyānyanyāni chācharet | Yasya syuḥ tāni pāpāni bhavatyeva na samśayaḥ || Yō'natra kuruta yatnam dharmakārye dvijōttamaḥ | Vihāya sandhyāpraṇatim sa yāti narakāyutam ||

A *DVIJA* (twice-born) who omits Sandhyavandana and performs other virtuous deeds will surely incur sin. A DVIJA who neglects Sandhyavandana to perform other righteous acts goes to hell for ten thousand years.

The Power of Sandhyavandana

Daily Sandhyavandana removes restlessness and increases concentration. It fosters unwavering faith, trust, love, and devotion towards the divine, making an individual worthy of spiritual progress. It awakens inner intuition, inspiring one to walk the righteous path at every moment of life. The purification of the conscience removes ignorance accumulated over lifetimes, leading to a refined character. The individual's radiance and spiritual aura increase. Their speech becomes gentle, humble, and truthful. The mind is filled with good intentions, noble thoughts, and virtuous qualities. Willpower is strengthened. Qualities like peace, contentment, forgiveness, compassion, and love take root in the heart.

The root of human flaws is ego, the "I" consciousness. Spiritual progress is impossible with ego. Sandhyavandana helps to eliminate this ego, prompting one towards spiritual discipline. The morning Sandhyavandana destroys the sins committed during the night. The noon Sandhyavandana absolves sins from morning to noon. The evening Sandhyavandana purifies sins from noon to evening. Thus, a person who performs daily Sandhyavandana is freed from all sins.

Sandhyavandana also maintains physical health. The Prāṇāyāma performed during the ritual has the power to cure many diseases. In the **Viṣṇu Purāṇa**, the sage Aurva tells King Sagara:

Hē Sagara Rāja, a wise person performs morning and evening Sandhyavandana daily without fail and is freed from sins. Those who sleep or engage in other activities during the hours of twilight must perform penance. Therefore, O King, one must perform morning and evening Sandhyavandana without fail, as it leads to continuous progress and prosperity.

(Viṣṇu Purāṇa, Tritīya Amśa - 11-102,103).

Thus, Sandhyavandana is a daily, obligatory duty, and it is our responsibility to perform it without fail.

The Ritual of Achamana

One should sit in a clean place, facing east or north. With the right hand placed between the knees, one should perform \bar{A} chamana with pure, cool water, without making a sound or looking around.

The right hand of a Brahmin has five sacred spots (Tirthas):

- 1. **Deva Tīrtha** (at the base of the fingers)
- 2. Pitr Tīrtha (between the thumb and forefinger)
- 3. **Brahma Tīrtha** (at the base of the thumb)
- 4. **Prājāpatya Tīrtha** (at the base of the little finger)
- 5. Saumya Tīrtha (in the palm)

Anguşthamülöttarato yeyam rekhā mahīpate i

Brāhmam tīrtham vadantyētat Vasiṣṭhādyā dvijōttam II

Kāyam kaniṣṭhikāmūlē aṅgulyagrētu daivatam ı

Karamadhyē sthitamSaumyam praśastam dēvatakarmanin

This verse explains the locations of these Tirthas. Offerings to deities are made from the Deva Tīrtha, offerings to ancestors from the Pitṛ Tīrtha, and Āchamana is done from the Brahma Tīrtha. The Prājāpatya Tīrtha is used for rituals like *Lājahoma* during marriage, and the Saumya Tīrtha for specific rites like holding a water pot.

By performing Āchamana three times with cupped, joined fingers and without making a sound, the deities are pleased. The first Āchamana pleases the **Rigveda**, the second the **Yajurveda**, and the third the **Samaveda**. Wiping the lips pleases the *Itihāsas* and *Purāṇas*, while touching the eyes and shoulders pleases the directional deities and gods like Yama, Kubera, Indra, and Varuṇa. One should touch the eyes with the thumb and index finger, the nose with the thumb and ring finger, the ears with the thumb and little finger, the shoulders with the fingers, the navel with the thumb, and the head with all the fingers. A Brahmin should sip just enough water to reach the heart, a Kshatriya to the throat, and a Vaishya is purified merely by sipping water.

The position of the sacred thread (*Yajñopavīta*) also has significance. When it is under the right arm and over the left shoulder, it is called **Upavītī**. The reverse is called **Prāchīnā-vītī**. When worn like a garland around the neck, it is called **Nīvītī**. A broken sacred thread, along with the *Mekhalā* (waist cord) and staff, should be cast into the water. The lines on a Brahmin's hand are as sacred as rivers, and the joints of the fingers are considered divine. Thus, the right hand is considered to be filled with all deities. Performing Āchamana in the prescribed manner is said to lead to heaven.

Yāstvetā karamadhyē tu rekhā viprasya Bhārata I Gaṅgādyāḥ saritaḥ sarvāḥ jñeyā Bhāratasattama I Yānyaṅgulīṣupārvāṇi girayastāni viddhi me I Sarvadevamayo rājan karō viprasya dakṣiṇaḥ II

This verse from the **Mahābhārata** states that the lines in a Brahmin's palm are the sacred rivers like the Ganga, the joints of the fingers are mountains, and the right hand is filled with all the deities.

The Gayatri Mantra

The **Gayatri** is the very foundation of Brahminhood. When the foundation is neglected, the entire structure built upon it is bound to collapse. This is why many Brahmin youth today have fallen from their spiritual path—they have relegated the all-important Gayatri to a corner. There is a pressing need to bring the Gayatri back to the forefront, and it is the duty of the youth to recognize this. Fortunately, through the guidance of many wise scholars, this is beginning to happen.

The Upanishads beautifully describe the glory of the Gayatri. Chanting the Gayatri is like an offering of food to the deities. Just as food brings us satisfaction, the Gayatri Japa pleases the divine. If the divine is pleased, we are powerful, no matter where we are. If the divine is displeased, we are weak, even if they are by our side.

The phrase "Gāyantam trāyate yasmāt Gāyatrī tvam tatasmṛtaḥ" means, "Because it protects those who chant it, it is known as Gayatri." The mantra unfailingly protects those who chant it continuously. The modern youth's apathy towards Gayatri, despite their vulnerability and struggles, is truly a matter of shame.

Another prevailing issue is the attitude of "take what you see, eat what you see, and experience what you see." This is a major vice, along with the mentality of "I want the fruits of *Dharma* but I will not perform it." Both are extremely detrimental and dangerous. Sin is accumulated by begging for what one sees, by eating what one sees, and by experiencing what one sees. With sin, one's desires are rarely fulfilled, and if they are, they are difficult to enjoy. The easiest way to remove sin is through Gayatri.

Shri Madhvāchārya said: "Samhartā sarvadōṣāṇām agnisthaḥ sarvadāhakaḥ" (It is the destroyer of all faults, like fire that burns everything). The Gayatri is the only Brahmāstra (divine weapon) that can incinerate all obstacles to a person's progress, such as faults related to ancestors, mother, planets, spirits, women, family deity, serpents, Brahmins, noble people, deities, and gurus, as well as the sin of Brahmahatya (killing a Brahmin). It is up to us to follow this teaching. Those who have followed it have been honored, happy, and prosperous in this world.

Na gṛḥṇanti surāḥ pūjam pitaraḥ piṇḍa tarpaṇamı Svechchayā cha dvijāstesva tri-sandhyā rahitasyachan

A *DVIJA* who willfully neglects the three *Sandhyās* will find that their worship is not accepted by the deities, and their offerings of *Piṇḍa* and *Tarpaṇa* are not accepted by the ancestors. A Brahmin who performs Sandhyavandana during all three *Sandhyās* for as long as they live becomes as effulgent and ascetic as the sun. Such a person is considered a *Jīvanmukta* (liberated soul). The ground touched by their feet becomes sacred, and holy waters are purified by their touch. Sins flee in fear, just as snakes flee from Garuda.

Viṣṇu mantra vihīnaścha tri-sandhyā rahito dvijaḥ ı Ekādaśī vihīnaścha viṣa hīnō yāto ragaḥ ıı

A DVIJA who does not chant the Vishnu mantra, who does not perform the three Sandhyas, and who does not observe the **Ekādaśī** fast is like a snake without venom—they achieve nothing.

The efficacy of Gayatri chanting is also quantified:

- Chanting once: removes sins of the day.
- Chanting 10 times: removes sins of day and night.
- Chanting 100 times: removes a month's worth of sins.
- Chanting 1,000 times: removes a year's worth of sins.
- Chanting 100,000 times: removes a lifetime's worth of sins.
- Chanting 1,000,000 times: removes sins of three lifetimes.
- Chanting 10,000,000 times: removes sins of all lifetimes.
- Chanting ten hundred thousand times more leads to liberation.

The Role of Water in Sandhyavandana

We perform Sandhyavandana daily, but often without understanding its purpose or significance, reducing it to a mere ritualistic chore. Here, we will focus specifically on the use of water for sprinkling $(Pr\bar{o}k\bar{s}an\bar{t}ya)$.

The sage **Sindhudvīpa**, also known as **Triśirāstvāṣṭra**, atoned for the sin of Brahmahatya after Indra killed his priest, Viśvarūpāchārya, by chanting mantras related to water. Water, air, and fire are essential for human life. An excess or a deficiency of any of these can cause turmoil. Every living creature longs for water. The **Rigveda's** tenth *Maṇḍala*, ninth *Sūkta*, is a hymn dedicated to water. The seer of this hymn is the Rishi Sindhudvīpa, and the water is addressed as **Āpaḥ**, referring to the water deities. This hymn is recited at least once by those who perform Sandhyavandana daily.

The **Rgvidhāna** and **Bṛhaddēvatā** state that chanting this $S\bar{u}kta$ for twelve years while standing waist-deep in a river or lake removes the sin of Brahmahatya. Even today, there is a custom of touching water and reciting the verse, "**Gaṅge cha Yamune chaiva...**" (Ganges and Yamuna...). The verse:

Prātarutthāya satatam kuryānmārjanamātmanah I Rātrau kṛtasya pāpasya avijñātasya niṣkṛtiḥ II

This means that by sprinkling water on oneself after waking up and bathing, one can atone for any sins committed unknowingly during the night. Similarly, sprinkling water after bathing in the evening helps atone for sins committed during the day. On a subtle level, when pure water touches the body, it is believed to wash away disease-causing germs and microorganisms.

The hymn "Āpō hi ṣṭhā mayōbhuvasthā na ūrje dadhātana | Mahē raṇāya chakṣase || addresses the water deities. Āpaḥ means to spread out, which is the nature of water. It is said that pure water can cure diseases, and even

though some diseases are caused by it, they can also be cured by it. Āpaḥ bestows happiness and prosperity. This verse prays to the water deities to grant health, happiness, prosperity, abundant food, and peace.

The next verse, "Yō vaḥ śivatamō rasastasya bhājayateha naḥ | Uśatīrīva mātaraḥ || " (Give us of your most blissful essence, like loving mothers). The comparison to a mother who desires the well-being of her child is very profound. Just as a mother gives her all to her child, the water deities are asked to provide their pure and tasteful water, which nourishes us like a mother's milk, granting health and longevity.

The third verse, "Tasmā aram gamāma vō yasya kṣayāya jinvatha | Āpō janayathā cha naḥ || " (To this end we come to you, for whose home you quicken; O Waters, give birth to us). This verse is a plea to the water deities to quickly forgive the sins we have committed and to grant us wealth, sons, and grandsons.

Finally, the verse "Śaṁ nō devīrabhiṣṭaya āpō bhavantu pītaye | Śaṁ yōrabhi sravantu naḥ ||" (May the divine waters be for our well-being and for our drink; may they flow to us for peace and security). This hymn expresses a desire for water that is pure and free from contamination, serving as a preventative against diseases. The importance of water for digestion is also highlighted, and the hymn's essence is a prayer for safe drinking water, a timeless necessity.

Conclusion

The preceding exploration of **Sandhyavandana** and the **Gayatri Mantra** reveals that this ancient practice is far more than a mere religious ritual. It is a sophisticated, holistic discipline that integrates spiritual devotion, physical well-being, and cosmic understanding. The mantra's profound structure, its meticulous connection to the body's **Nadis**, and its role as a spiritual "Brahmastra" to cleanse all forms of sin underscore its central importance.

The wisdom of sages and scriptures, from the **Bhagavad Gita** to the **Patanjali Sutras**, converges on the idea that this practice is a potent vehicle for inner transformation. It is a path that strengthens willpower, purifies the conscience, and fosters an unwavering connection with the divine. By embracing Sandhyavandana, an individual not only honors a timeless tradition but also embarks on a journey of self-discovery and spiritual progress, cultivating qualities that lead to a life of peace, prosperity, and profound purpose.