

वर्ग: विज्ञान  
 को. सं.  
 के. वि.  
 संज्ञा: प्रश्न - प्रतिक्रिया पर प्रश्न  
 उत्तर में लिखें।  
 1. अणु का जीवन और उसका विकास  
 = है कि वह पृथ्वी का माता  
 क संज्ञिका है, जो मानव  
 2. अणु की परिभाषा की जा  
 (in the microcosm  
 और परमाणु का  
 का जो बड़ा जगत्  
 विश्व प्रकृति की दृ  
 3. है, 'अणु' यही है

**SCIENTIFIC ANALYSIS OF GAYATRI MANTRA**

**OM, BHUH, BHUVAH, SWAH, TAT SERVITUR VARENYAM,  
 BHARGO DEVASYA DHEEMAHIDHIO YO NAH PRACHODAYAT**

**1. THE GREAT IMPORTANCE**

VED MATA

1.1 Gayatri Mantra has been bestowed the greatest importance in Vedic Dharma. This mantra has also been termed as SAVITRI and VED-MATA, the mother of Vedas. Lord Krishna in Gita (Refer 10/35) has stated "**Chhandasaamham.**" Gayatri" (out of all the 'Chhandas', **I am the Gayatri**). Having imparted so great an importance, to this mantra, let us therefore examine from scientific angle, **what are the underlying facts declaring this mantra as the mother of Vedas.**

LORD SAID

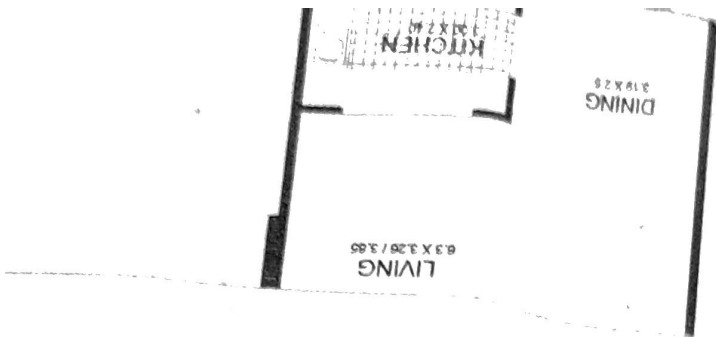
1.2 Lord Krishna in Gita chapter 7 mantra no. 16-17 has stated **chaturvidha bhajante mam janah sukritinoarjun-arto jigyasurtharathi jyani cha bharatarshabh'7/16 and Tesham Jyani Nityayukta Ekbhaktirvishyate- Priyo hi jyaninoityarthamaham sah Cha mam Priyah - 7/17.**

SCIENTIST  
 PREFERRED

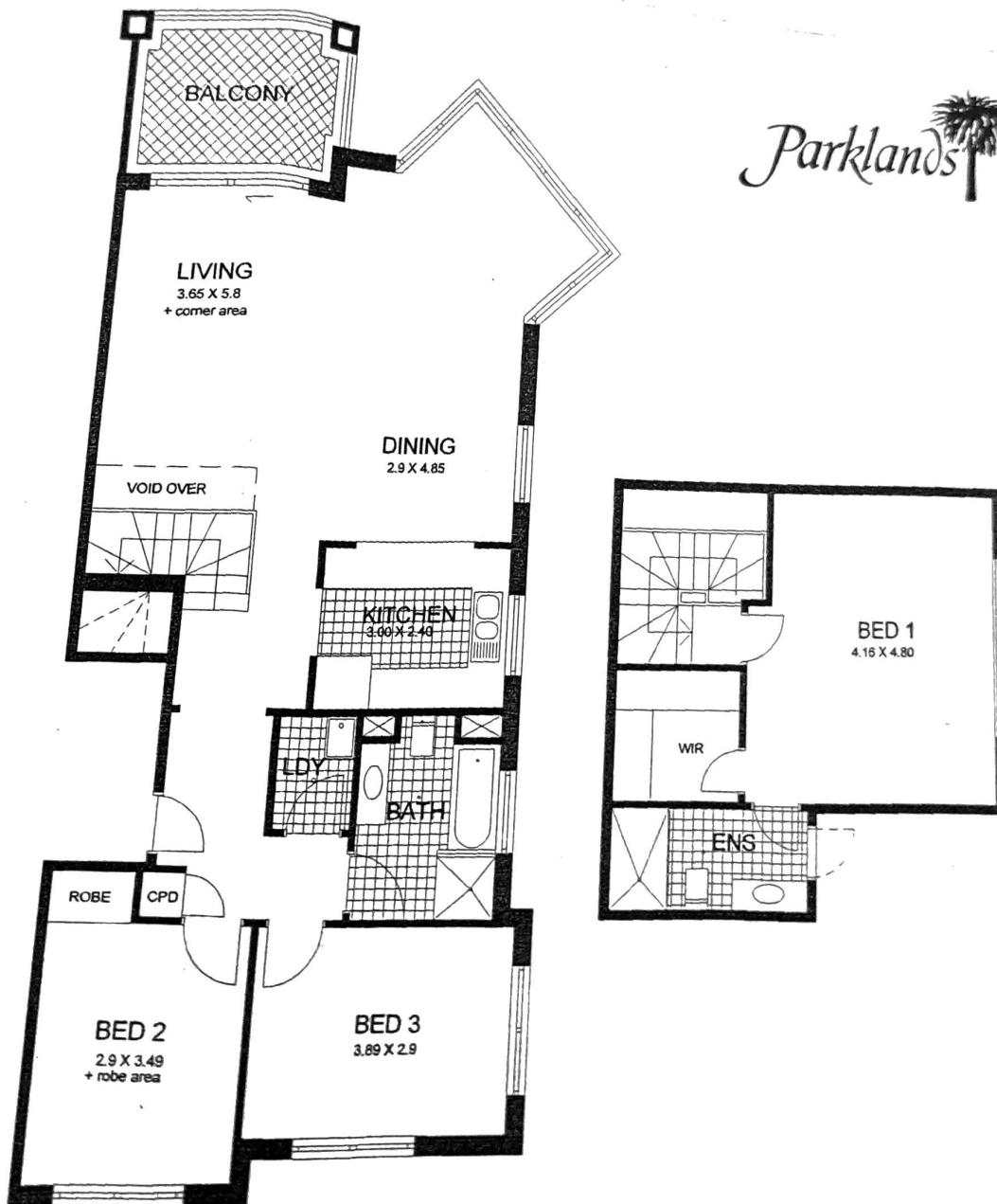
1.3 That there are four types of devotees and the devotee, who loves him with full devotion and is well-versed in scriptures plus he knows the basics or derivatives of the scriptures i.e. the devotee, who is **Tatva Jyani Bhakta is loved by the Lord, the most.** This means the **Scientist is preferred by Him, because he never gets astrayed.** Similarly in Ramcharitmanas also, Lord Raam has stated the same thing, that out of all the devotees, **He prefers the Vijyani (Scientist) most In kathopnishad also** vide section III/5-9, similar statement has been asserted. Having such an authoritative support of scriptures, I venture to differ with the meaning of Gayatri Mantra commonly known to us through tradition.

SCIENCE  
 MEAN

**VIJYAN (SCIENCE) means the DATA or INFORMATION, which can be verified (analysed) by any body and any where in the world. and should agree with each other.**



Parklands 



2. BRIEF HISTORY FROM MAHABHARAT WAR UPTO BRITISH PERIOD

5000 YRS

2.1 Before we proceed to assess the difference in traditional interpretation and the scientific meaning of Gayatri mantra, let us go back to the history of India since Mahabharat War approximately over 5000 years before.

MASS-DEST  
N-WAR  
INVADERS  
RULERS  
DARA

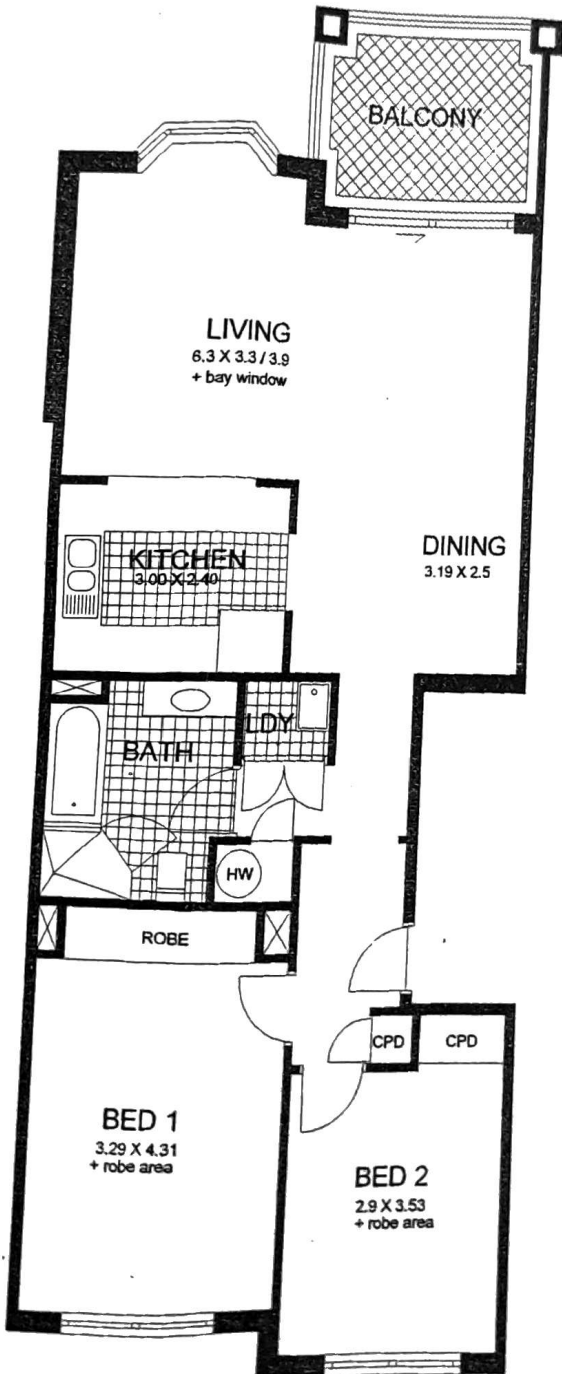
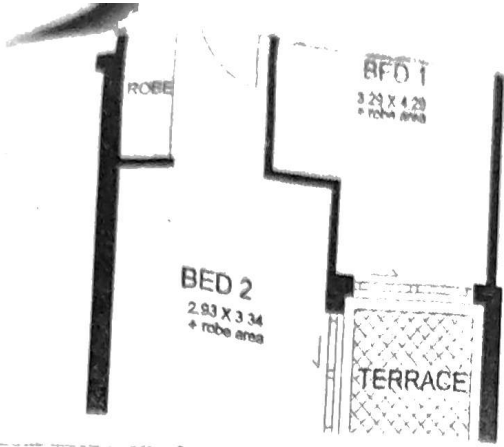
2.2 In fact Mahabharat war, being a nuclear war, destroyed not only our warriors alone, but also the intelligentsia. Therefore, in true sense, we are the sons and daughters of the mentally and physically paralytic people, who survived after the war. For about two thousand years or so, there was a dark period. Then came the era of invaders, Shaka, Huna Muslims and finally Britishers. During all this period the **intelligensia was slain and scriptures were burnt**. Even Bhudhists and jainis did the same thing. There are evidences to show, that there has been planned efforts to manipulate and pollute the original records even by Akbar the Great, who it is reported, got Allopnishad written from Pandits under duress. Thanks to Dara Shikoh, the elder brother of AURANGZEB, who did a great service to Hinduism. He got the Upnishads translated in Arabic. From Arab, these Upnishads reached to other European countries.

2nd HAND  
RECORD

2.3 Obviously, therefore, **the record available to us is a second hand literature re-written by lower grade pandits, through their memory, who survived after repeated on-slaught by invaders and muslim rulers**. This explains why and how the meaning and great **IMPORTANCE OF THE GREAT MANTRA HAS BEEN LOST** This happened naturally due to the loss of great Pandits i.e. **the Scientist-Pandits**. Let me now discuss the present meaning of the Mantra commonly known to us

3. PRESENT DAY MEANING OF GAYATRI MANTRA

3.1 In different books, the meaning given varies. The common meaning given can be summed up as under:



Parklands 



POPULAR  
MEANING

3.2 O God! You are Omni-present, Omni-potent and Almighty. You are all Light You are all knowledge and Bliss You are destroyer of fear. you are Creator of this Universe , you are the Greatest of all. We bow and meditate upon your light You guide our intellect in the right direction

OTHER  
SAY  
ADJECTIVES

3.3 Some people have defined the words "Bhuh Bhuvah Swah" as **body, mind and Chitt and some have interpreted these as Lokas**, but no body seems to be clear, what they say and what they mean. Those who know Sanskrit would easily understand, that there are hardly any words in the mantra to mean the above **heavily loaded adjectives qualifying the qualities of God included in the above meaning.**

COMMON  
PRAYER  
WHY GREAT?

3.4 In fact, the later date Pandits have **converted this mantra as a prayer mantra, whereas it is really a great research mantra**, which The Rishi Vishwamitra gave us. Had this been given the meaning of the mantra by the Rishi vishwamitra, then what is the difference left between hundreds of prayers written in the Vedas and other scriptures and this Gayatri mantra. **Why then the top-most rank given to this mantra**, as discussed at para 1. above. There are even better prayers than the above. So obviously, there is a grave mistake somewhere in the interpretation now brought to us down through tradition.

#### 4. HOW A MANTRA IS FORMULATED.

VERSE  
MINI-WORDS

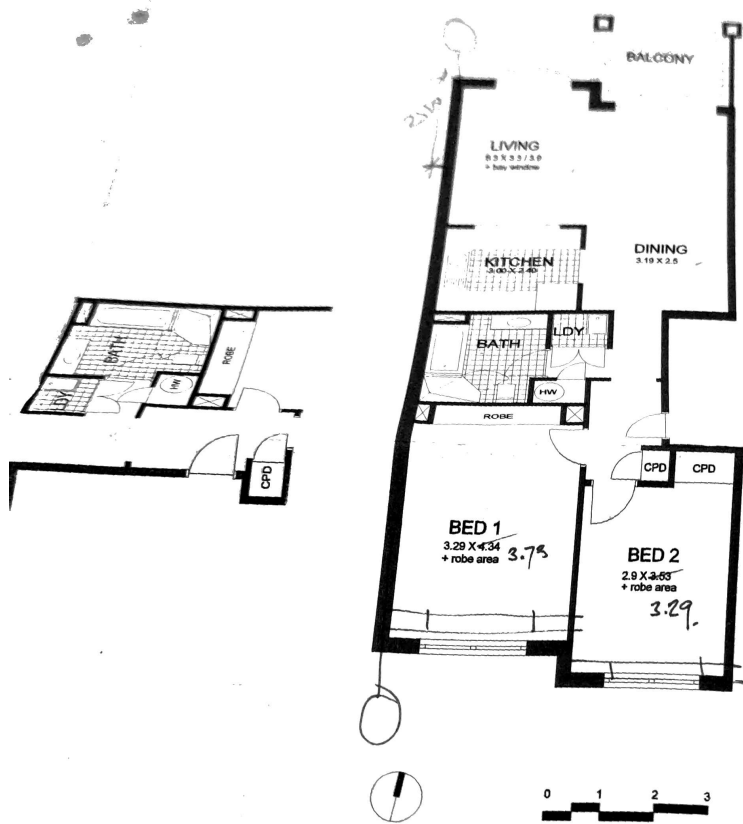
4.1 Let me now throw some light briefly on the main points guiding the formulation of any mantra.

RYTHM  
METRE

4.2 A mantra should normally be a verse without verb as it is not a prose . It should carry in its bosom *the maximum meaning within the least word used. It should have a rhythm and metre etc.*

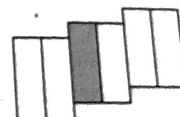
#### 5. SCIENTIFIC BACKGROUND OF THE MANTRA

5.1/Before I discuss the scientific meaning of Gayatri mantra, let me first tell you, what the modern astrophysics and astronomy tells us about the cosmos.



UNIT 12

SECOND FLOOR PLAN  
9 WILLIAMS PARADE  
DULWICH HILL



STARS  
375 CR  
GALAXIES  
10 CR

ALL MOVING  
SOLAR  
FAMILY  
25CR YEARS  
ALL OTHER

20000 M/SEC

NAME OM

UPADHI

5.2 There is our galaxy called milky way or Akash-Ganga. It contains approximately 375 Crores of stars. Each star is like our sun. Some stars are even bigger, than our sun say, upto 5000 times. Each star is supposed to have family like our sun. There are very roughly 10 crores of galaxies like our galaxy. Many of them are much bigger than our galaxy. We may call our galaxy as our universe and total galaxies put together may be called as cosmos.

5.3 We know, that the moon moves round the earth and earth moves round our sun alongwith the moon. All planets move round the sun. Each of the above bodies revolve at their own axis as well. Our sun along with its family takes one round of the galactic centre in 25 crores of years. **Ours and all other galaxies are moving away at a terrific velocity of 20,000 miles per second.**

## 6. SCIENTIFIC MEANING OF GAYATRI MANTRA:-

6.1 Let me now discuss the scientific meaning of the mantra step by step.

(A) **Om Bhuh Bhuvah Swah:-**

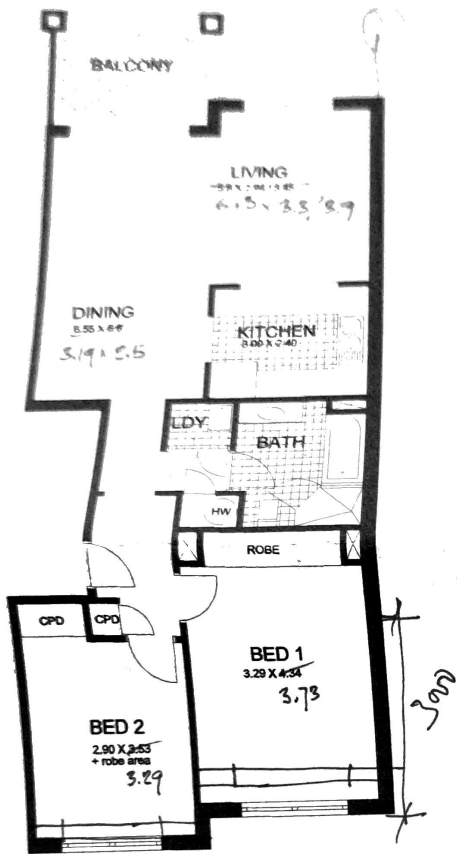
Bhuh - The Earth

Bhuvah - The Planets (solar family)

Swah - The Galaxy (The Heaven)

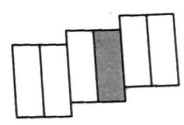
6.2 Dear Readers ! we daily observe, that, when an ordinary fan with a speed of 900 RPM moves, there is a noise, **then what a great noise would be, when the great galaxies move with a speed of 20000 miles per second. This is what this step of the mantra explains, that the sound — produced due to fastly moving earths, planets and galaxies is OM.** The sound was heard in meditation seat by Rishi Viswamitra, which he — mentioned to other colleagues. All of them unanimously then decided to call this, **THE NAME OF GOD**, because .this sound is available in all the three periods of time, hence it is **SAT (permanent feature)** therefore, **it was the first ever revolutionary idea to identify formless God with a specific title (form) called upadhi.Until that time every body recognized GOD as formless and no body was prepared to accept this new idea.**

NAAD  
UDGITH  
PR.



UNIT 11

SECOND FLOOR PLAN  
9 WILLIAMS PARADE  
DULWICH HILL



Handwritten notes and signatures at the bottom right of the page, including the name 'R. LeAKK?' and other illegible markings.

NAAD  
UDGITH  
PRANAVAH

LORD SAID  
OMITI  
KNOWLEDGE

IDENTITY  
MARKS

SOLID BASE  
KNOW THE  
UNKNOWN  
THROUGH  
THE KNOWN

EQUATION  
RIVER WIDTH

6.3 This sound OM heard in samadhi was called by all the Rishis as NAAD-BRAHM (A very very great noise but not a noise like the pop-music, which is normally beyond a specific amplitude and limits of decibels prescribed for human hearing. Hence the Rishi called this sound as UDGITH (A MUSICAL SOUND ON THE ABOVE, i.e. (heavens). They also noticed, that the infinite mass of galaxies moving with a velocity of 20000 miles/second was generating a momentum equal to MV-2 and was BALANCING THE TOTAL ENERGY consumption of the cosmos. Hence they named this as "Pranavah," which means the body (vapu) or store house of energy (prana). This is why Lord Krishna in Gita said, - Omiti Ekaksharam Brahm (refer 8/12), meaning, that the name of the SUPREME is OM, which contains only one syllable and also, that PRANVAH SARVA VEDAISHU (7/8) meaning thereby, that PRANAVAH IS THE SOURCE OF ALL KNOWLEDGE.(VEDAS).

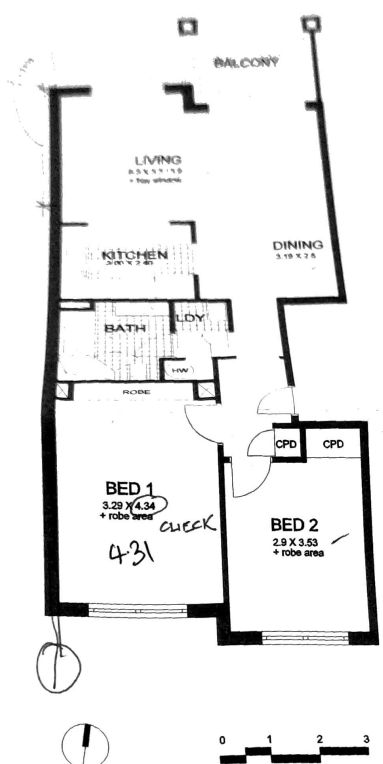
(B) Tat Savitur Varenyam.

6.4 To locate any person, we require at least two things 1. Name and 2. Form. After the identification of the Name, the other identification mark was located by the Rishi, as the Light, as it is abundantly available in innumerable stars. This is indicated here-under :-

Tat -	{	That (GOD)
Savitur --	{	The Sun (STAR)
Varenyam -	{	Worthy Of Bowing Or Respect

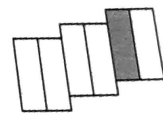
6.5 once the form of a person alongwith the name is known to us, we may locate the specific person. Hence the two titles (upadhi) provide the solid ground to identify the formless God, viswamitra suggested. He told us, that we can know (realize) unknowable formless God through the known factors viz. sound OM and light of the suns(stars).

6.6 A mathematician can solve an equation  $x^2 + y^2 = 4$ ; if  $x = 2$ ; then  $y$  can be known and so an engineer can measure the river width even by standing at the river bank just by drawing a triangle. So was the scientific method suggested by Viswamitra in the mantra in the next step



UNIT 6

SECOND FLOOR PLAN  
 9 WILLIAMS PARADE  
 DULWICH HILL



MEDITATE  
DO JAPA

(C) BHARGO DEVASYA DHEEMAHI

Bhargo - The Light  
Devasya - of the deity  
Dheemahi - we should meditate

6.7 The Rishi instructs us to meditate upon the available form (light of suns) to discover the formless creator (God). Also he wants us to do Japa of the word OM (This is understood in the mantra). This is how— Rishi wants us to proceed, but there is a great problem to reach to — realization, as the human mind is so shaky and restless, that without the grace of the supreme (Brahm) the mind can not come to rest. Hence Rishi suggests us to pray to Him as under :-

(D) DHIYO YO NAH PRACHODAYAT

Dhiyo - Intellect  
Yo - who  
Nah - we all  
Prachodayat - guide to right direction

O GOD ! Deploy our intellect on the right path.

7 FULL SCIENTIFIC INTERPRETATION OF THE MANTRA :-

(A) The earth (*Bhuh*), the planets (*Bhuvah*), the galaxies (*Swah*) are since moving at a very great velocity, hence the sound — produced is *OM*, (*the name of formless God*).

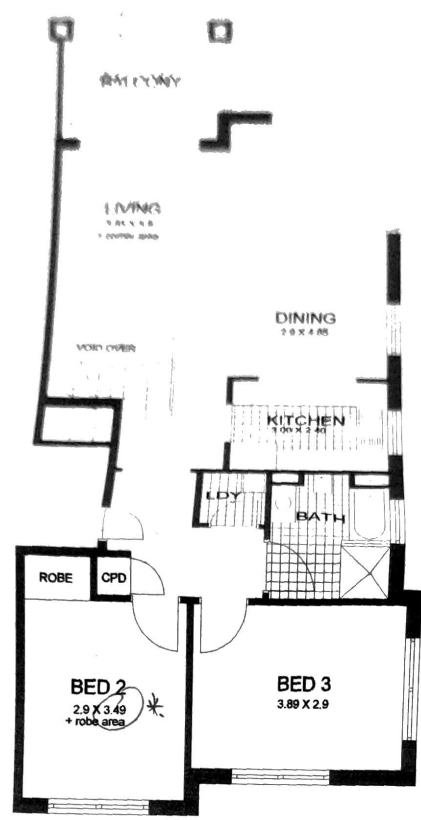
(B) Tat (*That God*), who is manifesting Himself in the form of light of the suns (*Savitur*) is worthy of bowing /respecting — (*varenyam*).

(C) We all therefore, should meditate (*Dheemahi*) upon the light (*Bhargo*) of that deity (*Devasya*) and also do Japa/chanting of OM)

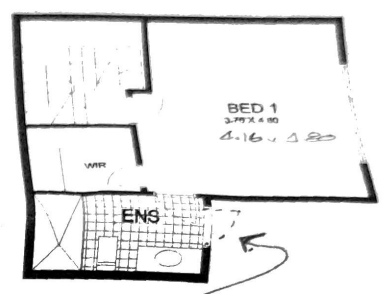
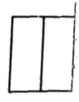
(D) May He (*YO*) guide in right direction ((*Prachodayat*) our (*Nah*) intellect. (*Dhiyo*).

SECTION 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

UNIT 4

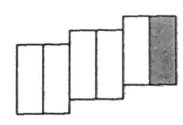


UNIT 4  
FIRST FLOOR AP  
9 WILLIAMS PAR/  
DULWICH HILL



*Show roof access  
dotted on as not to  
confuse with  
window*

UNIT 5  
SECOND FLOOR PLAN  
9 WILLIAMS PARADE  
DULWICH HILL





NO NEW WORDS

7.1 From the above, the dear Readers may kindly see, that no new words have been added or subtracted in the verse and the meaning is clear from the words contained in the mantra itself ,after scientific data are supplied as the background .

DECAY OF  
SCIENTIFIC  
MEANING

7.2 In fact the great scientist Viswamitra was aware of all the above informations, when this mantra was formulated , but due to long long years of darkness, the real scientific part got lost and many fatal shocks distorted and brought down to the present day meaning as detailed above.

7.3 So we notice, that the important points researched by Viswamitra and hinted in the mantra are;-

IMP-POINTS  
RESEARCHED  
ENERGY UMBRELLA  
MV<sup>2</sup>  
AMEEN

1). **The total energy generated by this sound OM acts as umbrella and balances the total energy consumption of the cosmos** .Hence it was named as Pranavah (Body of Energy). This is equal to  $mv^2$  (Mass of galaxies x velocity<sup>2</sup> )

**Realizing the great importance of the Syllable OM, other later date religions adopted this word with slight change in accent viz "AMEN".**

2) The God could be realized through the Saguna (gross) method (upasana) i.e

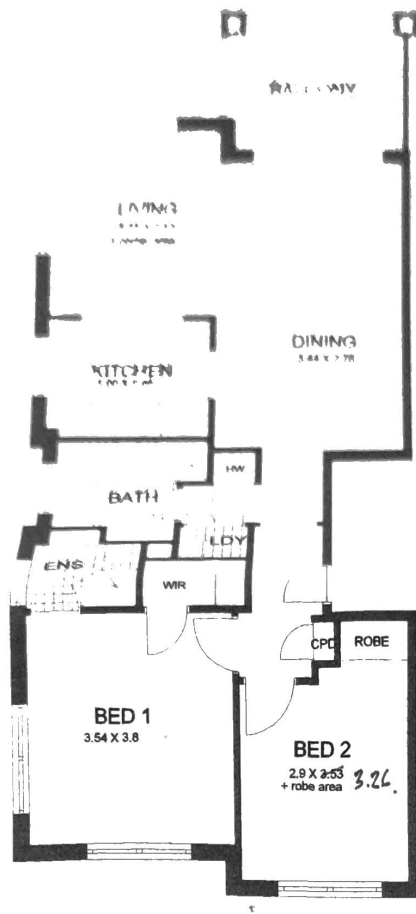
REALISE GOD  
THROUGH SAGUN  
(a) CHANT "OM"  
(b) MEDITATE LIGHT

- (a) by chanting the name of the Supreme as "OM" and  
(b) By meditating upon the light emitted by the stars (suns). As the light (Photons) are the first gross manifestation of the supreme, the formless (Nirakara)

DESIGNING OF  
FORMS (ICONS)

3) All visible and invisible forces of nature were decided to be designed in human/animal/bird form to facilitate the common masses to meditate upon. and harness those forces. for the benefit of all BEINGS.

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**UNIT 16**

**FIRST FLOOR PLAN  
9 WILLIAMS PARADE  
DULWICH HILL**



7.4 Therefore, it was not the sheer scientific meaning of the mantra given to us by the Rishi, but also the **great law**. **The great law is the law of symbols. It appears, that here-after the icons of various deities were designed with radiance (Aura) around their heads. The Puranas were written in the language of symbols and stories to communicate knowledge of Upanishadic wisdom beautifully and palatably to the common masses. It is similar to that, Einstein gave the formulae,  $E=mc^2$ , and the technology to evolve nuclear energy came into being.**

7.5 It appears from the story, that this idea first met with great resistance by a group followed by Rishi Vashishtha, who were the staunch exponent of FORMLESS GOD. There naturally happened a great bitterness between the two groups for quite sometimes. Viswamitra cleared off hundreds of objections raised by Rishi Vashishtha. In the story, this is stated as Viswamitra killed hundred sons of Vashishtha. This is the language of symbols. As on today, it may not sound us so convincing, how great might have been the opposition between the two groups due to difference in ideologies, because we have received firm "Samskaras" of idol-worship and mythologies pregnant with symbolism. So we take this issue just lightly. Even in the great era of science, several cults (Sampradayas) even amongst Hindus viz. Arya-samajis, Sikhs, Radha-swamis, Nirankaris, etc are staunch believers to the extent of fanaticism in the FORMLESS GOD. Whereas Vedas have recognized both methods of Upasana i.e. Saguna and Nirguna. The issue is crystal clear. It is the scientific method to **know the unknown through the known**. The fanaticism is due to the non-comprehension of totality of knowledge and is, therefore, the product of GROSS IGNORANCE.

7.6 Ultimately, Rishi Viswamitra won the war and Rishi Vashishtha agreed to award the title of Brahm-Rishi to Rishi Viswamitra as a valued recognition of his great research. This meant, that ultimately, the method of realizing formless God through gross titles (Upadhi) and symbols was recognized and approved. Thus the law formed the firm basis for Vedas for saguna upasana and *this is why the Gayatri mantra has been termed as the mother of Vedas (Ved-mata)*. Perhaps inspired from this recognition, the Rishi of Kathopnishad also advised to meditate upon thumb size light having no smoke as a symbol of ATMAN. It states, **ANGUSTH MATRA PURUSHO JYOTIRIVA DHUMKA** (section iv/13) It appears, that there-after twelve

SYMBOLS LAW  
(a) DEITIES  
(b) PURANAS  
 $E=MC^2$

OPPOSITION  
VASHISTHA

ARYA-SAMAJIS  
RADH-A SWAMI  
SIKHS

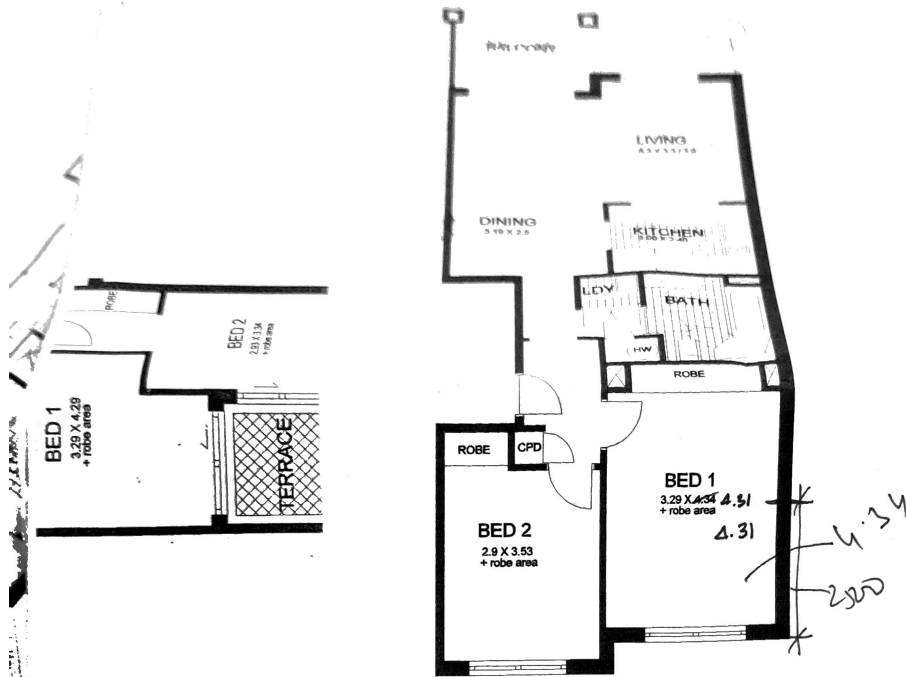
KNOW TOTALITY  
HILL TOP

WON WAR  
FIRM BASIS  
FOR BOTH-  
(a) SAGUNA  
(b) NIRGUNA

MOTHER OF  
VEDAS

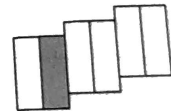
ANGUSTH  
MATRA PURUSHO

LORD SAID  
SAGUNA



UNIT 15

FIRST FLOOR PLAN  
9 WILLIAMS PARADE  
DULWICH HILL



JYOTIR LINGAS

“JYOTIRLINGAS” were constructed at the selected sites of the country as the solid base for saguna upasana. That is why Lord Krishna in Gita chapter 12 in shloka no. 2 told Arjuna to worship the Lord preferably **in the gross (saguna) form instead of formless (nirguna), because it is simpler to practice.**

## 8 DESIGNING OF SYLLABLE OM”

8.1 Having decided the principle of Saguna (gross) Upasana, the question arose, as to what should be the form of the Great “OM”. The little I know, that the entire “VARNAMALA” of DEVNAGIRI script is the outcome of RISHIS having seen the forms in the Samadhi State created by the sound waves. Similarly the syllable OM was visualised and accepted unanimously by the team of Research Scholars. The form OM appears to have been inspired from the Schematic view of our Milky-way, as the two resemble to the great extent.

SOUND WAVES  
RESEMBLANCE

## 9 REVIEW RECOMMENDED

9.1 In the ancient days, there had been a special class called ‘Brahmins’ who were assigned the special job of research work only. They were fully assured of bread and butter by the society and the state. This system later on decayed and distorted. Those Brahmins, in fact were scientist class. The research was directed towards any field of life benefiting the mankind and the society, as is being practiced now-a-days in the United States of America.

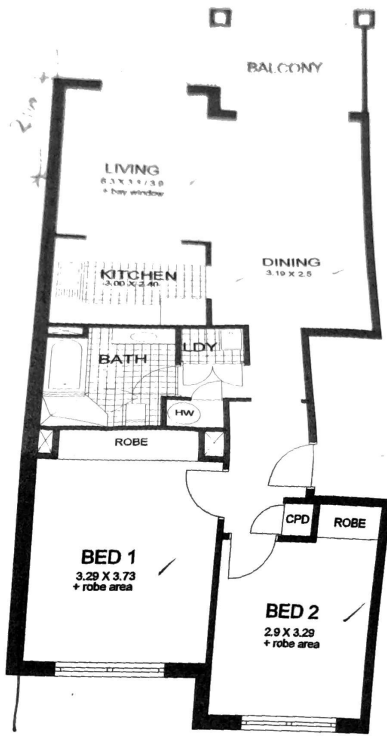
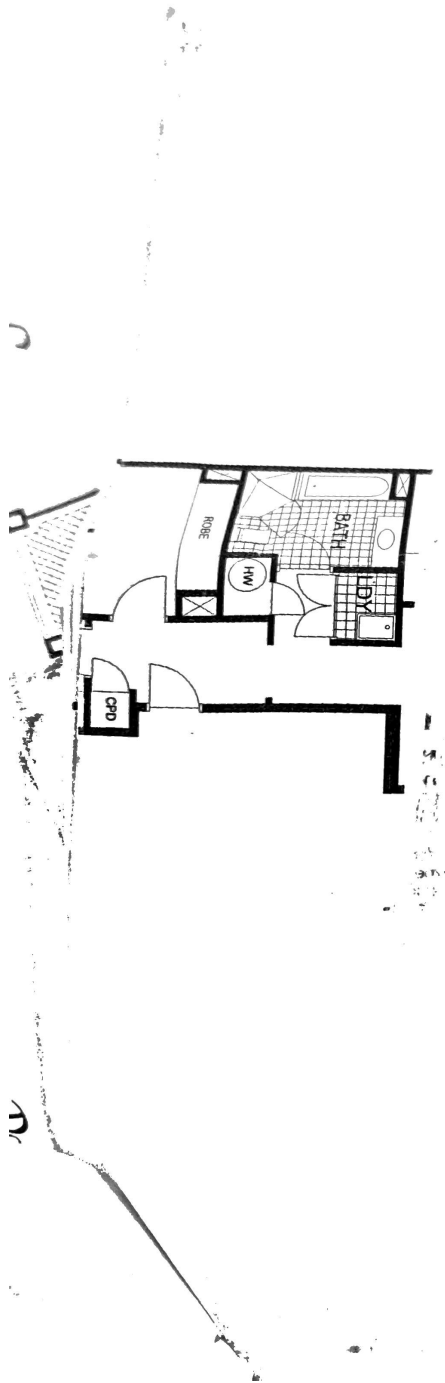
RESEARCH  
U.S.A

9.2 It is, therefore, submitted, that **similar practice should be revived in India too. There is huge impact of science from the west and it is the high time, when we should plan to review the Vedas and scriptures in the light of the modern science. It should be remembered, that if a race is to survive with its Religion and Culture then it has to move with time and must update itself accordingly.**

REVIVE BRAHMINS  
SAVE RACE

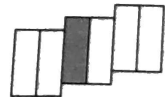
9.3 We have already discussed at length above, that our scriptural knowledge available to us at the moment is already second-hand knowledge, manipulated and distorted. **Hence, if we wish to transfer the vedic-wisdom to the next generation, now ready to take over, having scientific**

TRANSFER OF WISDOM



**UNIT 10**

**FIRST FLOOR PLAN  
9 WILLIAMS PARADE  
DULWICH HILL**



background, then we should explain the scriptures in scientific terms alone, which will ultimately benefit the entire mankind.

9.4 I therefore call upon all those faithful followers of vedic ideologies and vedic systems of upasana to get authenticated the fundamentals of vedas from the scientific world.

(A) The basic ideologies are:

- |                       |                          |
|-----------------------|--------------------------|
| 1 Nirguna (Nirakara). | 2. Saguna (Sakara)       |
| 3. Law of karma       | 4. Law of Re Incarnation |
| 5. Lok- Parlokand     | 6. Yajna.                |

(B) The basic systems of upasana:

- |                |                  |
|----------------|------------------|
| 1 Blind faith  | 2. Karm kand     |
| 3. Bhakti Marg | 4. Nishkaam Seva |
| 5. Jyan Marg   | 6. Raj Marg      |

9.5 I believe, if this is done, the recognition from the UNITED NATIONS must follow and may GOD bestow upon all of us a boon to witness once again the ECHO of VEDAS on the entire GLOBE.

9.6 YOU all have a GREAT DETERMINATION like that of LORD SHIVA Hence as VEDAS call upon us "JAGRAT UTTISTH VARANNIBODHAT" AWAKE! ARISE! & ACT SO let us do our DUTY forgetting our differences, and surrendering all at the lotus feet of SAI RAAM.

HARI OM TAT SAT

BASICS

UNITED NATIONS

SHIVA SANKALPA

*Parklands*



*Parklands*

