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Sanskrit Influence on the Indus Script

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Abstract: There is a conflicting opinion about the language of the Indus script. Some linguists believe it was based on the Indo-European language; another group claims it was based on the Dravidian language. My findings indicate that the Indus script was a composite language, comprising elements of the Indo-European (IE) language and Egyptian hieroglyphics. I refer to the influence of hieroglyphics as a Dravidian component. My decipherment effort so far indicates that many Indus symbols resemble Egyptian hieroglyphs, and that there is a close connection between the two writing systems. The Egyptian priests and scribes likely contributed to the development of the Indus script, along with Iranian and Vedic priests. The Indus symbols show a composite culture of all three great civilisations. This paper argues for a moderate interpretation of Sanskrit influence within a hybrid cultural context.

Keywords: Indus script, Sanskrit, Dravidian, hieroglyphics, archaeology, Vedic culture

1. Introduction

The debate regarding the language of the Indus script remains unresolved. Scholars have taken polarised positions, identifying either Indo-European or Dravidian as the root. This paper presents evidence that the script reflects a composite culture, influenced by Indo-European, Dravidian, and Egyptian traditions.

2. Literature Review

Iravatham Mahadevan proposed a reconciliatory view, suggesting that although the Indus scripts belong to the Dravidian language family, they can be better understood in the context of Vedic literature. He emphasised the limited nature of Aryan migration and the coexistence of cultural elements. (1) Rajesh Rao examined the statistical structure of Indus signs and concluded they share properties of linguistic systems, reinforcing the notion of meaningful communication. (2) In contrast, Farmer, Sproat, and Witzel denied that the Indus script constitutes a linguistic system at all. (3)

Research work of Iravatham Mahadevan

After years of interpreting Indus symbols through Dravidian ideas, Mahadevan finally adopted a reconciliatory approach in 2014. He stated that although the Indus scripts belong to the Dravidian language, they can be better understood through evidence in the Vedic literature. Dravidian ideas declined after the arrival of Indo-European peoples in the Indus Valley, and the symbols of the Indus script cannot be read through the present-day Tamil language. Iravatham Mahadevan proposed interpreting the Indus script through Vedic literary evidence in his 2014 research paper. Mahadevan states that the incoming Aryans did not entirely wipe out Dravidian ideas because the invaders were not in large numbers. They likely entered the Indian subcontinent in small groups over several years. It's not a massive invasion. (1)

Mahadevan theorised that the Aryan-speaking people migrated into South Asia in the second millennium BC in the wake of the decline and the eventual collapse of the Indus Civilisation. By then, the Indus polity could have

disintegrated into numerous smaller communities without effective central authority or leadership. The incoming Aryans were in much smaller numbers but could achieve **elite dominance** over the local population due to their better mobility and advanced weaponry. (1)

Mahadevan suggests that some segments of the Indus population, unwilling to be assimilated into the new social order, might have migrated eastward and southward. However, most people would have stayed back in the Indus Valley itself. Over time, the local population would have transitioned to the dominant Aryan dialect. Thus, the Indo-Aryan society was born, speaking the Indo-Aryan language while retaining many Pre-Aryan Dravidian cultural elements in religious practices, agriculture, craft traditions, and social institutions. (1)

Mahadevan suggests that it is crucial to recognise the Vedic and the earliest Tamil cultures as two distinct parallels, which flourished in regions and at times far removed from each other, with no possibility of mutual influence. Any common feature between the Vedic and Old Tamil can only be traced to their common descent from the same source, namely, the Indus Civilisation. I fully agree with Mahadevan's view; it is moderate and reasonably explains the Aryan-Dravidian conflict. (1)

Cypher-war

In 2009, Rajesh Rao published a study examining the sequential structure of the Indus script, specifically the likelihood that particular symbols follow or precede other signs. In most linguistic systems, words or symbols follow each other semi-predictably. There are specific dictating sentence structures, but also a fair amount of flexibility. Researchers refer to this semi-predictability as "conditional entropy." Rajesh Rao and his colleagues calculated the likelihood of one symbol following another in an intentional order. (2)

They compared the conditional entropy of the Indus script with that of known linguistic systems, such as Vedic Sanskrit, and with that of known non-linguistic systems, including human DNA sequences. They found that the Indus script was much more similar to the linguistic systems of the time. Rao states that it is not proof that the symbols encode a language,

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but it is additional evidence that the symbols are not just random contact and the pairing of arbitrary signs. Rao further states that the Indus script follows patterns consistent with the characters coding a language". (2) But not everyone agrees that the script is a language. In 2004, a paper by Steve Farmer, Richard Sproat, and Michael Witzel claimed that the Indus script was not a language. (3)

Another challenge to the script's decipherment is a classic one: expenses needed for the research work - money. Wells believes that until universities and funding agencies make a concerted effort to foster the study of the Indus script, little headway will be made. "It has to be a cooperative effort, it has to be funded, and it has to have a home," says Wells. (4) Bryan Wells has accurately pointed out the problem with Indus script research. It is not because of intellectual deficiency on the part of Indians that the Indus script remains undeciphered. However, this is due to a lack of funding for this research. If enough funds are made available to some research group, this Indus code can be easily broken. However, unfortunately, the Indian government has shown little interest in deciphering the Indus script.

The Indus script had remained undeciphered for a long time. There are some valid reasons for that. The Indus Valley civilisation flourished approximately 4000 years ago. The time gap is enormous, and modern people cannot visualise the context in which these seals were prepared or what is written on them. The earliest Indus archaeologists made the fundamental mistake of identifying these excavation sites as "Megapolises", whereas, in reality, they were "Necropolises". This fundamental mistake made it challenging to determine and recognise the role of seals and their inscriptions. (5)

The Indus seals show characteristics of the priestly way of writing. The words were written in such a way that an ordinary person would not understand them, but another priest could read the inscription. This way of writing could have granted priests extraordinary powers, and they could have claimed that the words possessed magical and supernatural properties. The purpose of the seals appears to be related to magic, mysticism, and animal sacrifice.

Absence of the Rosetta Stone

The Indus seal inscriptions have been deciphered in many ways, some based on Dravidian and others on Aryan languages. But none of the decipherers could prove anything convincingly because there is no reference point. The ancient Egyptian hieroglyphic code was broken using the trilingual inscription on the Rosetta Stone. However, no such bilingual records are available for the Indus scripts to date. After working on this issue for many years, I found that the Indus script follows the Egyptian hieroglyphic writing style, and many symbols are common to both scripts. So, the 'requirement of Rosetta stone' argument is no longer applicable.

The lack of a bilingual text is not an insurmountable obstacle; some scripts have been deciphered without them. Ugarit script writings were found in Syria (in 1929). Several words were single letters long, suggesting that the Ugaritic script used a consonantal alphabet without vowels (as was the case

with other early Semitic alphabets, such as Hebrew). Applying letter frequency analysis to the problem, **Hans Bauer** tentatively assigned values to two Ugaritic script letters that were commonly used in the language. Bauer then used the assignments to search the texts for the expected Semitic word for "king". Proceeding along these lines, he found the words for "son" and the name of the god "Baal", eventually determining the values of several other letters. My experience with the Indus script is also similar. (6)

3. Methodology

This research work is based on positional and frequency analyses of the symbols used by Iravatham Mahadevan. The approach adopted here involves comparative symbol analysis, drawing parallels between Indus symbols, Egyptian hieroglyphs, and Vedic ritual terminology. By aligning pictorial inscriptions with known religious and cultural practices, I propose readings that reveal a composite language influenced by both Dravidian and Sanskrit.

4. Findings

- Common Symbols: For instance, the fish symbol (Matsya) stands for both a phonetic value and an ideographic value. The Kavu symbol denotes sacrifice. These two symbols together form the basic foundation of the Indus script. These symbols demonstrate the influence of both the Dravidian language and Sanskrit.
- 2) **Ritual Significance:** Many seals point to *Pithru Karma* rituals and sacrificial ceremonies resembling Kerala's *Karkida Vavu*. These connect Indus practices with later Vedic traditions.
- 3) **Ideo-graphic Writing:** Indus seals exhibit an ideographic way of writing. However, a few cases of syllabic writing are also seen. The word *Karma* is presented in a logo-syllabic form, with phonetic elements traceable to Sanskrit.
- 4) **Vedic Influence:** Terms such as *Mams-Astaka* and *Jyotir-stoma Yajna* appear in inscriptions, suggesting direct influence from Vedic ritual vocabulary.

Commonly used symbols are identified.

The first symbol I recognised was the "fish" symbol [V] (Matsya), which stood for the "Ma" sound and the concept of the "dead man's soul" (Pithru/Manes/ancestor). (7) The second symbol identified was the 'Kavu' symbol T, representing the idea of 'Sacrifice.' (8) These two symbols were the most frequently used symbols of the Indus script. Identifying these two symbols gave me a breakthrough, and my experience was similar to Hans Bauer's.

The direction of reading the inscriptions

Another major problem in reading the Indus inscriptions is determining the direction in which they should be read. There are many ways of writing: left to right, right to left, or the Boustrophedon way. While reading the Indus inscription, start from the side the animal faces. This way of writing was the primary convention of Egyptian hieroglyphic writers; Indus scribes meticulously followed the same convention.

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This feature shows the influence of ancient Egyptian civilisation on the Indus civilisation. (9)

Indus inscriptions are written in an 'Ideogram' (Idea)

Decipherment efforts show that the Indus inscriptions are written mainly in the 'Ideogram' way. However, a few cases of the 'Iogo syllabic way of writing also exist. A notable example is the word 'Pithru-Karma', which is frequently used in Indus inscriptions. This word is written in an 'ideographic way' and 'logo-syllabic way'. Iravatham Mahadevan first advocated the 'ideographic way' of interpreting symbols of the Indus Valley civilisation in 2014. (1) However, his idea that those symbols communicated trade transactions of the Dravidian people has not progressed much.

Sacrifice to satisfy the souls of Pithrus (Ancestors)



Figure 1: Inscription showing the word "Pithru Karma".
Figure: SEQ Figure * ARABIC 30: Inscription showing the words 'Pithru Karma'

The majority of the seals are oriented towards the Pithru Karma ceremony. This finding substantiates my earlier theory that Indus excavation sites are burial grounds, not megapolises as popularly imagined.

Table 1: Pithru Karma

	\omega	11	△	类
Ancestors (This symbol looks like an older man walking with a stick.)	Upraised Hands symbol with a fish symbol inside (composite symbol)	Yajna symbol. It resembles the modern Hindi full-stop symbol.	Mountain	God with a stick
(Pithru)	Ka+ma = Karma	Yajna	Indicates "Kur", the nether world	Messenger God with the stick as his weapon

The Mountain symbol represents the 'Kur', the nether world. (88) The outcome of the analysis is that the inscription reads as 'Pithru-Karma-netherworld (Kur)-messenger god'. The ceremony was performed to appease the God of Death, and the sacrificial offerings were sent through the messenger god. (10) "Pithru-Karma" means the annual death ceremony (Thithi) during which rituals are carried out with Yajna. In modern days, "Fire sacrifices" are conducted with vegetarian sacrificial materials. However, it appears that an animal sacrifice was the primary component of the "Yajna" ceremony in ancient times. (11)



The upraised symbol indicates the dead person's 'Ka' (soul). The fish symbol (ma) inside the 'ka' symbol becomes a composite symbol with the syllable sound of 'Karma.' (12) One crucial point to note is that the word 'Karma' is written in Sanskrit, not a Dravidian language. The 'Ma' sound in the word 'karma' is given by the Sanskrit word 'Matsya' to the fish symbol. If it had been a Dravidian word, it would have become 'Karmee', which has no meaning. (The fish is called 'Meen' in the Dravidian language). This pictogram is the best

example supporting my 'Sanskrit theory'. This pictogram has been written in a logo-syllabic way.

Ritual recorded in the seal - Karkida Vavu

Karkida, the last month of the Malayalam calendar, which corresponds to July and August, has some religious significance for Hindus. *Karkidaka Vavu Bali*, also known as Bali, is a sacrificial ritual performed in memory of the departed ancestors. On the day of *vavu or Amavasya* (new moon day), people belonging to the Hindu religion gather on the riverbanks and beaches to offer 'Bali'. Bali means "sacrifice"; in the olden days, blood sacrifices were performed, but nowadays no blood sacrifices are offered; only vegetable offerings are made to the gods. People believe that the departed souls attain '*moksha* (liberation) if the ritualistic homage is performed on *Karkidaka vavu*. (13)

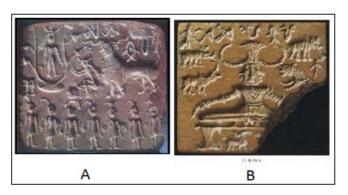
Men, women and children offer Bali to their ancestors. Thousands of people throng the beach on that day. Other ingredients of the Pooja are cooked rice, water, etc. Before commencing the ritual, all these materials are placed on a banana leaf. Men wear only a dhoti during the ceremony, and the offerings are made on a banana leaf, which will be finally immersed in the seawater. (13)

Importance of Karkida Vavu Bali

Hindu customs place great importance on rituals to be performed after death. According to Hindu custom, when a

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family member dies, the younger members must perform Bali (also known as Pithru Tharpanam) to liberate the soul from the shackles of this worldly life, thereby helping it achieve eternal peace. The Bali performed on Karkidaka Vavu day is called Vavu Bali, which is considered highly important. The customary practice is to perform the ritual based on the calculations for the star of the day when a family member has passed away. However, Karkidaka Vavu Bali is performed regardless of these calculations. The rites are conducted according to Hindu custom and performed on the beaches and waterways. (13)



Pazu - Karkida - Dvikavu

The two seals given above are similar in one way. Although the pictures differ, the inscriptions remain the same. These inscriptions may look different, but if they are properly analysed, it can be seen that both inscriptions are variations of the same.

The only difference between these inscriptions is that the Man's logo appears at the end of the seal inscription(A). The same symbol of "Man" appears at the beginning of the inscription on the seal (B). The conclusion is that the subject matter of the inscriptions is the same in both seals; the positional change of the "Man" logo does not alter the meaning of the inscription.

More information has been obtained during the analysis process. The third logo in the seal (A) is not visible. But, considering the repetition of the same logos and sequence of logos, it can be assumed that the missing logo is 'dvi-Kavu'

The "Man" logo appears to depict a person who was sacrificed. The sacrificial animals, as well as men, were called "*Pazu*". If the word "*Pazu*" is adapted for the logo "Man", it makes sense. Adding the word "*Pazu*" at the beginning of the end does not affect the sentence's meaning.

Analysis table for the inscription in the seal (A)

1	2	3	4	5	6
X	\bowtie	\bowtie	J.A.	Q.	
man	crab	crab	'Kavu' symbol with the number two symbol inserted in between	fish	Kavu-symbol
Man sacrificed	Both these crab symbols (symbols 2 and 3) should be read together as 'Karkida ritual.	Both these crab symbols (symbols 2 and 3) should be read together as 'Karkida ritual.	Dvi-Kavu means it is a sacrifice for two entities: the gods and the Pithrus.	'Matsya' indicates the Pithru.	'Kavu' in the Tamil language means 'sacrifice.'

The resulting sentence is "Pazu-Karkida-Dvikavu-Pithru-sacrifice." This sentence refers to a ceremony similar to Kerala's "Karkida Vavu," as described above. This ceremony is devoted explicitly to pleasing "Pithrus" (ancestors). The conclusion is that the ceremony mentioned on the above-

mentioned Indus seal is the same as the "Pithru Ceremonies" followed throughout India. However, the specific name of the ceremony, 'Karkida-Kavu,' is still used only in Kerala.

Analysis table for the inscription in the seal (B)

1	2	3	4	5	6
\times	\mathbb{X}	J		J	大
crab	The Crab symbol with a stick symbol across gives the 'da' sound here	Kavu- symbol	fish	Kavu	man
Karkida ritual. These symbols (symbols 1 and 2) should be read together as Karkida.	Karkida ritual. These symbols (symbols 1 and 2) should be read together as Karkida.	Kavu – may be single Kavu (Or) double Kavu	The fish symbol means 'Pithru/manes/ ancestor' here. (85)	Kavu	Man sacrificed

It could be read as 'Karkida –Kavu –Pithru--Kavu –Pazu'. The word Karkida may refer to a ritual similar to the 'Karkida Vavu' of Kerala, which is dedicated to appearing the 'Pithrus'

(ancestors). The first two graphemes should be read together as 'Karkida', indicating 'Karkida ritual'. Finally, the meaning is the same as in the above-given seal A. The only difference

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is that the 'Danda' (Stick) symbol has been introduced in this inscription. The stick symbol clarifies the word as 'Karkida'. The term 'Danda' is another example of how Sanskrit was used during the Indus Valley period.

The term 'Karkida Kavu' has been transformed into 'Karkida Vavu' in present-day Kerala. This transformation may have occurred primarily after the introduction of the Buddhist concept of 'Non-violence' and a general aversion towards animal sacrifice. It looks like those Hindu priests had stopped the animal sacrifice but continued with the ritual to please Pithrus (ancestors).

Mams-Astaka

The best example of the 'Vedic ritual' in the Indus inscription comes from the word 'Astaka'. This term is frequently used in many Indus inscriptions and is employed in various permutations and combinations. The word 'Mams' means 'meat' in Sanskrit. The word 'mAMsASTakA' means the forenoon of the 8th day in the dark half of the month Māgha; on that day, meat or flesh was offered to deceased ancestors. (14)



Figure 2: Inscription showing the symbol of "Leafmessenger".

1	2	3	4	5	6	7
\otimes	1	00	X	\Diamond	***	J
Grihapathya Yajna	Yajna	Karkida	Matsya	Matsya	Messenger	Kavu means sacrifice in Tamil
householder's fire	Yajna	Karkida month ritual/sacrifice	Fish with horns indicates the second-generation Pithru	Fish with a dot show first-generation Pithru	Leaf messenger	The sacrifice of a bull was made

This is a 'Vedic ritual' and shows the influence of 'Vedic culture' in the Indus Valley civilisation. The inscription reads, "Grihapathya—Yajna—Karkida month—leaf messenger—Kavu". The sentence means," Householder's Yajna was performed in the Karkida month for two generations of Pithru, and a leaf messenger was employed to carry the sacrificed items to the gods. Two consecutive symbols of 'fish' stand for two generations of Pithrus. The leaf symbol indicates the 'leaf-messenger', discussed in the following paragraph.

Leaf-messenger symbolism



The figure beside indicates a god or man carrying a stick and walking. He is also shaped like a Pipal (or Betel) leaf. It could be a god or an ordinary man. All the Indus seal inscription symbols can be easily interpreted in terms of the Vedic rituals mentioned in the "Grihya-Sutra." Reading the Grihya-Sutra suggests that the Vedic people employed such a messenger to convey their sacrifices to the gods or Pithrus (Manes). (15)

Agni-stoma / Jyotir-stoma Yajna -- for uplifting the dead man's soul to heaven



The above two graphemes are very peculiar and difficult to explain. At least the ladder symbol is easy to identify. However, the second symbol is formidable to ascertain. Fortunately, the more challenging aspect is to interpret the best and most precise information that emerges from such a grapheme. These graphemes indicate the idea of 'raising the dead man's soul to heaven. The 'ladder' symbolises the ascending pathway to heaven. Wherever such an 'ideogram' appears in Indus inscriptions, such an ideogram gives the

meaning of 'Jyotir stoma Yajna'. (16) This Yajna, performed to uplift the soul, is typical of 'Vedic civilisation'. These Vedic ideas expressed in 'Indus seal inscriptions' support my 'Sanskrit language theory'.

5. Discussion

The evidence highlights a multi-layered script that reflects religious rituals and ancestor worship rather than trade or administration. Sanskrit elements, particularly in ritual terminology, strongly suggest Indo-European contributions. This does not negate Dravidian or Egyptian influences but instead positions the Indus script as a cultural synthesis.

6. Conclusion

The Indus script reflects a composite civilisation that synthesises Vedic, Dravidian, and Egyptian elements. The presence of Sanskrit ritual terms demonstrates Indo-European linguistic influence, resolving the Aryan-Dravidian debate. Rather than viewing civilisation through binaries, recognising its hybrid nature may provide a more accurate understanding of its legacy.

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Conflict of interest:

I don't have any conflicts of interest.

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