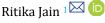
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PRELIMINARY REPORT ON THE PAINTED ROCK SHELTERS OF RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL DISTRICT



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ABSTRACT

This paper presents the findings from a preliminary exploration and documentation of the rock shelters located at Rajiv Gandhi Proudyogiki Vishwavidyalaya in Bhopal, Madhya Pradesh. The exploration led to the documentation of three rock shelters painted with Mesolithic-period paintings. Despite significant neglect and natural degradation, including fading due to sun exposure, the remaining artworks offer invaluable insights into the socio-economic and cultural aspects of prehistoric man. Mesolithic tools discovered on the surface further corroborate the historical significance of the site and help in the relative dating of the paintings and also help in understanding site utilization. The paper also brings to light the immediate need for preservation and conservation of the paintings.

Keywords: Rock Painting, Bhopal, Mesolithic, Microliths

1. INTRODUCTION

Rock art refers to the "paintings (pictographs) and the engravings (petroglyphs) done on the walls of rock shelters, open boulders and rock formations. The 'additive process' makes pictographs wherein wet paint or a dry pigment is added to the rock surface to depict motifs or figures and the 'reductive process' creates petroglyphs, where the desired motifs are fashioned out by removing particles from the rock surface by hammering, chiselling, engraving or etching" Chakravarty & Bednarik (1997). Rock art is the earliest form of human visual expression. It throws light on the culture, society, religious and ritual beliefs, subsistence patterns, tools and implements, technological attainments, flora and fauna of the prehistoric man. Thus, rock art imageries dispense information that corroborates, augments and sometimes, provide new data that cannot be obtained from any other archaeological source.

This paper is a result of the author's preliminary exploration of the rock shelters of the Rajiv Gandhi Proudyogiki Vishwavidyalaya in district Bhopal, Madhya Pradesh. A detailed documentation of the rock paintings was carried out in the months of October – November 2023. Dr V S Wakankar previously discovered seven shelters in the Nayapura region, which, to my knowledge, includes those within the grounds of the Rajiv Gandhi Proudyogiki Vishwavidyalaya and the current settlement of Gondipura Indian Archaeology (1959-60). However, no data was published related to his findings.

2. OBJECTIVE

Comprehensive documentation and exploration of the painted rock shelters of Bhopal district have been previously conducted, but the problem that persists is that the previous researchers have failed to publish their findings especially, photographic documentation is lacking. This ultimately leads to the shelters being forgotten, vandalized or eventually falling prone to environmental degradation and the resultant is the loss of a very rich and invaluable source of history that can never be retrieved. Therefore, the primary objective of this paper is to systematically record the data obtained from the comprehensive documentation of the rock shelters of the R.G.P.V campus, thereby bringing to light previously undocumented paintings and rock shelters for further study and analyses. This research aims to apply a multidisciplinary approach by studying the lithic assemblages found in and around the shelters within the gambit of the rock art, thereby, interpreting the paintings to understand the socio-economic and cultural aspects of prehistoric man. Lastly, the research aims to create awareness about the present state of the paintings and the immediate need for preservation and conservation.

3. SIGNIFICANCE

The significance of the research lies in the documentation and therefore preservation of the invaluable cultural heritage of our history that the rock paintings dispense. By creating a visual record of these prehistoric paintings, this paper is adding new data in the field of academia and in the process recording the information, in case the paintings are lost forever. By studying the themes of the paintings, this paper offers a deeper understanding about the symbolism and meanings behind the artwork and therefore understanding the social and cultural aspects of prehistoric man. Shrivastav & Guru (1989)

4. REVIEW OF LITERATURE

With the discovery of Bhimbetka in 1957 by V.S. Wakankar a new chapter in Indian rock art tradition was introduced. Following this, extensive documentation work was carried out in the districts of Raisen and Bhopal, assuming that more clusters of painted rock shelters would be discovered. Wakankar previously discovered seven shelters in the Nayapura region, which, to my knowledge, includes those within the grounds of the Rajiv Gandhi Proudyogiki Vishwavidyalaya and the current settlement of Gondipura Indian Archaeology (1959-60). However, he published no data in the form of the description of the shelters, their exact location

and the photographs. Erwin Neumayer in his book 'Lines on stone' published one photograph from our study area, but again no information about the shelters and the paintings was provided Neumayer (1993). Recently Meenakshi Dubey Pathak briefly discussed the shelters in R.G.P.V in her book 'Madhya Pradesh Rock Art and Tribal Art'. However, no detailed description of the shelters and photographs was added. Other than our study area, the rock shelters in Bhopal have been documented by various researchers in the last five decades. V S Wakankar has documented the sites of Dharampuri, Gupha Mandir, Manua Bhan Ki Tekri, Shahad Karad and Shyamla hills in Bhopal district Wakankar & Brooks (1976), Wakankar (2005). S K Tiwari, Rahman Ali and R K Sharma documented the sites of Firangi, Ganesh Ghati, Jamun Khoh, Diga Dig and Lal Ghati Ali & Sharma (1980), Tiwari & Misra (2011).

5. METHODOLOGY

- The rock shelters were located in the forested area of the R.G.P.V campus and a detailed exploration was carried out to locate the painted rock shelters. This exploration led to the discovery of three shelters and detailed documentation was carried out.
- A Nikon D3200 DSLR camera was used for photo documentation and digital preservation. These photographs were later processed using D-Stretch software to enhance the paintings so that the faint or nearly invisible images are visible again and also to study the superimpositions.
- An IFRAO (International Federation of Rock Art Organizations) card
 was used to ensure a systematic and uniform method for
 documentation of rock paintings that will help in providing a consistent
 scale reference and ensuring that the colours in the rock art are
 accurately represented.
- A spatial documentation of the rock shelters has been done using GPS.
- A number of surface finds of lithic artefacts was collected from in and around the vicinity of the shelters to understand site utilization and relative chronology.

6. TOPOGRAPHY

Bhopal District is situated in the floodplain of the Betwa river. This floodplain is majorly drained by perennial rivers such as the Parbati, Kolans, Kerwa, Halali and Kaliasot. The floodplain is surrounded by a continuous chain of sandstone hills, primarily composed of pink-red sandstones from the Vindhyan series. These are covered with a thin layer of the Deccan trap rocks and subsequently covered with Black cotton soil. The topography is largely made up of these two rock formations and their accompanying rock types such as flint, quartz, agate, chalcedony, limestone etc. These hills resemble cuestas and are composed of sedimentary rocks featuring overhangs and shelters. Rainfall has eroded the softer rocks under the tough overhanging, resulting in natural rock shelters. Out of the thirty-one sandstone hills encircling the Betwa source region, Shankar Tiwari's explorations identified only eleven hills with rock paintings, while four hills had no rock shelters. The remaining sixteen hills have been left unexplored and hence termed as *terra incognita* Tiwari (1984). The shelters of Rajiv Gandhi Proudyogiki Vishwavidyalaya are the northern most part of these sandstone hills.

7. AREA OF STUDY

The shelters are currently present inside the campus of the Rajiv Gandhi Proudyogiki Vishwavidyalaya (23° 18' 53.2"N 77° 21' 43.1"E) which is situated in nagar nigam Gandhinagar, tehsil Huzur, district Bhopal, Madhya Pradesh. It is 11 km north west of Bhopal and lies on the Ayodhya bypass road.

The rock shelters are in close proximity to the shelters of Gondipura, Manua Bhan ki Tekri and Gufa mandir. The rock shelters form part of a broader and richer concentration of rock art that spreads across the Betwa flood plains in the present day districts of Bhopal and Raisen in Madhya Pradesh.

Figure 1

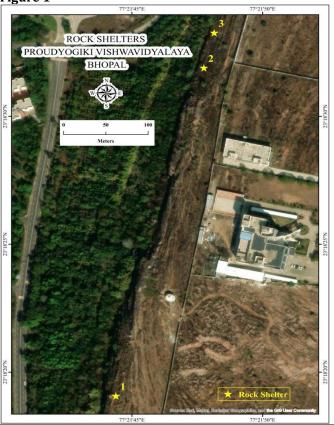


Figure 1 Map of Research Area

8. DESCRIPTION OF THE SHELTERS

A total of three shelters were located in the campus. The description of the paintings is given below:

Rock Shelter 1 (23° 18′ 19.0692" N 77° 21′ 44.388" E)

This shelter has a big bison depicted in red, though the front portion is now very faint (Figure 2). The bison is painted in outline and decorated with geometric patterns; vertical lines at the front and back of its body and a square portion in the middle filled with intricate patterns. The painting was drawn using a thin brush. On the basis of stylistic variations the bison and other animal can be dated to the Mesolithic period. Above the bison, another animal painted in red is depicted in a similar fashion, with an intricate design. However the animals head has completely

chipped off, making it difficult to identify the animal, but it could be another bovid. To the left the shelter contains a big intricate pattern, that is difficult to discern and might be part of another animals body. Additionally, there is a red doe and a smaller doe depicted under it (Figure 3). The painting is done in flat wash. The does can also be stylistically dated to the Mesolithic period.

Figure 2

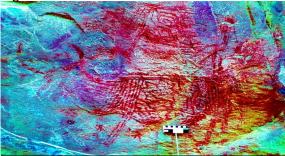


Figure 2 Painting of a Bison. Enhanced Using D-Stretch **Source** Photo by Author

Figure 3

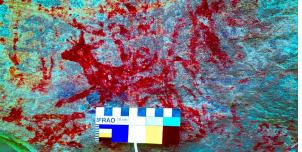


Figure 3 Painting of a Doe. Enhanced Using D-Stretch **Source** Photo by Author

Rock shelter 2 (23° 18′ 31.8888″ N 77° 21′ 47.754″ E)

This shelter contains three very sketchy animals painted in red. The animal in the middle bears affinity to a bison. It is followed by an animal that is now worn out and therefore difficult to identify. The bison is facing an animal that seems to attacking it and looks ferocious. Again the animal is not easy to identify, given the chipped off surface of the shelter wall. All three animals are decorated with geometric designs on the body and can be stylistically placed in the Mesolithic period. To the right of this composition we have two dancing figures painted in black (Figure 4). The head of the both the figures are now defaced. According to Neumayer, women during the Mesolithic period were drawn full bodied Neumayer (1993) and based on this the figure with the chevron pattern drawn on the body could be a woman. These figures are also assigned to the Mesolithic period. A portion of the shelter wall on the right, is heavily superimposed with various layers painted in red. The upper most layer shows a rhinocerous adorned with geometric patterns (Figure 5). Below it, an outlined animal, likely a deer, is depicted in red (Figure 5). A few stick shaped human figures are depicted to the right of the deer, but it's difficult to say what activity they are indulging In. The layers below them cannot be discerned but a few geometric patterns are visible, but no concrete figure can be identified. This most striking image of the shelter is a very interesting dancing

scene with several figures depicted in red (Figure 6). The figures are shown schematically with their arms spread and their heads thrown back, as if in a trance. One figure is wearing an animal mask and the figure next to is shown wearing a long tunic. The figures are depicted in a circular fashion and may have been dancing around an object or fire, but its difficult to tell because the figures in front of them are now completely faded. One of the human figures is wearing a long cloak and the others are wearing loincloths. This scene perhaps is a depiction of a ceremonial scene with shamans. This scene is reminiscent of another painting from Bhimbetka which V S Wakankar termed as "wizard's dance" Wakankar & Brooks (1976). This scene can be stylistically dated to the Mesolithic period. Above this scene is a big boar? with geometric patterns that is being attacked by a hunter holding a spear (Figure 7). The human figure is stick shaped in stark contrast to the animal who is naturalistically drawn. This is superimposed on earlier figures.

Figure 4

Figure 4 Painting of Two Dancing Human Figures. Enhanced using D-Stretch **Source** Photo by Author





Figure 5 Painting of a Rhinoceros, A Deer and Stick Shaped Humans. Enhanced using D-Stretch **Source** Photo by Author

Figure 6

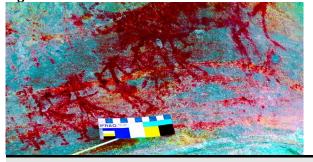


Figure 6 Dancing Scene. Enhanced using D-Stretch **Source** Photo by Author

Figure 7

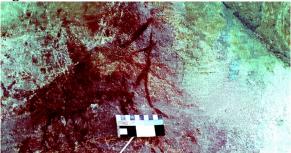


Figure 7 Painting of a Boar Being Attacked. Enhanced Using D-Stretch **Source** Photo by Author

Rock shelter 3 (23° 18′ 33.2604″ N 77° 21′ 48.15″ E)

This shelter has a handprint painted in red. The shelter has a very unique painting of a stick shaped woman with breasts shown as lines, bending down. It is a rare picture as stick shaped woman aren't common depictions. The shelter has a similar stick shaped woman with breasts and a loin cloth, shown bending but with a later period bovid depicted under her (Figure 8). The bovid is painted in outline. A later period human is also superimposed over this picture. This shelter also has a palm print in red (Figure 9).

Figure 8

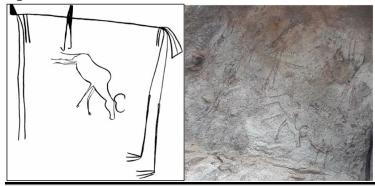


Figure 8 A Stick Shaped Woman with Breasts. Reconstructed And Original **Source** Photo by Author

Figure 9



Figure 9 A Palmprint. Enhanced Using D-Stretch **Source** Photo by Author

9. TOOL ASSEMBLAGE

A large number of finished and unfinished microliths were found scattered in and around the shelters. The tools were fashioned out of chalcedony and consisted of blades, borers, scrapers, triangles and trapeze (Figure 10). Both non-geometric and geometric microliths were found, inferring that the site was occupied long enough to see technological advancement in the tool technology and also for the skill of prehistoric man to develop. The evidence of tools in the various stages of manufacturing show that the tools were manufactured in the shelters and some shelters may have been factory sites where the tools were fabricated. The evidence of tools on the surface is a very important indicator of the rich archaeological significance of the site and excavations in the future can help us to understand the importance of this site.



Figure 10 Mesolithic Tools **Source** Photo by Author

10. CHRONOLOGY OF THE PAINTINGS

The chronology of Indian rock art has not been established by an absolute method of dating, unlike the rock paintings of Australia and Europe, which are now securely dated by using AMS (Accelerator Mass Spectrometer) dating through pigment analysis. Therefore, rock art researchers in India are still relying on the study of thematic content, superimpositions, and style of rock paintings in order to establish a relative chronology Wakankar (2005), Neumayer (1993), Pandey (1993). The exception to this, are some of the Historic period paintings that are associated with dated inscriptions to whom some absolute dates can be assigned.

On the basis of style, superimposition and theme, the paintings of this rock shelter have been assigned into the Mesolithic period.

Phase 1- Mesolithic Period

The animals are drawn in outline in the typical Mesolithic period style of paintings Wakankar (2005), Neumayer (1993) of the Raisen and Bhopal districts, featuring geometric and intricate patterns decorating their bodies. The human figures are reduced to stick shaped figures and are in contrast to the animals who are drawn naturalistically. The overall theme and style of the paintings show uniformity with the rock paintings of other shelters in the Bhopal and Raisen district, implying that they belong to one common artistic tradition.

11. INTERPRETATION OF THE PAINTINGS

The paintings offer insights into the socio-economic and cultural beliefs of the cave dwellers. The animals represented include boars, does, bovids and one rhinoceros. Reflecting the ecological environment of the Mesolithic period. We get two dancing scenes from this site. The most important image is the dancing scene of the shamans in shelter number 2. It indicates that the site was used for magicoritualistic practices and that the Mesolithic people performed ceremonies. Right next to the dancers, there is a hunting scene depicting a boar being attacked. The hunting scene is superimposed over earlier paintings. This means that this particular part of the shelter was being painted over again and again and therefore has ritualistic meaning attached to it. The hunting scene and the ceremonial dance could possibly be part of the same composition and be a representation of the hunting magic ritual in order to get success in the hunt. According to Wakankar and Brooks, "In hundreds of paintings men armed with barbed harpoons, spears, or bows and arrows attack, surround, or dance about an evidently doomed animal. These paintings may, of course, simply record the events of a successful hunt. But if an inference can be drawn from reports of recently primitive societies, the pictures may represent ceremonial magic before the hunt, invoking a successful outcome" Wakankar & Brooks (1976).

Another important observation was the lack of Historic period paintings from the site. This could mean that either we have lost the Historic period paintings or that the site was abandoned after the Mesolithic period. The evidence of microliths from the surface corroborates that the site was occupied during the Mesolithic period.

12. PRESENT STATE OF THE SHELTERS

The shelters have been exposed to prolonged mining activities, likely causing the destruction of numerous shelters overtime, thereby, prompting a possibility that this site may have been a very rich repository of rock art. Other than this, the paintings are exposed to direct sunlight, causing them to fade. Additionally, the walls are chipping and facing other natural threats. As a result, the shelters fail to provide a complete picture of the comprehensive view of the rich rock art that must have existed during the Prehistoric period.

13. CONCLUSION

The present research thus, provides a thorough documentation of the rock shelters and the paintings that are assigned to the Mesolithic period. The microliths found from the surface further corroborate the occupation of the shelters during the Mesolithic period and also give information about the tool technology and skills of prehistoric man. Paintings reflecting some sort of ritualistic activities tell us about the beliefs of early man. The animals depicted give us insight into the ecological environment of Mesolithic times. And lastly it raises the need for urgent preservation and conservation of the paintings in order to safeguard a rich source of prehistoric period.

CONFLICT OF INTERESTS

None.

ACKNOWLEDGMENTS

None.

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14. LETTER OF AUTHENTICATION

LETTER OF AUTHENTICATION

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23.7.2024

To, The Editor

ShodhKosh: Journal of Visual and Performing Arts

Dear Sir.

I am writing to confirm that the research paper titled "PRELIMINARY REPORT ON THE PAINTED ROCK SHELTERS OF RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL DISTRICT" submitted to ShodhKosh: Journal of Visual and Performing Arts, is my original work. This paper documents the shelters I have explored and includes photographs that I have personally taken.

I assure you that the content of this research paper, including all text and photographs, is original and has not been published elsewhere. Furthermore, it is not under consideration for publication in any other venue.

The documentation and analysis presented in this paper are the result of my independent research and fieldwork. Any references or quotations used are properly cited and credited to their respective sources.

Sincerely,

Ritika jain

Research scholar Panjab University Park & L. S. J. L. CSUPERVISOR

Depts Of Anchor traffen Photor

Dulture & Archaeology

PROFESSOR PARU BAL SIDGU

Panjab University