

*Abgadiyat*

© 2011, Bibliotheca Alexandrina. All rights reserved.

#### **NON-COMMERCIAL REPRODUCTION**

Information in this Journal has been produced with the intent that it be readily available for personal and public non-commercial use; and may be reproduced, in part or in whole and by any means, without charge or further permission from the Bibliotheca Alexandrina. We ask only that:

- Users exercise due diligence in ensuring the accuracy of the materials reproduced;
- Bibliotheca Alexandrina be identified as the source; and
- The reproduction is not represented as an official version of the materials reproduced, nor as having been made in affiliation with or with the endorsement of the Bibliotheca Alexandrina.

#### **COMMERCIAL REPRODUCTION**

Reproduction of multiple copies of materials in this Journal, in whole or in part, for the purposes of commercial redistribution is prohibited except with written permission from the Bibliotheca Alexandrina. To obtain permission to reproduce materials in this Journal for commercial purposes, please contact the Bibliotheca Alexandrina, P.O. Box 138, Chatby 21526, Alexandria, Egypt. E-mail: [secretariat@bibalex.org](mailto:secretariat@bibalex.org)

# *Abgadiyat*

**Issue No. 6 - 2011**

Issue N° 6– 2011

Scientific refereed annual journal issued by the  
Bibliotheca Alexandrina Calligraphy Center



Board Chair

**Ismail Serageldin**

Editing Supervisor

**Khaled Azab**

Editor-in-Chief

**Ahmed Mansour**

Editors

**Azza Ezzat**

**Sherine Ramadan**

Assisstant Editor

**Amr Ghoniem**

Graphic

**Mohamed Yousri**

---

Views presented in *Abgadiyat* do not necessarily reflect those of the Calligraphy Center

---

# Advisory Board

---

## Advisory Board

---

**Abdulaziz Al-A'raj**

University of Algeria, Algeria

**Abdul Rahman Al-Tayeb Al-Ansary**

King Saud University, Saudi Arabia

**Abdulhalim Nureldin**

Cairo University, Egypt

**Adnan Al-Harthy**

Um Al-Qura University, Saudi Arabia

**Ahmed Amin Selim**

Alexandria University, Egypt

**Anne Marie-Christin**

University of Paris7, France

**Bernard O'kane**

American University, Egypt

**Fayza Heikal**

American University, Egypt

**Frank Kammerzell**

University of Berlin, Germany

**Friedrich Juge**

University of Göttingen, Germany

**Gaballa Ali Gaballa**

Cairo Univeristy, Egypt

**Gunter Dreyer**

Univeristy of New York, USA

**Heike Sternberg**

University of Göttingen, Germany

**Khaled Daoud**

University of Al-Fayyum, Egypt

**Mahmoud Ibrahim Hussaein**

Cairo University, Egypt

**Mamdouh el-Damaty**

Cairo University, Egypt

**Mohamed Abdulghany**

Alexandria University, Egypt

**Mohamed Al-Kahlawy**

Union of Arab Archaeologists, Egypt

**Mohamed Abdalsattar Othman**

South Valley University, Egypt

**Mohamed Hamza**

Cairo University, Egypt

**Mohamed Ibrahim Aly**

Ain Shams University, Egypt

**Mostafa Al-Abady**

Bibliotheca Alexandrina

**Raafat Al-Nabarawy**

Cairo University, Egypt

**Rainer Hannig**

University of Marburg, Germany

**Riyad Morabet**

Tunis University, Tunisia

**Sa'd ibn Abdulaziz Al-Rashed**

King Saud University, Saudi Arabia

**Zahi Hawass**

SCA, Egypt

---

# Contents

---

<b>Guidelines for Contributors</b>	7
<b>Introduction</b> <i>Ahmed Mansour</i>	10
<b>The Cairo Museum Funerary Papyrus of Nes-Pa-Qa-Shuty (JE 95889)</b> <i>Mohamed Ibrahim Aly</i>	13
<b>A Remarkable Stela from the Second Intermediate Period</b> <i>Manal Affara</i>	29
<b>The Serabit el-Khadim Inscriptions Formulaic Approach</b> <i>Ahmed Mansour</i>	42
<b>The Maritime Expeditions of Wadi Gawasis in the Twelfth Dynasty</b> <i>El-Sayed Mahfouz</i>	51
<b>The Seven Gatekeepers, Guardians, and Reporters in <i>The Book of the Two Ways</i> and in P. MMA 35.9.21</b> <i>Eltayeb Sayed Abbas</i>	68
<b>Control of the Military Commanders on the Administrative Title</b>  <i>imy-r k3wt</i> <i>Mohamed Raafat Abbas</i>	76
<b>Book Review</b>	
<b>Reading Maya Glyphs</b> <i>Azza Ezzat</i>	85
<b>Necropoles Memphiticae: Inscriptions from Herakleopolitan Period</b> <i>Sherine Ramadan</i>	88
<b>Geography of Languages</b> <i>Amr Ghoniem</i>	91

---

# Guidelines For Contributors

## Guidelines for Contributors

---

### Initial Submission for Refereeing

The manuscript must be submitted in three copies for refereeing purposes. The Journal of *Abgadiyat* follows the *Chicago Manual of Style*, with some modifications as cited below.

### Final Submission

- 1- The final text (following amendments recommended by the editor or referees) must be provided on disk preferably CD, using MS Word, composed in 14 point font for Arabic and 12 point font for other languages.
- 2- The text should be in hard copy, printed clearly on A4 or standard American paper, on one side only, double-spaced throughout and with ample margins. Please do not justify the right-hand margin.
- 3- Please do not employ multiple typeface styles or sizes.
- 4 The Journal of *Abgadiyat* does not use titles such as Dr, or Prof. in text or notes or for authors.
- 5- Brackets should be all round-shaped, e.g. (.....)
- 6- Use single quotation marks throughout. ‘ ’
- 7- Avoid Arabic diacriticals. Only use in quotes.
- 8- The numbers of dynasties must be spelled out, e.g. ‘Eighteenth Dynasty’ and not ‘18th Dynasty’ or ‘Dynasty 18’. Similarly, numbers of centuries should be spelled out, e.g. ‘fifth century BCE’, ‘second century CE’. BCE and CE should be in capitals.
- 9- The ‘\_’ dash between dates, page references, etc. (1901/02, 133–210) is an en-dash not a hyphen.

### FONTS

Contributors must check with the editor, in advance, if the text employs any non-standard fonts (e.g. transliterations, Hieroglyphics, Greek, Coptic, etc.) and may be asked to supply these on a disk with the text.

### TRANSCRIPTIONS OF ARABIC WORDS

- 1- The initial hamza (◌) is not transcribed: amāna, ka-sura.
- 2- The article (al) should be connected with the word it determines through a hyphen, avoiding what is known in Arabic as ‘solar’ *al*, i.e. it should be written whether pronounced or not: *al-šams*, *al-qamar*.
- 3- No capital letter is given to the article (al) but the word it determines, except at the beginning of a sentence where the article also must have a capital letter: *al-Gabarti*.
- 4- Arabic diacritics are not transcribed: *laylat al qadr*, and not *laylatu l-qadri*.
- 5- The (tā’ marbuta) is written as a, but if followed by genitive it should be written as *al-madina*, *madinat al-Qahira*.
- 6- For transliteration of plural in Arabic words use any of the following options:
  - Arabic singular: *waqf*,
  - Arabic plural: *awqaf*,
  - Arabic singular followed by (s) in Roman letters: *waqf-s*.

## FOOTNOTES

- 1- Citations must be on separate pages appended as endnotes, double-spaced.
- 2- Footnote numbers should be placed above the line (superscript) following punctuation, without brackets.
- 3- The title of the article must not include a footnote reference. If a note is needed for 'acknowledgement' this should be by means of an asterisk (\*) in the title and an asterisked note before the first footnote.

## ABSTRACT

An abstract (maximum 150 words) must be provided. The abstract will be used for indexing and information retrieval. The abstract is a stand alone piece and not part of the main body of the article.

## ABBREVIATIONS

- Concerning periodicals and series, abbreviations should follow those in Bernard Mathieu, *Abréviations des périodiques et collections en usage à l'IFAO*, 4<sup>ème</sup> éd. (Cairo, 2003). Available online at [www.ifao.egnet.net](http://www.ifao.egnet.net). Ad hoc abbreviations, after complete full reference, may be used for titles cited frequently in individual articles.
- Accepted forms of standard reference works may also be applied. Porter and Moss, *Topographical Bibliography*, should be cited as PM (not italicized).

**CITATIONS** should take the form of:

### *Article in a journal*

J.D. Ray, 'The Voice of Authority: Papyrus Leiden I 382', *JEA* 85 (1999), 190.

- Cite subsequently as: Ray, *JEA* 85, 190.

### *Article or chapter in a multi-author book*

I. Mathieson, 'Magnetometer Surveys on Kiln Sites at Amarna', in B.J. Kemp (ed.), *Amarna Reports*

VI, *EES Occasional Publications* 10 (London, 1995), 218-220.

- Cite subsequently as: Mathieson, in Kemp (ed.), *Amarna Reports* VI, 218-220.

A.B. Lloyd, 'The Late Period, 664-323 BC' in B.G. Trigger, B.J. Kemp, D. O'Connor and A.B. Lloyd, *Ancient Egypt. A Social History* (Cambridge, 1983), 279-346.

- Cite subsequently as: Lloyd, in Trigger, *et al.*, *Ancient Egypt. A Social History*, 279-346.

### *Monographs*

E. Strouhal, *Life in Ancient Egypt* (Cambridge, 1992), 35-38.

- Cite subsequently as: Strouhal, *Life in Ancient Egypt*, 35-38.

D.M. Bailey, *Excavations at el-Ashmunein, V. Pottery, Lamps and Glass of the Late Roman and Early Arab periods* (London, 1998), 140.

- Cite subsequently as: Bailey, *Excavations at el-Ashmunein, V.* 140.

### *Series publication*

W.M.F. Petrie, *Hyksos and Israelite Cities*, *BSAE* 12 (London, 1906), 37, pl.38.A, no.26.

- Cite subsequently as: Petrie, *Hyksos and Israelite Cities*, 37, pl. 38.A, no. 26.

### *Dissertations*

Josef W. Wegner, *The Mortuary Complex of Senwosret III: A Study of Middle Kingdom State Activity and the Cult of Osiris at Abydos* (PhD diss., University of Pennsylvania, 1996), 45-55.

- Cite subsequently as: Wegner, *The Mortuary Complex of Senwosret III*, 45-55.

## ELECTRONIC MEDIA

- Cite preferentially to a hard-copy edition of material posted on a website. If material is available solely in electronic form, provide sufficient information to enable users to correctly access the sources. However, a citation

such as [www.mfa.org/artemis/fullrecord.asp?oid=36525&did=200](http://www.mfa.org/artemis/fullrecord.asp?oid=36525&did=200). might be more elegantly, if less directly, expressed textually: See, for example, acc. 19.162, illustrated at [www.mfa.org/artemis](http://www.mfa.org/artemis). The <http://> protocol may be omitted in citations to sources posted on the World Wide Web (e.g., [www.mfa.org/giza](http://www.mfa.org/giza), rather than <http://www.mfa.org/giza>); it should be retained in other instances (e.g., <http://aaupnet.org>; or <http://w3.arizona.edu/~egypt/>)

- For citations to electronic journals, CD-ROM, and similar media, see the relevant chapter in *the Chicago Manual of Style*.
- Authors' initials and publication details, including full article title and/or series name and volume number should be provided in the first citation; surname alone, and an abbreviated title should be used subsequently. The use of *ibid*, *op. cit.* and *loc. cit.* should be avoided. Precise page references should be given.

## PHOTOGRAPHS

- These should be scanned at 300 dpi for reproduction at the same size. The images should be saved as CMYK TIFF files (JPEGs are rarely adequate).
- Illustrations and graphics should not exceed 30% of the text.
- All image files must be submitted on a CD. Please do not e-mail images to the editors without prior consultation.

## CAPTIONS

- For figures, appropriate credit should be provided, double-spaced, on a separate sheet, and in electronic form on the CD with the final version of the article.

## COPYRIGHT

- Responsibility for obtaining permission to use copyright material rests with the author. This includes photocopies of previously-published material.
- Submitted research papers and articles will not be returned to authors whether published or not.
- A brief Curriculum Vitae (CV) should be submitted together with the research paper.

**Please visit the *Abgadiyat* journal web page:**

<http://www.bibalex.com/calligraphycenter/abgadiyat/static/home.aspx>



---

# Introduction

---

During the past five years, the *Abgadiyat* journal has appeared in order to bridge the existing gap in the fields of writings and scripts studies. This gap was not on the local level only, but as well as on the regional level; wherein there was no practical or precise journal concerning the affairs of writings and scripts in the world across the ages. *Abgadiyat* carries the most important goals of the Center for Studies of Writings and Scripts, including the increase of the number of rare specialists among writings and inscriptions that need to be studied and to spreading the consciousness of writings and inscriptions on the level among the non-specialists. Perhaps, this is the main reason for considering the Delegation of Antiquities in the High Council for Universities for *Abgadiyat* as a regional journal.

This issue, specifically, is considered one of the most important issues why *Abgadiyat* is published, and we are greatly pleased — as a team working on the revision of the Journal — when a number of researchers competing in publishing their research within issues in the Journal; where the team revising the Journal came across a number of research from different countries and from all universities. As a result, we helped in upgrading the scientific level of *Abgadiyat*.

Also among the fundamentals that *Abgadiyat* emphasizes is the support of young researchers to publish their research in the Journal. It is known to all that one of the goals of the Bibliotheca Alexandrina is to encourage and support young researchers in all research and practical fields. Thus, the Journal has received research investigations from a number of young researchers, who are hoped to meet the criteria, after the Council of Practical Specialized Ruling has approved their research and recommend their research with the ability, quality and readiness for publishing.

Following the research of the Journal, he finds a great diversity in the research topics that the Journal displays. Despite everything, it carries one goal, the interest in inscriptions and writings; displayed is research dealing with different perspectives. These perspectives include research from the linguistic, historical, and artistic perspectives; leading to a balance to all the axes of practical research.

The sixth issue of *Abgadiyat* overflows with a group of valuable research concerning inscription of the ancient Egyptian language; whether they were found in the Sarabeet al-Khadem, Wadi al-Hammamat or Wadi al-Jawasis areas, or those that date to the second era of transition, or concern administrative nicknames in ancient Egypt, or what some papyri dealt with in writing about the afterlife according to Ancient Egypt, or the efforts of some researchers in the field of the ancient Egyptian language, such as Professor Ahmed Kamal Pasha and his linguistic dictionary concerning the writings from the Coptic age that were dealt with from the artistic perspective stating the shape of icons, from the historical perspective stating the first Copts who wrote in Arabic, and concerning the writings in the Islamic age which dealt with the writings on homes in Damascus during the

Ottoman Era, and inscriptions on rare Islamic coins and writing compositions, such as the royal monogram in the Modern Age, and inscriptions on some mosques.

From here, we can state that this issue might grant the opportunity for young researchers to publish their research, and present a serious, practical study to continue the path the Center of Writings and Scripts had begun nine years ago.

**Ahmed Mansour**

Deputy Director of Calligraphy Center  
Bibliotheca Alexandrina

# The Serabit el-Khadim Inscriptions

## Formulaic Approach

### نقوش سراييط الخادم: دراسة في الصيغ النصية

Ahmed Mansour

#### ملخص:

يمتاز معبد حتحور على هضبة سراييط الخادم بجنوب سيناء بمجموعة فريدة من النصوص الهيروغليفية التي تعود إلى فترة الدولة القديمة، والدولة الوسطى، والدولة الحديثة. وقد سُجِّلت هذه النصوص على لوحات حجرية تقف منفردة، أو على جدران المعبد، والذي لم يتبق منه الكثير. ولما كانت المساحة المخصصة لتدوين النصوص غير كافية بما يسمح بتدوين كافة تفاصيل البعثات التعدينية، إلى جانب تسجيل النقوش الدينية المتعارف عليها في معابد الآلهة. لجأ المصري القديم في تدوين نصوصه إلى استخدام الصيغ المهمة، والمتعارف عليها في مثل هذا النوع من المعابد الإلهية في مناطق التعدين. تُعدُّ هذه الورقة البحثية أهم الصيغ النصية التي أوردها الكاتب المصري القديم في نقوش سراييط الخادم، وأهمية ورود تلك الصيغ على لوحات المعبد أو جدرانه، بالإضافة إلى دراسة تحليلية. كذلك يشير البحث إلى أهمية حتحور كربة للفيروز من خلال تكرار اسمها في كل النصوص التي وردت خلال هذا البحث. أخيراً ينتهي البحث بمجموعة من النتائج المفيدة للباحثين.

The earliest settlements in ancient Egypt prove predynastic mining activities in different parts of Egypt: the Western Desert, Eastern Desert (the most exploited) Nubia, and Sinai, providing the raw materials that were necessary for the development of the ancient Egyptian society<sup>1</sup>. In addition, during the Protodynastic Period, the metallurgy was developed in ancient Egypt, in parallel with unification of Upper and Lower Egypt. The ancient Egyptians were able to practice the art of metallurgy, since they were competent in separating metals from their ores, and preparing them for use by smelting or refining. The texts reveal an ancient Egyptian knowledge of stones and gems, or indicate the exact location of quarries and mines. For example, the tombs of the First and Second Dynasties attest this ability, which could explain the superiority and lead of the ancient Egyptians over the other Near East peoples, such as the Sumerians and their successors.<sup>2</sup>

In Ancient Egypt, one of the writing functions was to inscribe on monuments in order to provide the name of the owner of this monument, or to specify the subject represented (dedication, praising, offering, etc). When applied these functions on Serabit el-Khadim inscriptions, it is probable to divide the inscriptions into three main classes:

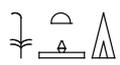
- 1- Mine inscriptions which are inscribed on rock, at or near the entrance to mines. These inscriptions are commemorative inscriptions.
- 2- Inscriptions on the temple fabric, which are the votive or devotional inscriptions.
- 3- Inscriptions inscribed on free-standing stelae, which are divided into two types:
  - a) Commemorative stelae.
  - b) Votive stelae.

The stelae were erected as tombstone and as boundary markers. Moreover, they served as votive

and commemorative monuments.<sup>3</sup> Therefore, the function of the stela determined the place where it should be erected. In temples and sanctuaries, it was erected inside it by individuals to worship the gods, besides commemorating special events, such as successful expeditions to the mines and quarries, or a new gallery opening, etc.

The commemorative stelae were set up in temples by kings, noblemen or high ranked officials to bear witness to successful military campaign, or mining expedition, royal building activities, dynastic marriages, and other officials' events. Therefore, the stela was the most suitable monument to be erected in Hathor temple, and special types of texts were composed. Thus, the inscriptions on the Hathor stelae tend to be brief and formulaic.<sup>4</sup>

The inscriptions of Serabit el-Khadim include about 26 inscriptions from the Old Kingdom, about 106 inscriptions from the Middle Kingdom, and 85 inscriptions from the New Kingdom. This large number of inscriptions was formulated in the traditional form with some variations. For example, the texts consisted in formulaic epithets extolling the expeditions' leader capabilities with a narrative of his achievements. In the meantime, the irregularity of Serabit el-Khadim inscriptions lies in the extent to which the personal names of officials have been allowed to appear in these inscriptions, consequently, the expedition leaders felt supreme in Sinai, beside the use of common formulas in composing Serabit el-Khadim inscriptions. In this paper I will shed light on the most frequent formulas used in composing Serabit el-Khadim inscriptions.

**1. The formula**  *Htp di nsw* 'An offering that the king gives'

Given the importance of the offering formula, it is not surprising to see it on the monuments dedicated to different divinities in Serabit el-Khadim plateau. Taking into consideration that Hathor temple at



### c) The designation of the recipient

The *hṭp di nsw* formula is an offering formula that was recited in order to safeguard against the cessation of substances within the tomb of the deceased, and to ensure a continual supply of food after death. In Serabit el-Khadim inscriptions, the situation is different. The owners, who dedicated the stelae to Hathor, existed during the time of dedication. In addition, the stelae, on which the *hṭp di nsw* formula was inscribed, were not erected within a tomb, but erected inside Hathor temple, which is a divine temple and not a funerary one. Moreover, the ancient Egyptian scribe used the same protocol to designate the recipient as a deceased, a fact that could be proved by the phrase *n k3 n*. Bennett states that: ‘In fact, in the Eleventh Dynasty and usually in the reign of Senusert I the deceased is designated , etc. ‘honored one’. By the time of Amenemhat II is placed in front making it ‘the spirit of the honored one’. Finally, during the reign of Senusert III, the older designation drops out leaving ‘The spirit of’.)<sup>11</sup> (IS401, IS230, IS121, IS122 EF, IS103 WF, IS156). However, this need not imply a funerary prayer because it occurs in other inscriptions which request ‘life benefits’.<sup>12</sup> In my opinion, the miners seized the opportunity, and dedicated a stela with the same offering formulas in order to receive the benefit after death, even if this stela was erected in a divine temple. Worth mentioning that some inscriptions did not include the *n k3 n*, as in IS93 (W face), IS112 (N and S Edge), IS122 (offering table), IS166, IS230, IS233, and IS308. The formula was as follows: ‘An offering which the king gives to God X, that he may give an offering to the X (owner titles)’. Although the owners were ascribed by ‘*m3<sup>c</sup> hrw*’, they were, in fact, alive during erection of these stelae. This same formula was cited on the Middle

Kingdom commemorative stelae in order not to be neglected by the divinities after death.

### d) The writing of *hṭp di nsw* formula

There are two common horizontal writings of *hṭp di nsw* formula:<sup>13</sup>

- or , with as the third word in the group.
- , with as the second word in the group.

In Serabit el-Khadim inscriptions the *hṭp di nsw* formula appeared in the two writing forms:

- The writing (a) appeared, for example, in IS84, IS93, IS94 (fragment c), IS103, IS112 (N Edge), IS114, IS118, IS121, IS122 (offering table), IS122 (EF), IS166, and IS408.
- The writing (b) appeared, for example, in IS235, IS401, IS421 and IS423.

However, there are some instances where the *hṭp di nsw* formula was written without the verb *di*. IS96 and IS93 (S Edge) did not contain the verb *di* among the traditional elements of *hṭp di nsw* formula, albeit the space was available for the scribe to write it. If it were written, the form should pertain to the type (a).

One final note concerning the writing of *hṭp di nsw* formula, Smither mentioned that ‘the writing (b) of the *hṭp di nsw* formula was introduced into *horizontal* inscriptions during the Second Intermediate Period, and probably towards the end of that period, as no certain examples as early as the Thirteenth Dynasty have yet come to light’.<sup>14</sup> Contrary, the writing (b) had appeared in IS421, which is dated to the Middle Kingdom.<sup>15</sup> Using the same criteria as Smither,



*Nsw bity ir.n.f m mnw.f n it.f* God X or *Nswt bity ir.n.f m mnw.f n* God X.

King of Lower and Upper Egypt, he made monuments for his father god X, or (for his father).

On the other hand, the verb *rdi* was coordinated with *mnw* in the context of the dedication formula. The IS131 mentions the formula as following: *di.f m mnw.f n Hwt-Hr nbt mfk3t*,<sup>23</sup> he gave monuments to Hathor, lady of turquoise which ignores an extensive list between *di* and *m mnw.f*.<sup>24</sup>

**4. The formula**

  
*ḏww hr sšmt r ntt im n Nswt bity Ny-M3t-Rc s'nh dt di.sn n.f st hr* ‘The hills lead to that which is in them, they bring to light what is within them.’

It repeats commonly in Serabit el-Khadim inscriptions, where it occurs in IS53, IS106, IS110, Is114, 124B, IS137 (W.F.), IS146 (South edge), IS196, and IS413.<sup>25</sup>

**Composition**

Generally, this formula demonstrates the sentiments and wishes expressed by the expedition members to easily find what they search for. In Ancient Egypt, the extraction of metals was considered a divine delivery or donation. For example, Hathor addresses her speech to the king ‘I (Hathor) give you the two cliffs which give you the divine minerals, as it is the most marvelous thing to see’.<sup>26</sup> Therefore, the divinities, assisted this extraction in order to be purified, fed, and protected against the bad and evil things. Also, to be conveyed some sort of joy, even through the minerals offering or by some products made of these minerals, that recall their colors.

(Aufrière 1991, 20). These joys were related with some stones (*hb*, *hkn*, *mfk*, *hsbd*, *thn*). Besides, these minerals have a purification role, even by the immersing in water, which flows from the divinities statue; or by fumigation constituting a pleasant perfume to the gods. These minerals could play either a defensive role (the green and blue stones) or an offensive role (the red stones).<sup>27</sup> This leads us to shed light on the commemorative formula concerned with the opening of the gallery.

**The commemorative formula**

  
*htt nhbt n rh nsw m3c mry.f hs(y).f* ‘A gallery X opened by the true royal acquaintance, beloved of his praise’

This formula commemorates the opening of a new gallery, where those mining activities will be included. This formula occurs in Serabit el-Khadim in IS47, IS48, IS49, IS51, and IS56. However, before moving to the opening process, the expedition should get the permission of the divinity dominating the region, *i.e.* Hathor. This permission or excuse could be obtained by retroceding the mined minerals, or praising the divinity, or performing a special cult celebrating the opening ceremony.<sup>28</sup>

**The formula  *i nhw* ‘O Living’**

The *i nhw* ‘O Living’ formula is a development for the potency of the verbal word in the funerary ritual. The deceased was, somehow, doubtful to receive all the offerings he needed, therefore he could appeal to a passerby to recite the formula for him. A typical example of such an appeal reads:

  
*i nhw iit.sn r st tn ph.tn m htp d h3 m t hnk t k3w 3pdw ss* ‘O you who live



The inscriptions devoted to Hathor at Serabit el-Khadim are formulaic. They described her as overseer of mining activities, ensuring the safe return home of an expedition, and the successful opening of a mine.<sup>35</sup> (IS28), 79-80 (IS53), 90-91 (IS83).

Formula	Translation	IS No.
<i>Htp di nsw</i>	'An offering that the king gives'	Writing (a) IS84, IS93, IS94 (fragment c), IS103, IS112 (N Edge), IS114, IS118, IS121, IS122 (offering table), IS122 (EF), IS166, and IS408.  Writing (b) IS235, IS401, IS421 and 423
<i>dit i3w n k3</i>	'Offering praises and prayers for the k3 of'	IS114, IS136, IS247, IS250, IS259, IS303
<i>ir.n.f m mn it.f</i>	'What he made as his monuments for his (father)'	IS67, IS89, IS95, IS116, IS123, IS128, IS131, IS200, IS210, IS277 (WF), IS314
<i>ḏww ḥr sšmt r ntt im n nswt bity ny m3t Rᶜ sᶜnh ḏt di.sn n.f st ḥr st-ḥr.f m ddw n.f it.f Tn / ḏww ḥr sšmt r ntt im šḏ.sn imnt imyt.sn ḏww ḥ3swt ḥr 3wt.sn</i>	'The hills lead to that which is in them, they bring to light what is within them'	IS53, IS106, IS110, Is114, 124B, IS137 (WF), IS146 (South edge), IS196, IS413
<i>ḥtt nhbt n rh nsw</i>	'A gallery X opened up by the true royal acquaintance'	IS47, IS48, IS49, IS51, IS56
<i>i ᶜnhw</i>	'O Living'	IS53, IS106, IS118, IS136, IS142, IS167, IS169, IS401, IS409.
<i>m3ᶜ ḥm n ntr pn (title) r int 3t špst n ḥm.f</i>	'The majesty of this god sent the X to bring precious stone for his majesty'.	IS86, IS90, IS116, IS141, IS246

## Notes

- WF = West Face.  
EF = East Face.  
IS = Gardiner, *et al.*, *The Inscriptions of Sinai II* Vols. (London, 1955).
- 1 J. Vercoutter, 'Les Minéraux dans la Naissance des Civilisations de la Vallée du Nil', in P. Der Manuelian (ed.) *Studies in Honor of William Kelly Simpson*, Vol. 2 (Boston, 1996), 811.
  - 2 R. Forbes, *Studies in Ancient Technology*, Vol. VII (Leiden, 1996), 106.
  - 3 R. Hözl, 'Stelae', in D. Redford (ed.), *The Oxford Encyclopedia of Ancient Egypt*, Vol. 3 (Oxford, 2001), 319.
  - 4 G. Pinch, *Votive Offerings to Hathor* (Oxford, 1993), 98.
  - 5 D. Franke, 'Middle Kingdom Offering Formulas', *JEA* 89 (2003), 53.
  - 6 Franke, *JEA* 89, 49.
  - 7 J. Leprohon, 'Offering Formula and Lists', in D. Redford (ed.), *The Oxford Encyclopedia of Ancient Egypt*, Vol. 2 (Oxford, 2001), 570.
  - 8 A. Gardiner, *et al.*, *The Inscriptions of Sinai II* (London, 1955), 172; Pinch, *Votive Offerings to Hathor*, 99.
  - 9 Pinch, *Votive Offerings to Hathor*, 99.
  - 10 S. Mahfouz, 'A-t-il existé une voie de communication entre le Ouadi Gaouasis et les sites miniers du Sud Sinäi?', *Abgadiyat* 3 (2008), 48-50.
  - 11 Franke, *JEA* 89, 54; J. Bennett, 'Growth of the *hṫp di nsw* formula in the Middle Kingdom', *JEA* 27 (1941), 79.
  - 12 Pinch, *Votive Offerings to Hathor*, 100.
  - 13 P. Vernus 'Sur les graphies de la formule "L'offrande que donne le roi" au moyen empire et la deuxième période intermédiaire', in S. Quirke (ed.) *Middle Kingdom Studies* (1991), 141.
  - 14 P.C. Smither, 'The Writing of *hṫp di nsw* in the Middle and New Kingdoms', *JEA* 25 (1939), No. 1, 37.
  - 15 Vernus Quirke (ed.) *Middle Kingdom Studies*, 151.
  - 16 Smither, *JEA* 25, 34.
  - 17 Vernus Quirke (ed.) *Middle Kingdom Studies*, 151.
  - 18 Bennett, *JEA* 27, 77.
  - 19 S. Tawfik, 'ir.en.ef em menu.ef als Weihformel: Gebrauch und Bedeutung', *MDAIK* 27 (1971), 227-234.
  - 20 Redford (ed.), *The Oxford Encyclopedia of Ancient Egypt*, Vol. 1.
  - 21 E.W. Castle, 'The Dedication Formula *ir.n.f m mnw.f*', *JEA* 79 (1993), 120.
  - 22 Castle, *JEA* 79, 120.
  - 23 Gardiner, *et al.*, *The Inscriptions of Sinai II*, 128.
  - 24 Castle, *JEA* 79, 108.
  - 25 K.J. Seyfried, 'Beiträge zu den Expeditionen des Mittleren Reiches in die Ost-Wüste, Hildesheimer Aegyptologische Beiträge', *HAB* 15 (1981), 238.
  - 26 S. Aufrère, 'L'univers minéral dans la pensée égyptienne', *BdE* 105 (Cairo, 1991), 13.
  - 27 Aufrère, *BdE* 105, 22.
  - 28 Aufrère, *BdE* 105, 59.
  - 29 Leprohon, in Redford (ed.), *The Oxford Encyclopedia of Ancient Egypt*, Vol. 2, 571; R. Giveon, 'Investigation in the Egyptian mining centre in Sinai', *Tel Aviv* 1 (1974), 105.
  - 30 Leprohon, in Redford (ed.), *The Oxford Encyclopedia of Ancient Egypt*, Vol. 2, 571
  - 31 Gardiner, *et al.*, *The Inscriptions of Sinai II*, 204.
  - 32 S. Greenblatt, *Renaissance Self-fashioning from More to Shakespeare* (Chicago, 1980), 4-5.
  - 33 Seyfried, *HAB* 15, 221.
  - 34 Gardiner, *et al.*, *The Inscriptions of Sinai II*, 97, 140.
  - 35 Gardiner, *et al.*, *The Inscriptions of Sinai II*, 39, 69.