JOURNAL

OF THE

ASIATIC SOCIETY OF BENGAL,

Part I-HISTORY, LITERATURE, &c.

Extra-Number 1.-1901.

CONTENTS.

				Page	ε
A collection of Antiquitie RUDOLF HOERNLE, C mile Plates (issued	, I.E., Рн.D., Tü	BINGEN.	With 13	Facsi-	
Woodcuts.]	•••	•••	•••	•••	İ

CINERARY URN

FROM YOTKAN, A VILLAGE OF THE BORAZĀN TRACT, NEAR KHOTAN.

(Restored.)



ORIGINAL SIZE, ABOUT 11 x 13".

A REPORT

ON THE

BRITISH COLLECTION OF ANTIQUITIES

FROM

CENTRAL ASIA

WITH

THIRTEEN FACSIMILE PLATES, THREE TABLES

AND

SIX WOODCUTS

PART II

BY

A. F. RUDOLF HOERNLE, C.I.E., Ph.D. (TÜBINGEN).

Extra-Number 1 to the Journal of the Asiatic Society of Bengal, Vol. LXX, Part I, 1901

CALCUTTA:

PRINTED AT THE BAPTIST MISSION PRESS. 1902.

CONTENTS.

						Page
INTRODUCTORY 1	•••	•••	,		1	
SECTION III	lanuscript	B	•••	•••	•••	6
	I. Group	•••	•••	•••	•••	ib.
	(a) Ss	nskrit		***	•••	16
	(b) U	nknown Lang	gnage		•••	18
1	I. Group	•••	•	•••	•••	21
	(a) Ch	inese	•••	•••		21
	(b) Pe	rsian	•••	•••	•••	26
	(c) Ui	igur (?)	•••	•••	•••	29
	(d) B	rāhmī	•••	•••	•••	30
SECTION IV 1	Pottery, Te	rracottas, M	scellaneous	Objects	•••	42
APPENDIX TO P	ART II7	ranscript of	Weber M	S., Part I	X, and Mac	artnev
MS., Set I,	with two	Indexes	•••	•••	•••	1
SUPPLEMENT TO			•••	•••	•••	1
ERRATA IN PAR	т І	•••	•••	•••		7

LIST OF ILLUSTRATIONS.

```
Plate I. Manuscript Codices (fabricated).
```

Plate II. Manuscript Books (Pothis).

Plate III. Manuscript Documents (Chinese).

Plate IV. Manuscript Documents (Chinese).

Plate V. Manuscript Documents (Persian, Uigur).

Plate VI. Manuscript Documents (Brāhmī).

Plate VII. Manuscript Documents (Brāhmī).

Plate VIII. Fragments of Pottery.

Plate IX. Fragments of Pottery.

Plate X. Terracotta Figures.

Plate XI. Terracotta Figures.

Plate XII. Graeco-Buddhist Art Objects.

Plate XIII. Miscellaneous Objects.

Table I. Formula of Blockprint, Set IV.

Table II. Comparative Table of Gupta Letters.

Table III. Alphabet of Brāhmi Documents.

Woodcut, No. 1 on page 4.

" No. 2 " 22.

" No. 3 " 36.

" No. 4 " 42.

, No. 5 ,, 43.

No. 6 ,, l of Appendix.

Frontispiece. Cinerary urn from Yotkan, a village of the Borazān Tract, near Khotan.

JOURNAL

OF THE

ASIATIC SOCIETY OF BENGAL

Part I-HISTORY, LITERATURE, &c.

Extra-Number 1.-1901.

A Report on the British Collection of Antiquities from Central Asia.—By
A. F. RUDOLF HOERNLE, C.I.E., Ph.D.

(With 3 Tables and 13 Plates.)

INTRODUCTORY REMARKS.

The Second Part of my Report deals with the manuscripts, pottery, terracottas, and other miscellaneous objects of the British Collection. When the First Part, treating of the coins and block-prints was issued early in 1899, the question of forgery was still an open one. In the concluding remarks of my Introduction (p. xxxii) I pointed out how desirable it was that it should be investigated on the spot by an European explorer. Dr. Stein's archæological expedition to Eastern Turkestan was at that time already being organised; and the Second Part of this Report has purposely been delayed in order to profit by the results of his investigations. His tour has now been brought to a successful conclusion. A full account of its results will have to be looked for in Dr. Stein's own report. But the communications which I received from him, partly by letters written in the course of his travels and partly verbally since his return from Turkestan in July, 1901, enable me, with his concurrence, to indicate here briefly some of the results so far as they have a direct

bearing on the question of the genuineness of the objects comprised in the British Collection.¹

By means of his own explorations of ancient sites in the Khotan region, and by his local enquiries, Dr. Stein has obtained definite proof that all "blockprints" and all the manuscripts in "unknown characters" procured from Khotan since 1895 are modern fabrications of Islām Akhūn and a few others working with him. The fact of these blockprints and manuscripts being modern forgeries was first established by independent evidence, and subsequently received confirmation by the full confession which the forger himself, in April last, made to Dr. Stein. Islām Ākhūn, on the same occasion, furnished detailed information as to the methods and means employed in preparing his forgeries.

Of these manuscripts in "unknown characters" it has now become unnecessary to publish detailed descriptions. Those whom it may interest may see specimen pages of two such codices, published in Plate 8 of M. D. Klementz's report on the Russian Expedition to Turfan.³ Several codices of that class are in the British collection. Other specimens of fabricated manuscripts may be seen in Plates XI-XX which accompany my paper on "Three Further Collections of Ancient Manuscripts from Central Asia" in the Journal of the Asiatic Society of Bengal, Vol. LXVI (1897).

* Islām Ākhūn's account of the places where the finds are said to have been made is an invention. These places (see Introduction, pp. xvi-xxii) either do not exist, or exhibit physical conditions in which the survival of ancient manuscripts appears highly improbable.* As to Aq Sapil, I believe that the interpretation of the present appearance of the place in the letter quoted on pp. xiv-xvi cannot be sustained. On the other hand, Dandan Uiliq is the genuine site of an ancient sand-buried settlement. It is very probable that many of the genuine manuscripts comprised in the Collection were originally obtained from there. For * Dr. Stein, in the course of the explorations of which a brief preliminary account has been given by him in the Journal of the Royal Asiatic Society, for April, 1901,3 excavated there a considerable number of manuscripts of a very similar description, all written either in Brāhmī or Chinese characters.*

As regards the coins and seals, shown in Plates I-III of the First Part of this Report, as well as the objects shown in Plate XIX, there is

¹ Statements based on Dr. Stein's communications and embodied in these Introductory Remarks are enclosed between asterisks.

² In Nachrichten über die von der kaiserlichen Akadamie der Wissenschaften zu St. Petersburg im Jahre 1898 ausgerüstete Expedition nach Turfan. Heft I.

⁸ In Art. XII, Archæological Work about Khotan.

no reason to doubt their genuineness. This also applies to the objects shown in Plate IV, except No. 1 and Nos. 3-11, which were used in the binding of blockprints, and for that reason are of a questionable character. Among the objects shown in Plate XIX are numerous miniature terracotta figures. Others of a similar kind, but of larger size, are shown in Plates X and XI accompanying this Part of the Report. These as well as the fragments of pottery now described and figured are genuine. They were all obtained from the ancient site hitherto designated as "Borazan" (Introd., pp. xii-xiv), but the real name of which, as Dr. Stein has shown, is "Yōtkan, a village of the Borazān tract." Some details as to the conditions in which antiques have been preserved at that site, will be found recorded in his preliminary account already quoted.

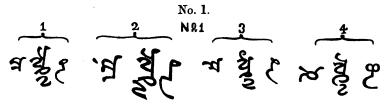
It may be noted here that an attempt indeed was made to fabricate also entire pieces of pottery. The result, however, was too grotesque to deceive. Early in 1898 I received the photographs of two complete jars, the fabrication of which there was no difficulty in detecting when compared with genuine fragments. From some of the latter, shown in Plate VIII, the "Funeral jar" which forms the frontispiece of Part I, is reconstructed.

- * Respecting the objects in metal, stone, or wood, while some prove themselves by their appearance to be undoubted products of the ancient Buddhist civilization of Eastern Turkestan, in the case of others their age and provenance is quite uncertain. Objects of this kind collect in the bazars of Khotan and other towns in Eastern Turkestan, and the statements of the Natives regarding them are quite unreliable.* To this category belong the two horsemen referred to on page xx of the Introduction, and equally uncertain is the age and provenance of the skull there mentioned.
- * There is good reason to believe that certain wood carvings, among them the box purchased at Khotan by Captain Deasy and published in the Journal of the Royal Asiatic Society for April, 1900, have to be added to the list of articles from Islām Ākhūn's factory.* A curious resemblance, however, may be noted, of the figures carved on the box, to some mud and metal figures, shown in Plate XIII, Nos. 11-13, the genuineness of which there seems no reason to question. Assuming the spuriousness of the box, such genuine figures may have served the carver as models.
- * The fabrication of manuscripts seems to have commenced early in 1895. After about two years it was abandoned in favour of the casier method of manufacturing blockprints. The forged manuscripts

⁴ Iu Art. XIV, On an ancient blockprint from Khotan.

are distinguished from the genuine finds not only by their "unknown characters," but also by their paper, which is modern in substance, and in colour and condition shows evidence of having been artificially manipulated.* The fabricated manuscript books are distinguished also by their peculiar binding after the manner of Codices, like the blockprints. All the genuine manuscript books of the Collection observe the form of the Indian *Pothi*; and all the genuine scripts belong to known types, such as Brāhmī, Kharosthī, Chinese, Uigur, Persian. All these are represented in our Collection of manuscripts and coins.

The earliest fabrications of manuscripts were evidently executed with much care and ingenuity. Genuine manuscripts seem to have been imitated: otherwise it is impossible to explain the production of manuscripts which could deceive the eye of expert scholars by their resemblance to Pahlavī or Brāhmī.⁵ In four of the earliest manuscripts, Brāhmi letters and letter-groups are imitated, greatly resembling those which are seen in Pothi No. I of Set II (see p. 18). The subjoined Woodcut shows facsimiles of the word ma-lkye-r as imitated from the Pothi in which it occurs very frequently.



No. 1 is taken from the Pothi, Nos. 2 and 3 from two of the four fabricated Codices above referred to, and No. 4 occurs in the formula of the IVth Set of Blockprints (see Part I, p. 85 and Plate XII). It was the latter formula which furnished me with the first distinct evidence of fabrication. This formula, as it stands in the blockprints, appears to be written in a species of "unknown character." Comparing it, early in 1901, with the Brāhmi writing in the Codices, it suggested itself to me to examine the formula in a mirror, when it became at once apparent that it was written in precisely the same character as the codices, only the writing was reversed in print. In Table I the formula is shown in

⁵ Thus, Dr. E. West who very kindly examined a manuscript book of 56 leaves (7½×5¾") which seemed to imitate Pahlavī writing, writes to me (July, 1901): "I find that the Pahlavi words I have collected form one-twelfth of your large MS., contain 13, out of 15, Pahlavi letters, and represent 27 out of the 33 known Pahlavi sounds. So that a twefth part of the MS. has supplied five-sixths of the Pahlavi alphabet and sounds. But it has not supplied a single intelligible clause of a sentence."

Journal, As. Soc. Beng., Extra-Number, 1901.

1. As PRINTED.

FORMULA OF BLOCK-PRINT NO. IV.

both positions. It was now obvious that whoever prepared the block, wrote the text on it in vertical lines in the ordinary position, and engraved it in that position, oblivious of the fact that as a consequence, in printing off the block the text would come out reversed and be illegible. Such carelessness would hardly have occurred to one who understood the script and its language. The same conclusion is suggested by the inexplicable separation of the elements of the word ma-lkne-r which are found as Nos. 43, 48 and 51 in the fourth line. Moreover most of the letters of the formula have no resemblance whatever to Brāhmī characters. The written codices which were the first products of Islam Akhūn's workshop were done with far greater care, and though also largely interspersed with "unknown characters" might have continued to suggest genuineness, if the fraud had not been definitely exposed through the personal investigations of Dr. Stein, to whom finally Islām Ākhūn made a full confession. In Plate I, No. 1, is shown one of the most curious specimens of an early fabricated codex. It is that which was contained in the bag said to have been dug out with the skull resting upon it (Introd., p. xx). The leaves are cut in the shape of a roundbottomed, narrow-necked bottle, with a long pendant lip. They are held together by a small tubular copper-peg which passes through the neck. The leaf shown in the Plate is the last of the inscribed leaves of the codex. The word malkner is seen in the middle of the second line. A very nearly corresponding version of the text occurs on the final inscribed leaves of other two codices which are also shown in Plate I, Nos. 2 and 3, and where the word malkger appears in a corresponding place in the second line. Specimen pages of the two latter codices are also shown in Plate XVIII, XIX and XX of the Journal of the Asiatic Society of Bengal, Vol. LXVI (1897). Another version of the same text stands on a leaf of the codex shown ibidem, Plate XVII. Here the word malkner occurs, e.g., on the page marked "II. Obverse," in the middle of the bottom-line.

3

SECTION III.—MANUSCRIPTS.

The manuscripts, comprised in the British Collection, fall into two groups, which may conveniently be distinguished as Pothis, or books done up in the Indian fashion, and Documents consisting of single sheets.

FIRST GROUP. POTHIS.

Altogether there are thirteen Pothis in the Collection. None of them is complete, and of most of them no more than a few leaves or fragments of leaves exist. The only exceptions are Nos. 1 and 2 of Set I and No. 1 of Set II, of which 25, 17, 17 leaves respectively survive. These three Pothis belong to the Macartney MSS. They, as well as some other Pothis belonging to the Godfrey MSS., have been already described by me in the Journal of the Asiatic Society of Bengal, Vol. LXVI for 1897; but for the sake of completeness and some additional information, since obtained, they will be here briefly re-described.

Three of the Pothis, viz., the Macartney MSS., Nos. 1 and 2 of Set I and No. 1 of Set II, are said to have been Findplace. found in the identical Stupa near Kuchar in which also the Bower MSS. and the Weber MSS. were discovered. Their discovery has been related in the Introduction, pp. x-xii. In corroboration of the existence of a possible deposit chamber from which they were dug out, I may now add that, as Dr. Stein informs me in a letter, written from Yarkand (24th September 1900), he found, about 20 miles N.-E. of Kāshghar, in a place called Khānnui, a "remarkably well preserved Stūpa with its Vihāra," in which "a cutting made a long time ago had laid bare a square chamber and shaft inside." Native testimony, however, as Dr. Stein has since verbally explained to me, even if honestly given, is very unreliable; and it is by no means certain that, even if the stupa near Kuchar contained a chamber, the manuscripts were found in it. Still from their appearance which shows no sign of the action of sand on them, it seems clear that they must have been preserved in some receptacle; and there seems, therefore, in this particular case, no sufficient reason to discredit the native report of their having been dug out from the chamber of a stupa (see Introd., p. xi). The case is different with regard to the other Pothis. They show distinct signs of the action of sand on them; and they must have come from a sand-buried site.

As to the identity of this site nothing certain is known. Some (Set I, Nos. 3, 5, Set II, Nos. 4, 5, 6) are said to have been found in "an old buried town in the vicinity of Kuchar" (Introd., pp. viii, ix). Of the rest, all that is known is that they were found "somewhere in the Takla Makan." Seeing that similar manuscripts were found by Dr. Stein in the sand-buried houses of Dandan Uiliq, N.E. of Khotan in the Takla Makan, it is not improbable that the Pothis in question also originally came from that place.

A Pothi consists of a number of leaves, cut of a practically uniform oblong shape, generally enclosed between two Definition. wooden boards, and held in position or "bound" by a string which passes through a hole drilled through the whole pile. This fashion of making up a book is peculiar to India. In all Pothis, existing or surviving in India, the hole is placed in the middle of the pile of leaves; or there are two holes, at equal distances from the margin, in the middle of the right and left halves of the pile. On the other hand, in the Pothis from Central Asia there is only one hole, which is invariably in the middle of the left half of the pile (see Plate II, figs. 1, 4, 5). There are reasons to believe that this was also the practice in India in very early times. In the old Indian copper-plate grants, the copper leaves are strung together on a copper-ring which passes through a hole close to the left margin of the leaves. The practice of incising records on metal plates is a very ancient one in India: instances of such records on gold plates are already mentioned in the Jātaka book (see Professor Bühler's Palæography in the Cyclopædia of Indo-Aryan Research, p. 90). The practice was afterwards transferred to manuscript books, when the latter came into vogue. owing to the fragile nature of their material (palm-leaf or birch-bark) the hole was naturally placed further away from the margin, about the middle of the left half of the leaves. This may be seen in the Bower MSS. which is written on birch-bark, and Part II of which belongs to the earlier part of the 5th century A.D. Somewhat later, the practice arose, for the greater safety of the leaves, to make two holes at corresponding distances from the right and left margin. The earliest examples of this practice are presented in the Horiuzi MS. (see Anecdota Oxoniensia, Vol. I, Part III, Plate I), and in the two Nepalese manuscripts of the Cambridge Collection, Nos. 1702 and 1049 (Mr. Bendall's Catalogue, Plate I, figs. 1 and 2), all of which belong to the 6th century A.D. Still later arose the practice of replacing the two holes by one hole in the middle of the leaves. The existence of this practice is recorded by Alberuni in the 11th century, who says (Professor Sachau's Translation of Alberuni's India, Vol. I, p. 171), that "the Indians bind a book of palm-leaves together by a cord on which they are arranged, the cord going through all the leaves by a hole in the middle of each." The hole was not at first in the exact middle, but—probably a modified survival of the ancient practice—slightly more to the left, as seen, e.g., in the Nepalese manuscript No. XXI (Palæographical Society) which is dated in 1015 A.D. Still later, and at the present day, the hole appears in the exact middle of the leaves. The peculiar position of the string-hole in the Central Asian Pothis, therefore, points pro tanto to a very early date for the introduction of the Indian fashion of book-making into Eastern Turkestan, and for those Pothis themselves. As to the wooden covering boards, only those of one Pothi, No. 1 of Set I, are included

in the British Collection. Of another Pothi, No. 2 of Set I, one of the wooden covers exists, but it belongs to the Weber MSS. collection, which also includes a portion of that particular manuscript: the other cover is missing (see my Report on the Weber MSS. in the Journal of the Asiatic Society of Bengal, Vol. LXII (1893), pp. 2, 5, 32). One of the covers of Part I of the Weber MSS. (see *ibidem*, pp. 2, 9), as well as the two covers of the Bower MSS. also exist. Seeing that the Bower MSS., the Weber MSS. and the Macartney MSS are said to be proceeds of the same find (Introd., pp. x-xii), it seems not improbable that the covers of all the manuscripts comprised in the find were originally found, though only those above enumerated have been obtained from the finders.

All the Pothis are written on paper. The paper is soft, and of a whitish colour. The only exception is the Paper. Pothi, No. 3 of Set II, the paper of which is hard and stiff, and of an orange colour. It is clearly coloured artificially, and its rigidity may be due to that cause. The whitish colour of the other paper is, no doubt, its natural colour. Regarding the material of which the paper is made, I can offer no opinion. Not possessing the requisite technical knowledge myself, I have submitted specimens for determination to Hofrath Professor J. Wiesner, of the University of Vienna, who will publish a report of his investigation when it is finished. the meantime I am informed by him that the papers of the Pothis differ in one point: that of Pothis Nos. 4, 5, 7 of Set I, and No. 3 of Set II, is sized or loaded with starch. On the other hand, he could not detect any trace of starch in the paper of the Pothis Nos. 1, 2, 3, of Set I, and Nos. 1, 2 of Set II, though this does not prove absolutely that no starch was used in its preparation. There is also another difference which I have noticed myself. Some of the papers exhibit parallel waterlines,

¹ No. 6 of Set I and Nos. 4, 5, 6 of Set II have not been examined by him.

showing that the sheets of this paper were made in "moulds" or frames with an open bottom; while others do not show any waterlines, and evidently were made in moulds with a comparatively solid bottom. In the latter, the bottom would seem to have been made with a piece of coarse cloth stretched across the frame. In the former, parallel lines of string, or wire, or bamboo fibre must have been stretched across the bottom of the frame, as shown by the waterlines in the paper. The strings were fixed very close to one another; for in the paper there are about 14 waterlines to an inch. To judge from the absence of any corresponding waterlines, the moulds do not seem to have been provided with any transverse supporting strings or wires. Pothis Nos. 1 and 2 of Set I, and No. 1 of Set II, are written on paper without waterlines, while the paper of all the others shows them. It is possible that on further enquiry, the two points of difference here noted may yield a test of age. For the present, the information on both points is insufficient for the purpose. As Professors Wiesner and Karabaček have shown (Mittheilungen aus der Sammlung Papyrus Erzherzog Rainer, 1887), the Arabs, who learned the art of paper-making from the Chinese in Samarkand in 751 A.D., knew, in the 9th century, the practice both of loading the pulp with starch and making paper in open-bottomed moulds. They used moulds with and without transverse supporting strings or wires; and the paper, made in their moulds, shows 15 waterlines to an inch (or 6 to a centimetre). There is no reason, so far as I know, to believe that they were the inventors of either of those two practices. The presumption is rather the other way; for the British Collection possesses two Chinese documents, dated 768 and 786 A.D. (see below, p. 22), both of which are written on sheets of paper showing waterlines as well as the presence of starch. So far, all the Pothis may be anterior to the 8th century A.D.; some of them, as will be shown presently, are certainly several centuries older. In any case, the method of making paper in solid-bottomed moulds is cruder and more primitive than that of making it in open-bottomed ones. Accordingly Pothis written on paper without waterlines, i.e., made by the former method, are pro tanto likely to be older than those written on paper with waterlines. To the former class belong three Pothis, Nos. 1 and 2 of Set I, and No. 1 of Set II, which are said to have been dug out from the Kuchar stupa; to the latter belong all the others. Judging by this test, the Pothis of the Kuchar stupa are older than the rest. A further peculiarity of the Pothis of the Kuchar stupa is that their leaves are

covered with a more or less thick smooth coating (of chalk?) on which the letters are traced. It is of a white colour and particularly noticeable in the case of No. 2 of Set I. In

J. 1. 2

the case of No. 1 of Set I, it is discoloured and has assumed a dun colour. As the paper of these Pothis is not starched, the coating may perhaps have been intended to prevent the ink from running. In many places it has peeled off, and with it the writing has disappeared. The letters appear to have been traced with some kind of pen, probably the Indian reed-pen, not the Chinese brush. This is suggested by the sharp angles and clean-cut lines of the letters, which is particularly noticeable in the Pothis, Nos. 3-7 of Set I and Nos. 3-5 of Set II. (See Plate II, fig. 3.)

In the shape and size of the leaves of the Pothis there is much variation; but they all agree in being decidedly Shape and Size. oblong. In this particular, they clearly imitate the Indian palm-leaf. In India two kinds of material were used for book-writing, the leaves of the Corypha palm (Corypha umbraculifera) and the inner bark of the birch tree (Betula utilis), both in a prepared state. Palm-leaf was the common material, employed everywhere throughout India: its shape, a decided narrow oblong, was determined by the shape of the segments or strips of the natural leaf. Birch-bark was only used in the extreme North-West of India, concurrently with palm-leaf; and its shape was that of large, squarish sheets.2 Seeing that the paper was made in large squarish sheets (see below, p. 23), and that a narrow oblong is a less convenient shape for a writing material than a squarish sheet, it is obvious that the practice of cutting up paper into narrow oblongs must have been determined by people who were accustomed to the Indian use of palm-leaves. As the Bower MSS. show, even birchbark was occasionally treated in this way and cut up into oblongs after the model of the Corypha-leaf. The normal size of paper Pothis is about 2 (or $2\frac{1}{2}$) by 12 (or 14) inches; see Nos. 3 and 4 of Set I, and Nos. 2 and 3 of Set II (Plate II, fig. 4); and this is also the normal size of a palm-leaf Pothi. But paper, being cut out from very large sheets, naturally permitted a much greater variation in shape and size than the natural palm-leaf. Hence we have Pothis as small as 2×5 or $2\frac{1}{2} \times 8$ inches; see Nos. 1 and 2 of Set I, and No. 1 of Set II. On the other hand, there must have been also Pothis of enormous size, as shown by No. 5 of Set I, which appears to have had leaves about 11 inches broad and proportionately long, and by No. 7 of Set I, the leaves of which were 41 inches broad and probably about 20 inches long. In both cases the length can only be conjectured; but a fair idea of the size of such an enormous manuscript is afforded by the Petrovsky MS., which,

² See my Epigraphical Note on Palm-leaf, Paper and Birchbark in Journal, Asiatic Society of Bengal, vol. LXIX, p. 93 ff. (1900).

according to the photographic specimen published by Professor S. von Oldenburg in the Transactions of the Imperial Russian Archeological Society, Vol. VII, pp. 81, 82 (1892), measures about $3\frac{1}{2} \times 19\frac{1}{2}$ inches.

All the Pothis are written in Brāhmī characters, but of two different types. One is an upright type, the Characters. other is slanting. The latter occurs only in two Pothis, viz., No. 2 of Set I, and No. 1 of Set II. The difference of the two types is not so well seen in single letters, as in a whole page; compare figs. 1 and 2 of Plate II. There are also some specific differences in the formation of certain letters, especially in the forms of the vowels a, \bar{a} (initial) and i and e (medial) and the consonants k, m and y. They may be seen in columns 21 and 22 of Table II; and they are fully explained in my Reports in the Journal of the Asiatic Society of Bengal, Vol. LXII (1893), pp. 4, 5 and Vol. LXVI (1897), pp. 3-5, 45. The slanting type of Brāhmī has, so far as I know, never been observed in India: it appears to be a special Central Asian modification of the erect type which is proper to India. In India this type of the Brahmi is known as the Gupta script, so named after the Imperial Gupta dynasty which ruled in Northern India about 319-530 A.D., and during whose rule, principally, it was current. Its period may be said to comprise roughly four centuries, from 300 to 700 A.D. From the fact that Pothis written in both, the upright and slanting, types were found in the Kuchar Stupa, it is clear that they were contemporary styles of writing. It seems to me that the fact of the co-existence of the two types may be best explained by assuming that the Pothis in the erect script were written by Natives of India, Buddhist propagandists who had migrated to Central Asia, while the slanting script was evolved by such Natives of Eastern Turkestan as had become converts to Buddhism.

With regard to the upright type of Gupta, three distinct varieties can be distinguished. I believe the distinction to be a mark of a difference in age. The earlier variety, shown in Columns 7-12 of Table II, is found in Pothi No. 1 of Set I (Macartney MSS., No. 2); also in the Bower MSS., and in the Weber MSS., Parts I, II, III, (see Plate I, figs. 1-3 in Journal, Asiatic Society of Bengal, Vol. LXII of 1893), all of which belong to the Kuchar stūpa find. A later variety, shown in Column 18, is found only in the Pothi No. 6 of Set II; and another later variety, shown in Columns 16 and 17, is found in the remainder of the Pothis of the two Sets. Both these later varieties are quite unknown in India. They also share with the Central Asian slanting type the peculiar formation of the medial vowels i and e. Moreover the second of the two later varieties is marked by a curious angularity and absence of cursiveness, which suggests that

the script did not come naturally to the writer but was employed, so to speak, artificially as a calligraphic imitation of Indian models. This is particularly striking in the case of the letter tha; compare No. 9 in Col. 17 with Col. 6. The forms of the letters e and the initial long \bar{i} (No. 4 in Col. 17 and No. 3 in Col. 16) point in the same direction. latter occurs occasionally (in the proportion of 1:8) as an alternative by the side of the more usual Indian form consisting of three ringlets (No. 3, in Col. 17), and is made by combining the sign of length of the i-vowel with the body of the a-vowel. The letter e is made by a similar combination. These peculiar forms of e and i are also found in the ordinary Tibetan script which originated in the middle of the 7th century A.D. For these reasons, I believe, the two later varieties to be peculiar scripts of Eastern Turkestan. I also believe them to belong to much the same period of time, and the variety, shown in Col. 18, to be the cursive script of the period, while the variety, shown in Cols. 16 and 17, is an artificial imitation of Indian models for calligraphic purposes. The same cursive script is also found in a series of Brāhmi documents, which are described in Group II (p. 32). It is shown in Column 19, and possesses the same peculiar form of the initial i-vowel. The form of the letter ma of this cursive script (No. 13 in Cols. 18, 19) should be particularly noticed: it is quite different from the ordinary form, but closely allied to the Central Asian forms, shown in Cols. 20-22. In this connection it may also be noticed that the Central Asian Gupta script retains the three-pronged form of ya, and the long-limbed form of la (Nos. 14 and 16 in Cols. 16-22). In the Indian Gupta these two forms began to disappear in the 6th century, and to be replaced by the two-pronged or boot-shaped form of ya and the short-limbed form of la (see Professor Bühler's Indian Palæography, pp. 45, 48).

Of the slanting type of Gupta, also, some varieties can be distinguished. Only one of them, however, (see Cols. 21, 22) is represented in the British Collection, in Pothis No. 2 of Set I, and No. 1 of Set II. Another, perhaps later, variety, distinguished by its form of the letter ma (the second form of No. 13 in Column 22), is found in a few fragments published by me in the Journal of the Asiatic Society of Bengal, Vol. LXVI (1897), pp. 213 ff., Plate I, fig. x. A variety intermediate between the upright and slanting, is found in the Weber MSS, Parts IV, V, VIII, published ibidem, Vol. LXII (1893), pp. 22 ff., and shown in Column 20.

The Pothis are written in two different languages: Sanskrit and another, which has not, as yet, been identified.

Accordingly I have divided them, for the purpose of this Report, into two Sets. The first Set comprises seven

Pothis, all written in Sanskrit, not exactly of the classic, but of the so-called "mixed" type. The second Set consists of six Pothis, written in the unknown language. My impression, from the general character of the language, is that its identity has to be looked for in the direction of the monosyllabic Tibetan rather than of the Turki or Mongol languages. A curious point about it, as presented in these Pothis, is that it is largely intermixed with Sanskrit words, strangely misspelled. These words are mostly technical terms, medical or religious; and this fact seems to indicate that the works in which they occur may be translations of Sanskrit originals into the language of the country in which they were found.

None of the Pothis is dated. Their age, however, can be estimated with much probability from palæographic and Age. other considerations. They are all written in one form or other of the Gupta script, and the period of this script is included roughly between 300 and 700 A.D. Three of the Pothis, viz., Nos. 1 and 2 of Set I, and No. 1 of Set II, are said to have been found in the Kuchar stupa, together with the Weber MSS. and the Bower MSS. These, therefore, may be taken to be practically of the same age. The date of the Bower MSS. it is possible to fix with tolerable certainty; for they are all written in the Indian (not the Central Asian) type of the Gupta script, doubtless, by Natives of India; and their age, therefore, is determined by the well-known facts of Indian palæography. I have explained the argument fully in a paper published in the Journal of the Asiatic Society of Bengal, Vol. LX (1891), pp. 79 ff. It is briefly this: the Gupta script of North-Western India has two signs for the consonant y, a three-pronged and a two-pronged or rather boot-shaped one (compare No. 14 in Columns 1 and 6 of Table II). Of these the boot-shaped sign is a later cursive development of the three-pronged one. There is also an intermediate cursive form, in which there is a line across the instep of the boot-shaped form (see No. 14 in Cols. 4 and 14, and the lower sign in Col. 12). This form was a transitional one which appears to have been current only during a very short period. This period, so far as epigraphic writing is concerned, extended from about 460-540 Epigraphical records avoided the use of contemporary newfangled cursive forms: they naturally preferred to use only the older forms, sanctioned by long usage and, therefore, well-known to every reader; cursive forms were only admitted, when they had acquired the sanction of a fair amount of literary usage. Epigraphic writing thus lags behind literary writing: the interval, of course, may vary; but a generation or two of writers, say about 50 years, may fairly represent it. For Pothi-writing, therefore, the period of the use of the transitional

form of y would be the 5th century A.D. Accordingly, Pothis which use exclusively the old three-pronged form of y may be placed before the 5th century; and Pothis which use exclusively the modern boot-shaped form of y fall after the 5th century. Of course, the form of y is not the only test; the forms of other letters must also be taken into account; but in a general way, the y-test is a convenient and fairly safe one. In the present case, the result yielded by this test is sufficiently well confirmed by a comparison of the forms of the other letters shown in Table II. Parts I-III of the Bower MSS. show the use of the old and transitional forms of y in the proportion of 1: 3, while Parts IV-VII, which are written in a different hand, use only the old three-pronged form. As the last page of Part III, and the first page of Part IV, are written on the same leaf, occupying the obverse and reverse of it respectively, it follows that all the Parts are contemporary. It further follows that the Bower MSS. must have been written at a time when the use of the transitional form of y had not yet found general acceptance among literary men. Accordingly they must be referred to a time not later than the middle of the 5th century A.D. The other Pothis, viz., the Weber MSS, and the Macartney MSS, having been found in the Kuchar stupa together with the Bower MSS., must belong to nearly the same period. Hence Pothi, No. 1 of Set I, which is written in the Indian type of the Gupta script, but never uses the transitional form of y, must be dated early in the 5th century, and may possibly go back to the latter part of the 4th century (see the evidence in the Journal, Asiatic Society Bengal, Vol. LXVI, pp. 245-247). The Pothis, No. 2 of Set I, and No. 1 of Set II, which are written in the Central Asian type of Gupta, must also belong to the 5th century. The two-ringleted form of y (see No. 14 in Cols. 21 and 22 of Table II) which they use can only be viewed as having originated from the old three-pronged form: the boot-shaped form of y could not have produced it. The script of those two Pothis is a Central Asian modification of the contemporary Indian Gupta script. The intermediate stage—the Indian Gupta in the process of transition to the Central Asian—is exhibited in Part V of the Weber MSS. (see Column 20 of Table II; also Journal, Asiatic Society of Bengal, Vol. LXII (1893), Plate II, fig. 1). The transition can clearly be seen by comparing the forms of m and y, in Columns 20-22 of Table II. The North-Indian transitional form of y of the 5th century, and the modern bootshaped form of y, which originated in the 6th century, never obtained a footing in Central Asia, as little as it penetrated into Tibet or into Southern India. The Bower MSS. found in Eastern Turkestan are only an apparent exception. For as their material—birch-bark—shows, those manuscripts were really written in India (probably Kashmir or Udyāna)

and imported into Eastern Turkestan. All the Pothis which were written in Eastern Turkestan itself are written on paper; and it appears probable that those written in the Indian variety of the Gupta script, such as No. 1 of Set I, were written by Natives of India who had settled in Eastern Turkestan, while those written in the Central Asian variety, such as No. 2 of Set I, and No. 1 of Set II, were written by Natives of that country.

As regards the Pothis, Nos. 3-6 of Set I, and Nos. 2-5 of Set II, I am disposed to ascribe them to a somewhat later age. They show the Indian upright Gupta script, but written in a curiously angular and artificial style: it is the calligraphy of epigraphical records applied to book-writing. The curious triangular form of tha and the wavy form of medial e first appear in Indian epigraphical writing in the 7th century (see Nos. 8 and 14 in Column 6 of Table II), and in Indian literary writing towards the end of the 6th century (see Nos. 8 and 14 in Col. 15). The peculiar composite forms of the initial i and e (No. 3 in Col. 16, and No. 4 in Col. 17) also belong to the 7th century. Accordingly it is to the 7th century that I am inclined to attribute the Pothis in question. The contemporary cursive style, I believe, appears in the fragment of Pothi No. 7 of Set I. It is shown in Column 16 of Table II and in figure 3 of Plate II.

To a still later period I would ascribe the Pothi No. 6 of Set II. It exhibits a much more developed cursive form of the upright Indian Gupta, as established in Central Asia. Unfortunately only a fragment of one leaf exists, and that in a rather bad condition. Its letters are shown in Column 18 of Table II and fig. 5 of Plate II. Essentially the same cursive script, however, is found in the series of Brāhmī documents which will be described in Group II (p. 32); and its letters are shown in Column 19 and fig. 6 of Plate II. These documents seem to have been found together with some Chinese documents dated in the latter half of the 8th century; and it is to this period that I would, accordingly, ascribe the Pothi No. 6 of Set II.

Two points which bear on the question of the age of the Pothis

Evidence of History.

have already been discussed in the paragraphs on the "stringhole" and on "paper."

The bearings on it of the course of the political history of Central Asia remain to be briefly considered. All the Pothis, so far as I know, are Buddhistic. Western Turkestan was occupied by the Muhammadans in the course of the 8th century. In 751 A.D. Samarkand was conquered by the Arabs. From that time Buddhist intercommunication between India and Central Asia practically ceased: it had previously been gradually declining. U-kong, a Chinese Buddhist monk, visited India in 753 A.D., and Prajña, an Indian Buddhist monk, visited China

in 782 A.D., both travelling through Central Asia. But these are solitary instances. In the 9th and 10th centuries Muhammadanism overran Eastern Turkestan; and Buddhist culture fell into rapid decline. That under these circumstances, such a knowledge and practice of the Indian script as to produce manuscripts of the perfect calligraphy shown in our Pothis should have continued to exist among the Buddhists of Eastern Turkestan is extremely improbable.

FIRST SET.

This Set comprises seven Pothis, all written in Sanskrit.

No. 1. Pothi. (Plate II, fig. 1).

Belongs to M. 1. Fully described and figured by me (as Set II) in the Journal of the Asiatic Society of Bengal, Vol LXVI (1897), p. 244, plate x. Incomplete both in size and number of leaves. Maximum existing size $2\frac{1}{8} \times 4\frac{1}{2}$ "; original, about $2\frac{1}{8} \times 5$ ". Number of lines on page, 9 or 10. Leaves mutilated on the right: stringhole on the left: existing 25, numbered from 20 to 44, on the reverse pages, as shown by the way the leaves adhered to one another. Enclosing boards of wood preserved; size, $5\frac{3}{8} \times 2\frac{1}{2}$ "; stringhole at $1\frac{3}{8}$ " from left edge; inner surfaces flat, outer, slightly convex and polished. Paper, same as in No. 1, but discoloured (dirty orange) and rotten from damp. Writing much damaged through surface-coating peeling off or causing leaves to stick together. Findplace, stupa near Kuchar where it is said to have been dug out together with the Bower MSS., and Weber MSS. (Introd., pp. x, xi). Script, Indian upright Gupta characters. Language, mixed Sanskrit prose and verse (cloka). Subject, medical or semi-medical treatise, divided into adhyāyas or chapters. Age, early 5th or late 4th century A.D.

No. 2. Pothi. (Plate II, fig. 2).

Belongs to M. 1. Fully described and figured by me (as Set I) in the Journal of the Asiatic Society of Bengal, Vol. LXVI (1897), pp. 237, 241, plates ix and x. Incomplete, both in size and number of leaves. Existing size, $2\frac{1}{2}"\times 5"$, original, $2\frac{1}{2}\times 7\frac{1}{2}"$. Number of lines on page, 6. Average number of aksaras, or letters, in a line, 22; missing, about 12; total about 34. Leaves mutilated on the left, and hence stringhole and leaf-numbers lost. Commencing and concluding leaves missing; existing number, 17; in the Petrovski Collection, in St. Petersburg, 8; in the Weber Collection in my own possession, 7; total 32 leaves. (But see Professor S. v. Oldenburg's remarks in the Records of the Oriental Transactions of the Imperial Russian Archæological Society, Vol. XII, page 034). Paper, primitive without waterlines and

starch-loading; of whitish colour. Writing, much obliterated through peeling off of surface coating of paper. Findplace, same as of No. 1. Script, Central Asian slanting type of Gupta characters. Language, mixed Sanskrit prose. Subject, Buddha's discourse with the Mahāyakṣa Māṇibhadra, whose story is briefly told in the Saṃyutta Nikāya (Pāli Text Society, Part I, p. 203). Age, 5th century A.D.

No. 3. Pothi.

Belongs to G. 1. Described (not quite correctly) and figured in Journal, Asiatic Society of Bengal, Vol. LXVI (1897), pp. 227, 231, plates ii and iii. A mere fragment of the book, only two complete leaves and two small pieces of a third, surviving. Size, $11 \times 2\frac{1}{3}$ ". Number of lines on page, 5, with about 27-30 aksaras in a line. Stringhole at 22' from left edge, within a circle of #" diameter. Leaves numbered 9 and 11 (not 19 and 11 as stated in the Journal) on the obverse pages. Paper, very similar to that of the Chinese and Brāhmī documents (see Group II, p. 32), of whitish colour, and with waterlines, about 14 to an inch, running parallel with length of leaf and in same direction as writing. Find-place, said to be "old buried city in vicinity of Kuchar" but perhaps Dandan Uiliq (see p. 31). Script, upright Gupta characters of the Central Asian calligraphic variety. Language, mixed Sanskrit prose. Subject, dharanis or incantations, divided into sūtras, as follows: sūtras 72-80 on leaf 9, and 90-93 on leaf 11. On leaf 10, there must have stood sutras 81-89. As the fragmentary leaf commences a page with stra 41, and as there stood, on the average, eight sūtras on a leaf, it follows that the fragmentary leaf must be the 5th, and must have borne sūtras 41-48. Age, probably 7th century A.D.

No. 4. Pothi.

Belongs to G. 7, T. 1, and M. 3. A mere fragment of the book, consisting of four more or less complete leaves, and five small pieces of three or four leaves. Probable full size, $2\frac{1}{2} \times 11\frac{1}{2}$. Number of lines on page, 4, with about 21–27 aksaras in a line. Stringhole at $2\frac{3}{4}$ from left edge, within a circle of $\frac{1}{3}$ diameter. Two leaves numbered 8 and 27, but uncertain whether on obverse or reverse pages. Paper, as in No. 3, but with waterlines about 13 to an inch, running parallel to longer side of leaf, in all but three of the small pieces in which they number 16 to an inch and run parallel to the shorter side and across the writing. Find-place, probably, the same as of No. 3. Script, and language, as in No. 3. Subject, apparently the same as in No. 1. Age, as of No. 3.

No. 5. Pothi.

Belongs to G. 1. Described and figured by me in Journal, Asiatic J. 1. 3

Society of Bengal, Vol. LXVI (1897), pp. 228, 233, and plate iv, No. 3. A mere fragment, $3\frac{5}{8} \times 5\frac{3}{4}$ ", of a very large leaf, numbered 90 on left margin, but unknown whether on obverse or reverse page. Leaf-numbers, as a rule, stand in or near the middle of the margin, and, as in this case, the number 90 stands close to the torn upper edge, it is probable that the existing breadth $(5\frac{3}{4}$ ") is only about one-half of the original size which should have been about 11 inches. The leaf must have had a corresponding length, but there is no means of determining it. The Pothi must have been a very large one, both with respect to size and number of leaves. Stringhole must have been in missing portion. Existing number of lines on page, 7; probable full number 14. Letters, very large, $\frac{1}{4} - \frac{3}{4}$ ". Paper, as in No. 3, but with 13 waterlines to an inch. Findplace, script and language, as of No. 3. Subject, not determinable. Age, as of No. 3.

No. 6. Pothi.

Belongs to M. 3. Only two very small irregular pieces $(1 \times 3")$ and $1\frac{1}{4} \times 1\frac{1}{2}"$) of one or two leaves. Original size of leaf unknown. Portions of two lines on one, and of three lines on the other fragment. In all other respects, the same as No. 3.

No. 7. Pothi. (Plate II, fig. 3).

Belongs to M. 10. A mere fragment, out of the middle of a very large leaf, inscribed on both sides with 9 lines of writing. The still existing full breadth is $4\frac{3}{4}$ "; full length, unknown; surviving length, $6\frac{1}{2}$ ". Paper, same as in No. 3. Findplace, unknown. Script, ordinary or cursive variety of Central Asian upright Gupta characters. Language, mixed Sanskrit. Subject, apparently a Buddhist sūtra. Age, probably 7th century A.D. The following is a transcript of what is legible on the figured page.

- l. 1 va · sarvva-dharmam Buddha-lakṣaṇa (çūnye) x sarvva-vi
 l. 4 bhadante=ti · āyuṣmām n=Subhuti
- l. 5 prajna-paramita ya× × na: sambodhi manasi karai
- sad-dhetos=tathā hi subhūto tena bodhisatve
- 1. 7 s=tathā hi × çūnyatayā
- l. 8 s=tathā hi (sa pratyati) çūnya
- 1.9 kathāyāņa

SECOND SET.

This Set comprises six Pothis, all written in a language, not yet identified.

No. 1. Pothi.

Belongs to M. 1. Fully described and figured by me (under Set I)

in Journal Asiatic Society of Bengal, Vol. LXII (1893), p. 34 ff., and plate iii, figs. 3-5. It is the missing portion of Part IX of the Weber MSS., which previously had not been recognized by me but supposed to belong to No. 1 of Set I. It comprises 17 leaves; in Part IX, there are 25 leaves; the total thus amounts to 42 leaves. The finder (see Introduction, p. x) appears to have divided it into two parts, one of which he gave to Mr. Weber, the other, to Mr. Macartney. It is not probable, that, for this purpose, he picked out the leaves separately; he probably simply divided the bundle of leaves into two portions, each consisting of a number of consecutive leaves. This being so, and leaves 7-10 and 30-38 occurring in the Weber Collection, while leaves 22-29 are included in the Macartney Collection, it follows that the 17 leaves of the latter collection probably comprise the leaves 13-29, while the 25 leaves of the Weber Collection are made up of the initial portion 1-12 and the final portion 30-42. Unfortunately, the Pothi is preserved in a very indifferent condition. The leaves are partially mutilated on three sides though sufficient remains to determine their full size, which is $2\frac{1}{2} \times 5\frac{1}{6}$ Number of lines on page, 6; the top-lines, chiefly, being The writing is much obliterated, owing to the gypsum coating of the leaves being greatly damaged. In many places the coating of one leaf, with the letters on it, adheres to the next leaf, and on carefully rubbing off the gypsum, the letters underneath it become visible. though in an inverted position and crossing the letters of the writing on the next leaf. With some trouble, it is possible to distinguish and read the two lines of writing overlying one another. A complete transcript (in Roman) of this manuscript, with indexes, is given in an Appendix to this Report. The leaf-numbers are on the left margin of the reverse pages, the following being, more or less completely, preserved: 22, 24, 26, 27, 29. Paper, findplace and script, the same as in No. 2 of Set I. Language, not identified, but largely intermixed with strings of Sanskrit names of medical drugs, strangely misspelt. Hence it is not improbable that the work may be an ancient translation into a Central Asian dialect, of some Indian medical treatise. Age, 5th century A.D.

No. 2. Pothi. (Plate II, fig. 4).

Belongs to G. 7 and M. 3. A mere fragment of a book, consisting of three nearly complete leaves, one half-leaf, and eight small pieces. Size of full leaf, $2\frac{1}{2} \times 11\frac{8}{16}$." Number of lines on page, 5, with about 21-28 aksarss in a line. Stringhole at $2\frac{3}{4}$ " from left edge, within a circle of $\frac{1}{16}$ " diameter. On one leaf, in left upper corner, there are two concentric circles, not inscribed, of $1\frac{1}{2}$ " and $1\frac{3}{4}$ " diameter, possibly marking the commencement of a chapter. One of the complete leaves



is numbered 1 on left margin of reverse page, with blank obverse, being the initial leaf of the book; numbers of others missing. Paper, as in No. 3 of Set I, but waterlines running parallel with short side in leaf 1 and in the eight small pieces. Findplace, unknown. Script, the same as in No. 3 of Set I. Language, not identified, intermixed with Sanskrit religious terms. Subject, probably Buddhist dharants or "incantations." Initial leaf apparently commences with om siddham, the former word represented by a large flourish, the latter indicated by traces of s and dh. Age, same as No. 3 of Set I.

No. 3. Pothi.

Belongs to G. 7. A mere fragment of the book, consisting of one complete leaf, and the larger portion of another, numbered 9 and 10 respectively on the left margin of the obverse pages. Size of full leaf, $2\frac{7}{8} \times 14\frac{1}{4}$. Number of lines on page, 5, with 32 or 33 akearas in a line. Stringhole at about $3\frac{1}{4}$ " from the left edge, within a circle of $\frac{1}{16}$ " diameter. On leaf 9, in left lower corner of reverse page, two concentric circles, not inscribed, of $1\frac{3}{4}$ " and $1\frac{5}{8}$ " diameter respectively (as in No. 2). Paper, stiff, of yellowish colour, with faint waterlines, about 11 to an inch, running parallel to long side of leaf and direction of writing. Findplace, unknown. Script, as in No. 3 of Set I. Language and subject, as in No. 2 of Set II. Age, probably 7th century A.D.

No. 4. Pothi.

Belongs to G. I. Described and figured by me in Journal, Asiatic Society of Bengal, Vol. LXVI (1897), pp. 228, 234, and plate iv, fig. 5. Only a fragment of one leaf: full breadth extant $3\frac{3}{4}$ "; full length unknown; existing length, 6"; apparently from middle of leaf; for no stringhole visible. Number of lines on page, 5. Paper, as in No. 3 of Set I, but waterlines parallel to short side of leaf, and transverse to writing. Findplace, script, and subject, also the same as in No. 3 of Set I; but language, as in No. 2 of Set II. Age, probably 7th century A.D.

No. 5. Pothi.

Belongs to G. 1. One of the two fragments referred to by me in Journal, Asiatic Society of Bengal, Vol. LXVI (1897), pp. 228, 229. The leaf to which it belongs—the only one surviving—must be the last, seeing that one page is blank, and the stringhole is on the left side. Breadth complete, $2\frac{1}{4}$ "; full length unknown, but probably about 7"; existing length, $4\frac{3}{4}$ ". Stringhole, within a circle of $\frac{3}{4}$ " diameter, at about $1\frac{1}{4}$ " from existing left edge; on this side only a very narrow strip, with the leaf-number, can be lost, the main loss being on the right side. Number of lines on page, 5; writing almost illegible. Paper, as

in No. 3 of Set I, but very thin, and with waterlines parallel to short side of leaf. Findplace, script, language, subject and age, as in No. 4 of Set II.

No. 6. Pothi. (Plate II, fig. 5).

Belongs to G. 1. The other of the two fragments referred to in the preceding No., and a parallel case in almost every respect. The leaf to which it belongs—the only surviving-one of the book—must be the last, as one page is blank, and the stringhole is on the left side. Breadth complete, $2\frac{1}{2}$; full length unknown, but probably about 6 inches; existing length $3\frac{3}{4}$. Stringhole, within a circle of $\frac{3}{4}$ diameter, at about $1\frac{1}{2}$ from existing left edge; possibly not more than right and left margin, with leaf-number, missing. Number of lines on page, 5; writing almost illegible. Paper, exactly as in No. 5 of Set II. Script, later cursive variety of Central Asian upright Gupta; but very much obliterated. Language and subject, unknown. Age, probably 8th century A.D.

SECOND GROUP. DOCUMENTS.

The documents of the collection may be divided into two classes, according as they are written in a known or in an unknown language.

First Class. Documents in a Known Language. First Set. Chinese Documents. (Plates III and IV).

This Set comprises three complete sheets and nine fragments of paper, inscribed on one side with writing in Chinese characters, and, therefore, in vertical lines or columns, running from right to left.

The characters are the ordinary Chinese, but in two different hands: the book-hand or kyai-shu, and the cursive or tsao-shu. The style of the writing according to Mr. Macartney, resembles that of the period of the T'ang dynasty, that is, 618-907 A.D.; and this is confirmed by the actual dates recorded in two of the documents (Nos. 1 and 3), as well as by the circumstance, that some of the characters are more or less obsolete. The language is Chinese, but archaisms as well as more or less extensive mutilations of the documents offer serious obstacles to accurate translations. Mr. G. Macartney, Special Assistant for Chinese Affairs to the Resident in Kashmir, in Kāshghar, and Mr. L. C. Hopkins, H.B.M.'s Consul in Chifu, have very kindly supplied me with translations of some of them, and Professor F. Hirth in Munich, and M.M. U. Wogihara and R. Watanabe with some others. I hope their publication in full may be undertaken by some Chinese scholar. Here I must limit myself to indicating their general purport.

Nothing definite is known regarding their exact find-place. Two fragments, Nos. 4 and 10, which were received by Captain Godfrey from some Pathān traders, are said to have been dug up, together with the Pothis Nos. 3 and 5 of Set I and Nos. 4, 5, 6 of Set II, "near some old buried city in the vicinity of Kuchar." All the other documents were obtained by Mr. Macartney from a Khotan trader, Badruddīn, who either could not or would not give any information regarding their find-place.

No. 2.







There is, however, some reason to believe that they may have come from Dandan Uiliq (see below, p. 31). The three complete documents name the place where they were written, but unfortunately, the first of its two letters being obsolete, it

cannot at present be fully read. Full-size facsimiles of the two letters, as seen in the three documents, are shown in the marginal woodcut No. 2. Mr. Macartney and his Chinese Literate read it Löč-Sich. Mr. Hopkins also reads it Lich-sich or Li-sich, but he adds, that not only the sound of the first character is doubtful, but "the second character may represent an older sound sia, tsia, zia, tsa, tse, and the whole word might be Lizia or Litsa or Lidja." From the document No. 1 it is certain that the place, whatever it was, was situated in the Chinese province of the "Six Cities" (Liu-Ch'eng) or, by its Turki name, Alti Shahr, that is, in the country now commonly known as Eastern or Chinese Turkestan. The Six Cities probably are Kuchar, Aksu, Ush-Turfān, Kāshghar, Yarkand, and Khotan, with their respective territories.

8 A slightly different enumeration is given by Mr. N. Elias in the Translation of the Tarikhi Rashidi, p. 51. There Yangi Hissar is substituted for Kuchar, which, as said on p. 53, "was usually a dependency of Aksu." The enumeration may have varied at different times, or with different informants. Mr. Elias' enumeration is based on a statement of Dr. Bellew's in the "Report of the Yarkand Mission in 1873," p. 185. That Report, however, on page 33, refers also to another enumeration Alti Shahri Khutan or "Six Cities of Khutan," so called "from the six towns composing it, viz., Ilchi, Karakash, Yurungkash, Chira, Kirya, and Naya." In any case, as our document shows, Alti Shahr or "Six Cities" is not a modern term, as Mr. Elias (l.c., p. 51, footnote: "it belongs to the present century") seems to have inferred from the statements of the Report, but goes back to a very ancient date.

All the manuscripts appear to be official documents of a public or private character. They seem to have belonged Purport and Date. to the registry of some local or sub-provincial office of the Chinese Government of the province of the "Six Cities" or Eastern Turkestan. Thus one of the complete documents (No. 1) is a letter from a local officer to his Superior, requesting instructions regarding the collection of certain taxes: it is dated in the 3rd year of the Tali period, i.e., in 768 A.D. It is not the original dispatch, but merely the office copy or draft, as shown by the large office stamp imprinted on it. This circumstance may account for the absence of any seal, which would probably be borne by the original. Another (No. 2) is a requisition order to a military officer for the supply of certain articles. This is not fully dated; the year is not mentioned, but only the day and month. The third complete document (No. 3) records a private transaction, being the deed of a loan of money, and is fully dated in the 7th year of the Chinchung period, i.s., in 786 A.D. This, as well as the Tali period, belong to the reign of the T'ang dynasty, which extended from 618 to 907 A.D. The fragments appear to be official receipts of taxes paid, or requisition orders for the supply of various articles. In one of the fragments (No. 4) there occur some letters of the cursive Brāhmī script, in which the Brāhmi documents of Set I, of the Second Class are written. This circumstance proves that the latter set and the Chinese set of documents belong to the same period of time, viz., the second half of the 8th century A.D.

The material on which the documents are written, is water-lined paper of the same quality as that of the Pothis Paper. Nos. 5 and 6 of Set II; and this agrees with the circumstance that on paleographic grounds Pothi No. 6 must be referred to the 8th century A.D. (see page 15). It is a very thin, coarse paper, of uneven texture, and whitish color. The waterlines form a network, being 13 or 14 to an inch in one direction. crossed at right angles by others in intervals of from \(\frac{2}{3} \) to 1". Evidently. the paper was made in a mould with a network bottom. On this an imperfectly prepared pulp was laid rather unevenly; for the paper shows great inequalities, thicker patches alternating with thin ones. In the thick patches, long fibres of the material can be clearly distinguished. What this material was, I am unable to say: specimens have been submitted, for determination, to Hofrath Professor J. Wiesner in Vienna. According to him loading with starch was used in the manufacture of the paper. To judge from the dimensions of the documents, the size of the mould, and accordingly of a full sheet of paper, appears to have been



⁴ The dated documents show an appreciable amount of starch; in some of the fragments no starch could be discovered.

about 16×12 inches. The closely spaced water-lines run parallel to the longer side, while the writing runs across them, and parallel to the widely-spaced transverse water-lines. The surface of the paper is rough: polishing it or coating it was not practised. The writing was done with a brush: the ink appears to have been the so-called China or Indian ink.

No. 1. Document. (Plate III).

Belongs to M. 9. Size, $15\frac{1}{3} \times 11\frac{1}{4}$ ", or a full sheet of paper. Lower right-hand corner torn off, also some portions of upper edge; otherwise complete. Writing arranged in 14 columns, six of them more or less mutilated, in ordinary Chinese book-hand, though interspersed with a few cursive characters. At the end, in left-hand lower corner, the office stamp *hsing*, meaning "approved," is imprinted, in a very large character, $2\frac{1}{4}$ " high; while all the written characters are from $\frac{1}{2}$ to $\frac{3}{4}$ " high.

The document is dated "the 23rd day of the 3rd month of the 3rd year of the Tali period," equivalent to A.D. 768. It is an official letter addressed by Tien Ch'eng-hsien, apparently the officer in charge of Li-sieh or Litse to his superior officer, Ah-mo-chih Wei-chih, the Inspecting Superintendent of the Six Cities. Ah-mo-chih is said, by Mr. Macartney, to be not Chinese, but probably a Chinese transliteration of a native word. The following appears to be the substance of the letter: Tien Ch'eng-hsien reports that he has received a petition from the people of Li-tse regarding the payment of their grain-tax. He explains that owing to the frequent depredations of bandits they are suffering great distress. Accordingly he proposes a postponement of the collection of the tax, and requests the sanction thereof by the Inspecting Superintendent.

No. 2. Document.

Belongs to M. 9. Size $5\frac{s}{4} \times 11\frac{1}{4}$ ", or about one-third of a full sheet (such as No. 1) cut breadthwise. Record, complete. Writing arranged in six columns, parallel to the long side, in the book-hand. No office stamp. Dated only on "the 23rd day of the 12th month," without mention of any year, from the Li-sieh (Litse) camp. Purport, order addressed to Yang Chin-ching, the military commandant of the camp, to requisition a skin to re-cover a drum, and feathers to re-fit arrows.

No. 3. Document. (Plate IV).

Belongs to M. 9. Size, 13½ ×11½", being nearly a full sheet. Complete, with exception of one-half of first column or about 7 characters. Writing arranged in 12 columns, parallel to short side, in cursive characters; hence partially undeciphered. No office stamp. Dated twice, at beginning and end, "on the 5th day of the 7th month of the 7th year of the period Chien-chung," corresponding to A.D. 786. Purport:

record of the loan of 15,000 cash, on the security of a house and a person. Signature, the marks of the borrower (Sumenti, aged 39) and his surety (Ngan, aged 30), being three dashes (≡) and two crosses (+/+) respectively. Place of transaction, apparently a village (name not deciphered) near Li-sieh (Litse).

No. 4. Document.

Belongs to G. 1. Described and figured by me in the Journal of the Asiatic Society of Bengal, Vol. LXVI (1897), p. 230, Plate viii. No. 16. Said to have been dug out from a buried town near Kuchar, Size, $5\frac{7}{4} \times 2\frac{3}{4}$ ". Oblong slip, torn at top; on other sides complete. Writing, in three columns, parallel to long side, in book-hand. Between first and second column, near the top, three Brahmi letters to rohau-de, running parallel to columns, but to be read horizontally, from left to right, of the same cursive type as in the Brahmi documents of Set I, in Class II and in the Pothi No. 6 of Set II. Purport, certificate of payment of taxes. Date, "the 26th day of the month;" rest mutilated. Mr. Macartney (letter, 28th October, 1897), states that the Chinese characters "resemble what is known as the writing of the Yen family of the T'ang dynasty (618-907 A.D.), but that the style of Chinese writing rarely offers a clue to age." circumstances of the occurrence of the cursive Brāhmī script by the side of the Chinese, and of the general resemblance, in externals, of No. 4 to the dated Nos. 1 and 3 practically seem to fix the date of No. 4 as some year in the latter half of the 8th century A.D.

No. 5. Document.

Belongs to M. 3. Size, $6\frac{7}{8} \times 3\frac{1}{2}$; an oblong slip, rather damaged on two sides, but otherwise apparently complete. Writing, in two columns, parallel to long side, in book-hand. Purport, apparently notice of certain articles, sent to a person called O-hon.

No. 6. Document.

Belongs to M. 3. Fragment. Size, originally $4 \times 4\frac{1}{2}$ ", now $4 \times 2\frac{3}{8}$ ", a blank portion having been sent to Professor J. Wiesner of Vienna, to be tested. Writing, in one column, mutilated at top and bottom, in bookhand, but slightly cursive. Purport, apparently a receipt or order for certain goods.

No. 7. Document.

Belongs to M. 3, Size, $3\frac{1}{2} \times 2\frac{1}{2}$ ", a much torn fragment, apparently from the bottom of sheet, with remains of bottom of three columns of writing, in a somewhat cursive book-hand. Purport, apparently certificate of payment of grain-tax for military use.

J. 1. 4

No. 8. Document.

Belongs to M. 3. Size, $7 \times 2\frac{3}{4}$ ", a much torn fragment from middle of sheet, with remains of two columns of writing, in book-hand; one in small characters; the other to the left and, therefore, at the end of the document, consisting apparently of two very large characters, about $2\frac{1}{3}$ inches high, probably an office-stamp. Purport, illegible. Paper, rather thicker than in preceding Nos., but water-lined.

No. 9. Document.

Belongs to M. 3. Size, $6\frac{1}{2} \times 1\frac{1}{2}$ ", a very irregularly torn fragment from middle of sheet, of same paper as No. 8, and possibly another portion of the same document. Writing, remains of two columns, in book-hand. Purport, apparently military requisition order.

No. 10. Document.

Belongs to G. I. Described and figured by me in Journal, Asiatic Society of Bengal, Vol. LXVI (1897), p. 230, Plate viii, No. 17. Said to have been dug up from a buried town near Kuchar. Size, about 5" square, being the right-hand upper corner, torn off a larger sheet. Paper thicker and coarser than that of any preceding No., but also water-lined. Writing, top of three columns; also traces, on the right, of a fourth column; the beginning and bottom of text wanting. Purport, not intelligible.

Nos. 11 and 12. Documents.

Belong to M. 3. Sizes, $4 \times 2''$ and $1\frac{1}{4} \times \frac{1}{4}''$. Two small and very irregular fragments from middle of sheet; of same paper as No. 10, and possibly belonging to the same document. On No. 11 indistinct traces of two columns of writing; on No. 12 only one character; all in bookhand. Purport, illegible.

Second Set. Persian Documents.

Number, Find-place and Condition.

Number received with a large number of others, in the same condition as, the Godfrey MSS. (see Journal, Asiatic Society of Bengal, Vol. LXIII p. 226), forming crumbled up lumps of waste paper, and required very careful unfolding and smoothing-out. When this was done, they were found to be records written, some in Persian, others apparently in Uigur (see infra, Set I of Class II).

The paper on which they are written was also made, like that of the Chinese and Brāhmī documents, in moulds with a network bottom; for it has water-lines, 13 or 14 to an inch, with transverse lines, about $1\frac{1}{4}$ " apart. It is also of whitish colour; but it has a very different texture. While the other paper is extremely thin and comparatively hard, this is somewhat thicker, and of an extremely soft and frail quality, resembling thin, loose flannel: it must have been made of other material, though what this was has not yet been determined by Hofrath Professor J. Wiesner, to whom specimens have been submitted. He has, however, found that, unlike the paper of the Chinese dated documents, no loading with starch was used in its manufacture. The paper shows transverse marks of fracture, as if the documents had been folded into narrow folds, about $1-1\frac{1}{4}$ wide. In its present condition, the paper is so flossy that it is difficult to see how it could be written on with any hard instrument such as a reed-pen, unless originally it was of a firmer texture, or the writing was done with a soft brush. The writing is all on one side of the paper, except in one of the fragments (No. 4) which shows it on both sides. It also runs invariably transverse to the close-spaced water-lines.

The documents have been examined by the Rev. D. S. Margoliouth, Laudian Professor of Arabic in Oxford, who has kindly undertaken to publish them in extenso in some Oriental Journal. They are written in the Naskhi character, and in Persian language; and according to Professor Margoliouth, they are the earliest specimens of writing of that kind in prose. One of them (No. 1) is dated in H. 401, equivalent to A.D. 1010-11; and to judge from their close resemblance to one another and their common provenance, it is probable that they all belong to the earlier half of the 11th century A.D. Two of the documents are certainly, and one of the fragments probably, deeds recording sales of land: the purport of the other fragments cannot be determined.

No. 1. Document. (Plate V, fig. 1.)

Belongs to M. 10. Size, $16\frac{1}{3} \times 6\frac{3}{4}$ ", the length being complete: as a comparison with the Document No. 2, which possesses the full breadth, shows, the entire sheet must have measured $16\frac{1}{3} \times 11\frac{1}{3}$ ". Accordingly a strip, about $3\frac{3}{4}$ " wide, is lost on the left side: top, bottom, and (practically) right side are intact. Inscribed, only on one side, with 16 lines, running parallel to the narrow edges.

The document purports to be the record of the sale of certain land at Almatah, a village in Nikotanj (الحانة روستة درنكر تنج, 4th line) to Yahyā son of Ayūb. It is dated in words, Hijrah 401, equivalent to

The date of the document refers it to the reign of the great Yilik Khān, alias Ḥaẓrat Sultān Satūq Bughrā Khān, who is said to have lived H. 333-429 (A.D. 944-1037) to the age of 96 years. Three silver coins of his (dated 1003, 6, 7) are in the British Collection and are described in Part I, page 29. He was the founder of a very extensive, but short-lived, Uigur kingdom, with its capital at Kāshghar. In his time, the first permanent introduction of the Islam into Eastern Turkestan took place. Tradition says that his father Tangri Kadir Bughrā Khān was still an "idolater"; so was his uncle and immediate predecessor, Harūn Bughrā Khān. He himself is said to have adopted the Islām when he was twelve years old, and to have been the first convert to Muḥammadanism in Eastern Turkestan. This is precisely the religious state of things disclosed by the signatures to the contract.

The document, further, proves the existence of the Sipāsi sect in Eastern Turkestan as early as the beginning of the 11th century. The Dabistān contains a long account of the history of the sect and its tenets. It is said to be a survival of the old Iranian religion. Its home, accordingly, should be Western Turkestan, whence it might easily spread into Eastern Turkestan. It also spread into India where the author of the Dabistan says he met one of its leaders, Azar Kaivan, in Patna, early in the 17th century. The claim to antiquity of the sect, as well as of its sacred book, the Dasatir, which has been much questioned, would seem to receive considerable support from the present document.

No. 2. Document.

Belongs to M. 10. Size, $8\frac{1}{2} \times 11\frac{1}{2}$, being the complete lower half of the sheet. Inscribed with ten lines of Naskhi writing, which, however, in some parts is almost illegible owing to the damaged state of the exceedingly frail paper. It is also a deed of sale of land, the details of which, together with the date, are partly illegible, partly lost with the upper portion of the document. The extant lower part gives the names

⁵ See Sir T. D. Forsyth's Report on a Mission to Yarkand in 1873, pp. 122 ff.

and marks of the witnesses. The date must be much the same as that of No. 1.

No. 3. Document.

Belongs to M. 10. Size, 2×3 ". A fragment, being the lower right-hand corner of the sheet, with remains of five or six lines. Purport, probably deed of sale of land, similar to Nos. 1 and 2.

No. 4. Document.

Belongs to M. 10. Size, $2 \times 1\frac{1}{4}$ ". A small fragment, from the lower edge of the sheet, inscribed on each of the two sides with the remains of two lines of writing in Naskhi characters. Purport uncertain; perhaps a letter.

Second Class. Documents in an Unknown Language.

First Set. Uigur Documents. (Plate V).

This Set comprises 24 specimens. All, except one (No. 1), are incomplete; many are very small fragments.

Condition and Paper. They were obtained from the same place and in the same condition as the Persian documents.

Their paper is also of the same kind; very soft, water-lines are rather faintly visible; there are also the same marks of fracture, indicating folding or transverse water-lines.

The writing on them runs in horizontal lines, from the right to the Script and Language.

left, and seems to be in the Uigur character. In that case, probably the language also is Uigur; but this point must wait for further enquiry. The writing, which varies much in size, in different specimens, is, as a rule, found only on one side of the paper; but one large piece, and a number of very small fragments, all possibly belonging to the same document, are inscribed on both sides.

Seeing that they were found mixed up with the Persian documents of the 11th century A.D., it is probable that they are referable to the same date. For the same reason it is also probable that they are documents of a similar kind. On one of them the names and marks of illiterate witnesses can be seen (Plate V, fig. 3); and this probably is a similar deed of sale of land. Some seem to bear counter-signatures or office-marks in Arabic (Plate V, fig. 2).

No. 1. Document. (Plate ∇ , fig. 2).

Belongs to M. 10. Size, about 6" square. Complete. Inscribed, on one side only, with six lines of writing in small characters. At

the bottom apparently an Arabic counter-signature. As shown by the transverse marks of fracture in the paper, the document may have been originally folded up in eight narrow folds, about \(\frac{3}{4}\)" wide. Purport, unknown.

No. 2. Document.

Belongs to M. 10. Size, $7\frac{1}{2} \times 4\frac{1}{2}$ ". Irregular fragment; complete at bottom. Inscribed, only on one side, with eight mutilated lines of small writing, followed by a 9th line in Arabic characters. Purport unknown.

No. 3. Document.

Belongs to M. 10. Size, about 6" square. Fragment, being the right-hand lower corner of sheet. Inscribed, on one side only, with six mutilated lines of large writing. Purport, unknown.

No. 4. Document.

Belongs to M. 10. Size, $7\frac{1}{2} \times 3\frac{1}{2}$ ". Very irregular fragment, from middle of sheet. Inscribed, on one side only, with 8 mutilated lines of large writing. Purport, unknown.

No. 5. Document. (Plate V, fig. 3).

Belongs to M. 10. Size, $5 \times 2\frac{1}{3}$ ". Fragment; left-hand lower corner of sheet. Inscribed, only on one side, with nine mutilated lines of large and small writing; also with a cross (+) and a crossed circle (\ominus), being the marks of two illiterate witnesses. Purport, probably a record of some sale.

Nos. 6-12. Documents.

Belong to M. 10. Very small and very irregular fragments, from middle of several sheets, inscribed with remains of large (Plate V, fig. 4), and small writing, some of them, possibly, being portions of the previously described numbers.

No. 13. Document.

Belongs to M. 10. Size, $7 \times 3''$. Fragment, complete on left, but irregularly torn on the other sides. Inscribed, on both sides, with eleven or twelve mutilated lines of small writing, running in opposite directions on the two sides. Purport, unknown.

Nos. 14-24. Documents.

Belong to M. 10. Minute fragments of very irregular shape. Inscribed on both sides with traces of small writing. All of them, perhaps, portions of No. 13.

Second Set. Brāhmi Documents. (Plates VI and VII).

This Set comprises 69 specimens. Among them there are thirteen. sheets, which are entire or nearly so, and of which one belongs to M. 3,

Number and Condition.

Number and Size from minute pieces to half sheets. All those belonging to G. 1 were received by me in crumbled lumps of waste paper, and required very careful opening-up and flattening-out, as described in the Journal of the Asiatic Society of Bengal, Vol. XVI (1897), p. 226.

Regarding their findplace there is some uncertainty. Those belonging to M. 3, M. 9 and M. 10 were procured Findplace. from a Khotan trader Badruddin, who could or would give no information respecting their provenance. From the same trader the Chinese documents belonging to M. 3 and M. 9 were procured. On the other hand, the Brāhmi documents belonging to G. 1 are said to have been dug up "near some old buried city in the vicinity of Kuchar" (Introd., p. ix); and from the same locality are said to have come the fragmentary Pothis (Nos. 3 and 5 of Set I, and Nos. 4, 5, 6 of Set II) and the two fragments of Chinese documents which belong to G. 1. One of those Pothis (No. 6 of Set II) is written in the same Brahmi script as the Brahmi documents; and the whole of these documents and Pothis are written on the same kind of paper. Seeing that some manuscripts, written on the same kind of paper and in the same scripts were dug up by Dr. Stein in Dandan Uiliq, it seems not improbable that the whole of the manuscripts above enumerated really came from that sand-buried old site. That, in any case, the whole of the Brāhmī documents came from the same locality, and even belonged to the same community, seems to be clearly proved by the fact that the same names of persons (see below, p. 33) reappear in different documents.

Most of the complete documents are fully dated (see below, p. 35); but unfortunately the key to the system of dating is, as yet unknown. Hence we are reduced to estimating their age from indirect evidence. On palseographical grounds, as explained ante, p. 15, it is probable that the approximate date of the Brāhmī script, as seen in the documents, is the 8th century A.D. This attribution is confirmed by the circumstance that a short remark in the same Brāhmī script is seen in one of the Chinese documents (No. 4), which were found together with the Brāhmī Documents, while on the other hand two other Chinese documents (Nos. 1 and 3), which evidently belong to the same find, are actually dated in the latter half of the 8th century (768 and 786 A.D.) It seems certain, therefore, that the documents were written about that time, and that the species of Brāhmī script which is seen in them, was then

the prevalent cursive style of writing among a certain class of people in Eastern Turkestan.

The material on which the documents are written is exactly the same kind of thin, coarse, whitish, water-lined Paper and Writing. paper as that of the Chinese documents. It is also very similar to that of certain Pothis, especially Nos. 5 and 6 of The water-lines are, longitudinally, 13 or 14 to an inch; transverse water-lines are mostly absent; only on three (Nos. 1, 3, 9) of the complete sheets any distinct traces of them can be seen, # to 1" The size of the mould must have been about $16 \times 12''$, the greatest dimensions of sheets, either way, actually measured being 15 and 11½ inches. Professor Wiesner's tests have revealed no trace of loading with starch. The writing always runs parallel to the shorter side and therefore, across the close-spaced water-lines. It is also, as a rule, confined to one side of the paper; only a few fragments (Nos. 28, 29, 48, 50) have a few letters on the reverse. A brush and China ink seems to have been used in writing.

The script of the documents is a species of cursive Brāhmī. Its affinities and date have been discussed in con-Script. nection with the Pothis, and are illustrated by Table II, where the letters of the script are shown in column 19. Its approximate date is probably the 8th century A.D. Two varieties of hand can be distinguished in the document, one with rounded, the other with angular forms. A specimen of the latter is shown on plate VII., fig. 2. The former may be seen in Plates II, fig. 6, VI, and VII, fig. 1. In the Journal, Asiatic Society of Bengal, Vol. LXVI (1897), Plates xxi-xxiv, I published a Table of the alphabet of the script. Further investigation has shown that it is not correct in several particulars: the signs for ta and ma had been wrongly identified as bha and na, and the existence of some special signs in the form of a hook or a curve had not been recognized: there are also some minor errors; e.g. in identifying some forms of the vowels o and i which nearly resemble each other. Accordingly a revised alphabet is now given in Table III, which also now shows the full system of numeral figures.

The language of the documents has not yet been identified; but one point seems to be certain, that it is different from the unknown language of the Pothis of Set II; e.g., none of the characteristic conjunct consonants of the latter occur in the Brahmi documents. Only a few of the words or phrases have, as yet, been determined, but these seem to prove clearly that the language of the documents is an Indo-Iranian dialect, having affinities both with Persian and the Indian Vernaculars, in addition to pecularities

of its own which connect it with the dialects of the Western Highlands of Central Asia. To me it appears that it has its nearest congeners in the so-called <u>Ghalchah</u> dialects of the Pamir, the Sarīq-qolī, Shighnī, Wahnī, Munjānī, Sanglīchī. For an account of these may be consulted Dr. Grierson's "Languages of the North-Western Frontier," in the Linguistic Survey of India, where also references to other authorities will be found.

In the phonetics of the language the most striking point is that it possesses no sonant aspirates (gh, jh, dh, dh, bh): the guttural η , as a non-conjunct,6 is also absent. With these exceptions, to judge by the alphabetic system, it seems to possess all the ordinary sounds of the Sanskrit phonetic system, including the cerebrals, the three sibilants s, c and s, the four nasals \tilde{n} , \tilde{n} , m, n, and the anusvāra. The palatal nasal \tilde{n} (initial as well as medial) and the cerebral nasal n (only medial) do not occur often, and, as a rule, only in names (e.g., Puñadatto, Nāhaja) or technical terms (e.g., kṣāṇa) which are suggestive of an Indian origin. The exact force of the palatal and cerebral sibilants is uncertain; thus we have cūmdasa 'sixteen' for Sanskrit sodaca, and sausa or ssausa 'six' corresponding to Shighni khhaushkh and Wakhi shadh or shaz. Moreover the existence of peculiar dialecting sounds seem to be indicated by the occurrence in the script of a special sign, consisting in a subscript curve or hook, which is found with certain words and letters, and even with these not uniformly, and the exact signification of which I have not been able to discover.7 The quality of the vowels seems to be rather undefined. Thus o and i are often confounded; e.g., the word homi, as spelled in the documents Nos. 2, 9, 10, appears as himo in Nos. 1 and 4, and as himi in No. 18. No. 12, which throughout uses for both vowels but one sign, a kind of double dot (properly a modification of the ordinary sign of the vowel o, see Table II), spells it hämä.

With regard to the Vocabulary, I have succeeded in determining a considerable number of words, either names, or terms, or numerals. Some obviously suggest Indian, Persian or Ghalchah affinities, others are peculiar. I may give a few examples. Indian names are: Puñadatto (Skr. 8 Puṇyadatta), Suhadatto (Skr. Çubhadatta), Darmapuño (Skr. Dharmapuṇya), Pharsapuño (Skr. Sparçapuṇya), Budasaṅgo (Skr.

J. 1. 5

⁶ The anusvara in such words as samga, may represent a conjunct guttural nasal.

⁷ An example of the use of the hook may be seen in the word s_i in Plate I, fig. 6, line 1. The letters with which it is found are a, \bar{a} , k, d, p, ph, b, q, s, h. In the transcripts, given in the sequel, they are indicated by an apostrophe placed under them.

⁸ Sg. = Sanglichi; M. = Munjāni; W. = Wakhi; Sr. = Sarīq-qoli; Sh. = Shighni; Prs. = Persian; Ind. = Indian; Skr. = Sanskrit; Pr. = Prākrit.

Buddhasayga), Jsajsako (Skr. Yājaka, Pr. Jājaka), Çilako (Skr. Çīlaka), Mañuçrī (Skr. Mañjuçrī), etc. Persian names are Mahvetari or Makvittaro (Prs. Mihtar), Arsalam (Prs. Arslān?). Peculiar names are Khattīnai, Brīyāsī, Vikausa, etc. Terms signifying divisions of time are kṣāṇo 'cycle' (Skr. kṣaṇa?); sali or salya, 'year' (Prs. sāl), māṭto 'month' (Sariqqoli mast, Shighnī mest); peculiar is hadā 'day.' The name of one of the months is Skarih-vāri (Prs. Shahriwār, see below). Other miscellaneous words, of a more or less certain meaning, are u 'and' (Wakhī u or o), khu 'self' (Sr. and Sg. khu), homi or homo auxiliary verb (Wakhī hūmū), hamguṣto 'witness,' viçto 'become' (Wakhī wāst); spā-ta 'our' (Wakhī spā?). The numerals are as follows:—

```
7 (not observed).
1 (not observed).
                                        8 hasta (Prs. hast, Sh. washkht).
2 do (Sg. du, M. do).
                                       9 no or nau (W., M. nau).
3 trai (Sg. trai, W. trui).
4 saspari (Sg. safor, Sr. tsavur).
                                      10 dasa (Sg., Ind. das).
5 pamji (Sg., W. panz, Sr., Sh.
                                      12 dodasau or dvadaso (Skr. dvā-
     pinj).
                                            daça).
6 ssausa or sausa (Sh. khhaushkh,
                                      16 çümdasa or çümdaso (Skr. şo-
     \mathbf{W}. shaz).
                                             daça).
20 bista (W., Sr. bist, wist).
                                      500 pam-se.
30 şiyyām (W., Sr. sī).
                                     1000 hsāro or hajsāro (W., Prs.
80 saspari-bisto (W., Sr. tsavur-
                                             hazār).
                                     2000 dvi-hsāri.
                                     3000 trai-hsāri, etc.
100 se or sai or saya (Ind. sai, sau).
```

Numerals are written in two ways: either in words or in figures. When written in words, these are frequently abbreviated; thus, $pa\dot{m}$ for $pa\dot{m}ji$, and $hs\ddot{a}$ for $hs\ddot{a}ro$. The figure notation is the ancient Indian, which possesses no cypher, but twenty figures; viz., 9 for the units, 9 for the tens, one for hundred, and one for thousand (see Table III). The multiples of hundred and thousand are expressed by ligatures of the figures of those two numbers with the unit figures. Thus 13 is expressed by the juxtaposition of the figure for 10 and the figure for 3 (10+3); 3750 is represented by the three figures for 3000, 700, 50; similarly 8800 by the two figures for 8000 and 800 (see Table III). Addition is made by post-positing, and multiplication by pre-positing a unit figure or unit word. Thus 22 is bisto-do (i.e., 20+2); 80 is sasparibisto (i.e., 4×20); 300 is trai-se (i.e., 3×100).

With regard to other grammatical forms I have noticed the following inflexions: āro indicates the plural; e.g., Dharmapuño hamgusto victo 'Darmapuño has become witness;' but Brīyāsī u Budaçām hamgusti victāro 'Brīyāsī and Budaçām have become witnesses.' Mye or cu and

i or e or ai indicate the locative (or oblique) case; e.g., bista-mye salye 'in the 20th year'; dasa-mye hadai 'on the 10th day'; ssausa-cu salya 'in the 6th year'; Kaji 'in the (month) Kaja.'

An interesting fact is that ten of the complete documents are fully dated: also several of the fragments show mutilated dates. I have succeeded in reading the dates, but the key to interpreting them is still to be discovered. In its fullest form the date is seen in the following opening passage of the document No. 8 (Plate VII, fig. 2).

17-mye kṣāṇi ṣṣauṣa-cu salya Nāha mācto 17-mye haḍai, i.e., 'in the 17th cycle, the sixth year, the month Ñāha, the 17th day.'

But ksāni is usually omitted, as in the opening passage of the document No. 13 (Plate II, fig. 6).

bista-mye salye Kaji mācto dasa-mye hadai,

i.e., 'in the twentieth year, the month Kaji, the tenth day.'

The month's name and the numbers are frequently post-posited, as in the opening clause of the document No. 12.

sali 20 mācto Chvātaja hadā 23-mye,

i.e., 'in the year 20, the month Chvātaja, the day 23.'

It will be noticed that the forms salya or salye and hadai are only used when they follow the numeral qualified by mye; otherwise sali and hadā are used. This seems to point to the former being inflected forms. From its position in the series, the term hada (or hadai) can only mean 'day.' For the same reason ksāni should signify a larger period than a year. Hence, I have provisionally translated it by 'cycle.' But there are difficulties. Two ksanas are named in the documents: the 17th and the 19th; and once the term kṣāṇi occurs without any number qualifying it. In the latter case, as well as in that of the 19th kṣāṇa, the 20th year is mentioned; and the highest number of years mentioned in any document is 22. It follows that none of the well-known cycles will fit in: the 12 years' cycle is too short, and the 100 years' and 60 years' cycles are too long. A double 12 years' cycle might suit: from the 6th year of the 17th to the 20th year of the 19th cycle we should have (18+24+20=)62 years. So, after all, kṣāṇi may signify something different: possibly it may refer to the number of the register, or of a local division.

The months are always quoted by their names. I have observed nine of these: (1) Skarh-vāri or Skarih-vāri, (2) Cvātaja; (3) Būñaja (or Mūñaja), (4) Khahsāja or Khahsā, (5) Hamtyaji, (6) Nāhaja or Nāha, (7) Jeri, (8) Kaja, (9) Pāñiji. Two others are mutilated: ** khāji, and *i* ija. Of these names Skarih-vāri or Skarh-vāri is evidently identical with the old Persian ksathra-vairya and the modern Persian Shahrīvar, the sixth month of the year. No other name seems to yield to a similar identification; on the contrary Cvātaja (or Cvāta)

and Jeri rather suggest some connection with Sanskrit Caitra (March-April) and Jyeşiha (Hindi Jeth, May-June).

Most of the dated documents have attached to them one or several

(in one case, No. 9, not less than twelve) names,
accompanied by two or three small vertical

strokes. (See Plates VI and VII.) From this it seems probable that they



are records, similar to the Persian deeds of sale of land (Nos. 1 and 2 of Set II,), and the Chinese deed of loan (No. 3 of Set I), attested by the names and marks of witnesses. Three other complete documents (Nos. 5, 6, 10; see also No. 65) have no names and marks of witnesses, but stamps or signatures, not vet deciphered, but apparently in Chinese; shown in the marginal Woodcut No. 3. These, accordingly,

like some of the other Chinese documents (Nos. 1, 4, 8), may be requisition orders or certificates of payment of taxes, bearing Chinese office stamps or signatures. As to the remaining complete documents and the fragments, it may be presumed that their purport is similar.

(No. 1. Document. (Plate VI.)

Belongs to M. 9. Size, 13½×11½", or nearly a full sheet. Record complete, in 12 lines, running parallel to shorter side, about one inch apart from one another, with about 28 or 30 letters in the line, in a round hand. Bottom of sheet, from 2 to 3 inches, blank. Dated, at the beginning, "on the 5th day of the month Skarh-vāro, in the 17th year." Apparently consists of two parts: the first, comprising 9 lines, signed by two persons Briyāsī and Budaçām; then follows postscript, of 3 lines, signed by one Puñagām.

The following is a transcript of the document:

- (1) Om salī 17 māçto Skarhvāro hadā 5 hvam-no-ñu-do-vi-ça-va-ham tto-ña beda și pīdako
- (2) mye pracaina cuā sīdako na dau nā-sti kṣī-rū ki-ro vī ham-tsa rū ci çam-kye jsa ci buro tvā sa-
- (3) lī pyam tsā sta ksī-rū hi ra pajīde sīdako hedo pha rā ko ba ko cam-do pajīde u ci va vā

- (4) ra main-gā-ra cain-ga īde ttyāni Brīyāsi u Budaçāni chīyāya tti do sīdako va-gvā-ro-no-çto
- (5) u vaña Briyāsi cem-gām js(ā)ro hamayo haudo khu vā nau ha salye bi sai jsāro ttū sīdako he-
- (6) do u Brīyāsi bīdo hamayo do u cvai va dā-sta pa mū hi tsī ttū tī sīdako yīdo ru bi
- (7) (sa) lū no nara dohimi-mye hadā vī tarām mi ci vā tram do ttīra şi pīdako pram-mām hi-
- (8) (mo khu)-hā Brīyāsi bu Budaçām hamgusti viçtāro

Brīyāsi | ham | gu | sto

- (9) tto buro vara byām naya
- Budaçam | ham | gu | sto
- (10) Puñagām N ci vaña ru stam Brīyāsi jam pha himā de Budaçām nī hā chīyāyī do sī-
- (11) Khauçyanı 🛚 dako va-çvā-ro-no-çto Puñagānı | hanı | gu | şto
- (12) Hatkain

No. 2. Document.

Belongs to M. 9. Size, $11\frac{1}{2} \times 8\frac{3}{4}$ ", rather more than one-half of a full sheet. Record complete, in 8 lines, parallel to longer side, with 17 letters in the line, in a large, round hand. Dated, at the beginning, "on the 8th day of the month Cvātaja, in the 11th year." Signed by one person, Puñañjām.

No. 3. Document.

Belongs to M. 9. Size, $11\frac{1}{2} \times 6\frac{3}{4}$ ", rather less than one-half a full sheet; upper left-hand corner torn away. Beginning of first three-lines slightly mutilated, otherwise record complete, in 7 lines, parallel to longer side, with 27 or 28 letters in the line, in round hand. Dated, at the beginning, "on the 22nd day of the month Kaja, in the 3rd (?) year." Signed by one person, Darmapuño.

No. 4. Document.

Belongs to M. 9. Size $11\frac{1}{4} \times 6\frac{1}{2}$ ", rather less than one-half a full sheet. Small piece, with two letters, in lower right-hand corner torn off; otherwise record complete, in 7 lines, parallel to longer side, with 24 letters in the line, in round hand. No date. Signed by one Añjāri.

No. 5. Document. (Plate VII, fig. 1.)

Belongs to M. 9. Size, $10\frac{7}{8} \times 6\frac{3}{4}$ ", clean cut along the edges. Record complete, in 6 lines parallel to longer side, with 23-30 letters in a line, in round hand. Dated, apparently at the end, "on the 10th day of the month Jeri." In place of usual signature, a large illegible Chinese stamp.

The following is a transcript of the document:

(1) Om ssau phvai hvu hi tta parī sidako vara u ttyām hvam-

gahseta spātā



- (2) dām vara cu pemmīnā thauna pudam da u thauna ni haudām da vañau va mara hā rū sām ma de u
- (3) ha tto kam mūri ji stā do-dasau hsārya trai se ttyām mūryau jsa kām ha thaunako gvaṣcām do
- (4) trai se pam-saya pemminai yūm jsā thau gvaṣcem di-rso chā khu parau pvī rau tti mū-
- (5) ri hadā ham-gi pu şa hauda ham-tsa hsam thi na khu çau jva na ni dā-çi dohi-mye
- (6) ttām Jeri 10-mye hadai ttā parau tsve (Stamp)

No. 6. Document.

Belongs to M. 9. Size $11 \times 6\frac{1}{2}$ ", but a narrow strip, about $\frac{1}{2}-1$ " wide, torn off along the left edge, mutilating one or two initial letters of each line. Otherwise record complete, in 7 lines, parallel to longer side, with 24-26 letters in the line, in round hand. Dated, apparently at the end, "on the 6th day of the month Hamtyaji." In the body, also, a mention of the month Kaji. In place of usual signature, an illegible Chinese stamp.

No. 7. Document.

Belongs to M. 9. Size 11 × 8". Apparently an unfinished document consisting of one line and a half of writing in round hand. Neither signature, nor stamp; and dated, at the beginning, only "in the month Skarih-vāri. A large piece is torn out of the lower blank portion of the sheet.

No. 8. Document. (Plate VII, fig. 2).

Belongs to M. 9. Size $11 \times 6''$; clean cut along the edges; rather more than one-third of a sheet. Record complete, in 6 lines, parallel to longer side, with 9-22 letters in the line, in an angular hand. Dated, at the beginning, "on the 17th day of the month $N\bar{a}$ ha, in the 6th year, in the 17th $ks\bar{a}$ sa." At the end, no signature, but two scrawls which perhaps may represent some equivalent mark (see No. 12).

The following is a transcript of the document:

- Om 17-mye kṣāṇä ṣauṣa-cū salya Ñāha māçtä 17-mye haḍai gahsāta
- (2) ja auya Cvātajo māçtū thangā samau tām dā hauḍā ka hvandā
- (3) mya 55 thaingä ye pain-hsāro pain-se mūrä 🗙 e 🗙 🗙 y mūrä hsāri
- (4) sa to-na ham-khī ça-hsā-ḍa hvam-ḍä 7 mara mū ñam×××pa jsa
- (6) 55 N #



No. 9. Document.

Belongs to M. 10. Size $11 \times 14\frac{3}{4}$ ", being a full sheet, but a narrow strip, about $\frac{1}{2}$ " wide, torn off along the left edge, with 1-3 initial letters of a few lines. Record practically complete, in 22 lines, parallel to shorter side, with 21-23 letters in the line. Dated, at the beginning, "on the 23rd day of the month Skarih-vāri, in the 22nd year." Signed by 12 witnesses, arranged in two columns, thus:

Briyyāsī. Vikausa.
Puñagām. Mūpadatto.
Maiyadato. Jaṣāmna.
Añjai. Arsoli.
Çalā.
Jsajsaki.
Phemkruki.
Mahvetari.

No. 10. Document.

Belongs to G. 1. Size, $11 \times 9\frac{1}{4}$; a small blank piece, about $1\frac{1}{4} \times 1\frac{1}{4}$ ", torn out of left-hand edge. Record complete, in 11 lines, parallel to longer side, with 16-19 letters in a line, in a large round hand, consisting of two parts: the first part, of 8 lines, dated at the beginning, "on the 20th day of the month Nāhaja, in the 20th year," and signed by a witness Açonekūle. The second part, of 3 lines, is also apparently dated at the beginning, "in ksāni (without any number), in the 20th year, on the 26th day of the month Nāhaji," and has only a small illegible (Chinese?) signature or mark.

No. 11. Document.

Belongs to G. 1. Size $11\frac{1}{4} \times 7\frac{7}{8}$. Two narrow tongues torn out of the top and bottom of the sheet, causing the loss of a few letters; otherwise record complete, in 8 lines, parallel to shorter side, with 27 to 29 letters in a line, in round hand. Ink very much faded, and writing very difficult to read. Dated, at the beginning, "on the 23rd day of the month Khahsāja, in the 19th kṣāṇi;" no year. Also no signature of witness, nor stamp. In the body of the record occur several names, such as Jsajsako, Gaudako, Upadatto, Jigemdai, Jahsābudo, Irasamgo, etc.

No. 12. Document.

Belongs to G. 1. Published by me in the Journal of the Asiatic Society of Bengal, Vol. LXVI (1897), Plate V. Size $11\frac{1}{2} \times 9''$; but a portion of the blank bottom of the sheet torn off. Record complete, in 8 lines, parallel to shorter side, with 26 or 28 letters to the line, in a large semi-angular hand. Dated, at the beginning, "on the 23rd day of the month Cvātaja, in the 20th year." Signed by one Mamdrusä.

At the end, two scrawls, similar to those in No. 8. A revised reading is herewith added:—

- (1) Om salī 20 māçtā Cvātaja hadā 20 3-mye hvam-nä-ñām-dä-vä-çavā-ham dä kye şṣau Väkya-
- (2) dattä gä-rya vā-dä pīdakä-mye pracaina cä bugura Maindrusä na cain-dā gä-rye a vī mya
- (3) gam rsa kū dai vī-ra trai kū çe rcū-ra vā-ça-ra pī ha ve mūra hsāra tta bu-ra-mye çam kye hajsā-
- (4) ram ñā u cā jsai puña-vä-rçā hī ya × × ñū vä jsa Sanekulä hīvī ka da kä ttä-ña
- (5) sa gam ha-khuī bugura çā-ka-ra-kä-stä ī-dä khuai ttī Mamdrusä rcū-rä vā-çä-ra burä
- (6) i-hsgä nā-te i-hsge-de mam-gā-da ra nä i-hsgä-rya hämä tī-ra ṣā pī(dakä) pram-
- (7) mām khu-hā Mamdrusä hamgustä väçtä ttä burä va-ra byām na-ya bye Arsalam bye ×
- (8) ña × ai bu × na ḍā bye × ḍā == Maṁdru | sā | haṁ(guṣṭā | vāçtā).

The letters connected with a hyphen form groups which occur also in other documents.

No. 13. Document. (Plate II, fig. 6).

Belongs to M. 3. Size $15 \times 9\frac{1}{3}$ ", but a strip, perhaps $1-1\frac{1}{3}$ " wide, torn off along the left edge, probably originally a full sheet. Record complete, in 12 lines, parallel to shorter side, with 24-26 letters in the line, in round hand. Dated, at the beginning, "on the tenth day of the month Kaji, in the twentieth year." Signed by 7 persons, arranged in one column: Alttam, Phekruko, Hatkam, Mayadatto, Budaçām, Nuhadatto, Jsajsako. In Plate II, fig. 6, the two initial lines are shown. They read as follows:

- (1) [0m] bistamye salye Kaji māçto dasamye hadai şi pārava
- (2) [pīdako-mye] pracaina cu ā na hvā cai sai tto mūre hā yitti bu-ru

No. 14. Document.

Belongs to G. 1. Incomplete, lower half of sheet torn off; size of existing upper half, $11 \times 5\frac{1}{3}$ ", damaged. Only two complete, and three mutilated lines. Dated, at the beginning, "on the 10th day of the month i^*i^*ija , in the 5th year." Signatures, if any, lost.

No. 15. Document.

Belongs to G. 1. Incomplete; right half and portion of blank bottom torn away; existing size $13\frac{1}{4} \times 6\frac{1}{4}$ ". Record consists of 11 lines, parallel to shorter side, with about 13 or 14 letters surviving in a line. It is divided into four parts of 3, 4, 2, 2 lines respectively; three of them

dated, the first "in the 6th year," the third "on the 29th day of the month Būñaja or Mūñaja, the fourth "in the month Cvātaja." The signatures, if there were any, are lost with the excised right half; but the following names occur in the text of the four entries: in No. 1, Khattīnai, in No. 2, Puñagām and Phemkruko, in Nos. 3 and 4, Khattīnai and Phemkruko.

No. 16. Document.

Belongs to G. I. Published by me in the Journal of the Asiatic Society of Bengal, Vol. LXVI (1897), Plate vi, No. 9. Mutilated on three sides, right, left, and bottom; existing size $8\frac{1}{4} \times 6''$. Record in 6 lines, parallel to shorter side. Date and signatures, if any, lost; but the month Nāhaja, and the personal name Mañuçri occur in the text.

No. 17. Document.

Belongs to G. 1. Published by me *ibidem*, Plate viii, No. 11. Mutilated on two sides, left and top, being the larger portion of the lower half of the document; existing size $8 \times 5\frac{1}{4}$ ". Record, in 9 lines, parallel to longer side, all more or less mutilated. It is divided into several parts, of three of which fragments survive. The second part comprises the (existing) lines 2-5; it begins with the mutilated date "on the 13th day of the mouth," and ends with the name and mark of one Nuhadato. The third part comprises lines 6-8; the date, if any, is lost; but it is signed by one Rammaki. Of the first part only the concluding line (i.e., the existing first line) remains, showing the two names Çalām and Phemkruko.

No. 18. Document.

Belongs to G. 1. Mutilated apparently on three sides, top, left, and bottom; existing size, $7\frac{1}{2} \times 4\frac{3}{4}$ ". Record in five more or less mutilated lines, comprising two entries, of 2 and 3 lines respectively. Date of either, if any, lost; but the first signed by Mahvittaro, the second by Marçoko.

Nos. 19-69. Documents.

All belong to G. 1, except Nos. 30, 55, 58, 59, 65, 68, which belong to M. 3. All are small fragments of various sizes, not deserving any detailed description. Specimens may be seen in the Journal Asiatic Society Bengal, Vol. LXVI (1897), Plates iv, Nos. 6, 7, vi, No. 10, vii, Nos. 12-15. The following points, however, may be noted. Nos. 28, 29, 48, 50 are peculiar in showing a few words inscribed on their back; thus No. 48 has on the back the names of the two persons Puñagām and Phemkruki; and No. 50 has a mutilated date "on the 5th day of the month Pāñiji," the year being lost. No. 65 shows a small-sized elaborate (Chinese?) mark or signature, similar to that on No. 10. On No. 23 occurs the date "on the 22nd day of the month Cvātaji"; and on No. 29 the mutilated name of the month × × khaji.

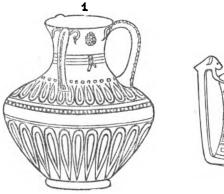
Digitized by Google '

SECTION IV.—POTTERY, TERRACOTTAS, MISCELLANEOUS OBJECTS.

In the description of the objects dealt with in this Section, I must limit myself to a simple classification and explanation of the illustrative Plates VIII-XIII. There is one point, however, which has struck me, and which I should like to point out: the very curious analogies to objects of Greek art of an early date. They will be referred to in connection with each Plate. I only state the facts, as noticed by me. What conclusions they may justify, I must leave to experts to determine.

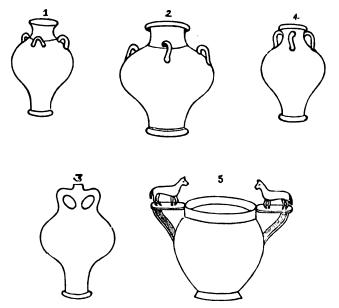
PLATE VIII.

In this Plate fragments of a kind of decorated jar are shown. Its probable appearance, when complete, is shown in the Frontispiece of Part I, which is reconstructed from the fragments Nos. 1, 2, 7, 8, 14. At the time when this was prepared, in 1899, the only uncertain point was whether or not the jar was furnished with a foot. From various indications I came to the conclusion that it probably had no foot, but resembled in shape the well-known round-bottomed Indian gharā (Sanskrit ghata), of which a plain miniature specimen is shown in No. 5. In the meantime figures of two much better preserved specimens have been published by Dr. Sven Hedin in his Durch Asien's Wüsten, vol. II, p. 43. These show that the jar in question was more probably furnished with a foot, and possessed the shape shown in Woodcut No. IV, 1. With this exception, the re-construction, is substantially correct. A revised No. IV.





re-construction, however, with the foot, is now published with Part II. The jar was furnished with three handles. This is proved by No. 7 which shows the fractured bases of the three handles, equidistant from one another. The fact is also clearly indicated in Dr. Sven Hedin's figures. In the case of the smaller jar, the neck and handles are missing, but the three heads, on the shoulder of the jar, from which the three handles sprang, are still there. His larger jar possesses the neck and one of the handles, but from the arrangement of the decorations of the neck, it is probable that originally it possessed three handles. The possession of three handles seems to me to be a point specially worth noting. Threehandled jars or vases are not at all uncommon in very early Greek art. I have seen numerous specimens (e.g., in the British Museum, the Ashmolean Museum in Oxford, and the Akademische Kunst Museum in Bonn) from the Mycenian age and area, also from Cyprus. Some may be seen figured in the Mykenische Tongefässe of Furtwängler and Löschke, Plates III, 10, VII, 42; also in their Mykenische Vasen, Plates I, 1.3, III, 19.20 IV, 26, etc. On the other hand, they are entirely absent from the Classical Greek age and area, and only reappear at a comparatively late date. The only three-handled vessels that I remember having seen are certain Roman vases of the 2nd century A.D., in the Provincial Museum in Bonn. N. V.



1 I am referring here to true three-handled vessels, all the handles of which are alike in form and position. False three-handled vessels do occur in classical Greek

The handles are made, in the form of animals or griffins (see Nos. 10, 11, 14), standing up and bending over the rim of the vessel, as seen in No. 8. In the three-handled Mycenian vases, above referred to, the handles, ordinarily are short curves attached to the shoulder of the vessel; see Woodcut No. V, 1.2. But examples of three handles rising from the shoulder to the top of the neck (as in the Khotan jars) do occasionally occur; one is shown in the Mykenische Vasen, Plate VIII, No. 44. (Woodcut No. V, 3). In the Roman vases a somewhat similar form of handle is usual; see Woodcut No. V, 4. In these cases the handles are plain; but plain handles have been found also in Khotan, as in the larger of the two jars of Dr. Sven Hedin (Woodcut No. IV, 1), where the body is richly decorated in the usual way, while the handle is comparatively plain. Handles imitating animal forms, the Khotanese fashion, are extremely rare in Greek art. The only example I remember having noticed is an Etrurian cantharus, figured in Ridgeway's Eurly Age of Greece, vol. I, p. 67 (Woodcut No. IV, 2). It has only two handles, but they terminate in ram's heads which similarly bend over the rim of the vessel.2 The case of the two-handled cup, ornamented with horses, which is shown in Professor Furtwängler's Bronzen von Olympia, p. 96, Plate XXXV, No. 671 (Woodcut No. V, 5), is different. Here the horses, which look over the rim, are not a constituent element of the handles, but are full figures placed on the top of the handles, as mere accessory ornaments. This kind of treatment of animal forms, however. does not seem to be unknown to Khotanese art. The bird, shown in No. 12 and in Plate XIX of Part I, No. 50, probably served to adorn the top of a plain handle; or possibly it may have formed the handle of a lid. It may be compared with the ornamental use of the dove in Greek art, see the illustrations on pp. 100, 101, 102 of Tsountas and Manatt's Mycenian Age.

Among the miniatures, in Plate XIX of Part I, the same bird is represented, in No. 49, nestled in a flower; and in No. 70 a twin of them is represented, provided with monkey's heads and arms, playing on a lute.

art. In these one of the handles is vertical, while the others are horizontal, as in the Hydrias called in Italian vasi a tre maniche. (See S. Birch's History of Ancient Pottery, new ed., p. 364).

² In Bronzen von Olympia, pp. 119, 120, Plate XLV, griffins from the Praenestian find are shown, but, as Professor Furtwängler explains, these looked outwards, and did not form proper handles, but were merely decorative (as shown ibidem, Pl. XLIX). Similar is the case of certain early Cretan vases which are decorated with three (equidistant) plastic female heads, looking outwards and being only false handles. See Professor Furtwängler's Beschreibung der Vasen Sammlung, p. 109, No. 983.

The decorations are of two kinds, either moulded or incised. moulded ones were invariably made in separate pieces and stuck on to the jar before it was fired (appliqué work). They separate easily enough from the fragments of pottery, especially when saturated with salines, and are found by themselves in large quantities. All the heads, shown in Plate X, Nos. 1-18, are ornaments of this kind; so also is the pillar in Plate VIII, No. 3. Pillars in situ, with Corinthian arches and Buddhist railings are shown in No. 1. These show distinctly the type of Graeco-Buddhist art, prevalent, in the earliest centuries of our era, in the North-western frontier provinces of India. To the same type belong the full and half figures, which form a very common decoration on the jars; see Nos. 2, 4, 7, also Plate IX, Nos. 1-6, 20-23. On the other hand, the moulded ornaments on the fragment No. 22 of Plate IX seems to me to show rather an Indo-Parthian type, suggested by the half-figure wearing the torquis. Some moulded ornaments represent conventional types of foliage or flower, beautifully executed; see, e.g., No. 1, where it seems to form the moustache of the mask, and No. 13; also Plate IX, Nos. 8, 9, 10, 15, 16. Very similar to No. 10 of Plate IX is an ornament shown in Furtwängler's Mykenische Vusen, Hülfstafel B, No. 4.

The incised decoration consists of various systems of lines, dots and ringlets. In No. 1 these elements are arranged in the form of garlands; in Nos. 2, 4, 7 we have series of lines arranged horizontally and vertically; also series of ringlets arranged in a circle. A great variety of other arrangements may be seen, e.g., in Plate IX, Nos. 8, 11, 13-17.

With respect to size, the decorated jar varied greatly. The example, of the body of which a portion is shown in No. 1 must have measured about 13×11 inches, while the jar, of which No. 7 shows the neck and upper part of the body, must have been very small and can have measured only about 4×3 inches.³ On the other hand, the jar to the neck of which the fragment, shown in Plate IX, No. 23, belonged, must have been, to judge from the slightness of curvature of the piece, of very large dimensions. Vessels of the latter size, to judge from the absence of wheel marks on the fragments, appear to have been made entirely by hand. The fragments of the small and medium-sized jars, however, show distinct traces of having been turned on the wheel.

In addition to these decorated jars, there existed a great variety of jugs and vases, single-handled and double-handled, of which some show very artistic designs. A comparatively plain single-handled jug

 $^{^{8}}$ So also Dr. Sven Hedin's two jars, which measure only about 4×3 and 3×2 inches.

is shown in No. 9, in full size. Another miniature plain jug of exquisite shape and make is shown in No. 40 of Plate XIX of Part I, and some more, of a more ornamental design, are in the same Plate, Nos. 21, 39, 44. The same Plate has also some fine double-handled vases in Nos. 41, 42, 43, 45. All these are examples of miniatures. The collection, apparently, contains no fragments of any similar vessel large enough for actual use, except perhaps the handle, shown in Plate IX, No. 19, which may have belonged to a real serviceable cup. But the absence of fragments is no proof that they may not have existed.

All the vessels—jar, jugs, vases, cups—are made of burnt clay, extremely hard, with no "glaze," but only a "gloss." Their colour varies from a bright red to a very light red, apparently in proportion to the length of exposure. Some pieces (e.g., Plates X, Nos. 20, 30, 37, 43; XI, Nos. 20, 21; XIII, No. 27, Miniatures Nos. 47, 50) are quite whitish, and apparently made of a different kind of clay; for they are baked quite as hard as the red pieces. In one case, No. 7 in Plate IX, the fragment is almost black, due apparently to over-exposure; and in this case, there seems also to be real glazing. One fragment, No. 1 in Plate X, which shows a grey colour, belonged to a vessel which apparently was made of a different material. None of the fragments, included in the Collection, shows any trace of painting or colouring.

PLATE IX.

This Plate comprises a series of fragments, to illustrate the great variety of moulded and incised ornament. No. 1 shows the half figure of a Gandharva, bejewelled, holding a garland, and set in a lotus. This is a very common representation, as may be seen by referring to No. 23, also Nos. 2 and 4 of Plate VIII, and No. 2 of Plate XII.⁵ No. 2 shows a curiously dressed figure, suggesting our courtfool's bell-attire. No. 3 shows a rustic en face dressed in the Indian loin-cloth (langoti), and carrying on his head a jar, or some other load, which he steadies with his right hand.⁶ No. 4 shows a turbaned and robed figure, playing on a flute (σῦριγξ μονοκάλαμος) or oboe (αὐλὸς). No. 5 shows a similar figure, playing on a Pan's pipe (σῦριγξ πολυκάλαμος) made of seven

See M. F. Grenard's observations on Dutreuil de Rhin's collection in Mission Scientific dans la Haute Asie 1890-1895, Part III, p. 108.

⁶ Among Dr. Sven Hedin's fragments there is a Gandharva who is represented in a posture exactly similar to that of the monkey's shown in Plate X, Nos. 34 and 35. With his right hand he holds a cup to his mouth, while his left is veretrum tenens. See below footnote 13.

⁶ One of Dr. Sven Hedin's fragments shows a procession of similar rustics, walking to left, through an arched colonnade.

reeds. No. 6 shows another figure, playing with a pair of cymbals, or possibly a woman braiding her hair. Nos. 7-18 show a great variety of line ornaments, accompanying, almost invariably, various forms of faces or masks. Among them, there are rosettes (No. 11), garlands (Nos. 14, 15), nets or circles of lines or dots (Nos. 16-18), wavy lines (No. 11), rows of semicircles or arches (No. 11), etc. No. 19 shows what probably was the handle of a cup.7 Nos. 20-23 show fragments of the rim of three large vessels. The rim of one (No. 20) was adorned with a series of full figures: two men, in langeti, wrestling; a monkey squatting on its haunches and holding a large vessel or melon;8 an elephant with upturned trunk, carrying two men who squat on its back, facing one another; a dead bird hung neck upwards (?). Nos. 21 and 22 show the same fragment, inside and outside respectively. The former is adorned with three rosettes, above a perforated ledge: the latter, with a Buddhist railing, enclosing a decorated (conventional) chaitya, and the half figure of a man wearing a torquis. The rim, shown in No. 23, was adorned with a series of ornamental arches, within them the usual Gandharvas with garlands, in the triangular interstices small rosettes, and above the whole a double circle of alternate beads and lines.

PLATE X.

Nos. 1-19 of this Plate illustrate the great variety of heads, or rather masks, used as ornaments. They all show traces of having originally been attached to the sides of jars. They were moulded separately and stuck on to the jar before it was baked; and they come off with comparative ease, especially from pieces saturated with salines. Apparently they were used, as a rule, by themselves; but occasionally, as shown by a fragment in Dr. Sven Hedin's collection, the head belonged to a whole appliqué figure. Nos. 1 and 2 show pieces of the jar still adhering to them. No. 7 shows the identical mask of which another specimen is still adhering to the fragment of a jar in Plate IX, No. 17. Some of the masks represent the faces of men, some with a moustache (No. 2), others clean-shaven (No. 5), others with round beard (No. 6). Nos. 7-9 show women's faces; some with earrings (Nos. 7, 8), others with a sort of frill round them (No. 9). Some of the faces (Nos. 10-17) are made to look canine or feline, with protruding tongue (No. 14), or roaring with open mouth (No. 15), or showing the teeth (No. 16).

 $^{^7}$ I have observed Mykenian cups with similar handles in the British and Ashmolean Museums.

⁸ In his Beschreibung der Vasensammlung im Aquarium Professor Furtwängler notices an early Greek vase from Nola, decorated with a sitting monkey who holds, in front of him on his knees, a bulging krater.

No. 18 suggests a vampire; still more so the mask seen in Plate VIII, No. 13. No. 19 presents the distinct face of a monkey; but it is more probably the front piece of the head of a real figure of a monkey, similar to the complete head shown in No. 21. There is a very striking resemblance between the female masks (such as Nos. 7 and 14) and the Gorgon's head (with or without protruding tongue), as seen on early Greek coins of the 6th to 4th centuries B.C., figured in the British Museum Catalogue of Coins of Macedonia, pp. 83 ff., and Eretria, pp. 119 ff., plate xxii, Nos. 1-4, 6-10.9

Nos. 20-43 are full figures, made in the round. As a rule, these figures are made in two portions, the front and back halves being cast separately in distinct moulds, and afterwards joined together before baking. The joint may be seen in No. 33, in the fracture of the arm. Very often the halves come off at the joint, and are found separately. In figures, like those of the camels (Nos. 20, 26-28) and others (Nos. 29-31), of course, it is the two sides that are moulded separately.

The most commonly occurring figures apparently are those of They are represented in a great variety of postures and acts, shown in Nos. 22-25 and 32-43. Such as embracing and kissing (No. 37, also Plate XIX of Part I, Nos 66, 67; compare also Plate XI, No. 22), sitting or swinging on a bough and eating (Plate XIX, No. 51; in our Plate, No. 43, where the bough has broken away; so probably also in Plate XIX, Nos. 52, 53; the object, lying across the lap, apparently a pad, to be seen also in Plate XIX, Nos. 54, 61, is not clear); sitting, kneeling, or squatting, and playing on some musical instrument (Nos. 24, 25, 34, 35, also Plate XIX, Nos. 34, 54, 55, 58, 60, 61); sitting meditatively (No. 41; also Plate XIX, Nos. 32, 56, 65, 68, 74); sitting and holding a stick or other object (No. 36; also Plate XIX, 64); wearing a short tunic or a "comforter" (Nos. 22, 39). In No. 40 the monkey is represented with a goat's head; perhaps also in Nos. 23 and 38. the other hand, in Plate XIX, No. 70, twin monkeys, playing on a lute, are represented with the body of birds. Often, especially when playing musical instruments, they are represented ithiphallic (Nos. 23-25, 34, 35,

⁹ Compare also the similar mask of a youth with bull horns and ears, in Professor Furtwängler's Bronzen von Olympia, Plate LXVIII, No. 1274.

¹⁰ Compare No. 1313 in Professor Furtwängler's Beschreibung der Vasensammlung im Aquarium, which describes an archaic vessel, made in the form of "a tailless ape, sitting on a stool, entirely covered with dots (to indicate hair), right hand on the knee, left hand raised to face, as if wiping it." See also Birch's History of Ancient Pottery (New Ed. 1873), p. 53, which describes Egyptian vases with handles representing "apes seated and holding forepaws to their mouths." Also Furtwängler's Bronzen von Olympia, Pl. IX, No. 81, showing "squatting monkey with arms encircling his drawn-up knees."

also Plate XIX, Nos. 68, 73, compare No. 74). The body is often shown covered with hair, indicated by incised dots or minute strokes (Nos. 33) 40, 41, also Plate XIX, Nos. 65, 66, 68, 73, 74, probably also Nos. 23, 36, and Plate XIX, Nos. 60, 64), but quite as often perfectly hairless (Nos. 24, 25, 32, 37-39, 43, also Plate XIX, Nos. 51-59, 61-63, compare . especially No. 66 with No. 67). A common musical instrument is the syrinx or Pan's pipe, consisting of seven reeds, and being either of the usual form of an irregular (No. 24), or of a regular (No. 25) tetragon. 11 A kind of harp is seen in No. 34 of Plate XIX, a lute, ibidem, Nos. 55 and 70, a pair of cymbals, ibid., No. 60, a small Indian drum, ibid., No. 61, another kind of small drum, ibid., No. 54, a kind of wind instrument, ibid., No. 58.18 In Plate XIX, No. 56 a monkey is represented hallooing through his hands, and ibidem, Nos. 52, 53, 57 whistling with his fingers (unless the act of eating is intended). All this is very suggestive of the earlier and coarser forms of the Greek Satyr and Pan, with his hairy coat, in ithiphallic condition, playing on the syrinx. 18 The aspect and habits of the monkeys readily lent them to such representations. It may be noted, also, that in the Atharva Veda the musical Gandharvas sometimes appear in the form of monkeys, and thus they are clearly related to the Greek Satyrs and Pans. 14 In Nos. 4-6 of Plate IX, probably performing Gandharvas are represented. In Dr. Sven Hedin's collection there is the fragment of a neck of a jar, which shows a whole circle of Gandharvas performing on drums, harps, syrinxes, etc. Noteworthy is the existence of the syrinx on artware of Eastern Turkestan. That instrument has never, so far as I am aware, been observed in Indian art. In Nos. 20 and 26-28 we have the two-humped Bactrian camel which is also seen in Nos. 15, 27, 28 of Plate XIX. The one-humped species is never represented (but see below on Plate XIII, No. 27). In Nos. 29 and 30 we have a horse saddled and mounted. No. 31 shows a leopard.

J. 1. 7

¹¹ Both kinds are frequently seen on Greek vases in connection with Pau; thus the regular on Nos. 2900, 3164, 3239, 3240, 3243, 3258, the irregular on No. 4137 in Professor Furtwängler's Beschreibung der Vasen Sammlung in Aquarium (pp. 804, 874, 895, 896, 900, 912, 1042).

¹³ With No. 58 compare No. 1316 in Professor Furtwängler's Beschreibung, representing "an ape, with the left hand raised to the head, with the right holding to the mouth a long, sausage-like object and eating it."

¹⁸ For representations of ithiphallic satyrs, see the old Macedonian coins (of the 5th cent. B.C.) in the British Museum Catalogue, pp. 77, 79, 216. With the satyr veretrum tenens on pp. 78, 80, compare Nos. 34, 35 of our Plate. For a human figure in the same posture, see above, footnote 5.

¹⁴ See Professor von Schroeder in Neue Entdeckungen Buddhistisher Alterthümer in Ost-Turkestan (Wiener Zeitung, 2nd and 3rd March, 1900).

PLATE XI.

This Plate shows a number of heads and busts, male and female. They are all made in the round, and cannot, therefore, have been intended to decorate vessels, like the faces or masks, shown in Plate X; but whether any belonged to full figures, and what use they subserved is, in many cases, not apparent. In the case of No. 16, the head is fixed, with a wooden peg, on a small decorated pedestal, and the whole seems to have formed a kind of knickknack, 2½ inches high. A similar pedestal, found separately, is shown in Plate XIII, No. 8 (also in Plate IV, No. 13, of Part I); and this fact proves that such "knickknacks" were not uncommon. But other heads and busts or half-figures can hardly be explained in this way. On the other hand, fragments of arms or legs or trunks—such as one would expect to find, if any of the surviving fragments belonged to full figures—there are none in the collection, and they do not appear to be found. The large head, shown as No. 1, which is hollow, with a round aperture on the top and in the neck, may have formed the neck of a vessel, like some archaic vases found in Cyprus, Rhodes and other places, and figured in Plate LXXXV of Louis Palma di Cesnola's Cypern (tr. by Ludw. Stern).

All these figures were made in two halves, front and back, in separate moulds, and were afterwards joined together before baking. Some, like Nos. 1, 5, 10, 12 are made hollow; but most of the smaller ones are solid; e.g., Nos. 3, 7, 8, 9, 13-21. The head was sometimes made separately, and provided with a socket bolt (as seen in Nos. 8, 19) with which it was fixed in an aperture between the shoulders. The heads of the busts, Nos. 14 and 15, are fixed in this manner. There was a great variety in the fashion of arranging the hair, of both men and women; also in dressing the beard. The coiffure of men is illustrated by Nos. 1-14; of women, by Nos. 15-21, and 23-26. No. 22 shows a man and woman in embrace; compare their head-dress with those in Nos. 9 and 19. Some male heads approach closely the female type, as in No. 4. Others, as in Nos. 5 and 14, show a sectarian mark, in real life probably painted, on the forehead. On the other hand, No. 13 seems to indicate tattoo marks in the form of dotted circles, or they may be intended to indicate hair, as in Nos. 5 and 12. No. 14 shows a man wearing an amulet, suspended from his neck; but it is not clear what the object may be which he is holding on his back. Nos. 15, 16, 17 show different styles of female coiffure from the front and back. Nos. 18-21, 23, 24, give the front view, and Nos. 25, 26, the back view of some others. Nos. 15 and 18 also show the upper portion of different fashions of female dress. No. 22 shows the head-covering, and jewelry (bracelet, armlet, necklet, etc.), worn by men and women.

PLATE XII.

This Plate comprises only antiques of a distinctly Buddhistic character. No. 1 is a portion of a wooden board, measuring about $11\frac{1}{3} \times 5\frac{1}{2} \times \frac{5}{8}$ inches. Left side, top and bottom are entire; on the right side a portion is broken off. It is painted on both sides with sitting figures of Buddha with aureole behind, done in the Indian style. The hair is black in one figure, and blue in the other. Their drapery is in reddish brown, and the nude parts in a pale carnation. The concentric circles of the aureole are alternately reddish brown and yellow. The outlines of the figures also are in reddish brown.

Nos. 2 and 3 are of painted stucco, measuring about $5\frac{1}{2} \times 4''$ and $4 \times 3''$ respectively. No. 2 represents an Apsaras (or female Gandharva), holding a garland, and rising out of a lotus. The lotus is red, the figure white with black hair, the garland also white. No. 3 shows Buddha, sitting, as usual, cross-legged with hands folded in the lap, on a lotus pedestal, and against a double aureole of lotus leaves. The Buddha is fully draped in blue, his hair and top-knot are black, face and hands white. The inner aureole, immediately behind him, is red; the outer is blue, like the drapery. The pedestal is white.

Nos. 4 and 10 are Buddha heads of grey sandstone, much worn, measuring about $4\times2\frac{1}{3}$ and $8\frac{3}{4}\times5$ inches respectively. (The smaller head is also shown in full size in Plate IV, No. 19, of Part I). Peculiar is the arrangement of the hair and top-knot, in the larger head, No. 10, in concentric semicircles, arching over the forehead. I do not remember having observed this peculiar arrangement elsewhere in any representation of Buddha.

Nos. 6, 11 and 12 are carvings in black slate, and of very good Græco-Buddhist art, such as are well-known from the Indus regions. They appear to be the oldest pieces in the collection, and probably do not come originally from Eastern Turkestan. The drapery of the sitting figure on the back of No. 11 is exceedingly good, and suggestive of pure Greek art. No. 6 is the capital of a small Corinthian pillar, measuring $1\frac{1}{2} \times 1$ inches. The upper portion is divided into four sections, containing representations, alternatively, of sitting and standing Buddhas. No. 12 seems to be a portion of a small pilaster, $1\frac{3}{4}$ inches high, with a flat, smooth back, while the front is carved with figures one above the other. The upper one is a kneeling figure, with hands folded in adoration. Of the lower figure only the head remains. No. 11 is a piece of

15 In the Terracotta Room (comp. 84) of the British Museum, there is a Sicilian plaque (of the 3rd-1st cent. B.C.) in the form of the bust of a winged boy rising out of a lotus. This is the only instance of a similar object that I have noticed in the British Museum or other collections.

slate carved on both sides, and uncertain what it may have belonged to. It measures about $3\frac{1}{4} \times 1\frac{3}{4}$ inches. The front is carved in a series of panels, containing Buddhistic scenes. The middle panel shows Buddha in the witnessing attitude (right hand pointing downwards over the right knee), surrounded by Māra's host. The lower panel shows him in the teaching attitude (right hand raised), surrounded by his disciples. The upper panel is wholly broken off, together with the head of the figure carved on the back. This figure, beautifully draped, is represented sitting on a cushioned stool, the feet placed on a footstool and the right elbow resting on the right knee, the head inclined forward and supported by the right hand. Under the seat is seen a vase or water-vessel, resembling the Indian surāhi.

Nos. 5 and 7-9 are of copper or bronze. No. 5 is a piece which appears to have served as the background to a separate figure of Buddha. It represents an aureole made up of an arch formed of several minute Buddhas, each sitting on a stalked lotus. Five of them are preserved; the total number probably was seven. They are shaped exactly like, but only about half the size of, the Buddha figure of No. 7, which is shown in full size. The latter has a knob on the back, showing that it was once attached to an aureole, similar but larger than that seen in No. 5. No. 9 shows a similar series of seven Buddhas, sitting in a level row on the branches of a tree. The whole must have formed the top ornament of some other object. No. 8 shows the usual figure of Buddha, sitting cross-legged and with hands folded in the lap, fully draped, and with a small circular nimbus behind the head. The figure sits on what looks like the imitation of a carpet, and against a similar, nearly circular, aureole-shaped carpet worked with wreaths, hung up behind.

PLATE XIII.

This Plate contains a number of miscellaneous objects, among which Nos. 1-3 and 5-9 are of terracotta and come from Yotkān in the Borazan tract near Khotan. Nos. 1-3 are the heads of a boar, a bull, and a horse, and may have belonged originally to full figure animals; or they may have formed ornaments stuck on to the body of vases, like the half-figures of horses springing from some sepulchral vases found in Canusium, Calvi and Capua, and to be seen in the Terracotta Room of the British Museum. No. 5 is a curious head, half man and half beast. It is perforated through head, neck and mouth, and may have formed a spout. 15 This may also have been the case with No. 6, a large (2\frac{3}{4} \times 1\frac{1}{2}")

16 In the Ashmolean Museum in Oxford there are two archaic vases from Cyprus (of the Geometrical Period) which have spouts in the form of a bull's head and neck. well-formed phallus, which is perforated, and bears a small inscription (yā-vu-du-pa-jā-ā) in Brāhmī characters of about the 5th century A.D., but in an unknown language. No. 7 which, at first sight, suggests a seal-ring, belongs really (as shown by a specimen in Dr. Stein's collection, Preliminary Report, Pl. I A) to a small, narrow-necked vase, of which it forms the handle, being fixed to its shoulder, with the head of the animal (cp. Plate X, No. 31) pointing downwards. Some three-handled vases, shown in Professor Furtwängler's Mykenische Vasen, Plates I, 1; V, 28 A, 28 B, are provided with exactly similar handles. No. 8 shows top and bottom of a decorated pedestal of the kind of "knickknack" already referred to in connection with Plate XI, No. 16. No. 9 is a small object in the form of two small peacocks ($2\frac{1}{8} \times 1\frac{1}{8}$ "), placed back to back, front and back of the piece being exactly alike; the feet, if there were any, are broken off. What use the object may have subserved is not clear: perhaps it was also a "knickknack."

Nos. 4 and 11 show two very crude figures, animal and human, made of sun-dried mud. I believe myself that they are modern fabrications. They bear, on the forehead of No. 4 and the top of the head of No. 11 the impression of a small oval stamp (like an Egyptian cartouche) inscribed with four "unknown" characters. One of these characters is quite clear, and is identical with No. 33 of fig. 1 in Table I (Formula of Blockprints No. IV). Another is apparently the same as No. 3, ibidem. The other two are not distinguishable. As a model for No. 11 may have served some figure like No. 12.

This figure, No. 12 as well as the objects shown in Nos. 13-15, 17-20, 23-26 are apparently made of brass, or very light colored bronze. They are thickly covered with verdigris. Though there is no particular reason to doubt their genuineness, their age and provenance is quite This remark also applies to the remaining objects shown in Plate XIII. The two horsemen, shown in Nos. 14 and 15 are those referred to in the Introduction, p. xxi. The saddle-pad on which the riders sit is real cloth, in a very rotten state. No. 17, a plain horse, is hollow, as may be seen from the fracture in front. No. 18 appears to represent a Garuda, holding a snake in its beak. The body of the snake (on the left in the Plate) winds in a double circle, arranged so as to form a socket for holding another object; and the feet of the bird are set on a small, semicircularly bent plate with which it could be fixed to something else. No. 19, resembling the terracotta masks, is much corroded, and the most antique looking of the lot. No. 20 shows the arrowhead, referred to on page 67 of Part I of this Report.

Nos. 21, 22, 27, 29 and 30 are made of different kinds of minerals. No. 21 appears to be a mould cut into a soft grey stone (soap-stone?). In the middle a helmeted soldier is seen sitting on the ground, surrounded by a zigzag line, outside which is seen a large face and some undecipherable writing. The object, shown in No. 27, made of a soft white stone, looks like a single-humped camel, but the completeness of it is doubtful. No. 29 shows a curious object, made of a soft cream-coloured stone, being a grotesque human twin figure, in which every part, except the pair of feet, are duplicated. No. 30 is a pin (broken hair-pin?) of white jade. There are two such jade pins in the collection.

The two objects shown in Nos. 28 and 31 appear to be made of horn The former represents a dragon (in the form of a spout?), the latter a pair of fishes (of the zodiac?).

PLATE IV of Part I.

No. 1 shows two sections of what appears to have been a large circular embossed copper-plate, cut up into large quadrangular pieces. Some of these were used as guards in the binding of some blockprint books (see, e.g., No. VII on page 75 of Part I of this Report). Nos. 3, 4, 6-9, and 11 show some pieces of copper, similarly used. Some of these (No. 3) imitate the genuine Urtuqi coin shown in No. 2 (same as No. 20 in Plate I of Part I) and described on page 31 of Part I (see also ibidem, p. 54). The genuineness of all these pieces of copper is much open to suspicion.

The other objects, shown in Nos. 12-21 are, no doubt, genuine, though with respect to some of them the age and provenance is quite uncertain. Certainly ancient are the terracotta pedestal, No. 13 (see above under Plate XI, No. 8), the stone head of Buddha, No. 19, and the bronze Sitting Buddha, No. 15. The bronze objects, Nos. 20 and 21, which are much corroded and sand-worn, are also antique. No. 21 shows the front and back of a very curious human figure. The objects, shown in Nos. 14 and 16 are made of a soft grey stone, and appear to be fragments of a casket. The figure of a bird (goose?), No. 18, is made of brass or pale bronze. It is provided with a knob or botton in the hollowed-out interior, by which apparently it could be fixed to some other object.

PLATE XIX of Part I.

This Plate shows a variety of miniature objects, most of which have already been described. For Nos. 2-11, see Part I, Section I, pp. 37 ff.; and for the remainder, see the remarks on Plates VIII-X. The objects shown in Nos. 1, 12-24, and 26 are of metal, mostly bronze; Nos. 21 and 22 seems to be of lead. No. 1 is a sort of sceptre surmounted with a figure of Buddha, No. 18, the same with a closed fist; Nos. 13 and 14 are two rosettes, No. 15 is a two-humped camel, perforated,

perhaps to be worn as a trinket or amulet; No. 17 a sitting lion (?); No. 18 the head of some animal; No. 19 a sitting Buddha; No. 20 a hand with a bird poised on two outstretched fingers; No. 21, a jug; No. 22, a cock; Nos. 23 and 24, apparently two vases.

No. 25 shows four perforated beads, made of different minerals. Nos. 29-36 and 38 are objects made of various kinds of soft stone; No. 37, is of white agate. Nos. 39-74 are made of terracotta. No. 69 seems to be a monkey torso, and No. 71 a monkey mother carrying her young slung on to her back. No. 70 is a curious twin figure, made up of bird (the same as in Nos. 49, 50) and monkey. Every part is duplicated except the pair of arms with which the twins play on a lute (the same as in No 55).

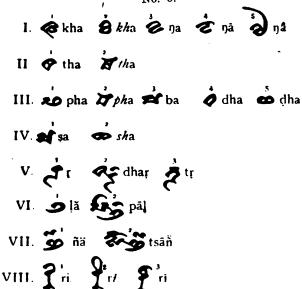
APPENDIX.

TRANSLITERATION OF

Weber MSS. Part IX and Macartney MSS., Set I. (See pages 18 and 19 of my Report.)

Note: Many words and letter-groups repeat themselves frequently, and thus afford a fairly safe means of restoring the text. Such restorations are not specially indicated. Restorations which are open to doubt are enclosed in round brackets. Letters which have entirely disappeared but are capable of restoration are shown in angular brackets. Other lacunae are indicated by dots whose number corresponds to the probable number of missing letters. With the help of the two Indexes the restorations can be readily controlled.

The text contains a certain number of new letters which are not found in the ordinary Brāhmi alphabet. They are shown in the subjoined list:—



No. I, 1 is the ordinary Brāhmī kh as in khadīrā fl. 198 for Sanskrit khadīra. No. I, 2 is seen, e.g., in prapuņḍarikha fl. 103 for Sanskrit prapuṇḍarika. The former is found exclusively, the latter, as a rule, in Sanskritic words.

J. 1. 8

No. I, 3 is a slightly modified form of the ordinary old Brāhmī ŋ, as seen (e.g.) in ŋeteni fl. 282 for Sanskrit khedenī, and in the lettergroup kaŋi fl. 353. It is preserved in the so-called khoŋ-seŋ or "lion-hearted" characters of Tibet (10th century; see Sarat Chander Das in Journal, Asiatic Society of Bengal, Vol. LVII, 1889, Plate V, b) and in the Tibeto-Chinese Pa'-sse-pa script (13th century). The signification of the upward curve in No. I, 5, as seen (e.g.) in ŋâlya fl. 422 is uncertain. Provisionally I take it to be a variant of the mark in No. I, 4, seen (e.g.) in ŋākaṁ fl. 123, where it is the ordinary Brāhmī mark of the long vowel ā. In the Transcript it is distinguished by â. Both, Nos. I, 4 and I, 5 are very uncommon, and are found only in non-Sanskritic letter-groups. No. I, 3 is found only exceptionally in Sanskritic words.

No. II, 1 is the ordinary Brāhmī th as in ruthir fl. 41^8 for Sanskrit rudhira, and in sāpatha fl. 38^4 for (probably) Sanskrit çapatha. No. II, 2 does not occur in any Sanskritic word, but may be seen, e.g., in the letter-group thaskemdhar fl. 26_3 . I take it to be related to th, as kh is to kh, and as ph to ph.

No. III, 1 is the ordinary Brāhmī ph as (e.g.) in trphāļ fl. 66 for Sanskrit trphalā. It is found only in Sanskritic words. No. III, 2 is seen (e.g.) in phatsañ fl. 386, a variant of ptsāñ fl. 41 and in çāripha fl. 86 for Sanskrit çārivā. Nos. III, 3, III, 4 and III, 5, which have similar forms, have been added for comparison. No. III, 5 is the ordinary Brāhmī dh, as in mādhakha fl. 12 for Sanskrit māthaka.

No. IV, 1 is the ordinary Brāhmi ş. Both it and No. IV, 2 are seen in prativişa fl. 245 and prativisha fl 285 for Sanskrit prativişā. No. IV, 2 also occurs in pūrņakosha fl. 225 for Sanskrit pūrņakoçā; but otherwise it is confined to non-Sanskritic letter-groups.

The exact power of the four new signs (Nos. I 2, II 2, III 2, IV 2) is not known. They clearly indicate variants of the corresponding four Sanskrit sounds, and suggest themselves to be, probably, spirants of the respective classes $(\chi p, f, sh)$.*

No. V, 1, when occurring at the beginning of a word, represents the ordinary Brāhmī cerebral r vowel, as in reabhakha fl. 6. (cf. 13₁) for Sanskrit reabhaka; but at the end of a word it has consonantal force,

* On these new signs see, also, my paper on the Weber Manuscripts in the Journal of the Asiatic Society of Bengal, Vol. LXII (1893), p. 1 ff., and a paper by Professor Dr E. Leumann on "Eine von den unbekannten Literatur-sprachen Mittelasiens" in the Mémoires de l'Académie Impériale des Sciences de St. Pétersbourg, Série VIII, tome IV (1900). The three signs Nos. III 2, III 5, IV 2 are wrongly identified in these papers. The true identification of the sign No. VI, I was first suggested by Professor Leumann in the paper above named.

either with the inherent vowel & (No. V, 1) or without it (No. V, 2), as seen (e.g.) in kesață fl. 185 for Sanskrit keçara, and in çakkār fl. 316 for Sanskrit çarkkarā respectively. Attached to a consonant (No. V, 3), it has vocalic power, as in vṛka fl. 333 for Sanskrit vṛka.

No. VI, 1 probably expresses the cerebral | consonant with the inherent vowel ă, as in pratipală fl. 34° for Sanskrit pratibală, and No. VI, 2 expresses the same without the inherent vowel, as in pippāl fl. 214 for Sanskrit pippala. In the beginning of a word, No. VI, 1 may have vocalic power, as in lttsauñe fl. 92. It occurs, in this way, in no Sanskritic word.

The exact signification of the double dot, shown in Nos. VII, 1 and VII, 2 is uncertain. It occurs only with the inherent vowel \check{a} , and would seem to indicate some modification of that vowel. A curious exception is its occurrence with the vowel-less palatal consonants \tilde{n} and c, as seen in the letter-groups phatsā \tilde{n} fl. 385, natatā \tilde{n} fl. 116, ktse \tilde{n} fl. 142, pelk \tilde{n} fl. 323, kauc fl. 141. I have transcribed it with a double dot. With the exception of ma \tilde{n} cast \tilde{n} for Sanskrit ma \tilde{n} jisth \tilde{n} , it is found only in non-Sanskritic letter-groups.

There are two forms of the short i vowel, shown in Nos. VIII, 1 and VIII, 2, and seen (e.g.) in pippāļ fl. 4^5 and pippāļ fl. 27_2 , both for Sanskrit pippala. By way of comparison the long $\bar{\imath}$ is shown in No. VIII, 3. The signification, if any, of the difference of the two forms is unknown. The high-pitched form of i (No. VIII, 2) occurs only 35 times, divided almost equally between Sanskritic words and non-Sanskritic letter-groups. The fact that both forms are found indifferently in the same word (e.g., in pippāļ) seems to negative the suggestion of any significance.

The numeral figures 1, 2, 3, which occur not unfrequently in the text, seem to subserve the purpose of interpunctuation rather than of indicating numbers or quantities. As a rule, they are placed after words of Sanskritic origin, and thus serve to indicate (or italicise) such words; but they are occasionally found also in connection with non-Sanskritic letter-groups, see, e.g., fl. 4_{A} 5.

The words, printed interlinearly in small type, represent the remains of writing which, in an inverted position, cross and overlie the large-print words in the line immediately above them. With the help of a mirror, a practised eye can recognize them without much difficulty.

Leaf 1. Reverse.

- 1 [ma]hāmedha 1 (varaŋga-tvacä) 2 çaileyakh 1 akaru 1 sprikh 1 devadāru 1
- 2 [çirişa]-pushpha 1 pra(puntarikh) 1 açvakāndh 1 çāriph 1 mañcaşta 1 çabara-lo-
- 3 [tr 1] veteni 1 nicitakāmph 1 kiūcelle 1 pissau 1 erka-[ttse] . .
- 4 . . . [ki]rodh 1 pu[na]rna[pha 1] (kākoti 1 kṣi)[ra-kākoti 1].
- 5... [ampr]ta-pātr 1 bilamati 1......

Leaf 2. Obverse.

- 3 . . . [a]rirākha-ṣṣana ta(notsi 1) arkņa-ñ(ñai enme)[lya]-
- 4 [ttse nā](kte) māḍhakh trau-ynārc 1 kosnau po (kodh) taratha-see
- 5. (ŋŋa)le şe-ske se cŭrnä keŋiye ŋe-tts[a] kante shpharka-(shsha-lle nâ.)
- 6 · (ñe kṣe se-ttsa lāni) yama-shsha-lona 1 kete ratre kra(keto-nta alā-)

Reverse.

- l (shsham) . . . la alā-shsham . ṣkara . (dhatam ça-) l ku ļ sa kre
- 2 (rkŋāsa) şṭal[l]a-sha-lle sa thaskeṁdhar po kre ttauna sakna

- 3 . n(ji . i) spati 1 tejapati 1 pāṭha [1] . . (ra) . . .
- 4 . . cabara-lotr 1 sesath sa . thaskendhar) . . .

Leaf 3. Obverse.

- 3 . . . spakaim yama-shsha-llona 1 (mo-)tstsa āçne [ya]ma-shsha-lle
- 4 (pharsarem) nakh=sham mlutā-lle sākha-shsham (smām pāmo) nālya po-tstse
- 5 kar=tse n jär miye-tsa rätre 1 sakäpce 1 sarjayarth 1 . yeyakh 1
- 6 . . . (kutumñcikh 1 mi-tstsa tslāñi) yama-sha-lona (payro) . tha-

Reverse.

- 1 skemdhar sakāpce 1 çmur 1 neteñi 1 styoneyakh 1 tom tranmāsar çai-
- 2 leyakh 1 sprikh 1 takaru 1 ŋraçkai-ṣṣa pyāpyo 1 tsa pāñcentha ŋŋa(ta 1)
- 3 . (rkārļ) payāceyakh 1 tamāla-patr 1 nampatsake 1 se-
- 4 (me-värth) nar phaksa-lle pra-lle syālña
- 5 . . . (priya)ŋku l arirākha-(ṣṣana-ntha ŋŋata)
 [tara]tha-ṣṣo . na 1
- 6 (punarnava) (sata)

	Leaf 4. Obverse.
2	devadāru 1 sarjarath 1
3	madhukha 1 (dhu)rani 1 çabara-lodr 1
	. 1 malkņer trau 1 kātso sonopha-lya 1 kuñcidha-see[salype] ma-
	lkŋer=sa phakṣa-lle 1 yāmusai kātsa muska-shsham n pippā 1 kaṭuka-ro-
6	hiņi $\hat{1}$ (prativisa 1) tamala-pādhar 1 açvakāndha 1 çirisa-puspä 1 .
Reverse.	
1	kurkatha-şşi ptsān 1 devadāru 1 nicitakāmph 1 pissau 1 ne-
	tene 1 tranmār kuñcīdha-şşe şalype çakh trau-nta malkıjer-sa phakşalle
Q	. ñc 1 thaçça te sa sanāpa-tsi 1 pau-skem sa . na
	vedene 1 kurkkatha-şşi [ptsañ] 1 ka
J	kaţuka-rohiņi 1
	Leaf 5. Obverse.
2	malkner te sa ph aksa-lle [ph a-]
	(kṣa-lle a)çca-ṣṣana te katma po näksem
	shsham n mancaeta 1 cabara-lottar 1 tamala-pā(dhar)[1 pi-](ssau 1)
	cŋācka-sse mrestīge ŋar=sa phakṣa-lle pharçerim nakh-sham 1 sūdha (tharŋā)ñe
6	e erkha-ttse yasoñña kre miya 1 ntha ŋkandha pyāpyo 1 (ḍharta-)
	Reverse.
1	(kur lo)ntā-şşe . ne (sa) trīnjä-shsha-lle khalka-ñc=nilu(tpā)l=le-

- 2 (khetene 1) syā-lle (ye)re nakh=sham a kaşşu 1 takaru 1 açvakāndha l apa-
- 3 mārga 1 pādha 1 katuka-rohiņi 1 ancām (vandha) . . . (nca)1
- 4 . . ā malkņer=sa ā nmeņa

Leaf 6. Obverse.

- 2 nicitakampha 1 nilotpāļ 1
- 3. (sprikh 1) pārivelakh 1 kākori 1 kṣīra-kākori 1 [tamala-]
- 4 pāttr 1 amprta-pāttr 1 medha 1 mahāmedha 1 jī[vakha 1](rsabha-)
- 5 kha 1 yärper 1 kirokh 1 erka-ttse sarjaratha 1 çarapha 1 mañcästä 1 ve-
- 6 dene 1 pissau 1 priyangu 1 māḍhakh 1 viçīr 1 tṛphāļ 1 punarnapha 1 na-

6

500 Jr. 11402 2

Reverse.

1 şesāth kutumñci[kh] [kosāñme) şpakaim yama-şlona

2 . (lle) ārkni [yama]-shsham • çabara-lodr 1 prapuṇḍarikh 1 (tamala-)

3 (pātī 1 ke)leyakha 1 nilutpāļ 1 pi(ssau 1 şesāth ŋar=sa)

4 . . phakṣa-lle mi-tstsa ṣpakaim yama-şlona 1

5 arirā(kha-ṣṣana)

Leaf 9. Obverse.

2 rya todh arkija-ñai enmelya-ttse
3 [1] le tukh lttsau-ñe sa spakaim yama-slona (tak-nasno todh)
4 tamala-pāttr 1 açvakāndh 1 avamārga 1 çabara-lotr 1
5 (vedene 1) mañcüştä 1 devadāru 1 ārkui-çakkār 1 takaru 1 çirişa-
6 puṣpā 1 kirodh 1 ŋatātha nta 1 khanarñata-ntha ŋkata 1 kutumñ-
cikha 1
Reverse.
1 (kosnau po) kodh satke-nta (rasno todh) rimmākka-ṣṣa pyāpyo (sa ṣpa)[kaiṁ ne]
2 taşa-lle 1 tarya traino-şşai (mai)ki ne taşa-lle 1 tukh lttsau-ñe sa şpa-
3 kaim yama-slona 1 sā amārra . (spakiye) tsa-ssana
4 nakh=sham .o nar=nai 1 (sā) . musaka
5 (mañcāṣṭā 1 nilotpāļ 1 prapuṇḍarikh 1 çāripha)
6 (prapundarikh nar=sa)
The state of the s
Leaf 10. Obverse.
2 (mañcäṣṭä 1 nilotpāļ 1)
3 [rimmā]kka 1 tamala-pātr 1 kar=(tse khanarñata-ntha ŋkata 1 ku-)
4 ñcidha-sse salype sa shpharkka-sha-lle 1 nar-sa (spakaim) yama-slo-
5 na pharçeri nakh=sham mame pi ypa-ttse traksim 1 pissau-şşe kaşāysa
6 (şukhdh lkıjar=ŋa) shpharkka-shsha-lle (yere-tsa-şşa vāko l şukkāră . e .
Reverse.
1 . shpharkka-sha-lle 1 tharqanā laiko aşiye malkŋer=sa (şukhdh) shpharkka-
2 shsha-lle thaçça [ke]te kosāñme selaiko tuce pi ye-tse-ttse [ma]-
3 ñcāṣṭā 1 çabara-lodṛ 1 prapuṇḍarikha 1 (rimmā 1) çañcapo 1
4 .e . [ça]kkār 1 spaitu 1 netene 1 ypiya (yäkṣīye) 5 [platkāre] thaçça (kete 1 selaiko 1)
platkarej maçça (kete i selaiko i)
Leaf 11. Obverse.
2 lle 1 tumem tom satke-nta 1 le pale
3 (na)kh=sham lotr 1 çabara-lotr 1 mañcästä 1 prapu-
4 ndarikh 1 ārkņi-çakkār 1 kirodh 1 platkāre thaçça kete 1 a-
5 (şiye) dharse-lle 1 selaiko ārkņi yama-sham 11 prapuņdarikh 1 trā-
6 (kham) . (mokra) . (natatān) yŋāc-trau çakkār trākham pissau
${\sf tr} ar{{\sf a}} k h {\sf am}$

Reverse.

	(le ko ye-tse asvakāndha 1 medha 1 prapunta-) (rikha 1 çabara-lot; 1 çakkā; 1 mañcä)[sṭä] 1 ŋetene 1 (su)						
	(sna)						
	netmem spaitu 1 pissau 1 .edh (thaçca kete)						
4	[selaiko] pharçerim nakh=sham ama[lākh] 1 (nilotpāļ) 1						
5	(ñai) .ee						
	Leaf 12. Obverse.						
2	(ma). (dhar) (ŋar) pyapya-ttse ŋelkī						
3	ră 1 pissau 1 çabara-lotr 1 kāla						
4	(tran) māră 1 kante (shpharka) ŋâkhdh tran phakṣa-lle dharyā kaṇi şesāth						
5	.e-($\mathfrak{s}\mathfrak{s}\mathfrak{s}$) ph ak $\mathfrak{s}\mathfrak{s}\mathfrak{s}$ -lya se ri-tsa ma-tsi ŋak \mathfrak{s} āllo-n th a kellera						
	. lle ko .o .en 1 (pippa) lä-ssa . lsdhana nadh çar tasa-llo- .th thaçoa kete selaiko ne yama-shsham s pippaja						
	Reverse.						
	[na] (thaçça kete) . (natre) rom phasdh phaksa-lle (kete astare tumem snailyokai) māḍhakha-nta çakh 1 phaksa-						
૧	llona 1 thakte näkam tumem çci (rem) vacca-lle nå-						
	tumem mo-tstsa rā(tthe) phakṣa-lya ma						
	Leaf 13. Obverse.						
_							
	traino (cā)na-lle						
	[sa]tke-nta-mpa phaksa-lle						
	madhuyaşti 1 padmakha yŋārc=trau aşiye malkŋer=sa [phak-ṣa-]						
	lle se mastu-kārth çeçu ŋer posdham yama-shsha-lle 1 todh māyi .						
o	. (tharŋāna ṣa)ŋoe tthar (ŋe)tene (su)tha-shsha-lle eça .						
	Reverse.						
1	. sa th askendhar 1 smāyamu 1 jīva kh a 1 rsabha kh 1 medha 1 mahā[medha]						
2	kākoți 1 kņīra-kākoți 1 mudgavarņi 1 māsavarņi 1 ma(ncașța 1 ku)-						
3	ncidha-şşe şalype aşiye şŋarāpksa pha(kṣa-lle)						
4	sekh tharŋāna (sono)[pha -lle]						
	\dots reabha kh \dots						

dhaka .e

Leaf 14. Obverse. 2 (poke) ktsen sanāpa-tsi 1 (grenthe) 3 . . . thaskendhar 1 (lākhsh 1 pissau) [ça-] 4 (kkār 1) cmur 1 (sacca-esa) ni . ko 1 klenka! . . . [ypiya] 5 yäkşiye 1 te (tailŋi)shphärkka-shsha-lle 1 kṛŋkai-ññe maiki salype 6 . . ñoriya kātso gâ o-tstsa tā . te sa phasdh satha \parallel gâ . . Reverse. 1 cknacko 1 smur 1 krnk[ai]-ñai (maiki) sa kauč 1 canke sa kātso sono[pha-] 2 lya çār kātsa sa nala na-lle çattha-shsha-lle canke te nau-ttse tha-[skem-] 3 dhar n medha 1 mahāmedha 1 kākoţi 1 kṣīra-kākoţi 1 . . . 4. [1] rşabhakh 1 mudgavarni 1...1 ma(ñcästä)..... 5 tamī (şa)mma aşiye mal(kner=sa) Leaf 15. Obverse. 3 . . 1 çatapuşpa 1 caŋām madhu[yaṣṭi] . . . [apamā-] 4 rga 1 su(hi) suratha 1 çirişa 1 koroça ka 1 [şeme-] 5 (ya)rth satke-nta eşe pu(şne) eşe rohini (kete) satke-nta naltsa 1 6 .i . .e . (ta) ssa-lle (se) nisumatpha po nisumatpha . .e . -Reverse. 1 (katuka-rohini) 1 apamārga 1 açvakā [ndha] 1 [tama] la-pātr 1 [ko-2 (sdhe sā)tke-nta gasno todh takaru malkger=sa spakiye yama[-sha-. 3 (lya sā) spakīye yama-sha-lya sā spakī(ye .inā sa) . . 4 [ta]māla-patr 1 (mahişa) 1 prapuņda(rikha) Leaf 16. Obverse. $6 \ldots \ldots \tilde{a} rkn[i] \ldots kh \ldots$ Reverse. $2 \ldots \ldots$, sea . \blacksquare . nkh . . ttha $3 \ldots [sa]$ lype phakşa-lle pra-lle 4 po nakh=sham . .kira Leaf 17. Obverse. 2 (kaşka cŋā) $3 \dots$ pi pra-lle $\mathfrak{n}(\text{jiva})[kha] \dots$ 4. (me) [dha 1 kā] koţi 1 kṣīra-kākoţi 1 (mādhakh) 5. citra.... no(ka. 1 (kuça)nār kālkņe sa.. no(ka) $[m\bar{a}]dhakh$. (nakh = sham)

Reverse.

1	trau-nta lī (pāyi l nak=trau)-[nta] shpha malkyer seme-yärth
2	ncīdha-sse salype 1 nastu-kārth eça te ne kar=tse pāŋe sa shphatam stsi
4	nastu-kartha-nta nesh çpālmem se cipa nidha(rbe) cipa(kha) [pra]hati 1 kaṇḍāri 1 (kirokh 1)[tama]la-[pātr] (pippāļ 1) puna[rnapha]
	Leaf 18. Obverse.
	$1 \ldots 1$ ñca ka $\eta[i] \ldots 1$
	 lakh pāŋe yama-sha-lle .ānem
5	(t _r)1 varaŋka-tvacä 1 nakunakhi I sakāpce 1 sarjarath 1 hrībera 1 rkŋa
6	(ma) ('āko) .e .e sātke (kyäñcidha-ṣṣe) ṣalype
	Reverse.
l	. 1 N(rasecanam) I akaru 1 suksmeļ I tamāla-[patr 1] (çaripha I madhu)[yas](ti)
2	(prapuntarikh 1) nilutpāļ 1 viraņkh 1 hrībera 1 (çarīva pārīvelakh vara-)
	(nga-tva)cä 1 çāripha 1 sālavarņi 1 prçnavarņi 1 musdha (vapa)
	e ti 1 çātapari 1 harenu
	Leaf 19. Obverse.
2	
3	
	çaileyakh 1 nilutpāļ 1 prapuntarikh 1 çāri(pha 1 mus)dha 1 nāga- pa-
ó	(tr 1 pissau 1 çkya)çko 1 cautānā 1 harid[r]a 1 incuna 1 1 trphāļā
3	kuçanār (seme-yär th key) īye kŋäñcidha-sse salype [se]me : ma-
	Reverse.
L	[lkŋe](r=sa) phakṣa-lle 1 n karuṇasāri 1 (punarnapha medha) tṛphāļ 1 (nilutpāļ 1)
2	(pissau) 1 çknaçko 1 cautām 1 pişitaka-mantha 1 kurkatha-sei ptsān tamāla- ka
	patr 1 seme-yärth kenjiye kuñcidha-sse salype . mal-kne-
	(r=sa phakṣa-lle se ṣalype a(cala) suttha iña . ¶

Leat 20. Obverse.
2 (bhṛŋkaracā 1 karuṇasāri)
3 [tama]la-pātr 1 māṣikāni 1 (te curnā)
4 i modha-see nar-sa phaksa-lle 1 trphāl 3 puta-
5 [nakeçi] tr ä 1 punarnapha 1 kurkatha-ssi ptsäñ
6 (çi-şşa) tāno 1) e
•
Reverse.
2 kŋe-ttse
3 (ph)aklıslıa-lya (nânkolma)-nne āy(o) 1 ma
$oldsymbol{4} \ldots$ lle te(po seme-yarth ko)[sdhe]
Leaf 21. Obverse.
$2 \ldots (tha\text{-tsa}) \cdot (ko) \cdot \ldots \cdot \ldots$
3 riñña l 🛊 rasa[ñ]ca(nä) l bhṛ[ŋkaracä]
4 sittāpha 1 karuņasāri 1 çabara-lodhar 1 pişi[taka-]
5 [mantha] (ka) kiā
Reverse.
1 (ntarikh 1 canām I tranmār samtke-nta amalākha pictro-ntha)
2 kha ku spakaim se) phakṣa-lle keṇiye kuñcidha-ṣṣe (ṣalype sa
3 āçce sonopha-lya kar=tse māka 1 cautām 1 (çkŋaçko 1 nilutpāļ)
4 `pippāļ 1 (pissau 1 kurkatha-ssi ptsāñ se[sāth]
5 tāno 1 kodh (1) sā(tke-nta ŋasno todh)
Leaf 22. Obverse.
2 (ŋka erka-ttse pra) . (.ārtha)
3 tse kuñi mo-tsa kālko yama
4 phaksa-lle 1 erkeñce pi kuñcidha-tts(e salype
5 (lle-ttse) pūrņakosha-ññe 1 m(nilutpāļ 1) tāŋa
6 malkŋer=sa elkŋe .e
Reverse.
1 . lle erkence pi kuncidha-ttse salype
2 smām pāmosh ā-tstse luta-see-nca sumām 1 (spaitu) 1 kodh ypa
ttse [tra-]
3 ksim mita-sse par=sa shpharka-shsha-lle 1 pla[tkare thaçça ke]te
(1 pra-)
4 [ttse] shpharka-shsha-lle 1 todh tom satke-nta (tarye)
5 (mañcastä 1 prapuntarikh 1)

Leaf 23. Obverse. 2 . . . [mañca](sta 1 pippā)] 1 (kuñcidha-sse) 3. kuntarkha 1 kodh tom po kodh (tha)skem (dhar) 4 lai)ko tucem ere nakh=sham u pissau 1 s(umām 1 çāripha) 1 mañca-5 (şţä 1 ça)kkār 1 platkāre thaçca kete 1 selaiko ypiya yākşīye plātkāre 6 thaçca kete) 1 malkper=sa shpharka-sha-lle (selaiko) 1 .(toke) Reverse. 1 (le) dhr 2 [tama]la-(pā)tr 1 (çatapuşpa 1) surasa-patr 1 (nicitakampha 1) puna-3 [rnapha 1] kuṣṭa . . . 1 (pissau) 1 mañcaṣṭa 1 cautām 1 (netene 1) 4 . . . tuk 1 rasna 1 hribera 1 ku 5 (caga)la cipakha 1 ṛṣa[bhakha] Leaf 24. Obverse. 2 sa kuçanem satke-nta 1 (açvakāndha) 3 . . [ku]ñcidha-eşe şalype todh keniye 1 4. . . takaru 1 açvakāndha 1 devadāru 1 prapuntarikh 1 5 (çatapari, 1 kākori 1 keira-kākori 1 pippalī 1 prativisa 1 ka-6 (ka o) . . (mañcasta 1 musdha 1) . . (dhari) . . . (mi) . . Reverse. 1 (erkeñce pi) . . . (vari) 2 . . . r .u la 3 bhargi 1 (açvakā) [ndha] $3 \ldots kha 1$ atibala tamāla-pa[tr] \ldots 1 (sprikh) 4 . . . hribera 1 sumām 1 nil(utpāl) 5 ñca vi 'i 1 kaţu[ka-rohini] Leaf 25. Obverse. 2 (bhalātaka 1 ṛṣabhakha) 3 prenavarni 1 4 . . sukşmel payasya 1 jivanti 1 bhalātaka 1 . . (viranka) 5 . . kabija 1 (ancana-rasa) 1 (kanaka)-puspa 1 1 ka-6 ca 1 (pippalī) dhuka . dhuka Reverse. 2 . . nta sa(te)ra . (stu) | nicitakampä 1 . (katma) | acvakā-3 [ndha] . katma 3 katuka-rohini 1 4 . . (taka)ru 1 tamāla-patr tr[au] ka 5 1 prativisha 1 tr[au] . rth

Leaf 26. Obverse. 2 u pā liña) | mā [ñcistä] $3 \ldots$ trau-nta 1 taratha-sse (pyāpyo) . . kha 4. lotr 1 caprasto 1 amprasto 1 priyangu (kuntarkha tranmār) n*th*a rī 5 . . . yojar kha(nthe) nakhdh trau-nta 1 dharya kani trau-nta napa-tsi 1 6 . . . (tamala-pādhar 1 a)karu 1 çaileyakha 1 (pissau 1 mañcastä 1) . . Reverse. 1 tha (tri)kh tom (kalka-ssa) . . . (dhar) . . . 2 . [sa]lype 1 nak=trau-nta se (salype) çancapo-tse 1 mi(sa) . ne . . (tha) 3 . . sonopha-lle 1 prakarya ne thaskemdhar 1 . pra-lle po 4 pipāļ 1 kurkatha-ssi 5 i narse ku . . 1 (ku) Leaf 27. Obverse. 2 (çkŋaçko enmelya-ttse ŋā)[kte] 3 ye çakh I trau-nta kuñcidha-şşe şalype ma[lkner=sa]. 4 (ārkņi) māka yama-sham I lākhsha 1 [mā]ncistä 1 incu-5 [na] . . 1 tecapati 1 kuşta 1 (çata)pari 1 prapuntarikha 1 çabara-6 (tr 1] (.emga)ya Reverse. 1. (malkner-sa kātsa sanā)pa-lle n açvakāndha 1 apa(mārga ni-) 2 (citaka)mpha 1 prapuntarikha mancaşţä 1 pippāļ 1 pissau 1 (snni-.yer=ka-) 3 (rña-ññe) kuñcidha-see salype malkner-sa 1 nici(takampha) 1 acva-4 [kāndha] (apa) mārga 1 caņām 1 tamāla-patr 1 .e 5 . . . [sa]lype malkijer-sa phaksa-lle 6 pissau 1 ma[ñcașta] Leaf 28. Obverse. 2 (ku) . (lle) 3. açvakāndha 2 kuçānem 2 manota(ci) (kucā)[nem] 4 çknaçko 2 devadāru 2 karocuki 1 tom (nyar) kuçānem prapu-5 (ntarikha) kuçane[m] 1 tamala-patr 1 prativisha 1 netene 1 pippāl 1 ku-6 [rkatha-şşi] ptsañ (tom kuçanar) 1 keniye ku(ñcidha-şşe şalype)

(sā) spa-

1 (putanakeçi 1 ta)karu 1 (devadā)ru 1 prapuņļa-2 [rikha 1 ca]bara-lotr 1 mādhakh 1 . yi neteni 1 kaska pippāl 1 pi-3 [ssau] kirodha 1 apamārga 1 tamala-pātr I çknaçko 1 enme-[lya]-4 [ttse ηā](kte) tom kuçanáră 1 kākori 1 (kṣira-kākori 1) . . 5 . . . [kaţuka]-(ro)hini 1 (prativi)[şa] Leaf 29. Obverse. 2 [ypi](ya yäkṣī)[ye] 3. (ca)[tri]na-şle 1 \mathfrak{n} tamala-pāt \mathfrak{r} 1 [ça](kkā)[\mathfrak{r}] 4 . . mañcasta 1 apamārga 1 prapuņdarikha 1 udumba[ri] 5 . . (1) netene 1 kirodha 1 devadāru 1 pissau 1 nicitakampha 6. (kuñcidha-şee).. (şalype keniye malkner-sa phakşalle). Reverse. 1. (rna kātsa) sanāpa-tsi shpha po (ne) kar=tse a kņärkatha-ssi ptsāñ 2 rsil 1 prahati rasna 1 māñciṣṭā 1 devadāru kaṣka 1 lakhsh 1 s[i]tta-3 pha acvakāndha 1 prapuntarikh 1 caileyakh 1 dha . . .e . 4 . dharani 1 seme-yarth sā(tke-nta) 5 (pa-lle) Leaf 30. Obverse. 2 [ma]lkner=sa 3 (cakkā)r pissau 1 vetene 1 (mañcaştā) 4 . . . ese tsunä-shsha-lle tom tarya tsunä 5 . tharqāna 1 thaçca ne kātso 1 poke ktseñä 1 ārkņi pāņe yama . 6 . (ske) a tamala-pātr 1 varanga-tvacā 1 çaileyakh 1 (naladh 1 akaru) Reverse. 1 (parive) lakh 1 jivakha 1 (rapa) $\lceil kha \rceil$ 1 (rapa) 2 çabara-lotr 1 trphal 1 prapundarikha 1 manci(stä 1 pi)ssau me-3 yärper sprikha 1 netene 1 takaru 1 po (kuçanār) keniye 4 [kuñcīdha]-sse salype malkņer=sa (phaksa-lle āçce)[sonopha lya] $5 \ldots o \ldots (le kete)$.e sonopha-lya po Leaf 31. Obverse. 2 (na) thaskemidhar po-tsi) 3 [sa](tke)-nta ktumncikh 1 açvakandha 1 [ku-] 4 ntarkha 1 ārkņi-çakkār 1 ārkņi-kiroth 1 ārkņi-ņetene 1 arkņa-5 ññai enme-lya-ttse nākte l
 natātha-nta lkalāska . na-ntha n
kata l 6 (te po) seme-yärth (kosdhe) nasno todh (rimmākka-sṣa) pyāpyo

Reverse.

1	kiye (kŋer=se-ttse) 1 trppāļ 1 rskarñe 1 eñcu[ŋa-ñe] ke .kh . [ŋâŋ]ko-
2	lma-ññe āŋkhar te seme-yarth kuñcidha-sse salype sa tripä-sle
	āçne lupşa-lle I ā-tstse ma-tsi thaskedhar I kar=tse I # tr-
	ppāļ açamati I sumarādha I (praņkaracā 1)
	[ma]l[kn]er=sa (pharkṣa-lle) pharsare-nth satke 1
	(ŋaça)
	Leaf 32. Obverse.
	l . (դդայա) . (kane kennā)lyīnā-lle (malkŋer=sa)
	(nna) pharsarem-nth pelkiñ u trphāļ 3 (nicitaka) [mpha 1 prapu-]
	ntarikh 1 nilutpāļ 1 cautām 1 pissau 1 priyaņku 1 kurkatha-ssi
	ptsāñ 1 sumagandhä-sṣa tāno 1 pṛṇkaracä 1 karuṇasāri 1 pūta-
6	(nakeçi 1 tamala-pātr 1) sakāpce 1 kaşka 1 çkıyaçko 1 çaileya(kh 1
	açva-) $\mathfrak{g}^{\mathtt{a}kh}(\mathtt{dh})$ Reverse.
1	(kāndh I kuraļā I smuŗā I) sarjaratha I (sprīkh I) kça
_	(akā) .ai .eke
2	.u.khuma kh a 1 rkārļ I pyapya-ttse ņelkī 1 (eñcuņa-ñe ke-tse) 1 te
3	seme-yarth satke-nta 1 skrena-ttse paruna (mlutā)-sha-llona-t pha-
	kşa-lle samtke-nta-mpa skrena-ttse ka $(lakh)$ $_{pha}$
5	(.er miye . (lyī)nā-lya(şke) kkau-ttsa eŋe
	Leaf 33. Obverse.
1	$\dots \dots \dots \dots \dots \dots \dots \dots$
	. (.u keu smādha) . rtsa perā(th) # pippa(li)
	a . i . 1 vrka 1 saindhava 1 vaca a (jamoda)
	(kara) 1 citraka 1 māṣikāni 1 te curnā yama-sha-lle 1 kuñcī-
5	[dha-sse sa]lype sa $shph$ arka-sha-lle tumem ph arŋe-ttsai mālasa
•	yoka-lle
O	yo(yam pre-tsa th askemtr) 1 N amal $ar{\mathbf{a}}kh$
	Reverse.
1	(trau-nta-ttse 1 yŋāc=trau 1) tamalapāt ṛ trau 1 tom [ma] (lykka-
	çke) [kkau-](ttsa)
2	na-lle 1 kuñcidha-sse salype ŋâk=trau-nta 1 malkŋer dharyā kaŋi trau-ntā
3	nla-çkem pü nar=sa phakşa-lle 1 äçce sonopha-lya (ker.ipe) pā-
4	rera ma-tsi thaskedhar po kar=tse l # ārkŋi-(ŋe)[tene]
	1 pissau 1 (ypiya yäkṣīye platkāre)[thaçca kete]
6	(rtha ŋaka)

	Leaf 34. Obverse.
1	(kar=tse ka)
	na(yi) . ta 1 açvakāndha 1 (apamārga)
	tr 1 çatapuşphä 1 pissau 1 kosdhe sa(tke-nta) ŋa[ltsa 1 nicita-]
	kam ph a $f 1$ kuñcidha-şşe şalype şeme pāke ma(lk $f n$ er=sa ph a)k $f s$ a-lle
	se salype thaçca ne sanāpa-tsi 1 te no çār tsuņä-sha-lle 1 açva-
6	[kāndha] 1 kuntarkha 1 pratipaļă 1 (kakoṭakha 1) keṇiye
	Reverse.
,	N. (nke-ññai). k. rtse ke na l
	le sa . ai . shekse
2	(pyāpyo) dhartakur 1 spaitu 1 yesmi ca . (pi) sa spakaim sa
	yama-sha-lona khalka-ñcä laupa-tsi kar=tse ∎ tamala-pātr
	çabara-lot; 1 māḍha/ha 1 mañcaṣṭa 1 aṣiye mrestiye .
5	(malkŋer=sa) (ça kh) (le)
	Leaf 35. Obverse.
1	
	ca kirodha 1 (takaru putana)[keçi] .
	yakh 1 apamārkha 1 [deva]dāru 1 [punarna-]
	(pha 1) sprikha çaripha 1 kşira-kākori 1 nicitakampha 1.
	r.e salype .ai kuñcidha-sse salype malkŋer=sa pha-
6	[kṣa-lle] [kā](tsa) sanāpa-lle ¶ takaru l sakāpce l tamala- cŋācka . ntha ŋŋata
	Reverse.
1	pātr 1 (pārive)lakh 1 devadāru 1 (sā)pādh 1 a tr[phāļ] salype äçne
	șșe le encupa-ne ke-ttse 1 tsa pănce-ntha (npata . nkaș) kath
	trau-nta syese-şşe yar 1 şkaska çkyārat-ske-tsi dharyā kayi-tsi 1
	$[{ m dha}]$ $({ m ry}ar{a})$ kaŋī malkŋer ${ m 1}$ seka(şa .ä ph akṣa-lle musdha) . se şalype
	(ka) 1 oanā
6	(shpharka)
	Leaf 36. Obverse.
3	(şe)sā th a 1 eşe ph akşa-lle
	. lle pharsarem-ntha sätke n pisitaka-mandha 1 (gandha) priya[ŋgu]
5 .	(1 lot; 1) nilutpāļ 1 motarte 1 kotrikh 1 sittāpha 1 te sa m(o)
6	ā-tstse luta- <i>sh</i> aṁ mlutā-lle (sā <i>kh</i> a- <i>shsh</i> aṁ) (ma-) tha

Reverse.

1	(ñcastă 1 akaru 1 tamalapăt; 1). harid; 1 (pissau 1 balā 1) prapunta
9	malkņer=sa ntha r 2 rikh 1 suksmeļ 1 (vi)raykh 1 nilutpāļ 1 hrbera 1 keleyakh 1 pari-
	velakha 1 varanga-tvacä 1 musdha 1 çarapha 1 sālavarņi 1
	propavarni jivanti 1 devadāru 1 (catavari 1)
	i 1 (çata)[puşpa] (ndhä) 1 pa 1 ke . ä
٠	
	Leaf 37. Obverse.
2	\dots (ya 1) \dots (satke-nta) \dots [dharyā]
3	kanî ka-llona kre mo-tsa āçne ya[ma-sha-]lle
4	pharsare-nth sätke çakkar 1 devadāru 1 çañcapo kuñci-
5	dha 1 traino-ssai maiki sa shpharka-sha-lle 1 platkare thacca kete
	1 selaiko
6	ai .e (nakh=sham) 🛊 l(ākhsha) 1 sittāpha 1 ka i .
	spakaim Reverse.
1	
1	(ko klenkarya) pissau (ysārna yā)ksīye 1 . kuncīdha-sse salype sa shphā-
2	rka-shsha-lle 1 yo-tsa trina-sha-lle 1 tumem katsa sa laupe yamu-
	sai te sa
3	ka-tso malyakka thaskedhar māylārya 🛮 açvagandhä [1 apa-]
	mārga 1 takaru 1 prapuntarikha 1 mañcasta 1 (nici) [takampha]
	(tom sa te) [po seme]-yarth kosdhe 1 (po)o
	tharn[āna]
	Leaf 38. Obverse.
1	
	phakṣa-lle (taṣa-lle mā) nailũetha n tamala-pātṛ 1 varanga-[tva]cā
	sprikha 1 takaru 1 smur 1 şesātha (sāpatha) vai(çra)mañña 1
	(tṛppā]) 1 cautām[1]suma[gandhä] kurkatha-ṣṣi phatsāñaicärke 1 e-
	(ñcuŋa-ññe ke-ttse) kuñi (ma)dh ts(uŋä-sha-lle tumem)
٠	sha-
	Reverse.
1	(lle) (yama-elona eeme-yä)r th sam (tke-nta kyäñcidha-ee) ca
	salype
2	sa āçne yama-sha-lle 1 ā-tse luta-shsham pharsarem nakh=sham 1
	ārkņi 1 ca-
3	ŋām 1 prapuntarikha 1 pissau 1 çakkār 1 khanarñata-ntha ŋka ta)
4	mlucku kuñcidha l te po seme-yärth . ka
5	lle 1 ye-tse[-ttse] thaskedhar (sā spakiye ka)
6	(tha-ñe)
	J. r. 10

Leaf 39. Obverse. 3. pissau (cknacko) kurkatha-ssi ptsā(n ka).... 4. şalype malkger=sa phakşa-lle açca sanāpa-lle l (kaṇḍāri) 5 (prapunda)rikha 1 katuka-rohini 1 açvakāndha 1 devadāru 1 pissau 1 6 $\lceil \text{net} \rceil = \lceil \text{n} \rceil = (1 \text{ apamārga 1 kosdhe po samtke-nta todh})$ se-ske ta...e. Reverse. 1 (ma)lkner=sa trīnā-sha-llya spakiye 1 (pilkner=sa rīnka-t $_{ m si}$ sā spakiye) na spakaim 2 kākori 1 kṣīra-kākori 1 pitari 1 kṣīra-pitari 1 smur 1 ysārña yā-3 ksīye 1 mi-tstsa shpharka-shsha-lle 1 kṛŋka-ññe yo-ttsa laupe kā-4 (tsa) yāmusai te sa kā-tsi prakara . (sna) 5 . (takaru) 1 yä[rper] Leaf 40. Obverse. 3 . . tama[la]pātr* 1 (pārivelakh 1 mañcāṣṭā 1) 4. (tom) satke-nta kuçanar çeriye enmera (çknacko cautam) 5 (modha)-eşe nar tanā-eşe nar çaşkhath trau-nta 1 te (e)şe pepa ksormem a-6 (siye i) .e (ne ta)șa-l[l]e ysā(rñ)ai ne nadh ñkañcai ne na(rnth rkhe) .o .e. Reverse. 1 . . . (ta)
ṣṣa-lle (ta)yā (kṣo)rmeṁ ŋe(yaṁ) şukhdh (ko)-ttsa edhantā(rme na-tstsa) 2 tharŋā(na) sonopha-lle 1 meñä-mpa ene çle tharŋāna thaskendhar=ne 1 pi ka-3 tma thankim yoraim po nakh=sham se ce salype sono(ptrpo) . . 4 [ka] ni kennarne ama(lākh 1) rnakca (yām=tsi) Leaf 41. Obverse. 2 . . . akaru [pu-] 3 [na]rnapha 1 ru(thi); 1 . . . palamā(nta) [kāko-] 4 ri 1 kaîra-kākori 1 medh 1 mahāmedha 1 (mañcasta 1) pri[yangu] 5 takaru 1 apamārga 1 çabara-lot; 1 kirodh 1 . . akh 1 parivelakh 1 6 (sprikha 1 na)ladha 1 netene 1 nicitaka(mpha 1 sarjaratha 1 seme-yarth)

^{*} The syllable la is omitted in the original manuscript.

13

Reverse.

- 1 (to)dh keniye todh kuñcidha-sse aşiye malkner-sa taşşa-lle . .
- 2 ro-tstse (kai) pauke ktseñ=tsa sanāpa-lle 1 kar=tse māka keŋkarñña-ññe n(su-)
- 3 (rasa)-pāddharā l tamalapātr l takaru l (sprīkha l ku)rka[tha-ssi]
- 4. kuna 1 (smur 1 sarjara) tha 1 m(lucku kuñcidha-sse) . . .

Leaf 42. Obverse.

- 2 . . (nalyī te)
- 3 . ŋā-llona 1 pi-ttsa montaruŋ ā-llona
- 4 (ca)rsnā-llona dhatka rom phasdh slankha-llona tom samtke-nta (nra-)
- 5 ttse kātsa ne makņa shsha-llona 1 tumem ņra-ttsai sra-(lle) 1 sārļ skņar nije
- 6 .. (ne)ta (ma)lyaka (cke kk)au-ttsa . na(se pi)ye (.elina-lle) . .em

Reverse.

- 1 . (lkŋar e .ŋe) slaŋkha-lya eşe satke-nta . (sutha)-sha-lya şpakaim (ya)-
- 2 ma-slona ā-tse luta-sham mlutā-lle sākha-shsham pharsarem nakh= sham nā-lya po-
- 3 (tstse) kar=tse || putanakeçi 1 karuṇasāri 1 bhallātakha 1 [pi-]
- 4 (ppā) l 1 nilutpāl 1 māḍhakh 1 tṛppāl 1 ŋetene

 $\mathsf{Digitized} \ \mathsf{by} \ Google$

I. INDEX OF SANSERIT TERMS.

(The large numbers refer to the leaves, the upper small numbers, to the obverse, the lower small numbers, to the reverse pages. (inv.) added to a number refers to the interlinear print explained in the introductory note.)

akaru (S. agaru) 1, 86 18, 266 306 36, 41³ ajamoda (S. ajamodā) 33³ añcana-rasa (S. añjana-rasa) 25⁵ P añcāmvandha (S. amçavanta) 5₈ atibala (S. atibalā) 24₈

apamārga (S. apāmārga) 5_{2·8} 15⁸· 4
15₁ 27₁ 27₄ 28₃ 29⁴ 34³ 37_{3·4} 39⁶
41⁵, avamārga 9⁴, apamārkha 35⁸
amalākh (S. āmalakā) 11₄ 33⁶ 40₄,
amalākha 21₁

ampṛta-pātṛ (S. amṛta-patra) 1₅, ampṛta-pāttṛ 6⁴ 7³ açamati (S. amçumatī) 31₄

açvakāndha (S. açvagandhā)4⁸ 5₄
6₈ 7⁹ 15₁ 24⁸ 24⁴ 24₂ 25_{2.8} 27₁
27_{8.4} 28⁸ 29₃ 31⁸ 34³ 34^{5.6} 39⁵,
açvakāndh 1₂ 9⁴ 32⁶₁, açvagandhä
37₃, asvakāndha 11₁

ā

ārkņi (S. ārghya) 6, 78 8, 115 166 274 305 38, See the following. ārkņi-kirodh 314 ārkņi-ņetene 314 33, ārkņi-çakkār 95 114 314

i

iñcuna (S. iñchuka or icchaka?) 19⁵ 27^{4.5}

u

udumbari (S. udumbari) 294

rşabhakha (S. rşabhaka) 64.5 23, 252, rşapakha 30, See rşabhakh.

k

kakotakha (S. karkotaka) 34° katuka-rohini (S. katuka-rohini) 5₈ 6₄ 24₅ 39°, katuka-rohini 4°.6 4₅ 28, katuka-rohini 15₁, katukarohini 25₃ kandāri (S. kantārī) 17₄ 39° kanaka-puṣpa (S.kanaka-puṣpī)25° kabija (S. kapija or kapījya) 25°

kanaka-puspa (S.kanaka-puspi)256 kabija (S. kapija or kapijya) 256 karuņasāri (S. kālānusārī) 19, 208 214 326 428 P kalka (S. kalka) 26, kālko 228,

P kaika (S. kaika) 20₁, kaiko 22°, kālkņe 17°, khalka 5₁, 34₈
P kaṣāy(sa) (S. kaṣāya) 10°

kākori (S. kākoli) 63 85 245 284 392 418.4, kākoti 14 73 132 143 174 kiñcelle (S. kiñjala or kiñjalka?) 13

kirodh (S. gilodya?) 1₄ 7² 7⁵ 7₂ 9⁶ 11⁴ 41⁵, kirodha 29⁵ 35², kirodha 28₃, kiroth 31⁴, kirokh 6⁵ 17₄

kutumñcikh (S. kutumbikā) 3⁶ 8₁ 18⁵, kutumñcikha 9⁶, ktumñcikh 31²

kuntarhha (S. gundraka) 7^{6} 7_{2} 26^{6} $31^{8.4}$ 34^{6}

kurală (S. kurala) 32₁
kusta (S. kustha) 23₃ 27⁵
keleyakh (S. kālīyakā) 36₂, keleyakh 8₈

kesară (S. keçara) 18₅ koroça (S. go-roca) 15⁴ kşīra-kākori (S. kşīra-kākoli) 6⁸ 8^{5,6} 24⁵ 28₄ 35³ 39₂ 41⁴, kşīrakākoți 1₄ 17^{5,4} 13₂ 14₃ 17⁴ kşīra-bīḍāri (S. kṣīra-vidārī) 7⁵, kṣīra-pitari 39₂

 $\mathbf{k}\mathbf{h}$

khadiră (S. khadira) 193

kh

khalka, see kalka. khetene (S. khedini) 5₂ See netene

g

gandha (S. gandha) 36 4 , gandhä 32 5 37 $_{8}$ 38 6

ŋ

netene (S. khedinī) 4_{1,2} 10₄ 11₂ 13⁶ 23₃ 28⁵ 29⁵ 30₃ 31⁴ 39⁶ 41⁶ 42₄, neteni 28₂, neteni 3₁ See khetene. nçīră (S. kṣīra) 8⁵ See kṣīra.

c

P cagalà (S. jagala) 23₅
 caŋām (S. cāŋga ?) 7⁸ 8^{4,5} 15⁸ 21₁
 27₄ 38_{2,8}
 citraka (S. citraka) 33⁴, citra 17⁵
 cipakha (S. jīvaka ?) 17₈ 23₅, cipa 17₈ See jīvakha.
 cūrņā (S. cūrņa) 2⁵, curnā 20⁸ 33⁴

j

jivakha (S. jivaka) 6° 13, 17° 30, See cipakha.

jivanti (S. jivantī) 254 364

t

takarı (S. tagara) 3₂ 5₃ 8⁶ 9⁶ 15₂ 24^a 25₄ 28₁ 30₃ 35² 35⁶ 37₄ 38⁴ 39₅ 41⁶ 41₃

tamala-pātṛ (S. tamāla-patra) 8_{2.3} 10³ 15₁ 17₄ 18^{4.5} 19³ 20⁸ 23₂ 28⁵ 28₃ 29³ 30⁶ 32⁵ 33₁ 34₃ 35⁶₁ 36₁ 38⁵ 40³ 41₂, tamala-pāttṛ 6^{3.5} 9⁴, tamāla-patr 3₃ 15₄ 18₁ 19_{2.8} 24₈ 25₄, tamala-pādhar 4⁶ 5⁴ 26⁶ trphāļ (S. trphalā) 6⁶ 19₁ 20⁴ 32³ 35₁, trphāļă 19⁵, trphaļ 30₂, trppāļ 31₁ 31_{3.4} 38⁵ 42₄

tejapati (S. tejavatī) 2, tecapati 27⁵

d

devadāru (S. devadāru) 1, 48 4, 76 95 244 285 28, 295 29, 358 35, 36, 373 395

dh

dharaņi (S. dharaņī) 294 dhurani (S. dhuraņī) 43

n

naku-nakhi (S. nāku-nakhi ?) 185 naladha (S. naladā) 416, naladh 306

nāgapatr (S. nāgapatra) 19^{1,5} nicitakampha (S. nīca-kadamba) 6² 23₂ 27_{1,2} 27₃ 29⁵ 32³ 34^{3,4} 35⁴ 37₄ 41⁶, nicitakāmph l₃ 4₁, nicitakampä 25₂

nilutpāļ (S. nīlotpala) 8₃ 18₂ 19³ 21₃ 22⁵ 24₄ 32³ 36⁵ 36₂, nīlutpāļ 19₁, nilotpāļ 6² 9₅ 10² 11₄, nilutpāl 5₁

p

padmakha (S. padmaka) 85 134 payasya (S. payasyā) 254 pāṭha (S. pāṭhā) 23 pādha (S. pāṭhā) 53 pārivelakh (S. paripelava) 65 182 351 403, parivelakh 301, 415, parivelakha 362-3 pitari (S. vidārī) 392 See biḍāri. pippalī (S. pippalī) 245 332, pippalī 256 pippāļ (S. pippala) 45 175 214 232 285 282 4234, pippāļ 272, pipāļ 264, pippaļā 126 (inv.), pippāļa 126

pilamātti (S. vilva-madhya or vilvapatra?) 76 See bilamati. pisitaka-mantha (S. picitaka-mantha) 19, 36, pişitaka-mantha 214.5 pissau (S. viçva, viçvā, or piçu?) 1₃ 4₁ 6⁶ 7⁸ 7₈ 8⁵ 8₈ 10⁵ 11⁶ 12⁸ 14⁸ 19⁵ 21₄ 23⁴ 23₃ 26⁶ 27₈ 27₆ 28₂₋₈ 29⁵ 30³ 30₂ 32⁴ 34³ 36₁ 38₈ 39³ 39⁵ putana-keçi (S. pütana-keçi) 204.6 28, 35² 42₃, pūtana-keçi 32^{5.6} punarnapha (S. punarnavā) 1, 6672 (inv.) 17₅ 20² 23_{2.8} 41^{2.8}, punarnava 3₆ pūrņakosha (S. pūrņakoçā or pūrņakoşā) 225 prnkaraca (S. bhrngaraja) 325, prankaracă 31, See bhrnkaracă. prçnavarni (S. prçnaparnī) 18, 191 258 364 pratipaļā (S. pratibalā) 346 prativișa (S. prativișā) 46 6, 246 28₅, prativisha 25₅ 28⁵ prapuntarikh (S. prapundarika) 1,2 18₂ 19⁴ 21⁶₁ 22₅ 24⁴ 29₈ 32³·4 36_{1.5}, prapuntarikha 11_{1.2} 27⁵ 28^{4.5} 37₄ 38_3 , prapuntarikha 27_2 , prapundarikh 7₂ 8₃ 9₅ 9₆ 118.4 115, prapundarikha 10_8 15_4 $28_{1.8}$ 29_4 30_2 prapundarikh 63 78, prapundarikha 396

prahati (S. vrhati) 17, 29, priyangu (S. priyangu) 6⁶ 26⁴ 36⁴ 41⁴, priyanku 3, 32⁴

b

bidāri (S. vidārī, vidārī, vidālī) 7⁵
See pitari
bilamati (S. vilva-madhya?) 1₅
See pilamātti.

bh bhargi (S. bhārgi) 24, bhallātakha (S. bhallātaka) 42₈, bhallātaka 25¹ 25⁴ bhṛṇkaracä (S. bhṛṇgarāja) 20² 21³ See pṛṇkaracä

mañcäṣṭā (S. mañjiṣṭhā) 6585959₅ 10² 10₂.3 11⁸ 11₂ 13₂ 14₄ 40³, mañcasta l₂ 23 23 27 29 34 37 414, mañcaștă 54 22, 234.6 266 27, $30^{8} \, 36^{6}_{1}$, māncistä $2_{5} \, 26^{2} \, 27^{4} \, 29_{2} \, 30_{2}$ madhukha (S. madhuka) 48 madhuyaşti (S. madhuyaşti) 134 158 18, -mantha (S. mantha) 19₂ 21⁵, -mandha 364 mahāmedha (S. mahāmedā mahāmedhā) 1, 64 13, 14, 414 See medha. mahişa (S. mahişa) 15, mancistä, see mancästä. mādhakh (S. māthaka) 24 66 74 73 174 175 (inv.) 28, 42, māḍhakha $12_{\hat{s}} 34_{4}$ māṣikāni (S. māṣika) 203 334 māṣavarņi (S. māṣaparņī) 138 mudgavarņi (S. mudgaparni) 13. 14_{4} musdha (S. mustā) 183 194 363 medha (S. medā or medhā) 64 72 (inv.) 11, 13, 143, medh 414 See

motarte (S. modāḍhyā?) 365

mahāmedha.

rasañcanā (S. rasāñjana) 21⁸ (18₁?) rasna (S. rāsnā) 23₄ 29₂ ruthir (S. rudhira) 41⁵ rohini (S. rohinī) 15⁵ ? rkŋa- (S. rkṣa-) 18⁵, rŋa- 30₁ rṣabhakh (S. rṣabhaka) 13₁ 13₅ 14₄ See ṛṣabhakha.
rsil (S. raçīla) 29₂

1

lākhsha (S. lākṣā) 274 376, lakhsh 148 29,

lotr (S. lodhra) 118 264 365 See çabara-lotr.

vaca (S. vacā) 338 varanga-tvaca (S. varanga-tvaca) $1_1 18_{2,3} 30^6 36_3 38^8$, varankatvacä 185 virankh (S. viranga) 18, 36, viranka 25 viçir (S. vaçira) 68 vrka (S. vrka) 333

veteni (S. vedinī or vedhinī) 1, 74, vetene 7, 303, vedene 4, 65.6 95 vaicramañña (S. vaicravaņa) 385

çakkār (S. çarkarā) 74 86 10, 116

11, 148.4 235 308 314 374 38,

çatapuşpa (S. çatapuşpa) 158 232 36_5 , çatapuşphä 34^8 cabara-lotr (S. cabara-lodhra) 1, 2, 7, 94 118 11, 128 275.6 28, 30, 34, 415, çabara-lottar 54,, çabaralodr 48 75 8, cabara-lodhar 214 çāficapo (S. cinicapā?) 7, 10, 26,

çātapari (S. çatāvarī) 184, çatapari 245 275, çatavari 364

çāripha (S. çārivā) 86 9, 18, 194 234, çāriph 12, çārapha 65, çarapha 36_8 , caripha 35^4 , caripha 18_1 , cariva 18,

çirişa (S. çirişa) 154

П. INDEX OF LETTER-GROUPS.

(Groups marked with an asterisk are probably Sanskritic. See also headnote to Index I.)

acala 19₄ (?) amārra 9₈ çirişa-puşpä (S. çirişa-puşpa) 9^{1,6}, çirişa-puşpa 46, çirişa-pushpha 1, çaileyakh 1, 3, 2, 6, 19, 29, 306 326, çaileyakha 26°

çmur (S. çamvara or samvara ?) 3_1 144, smur 14, 39, 414, smură 32, smūr 384

sarjayarth, see sarjaratha. sarjaratha (S. sarja-rasa) 65 32, 416 414, sarjarath 48 186, sarjayarth 35

sāpatha (S. capatha) 384 sālavarņi (S. çālaparņī) $18_3 \ 36_8$ sittāpha (S. sitābha or sitābhra) 214 29₈₋₃ 376

sukemeļ (S. sūkemailā) 18, 25436_3 sumagandhä (S. somagandha) 32⁵ 385

sumarādha (S. somarāt) 314 sumām (S. somā) 184 22, 234 24, suratha (S. surasa) 154 Cf. sarjaratha.

surasa-patr (S. surasa-patra) 23₂, surasa-pāddhara 41_{2.3} saindhava (S. saindhava) 338 styoneyakh (S. sthauneyaka) 3, sprikh (S. sprkka) $1_1 3_2 6^8 18^4 24_3$ 32₁, sprikha 30₃ 354 384 416 41₈

haridra (S. haridrā) 195, haridr

harenu (S. harenu) 18. hribera (S. hrivera) 18⁵ 18<u>,</u> 23₄ 24₄, hrbera 36,

* amprasto 26* arirākha-şṣana 28 85, arirākha-ṣṣana ntha 3_{κ}

arkņa-ññai 28 31 4-5 402, arkņa-ñai 92 alā-shshami 26, 2, acca 18¹ 39¹, acca-seana 5⁸ See asiye 76 10, 114.5 134 138 145 344 405.6, asiye 41, astare 12, ā āŋkhar 31g $\bar{\mathbf{a}}\tilde{\mathbf{n}}\mathbf{me}\ \mathbf{5}_{4}$ \bar{a} -tstse 22, 31, 366, \bar{a} -tse 42, āyo 20₃ āçce 8^{8} 21_{8} 30_{4} 33_{3} See açca. \bar{a} çne 38 31, 35, (inv.) 373 38, *rskarñe 31, lttsau-ñe 98 92 lsdhaya 126 ene 32_5 encuna-ne 31_1 32_2 35_2 , encuna-nne 386.6 ene 40_2 enmeră 404 enme-lya-ttse 23 92 272 283 315 erka-ttse 1_8 6^5 22^9 , erkha-ttse 5^6 erkeñce 224 22, 24, eça 136 17₂ eșe 15⁵ (bis) 36³ 40⁵ 42₁ aicärke 385 k kani 2, (inv.) 124 183 404, kani 378, kani 265 332 354, kani-tsi 353 katma 5⁸ 25₂ 25₃ 40_{2,3} katso, see kātso ? kane 32* kante 25 -karñña-ññe $27_{2,3}$ 41_2 kar=tse 35 103 172 213 291 313 334

34, 41, 42,

karocuki 28 kalāska 31⁵ ka-llona 37⁸ *kaska (17° ?) 28, 29, 326 kātsa 4⁵ 14₂ 27₁ 29₁ 35⁶ 37₂ 39_{3.4} 42⁵, kātsi 394, kātso 44 146 14, 306, katso 37₃ -kārth 135 17₅, -kartha 17₈ kālko 223 See Iudex I. kālkije 175 See kijettse. *kuŋa 41, kuñi 228, kuñ*i* 386 kuñcidha 374.5 384, kuñcidh 76, kuñcidha-sse 44 4, 6, 108.4 132.3 171.2 19₃ 21₂ 23² 24² 27⁸ 27₈ 28⁶ 29⁶, 30_4 31_2 $33^{4.5}$ 33_2 34^4 35^6 37_1 41_1 , 414, kuñcidha-ttse 224 22, See kŋäñcidha-şşe kurkatha-ssi 7_{3.4} 19₂ 19₅ 20⁵ 21₄ 26₄ 324 41_{8.4}, kurkatha-sşi 4, 385 393 kurkkatha-ssi 4, See knärkatha kuçanār 176 196 286 30, 404, kuçanāră 28, kuçānem 288 (bis) 284 285, kuçanem kṛŋkai-ññe 145, kṛŋkai-ñai 141, kṛŋ $ka-\tilde{n}\tilde{n}e 39_{s}$ keniye 25 21, 245 296 346 (inv.) 41, $keniye 6_1 28^6$, $keniye 19^6 19_3$ kenkarñña-ññe 41. kete 26 10, 10, 114 11, 126 (inv.) 12₁ 12₂ 15⁵ 22₃ 23⁵ 23⁶ 30₅ 33₅ 37⁶ ke-ttse 35, 386 P kennā 32³, kennarne 40₄ kellera 12⁶ *kotrikh 365 kodh 24 9₁ 21₅ 22₃ 23⁵ (bis) $kos\bar{a}\tilde{n}me 8, 10_2$ kosdhe 15_{1.2} 20₄ 31₆ 34⁸ 37₅ 39⁶ kosnau 24 9,

kauë 14,

kkau-ttsa 32, (33, ?) 426 ŋâk-trau-nta 17, 26, 33, knäncidha-sse 186 196 38, See kunciŋâkhdh-trau-nta 124 265 326 (inv.) dha ŋâŋkarño 74, ŋâŋkarña-tstsa 84 knärkatha-ssi 29, See kurkatha. nankolma-nne 20, 31,kne-ttse 20₂ See nettsa \hat{n} pāpā-tsi 2_{5} (inv.) 26^{5} kıjer=se-ttse 31. See ner, malkner, nå 2⁵ 14⁶ (bis) nå-lya 3⁴ 42₂, nåpilkner. llona 423 ktseñ 8^{2} 14^{2} , ktseñ=tsa 41_{2} , ktseñä ni 144 306 nisumatpha 156 nisumatpha 156 ne 51, ne-ttsa 25 See knettse kraketo-nta 26 kre 2₂ 5⁶ 37⁸ $neyam 40_1$ ner 135. See kner, also pilkner, klenka 144, klenkarya 37, malkner. ksu 333 ? pere 5, kşormem 405 40, ŋelki 128 (inv.) 322 kh ŋkata 96 108 316 383, n
ŋata 32 35 356 *-khumakha 32_a (inv.) 35₂ See ŋkandha. nkandha 56 See nkata. kh? nkaskath 35₂ khanarñata-ntha 9^6 10^3 38_3 ŋke-ññai 34₁ khanthe 265 nnale 25 kharth 98 (inv.) nyar 284 1) ŋra-ttse 223.4 424.5 na 5, 106 34, ıjraçkai-şşa 3, See plackem. naka 33, η la-çkem 33_3 nakṣāllo-ntha 125 grenthe 148 natātha-nta 96 315 nadh 126 406 ca 38₁ (inv.) nämpatsake 3₃ canke 14, 14₂ nayi 348 canā 35, $nar 3_4 35_3 40^5 (bis), nar=nai 9_4 nar=$ *caprașțo 264 sa 5⁵ 8₃ 9₆ 10⁵ 20⁵ 22₃ 33₃ carsnā-llona 424 när=miye 35 cāna-lle 132 narnth 406 ce 40₂ ? narse 265 cepi 7₁ 10₂ 22⁴ 22₁ 24₁ * cautām 19₂ 21₃ 23₃ 32⁴ 38⁵ 40⁴ ? nala 14₂ naltsa 155 (348 ?) cautānā 196 cnāckasse 56 356 (inv.). See cnacko naça 31₆ nase 426 ñ masno-todh 93 9, 15, 21, 316 ñoriya 146 ŋākaṁ 12_s ñkañcai 406 nākte 272 28, 316 ñŋe 425

J. 1. 11

-ñca ${\bf 5_3}$ 18° 22° 24°, -ñcä 34° -ñcī 25° 1

-ñe, -ññe, 22⁵ 38₆ See lttsauñe, eñcuŋañe or eñcuŋaññe, karññaññe, krŋkaiññe, ŋâŋkolma-ññe.

-ñai, -ññai, see kṛŋkaiñai, ŋarñai, ŋkeññai, ysārñai.

фh

dhatka 42^4 dhartakur 5^6_1 34_2 dharse-lle 11^6

t

tak 93 tanā-sse 405, tano-tsi 28 tāmi 14₆ tayā 40₁ taratha-sse 2^4 3_5 (inv.) 26^3 tarya 9₂ 30⁴, tarye 22₄tașa-lle 9₂ (bis) 38² 40⁶, tașa-llona 126, taşşa-lle 156 401 41, tāņa 226 tano 206 21, 325 tuk 234 $tukh 989_2$ tuce 7_1 10_2 , tucem 23^4 tumem 7, 11, 12, 12, 12, 33, 37, 386 te 58 146 142 172 208 312 322 336 346 $40^5 42^9$, te po $20_4 31^6$, te ra 25_2 te sa 53 146 366 37, 39, tailŋi 14⁶ $\tanh \, 2_5 \, \, (\text{inv.}) \, 3_1 \, \, 11^3 \, \, 22_4 \, \, 26_1 \, \, 28^4 \, \, 28^6$ 28, 304 33, 404 424 todh 92 98 91 152 215 224 243 316 396 41, (bis) ttauna 22 traksim 105 222.3 tranmār 42 21, 264, tranmāră 124, tranmāsar 3

trākham 116.6 116 (bis)

trikh 26, 366

triŋä-shshalle 5₁, triŋä-shalle 37₂, triŋä-shallya 39₁, triŋä-sle 7⁸ (inv.) 7₅ (inv.), triŋä-sle 29⁸ 31₂ traiŋo-ssai 9₂ 37⁵ trau 2⁸ 4⁸ 11⁶ 12⁴ 13⁴ 33₁, trau-nta 2⁵ (inv.) 4₂ 17₁ 26⁸ 26⁵ 26₂ 27⁸ 33₁ 33₂ (bis) 35₃ 40⁵ tsa 3₂ 35₂ See -tsa, -ttsa.

-tsa, -ttsa, see kātsa, kkauttsa, ŋettsa, pittsa, pretsa, miyetsa, yotsa, ritsa.

-tsa-ṣṣa, see yeretsaṣṣa.

-tsa-ssana 9_3

-tsi, -ttsi, see kazitsi, kātsi, ŋāpātsi, tanotsi, patsi, matsi, yāmtsi, rīŋkatsi, laupatsi, çkŋaratsketsi, sanāpatsi.

tsunä 30⁴, tsunä-sha-lle 34⁵ 38⁶, tsunä-shsha-lle 30⁴

-tse, -ttse 22⁵ 26₂ See enmelyattse, erkhattse, kartse, kettse, kuñcī-, dhattse, kŋettse, ŋrattse, nauttse, pyāpyatse, yetse, ypattse, settse, skrenatse.

-tse-ttse, see yetsettse.

-ttsai, see pharnettsai.

-tso, see kātso.

-tstsa, 146 See ŋâŋkarñatstsa, mitstsa, motstsa.

-tstse, see ātstse, potstse, rotstse.

 \mathbf{th}

thankin 40₃

tharnana 88 136 134 305 376 408 (bis), tharnana 101, tharnañe 56

th

thakte 12₃

thaçça 4₈ 10₂ 10₅ 11⁴ 22₈, thaçca 11₃ 12⁶ (inv.) 23⁵ 23⁶ 30⁵ 33₅ 34⁵ 37⁵ thaskendhar 2₄ 13₁ 14⁸ thaskemdhar 2₂ 36₁ 14_{2,3} 26₃ 31², thaskedhar 31₃ 33₄ 37₈ 38₅, thaskemtr 33⁶, thaskendhar=ne 40₂

dh ? dhatam 2, dharyā 124 265 33₂ 35₃ 35₄ 37⁸ dhuka 256 (inv.)

na 31⁵ 39₁ (inv.) näksem 58 nakh=sham 3 5 5 5 8 10 11 11 11 16, 17^b (inv.) 23, 376 38, 40, 42, ? natatāñ 116 nalvi 423 na-lle 14_2 33_2 nastu-kārth 17g, nastu-kartha-nta 17, See mastukārth. ? nidharbe 17₃ ne 9, 9, 17, 246 (inv.) 26, 29, 306 345 406 (tris) 40, 425 426 netmem 11, nesh 178

nailñetha 383 no 345

noka 98 (inv.) 175 (bis)

nau-ttse 142

-nta 12₂ 39₁ (inv.) See kraketonta, natāthanta, trāunta, nastukarthanta, pictronta, satkenta, sanāpallenta.

-ntha 5^6 26^6 (inv.) 31^5 35^6 (inv.) 36₁ (inv.) See arirākhaşşanantha, khanarñatantha, nakṣāllontha, pancentha, pharsarenth or pharsaremntha

*payäceyakh 32 payro 36 paru η a $32_{\rm s}$ *palamānta 418 pa-le 11₂ (inv.), pa-lle 29₅ See sanāpalle. pāke 344 pani 17₁, pane 6₂ 8⁸ 17₄ 18⁸ 30⁵ $p\bar{s}\bar{n}ce-ntha$ 3_2 35_2

pāmo 34, pāmosh 22, pārera $33_{3.4}$ pāliña 26³ pi 7, 105 10, 178 224 24, 40, 426, pi-ttsa 428, pi 22, pilkner=sa 39, See malkner=sa pictro-nta 21, pū 33₈ pepa 40⁵ perāth 33⁸ pelkiñ 323 po 24 22 58 156 238 263 291 303 305 316 33, 38, 396 40₈, po-tstse 36 poke 148 305, pauke 412 posdham 13⁵ pauke, see poke. pau-skem 4₈ $pts\bar{a}\bar{n} \ 4_1 \ 7_4 \ 19_2 \ 20^5 \ 21_4 \ 29_1 \ 39^8$, $pts\bar{a}\bar{n}$ 32^{5} , ptsāñä 19_{5} , phatsāñ 38^{5} $py\bar{a}pyo 3_2 5^6 9_1 26^8 31^6 34_2$, pyapya--tse 12² (inv.) 32₂ *prakara 39₄, prakarya 26₃ pra-lle 3, 16, 17, 26, pre-tsa 336 platkāre 11^4 22_3 23^5 37^5 , plātkāre 235

 $12^4 \ 12_1 \ 13^4 \ 13_3 \ 16_3 \ 19_1 \ 19_4 \ 20$ 212 224 275 296 304 328, 4 333 344 35^{5,6} 35₄ 36⁵ 38², phaksa-llona 12_{2.3}, pharksa-lle 31₅, phaksa--lya 12⁵ 12₄, phakhsha-lya 20₃ platsañ, see ptsañ. pharne-ttsai 33⁵ pharçerim, see pharsarem. pharsarem 3 38, 42, pharsaremnth 323, pharsaremntha 364, pharsarenth 31, 374, pharcerim 55 11, pharçeri 106 phasdh 12, 146 424

ph

phaksa-lle 3, 45 4, 52 52.8 55 6, 7,

makna-shsha-llona 425 ma-tsi 125 madh 386 * manotaci 288 mame 10^5 malkner 44 52 17, 33, 354, malk $ger=sa 4^{6.5} 4_2 5_4 6_1 6_5 7^6 7_4 10_1$ 134 145 152 1961 1934 226 236 278 27₁ 27₈ 27₅ 29⁶ 30⁸ 31₅ 32⁸ 34⁴ 34₅ 35⁵ 36₁(inv.)39⁴ 39₁ 41₁ See pilkŋer malyakka 37₃, malyaka 42⁶, malykka 33, mastu-kārth 135 See nastukārth māka 84 21₃ 274 41₂ māyi 135 māylārya 37₃ mālasa 33⁵ mita-see 22₃ mi-tstsa 36 8 39₈ miye 32₅, miye-tsa 3⁵ misa 26₂ miya 56 * musaka 9, muska-shsham 45 meñä-mpa 40_2 maiki 9₂ 14⁵ 14₁ 37⁵ mokra 116 mo 36⁵, mo-tstsa 3³ 12₄, mo-tsa 22³ modha-sse 204 405 montaru 423 -mpa, see meñampa, satkentampa. mrestine 55 344 mlutā-lle 3^4 36^6 42_2 , mlutā-sha-llona 32₃ See luta. mlucku 76 38, 41,

y yäksiye 10_4 14^5 23^5 29^2 37_1 $39_{2.3}$ yärth, see under seme.

* yärper 6^5 30_3 39_6

yama 228 305, yama-sham 115 274, yama-shsham 8, 126 (inv.), yamasha-lle 188 334 378 38, yamashsha-lle 38 6_{2,3} 135, yama-sha-lya $15_{2.3}$ 15_3 , yama-shsha-llona 3^8 , yama-shsha-lona 26, yama-shalona 3^6 34_3 , yama-slona 8_1 8_4 9^8 9, 104.5 421.9 yasoñña 56 yāmusai 45 372 394 yām-tsi 40, ye 426, ye-tse-ttse 7, 10, 38, yere-tsa-şşa 10⁶ * - yeyakh 3⁵ yesmi 34₂ yoka-lle 335 yonam 336 yojar 265 yo-tsa 37₂, yo-ttsa 39₃ yoraim 84 40₈ yŋāre 24 134, yŋāc 116 33, ypa-ttse 10⁵ 22, ypiya 10, 23⁵ 29² 33₅ ysārña 37, 39, ysārñai 406

 \mathbf{r}

ratre 26
*rasecanam 18₁ See rasancana in Index I
rātthe 12₄
rātre 35
ri-tsa 125
* rimmā 10₃, rimmākka 10³, rimmākka-ṣṣa 9₁ 316
rī 26⁴ (inv.)
rīŋka-tsi 39₁
? rutelle 86
ro-tstse 41₃
rom 12₁ 42⁴
*rkārļ 3₃ 32₂
rŋakca 40₄

* -lakh 188 lāni 26 li 17, luta-sse-ñca 22_2 , luta-sham 36^6 42_2 , luta-shsham 38³. See mlutā. lupșa-lle 31, le 7^{6} 113 (inv.) 11, 30_{6} 34_{1} (inv.) * -leya $kh 5_1$ laiko 10, 234 See selaiko. $lonta-sse 5_1$ laupe 37_2 39_3 , laupa-tsi 34_3 lknar 42₁, lknar=na 10⁶ -lya, -llya, -lye, see nålya, trinäshallya, phaksalya, lyinālya su*thash*alya, sono*ph*alya, slan*kh*alya-ttse, see enmelyattse. lyinā-l
le 32², lyinā-lya 32 $_{\kappa}$ -lle 8₂ 11² 12⁶ 22⁵ 28² 36⁴ 38₁ 38₅ dharselle, taşalle, nalle, palle, pralle, phaksalle, mlutālle, yamashalle, yokalle, lupşalle, lyinālle, vaccalle, çatthashshalle, sanapalle, suthashshalle, sonophalle, syalle, sralle. -lle-ttse 225 -lle-nta, see sanāpallenta. -llona, -lona 88 See kallona, ŋâllona, tasallona, phaksallona, yamashshallona or yamashshalona, slan*kh*allona.

vacca-lle 12₃ vari 24₁

 $\begin{array}{c} & \text{ \it c}\\ \text{ \it cakh } 4_2 \ 12_3 \ 27^8 \ 34_5\\ \text{ \it cattha-shsha-lle } 14_2\\ \text{ \it ? carknāsa } 2_{1.5}\\ \text{ \it caskhath } 40^5 \end{array}$

çār 14, 34⁵
-çi-ṣṣa 20⁶
çeriye 40⁶
çeçu 13⁵
-çke 33₁ 42⁶, -çkem 33₃ See ske, ske.
* çkŋaçko 14₁ 19⁵ 19₂ 21₃ 27² 28⁶
28₃ 32⁶ 39³ 40⁶, çŋaçko 7₃
çkŋārat-ske-tsi 35₃
çcirem 12₃
-çtro 21₁
çpālmem 17₃
çle 40₂ See şle.

sano 136 şamma 14₆ -şalle,-şallona,--şalya, see phakşalle, etc. Compare shalle, shallona, shalya $aly = 4_2 6_1 10^4 13_3 16_3 17_2 18^6 19^6$ $19_{3} 19_{4} 21_{2} 22^{4} 22_{1} 24^{3} 26_{5} (bis)$ 278 278 276 286 296 304 312 336 $33_2 \ 34^4 \ 34^5 \ 35^5 \ (bis) \ 35_1 \ (inv.)$ 35₄ (inv.) 37₁ 39⁴ 40₃, salype 14⁵ 38, 8ā 176 sukkārā 106 $\mathfrak{su}khdh\ 10^6\ 10_1\ 40_1$ seme 19^6 26^3 (inv.) 34^4 , seme-yärth 33.4 17, 196 19, 316 38, 384, seme-yarth 154.5 20, 29, 31, 32, 37, 415 sesāth 2, 76 7,8, 8, 124 (inv.) 21, sesātha 363 384 se-ske 25 396 skara 2, skaska 35₃ ske 32, See çke, ske. anarāpksa 13₃ stalla-sha-lle $2_{\hat{a}}$ 7, 8^{8} spakaim 38 8, 8, 98 92,3 104 212 342 376 (inv.) 39₁ (inv.) 42₁, spakiye $8^4 9_3 31^6_1$, spakiye $15_2 15_3$

```
*-spati 2<sub>s</sub>
-șle, see trinășle and çle
-șlona, see yamaşlona.
-şşa 126 206 26, 326 See ŋraçkaişşa,
  yeretsaşşa, rimmākhaşşa, saccaşşa.
-mana, 98 See arirākhassana, accas-
  sana.
-ssana-ntha, see arirākhassanantha.
-şşi, see kurkathaşşi.
-şşe 105 32, (inv.) See kuñcidhaşşe,
                tanāsse
                          tarathaşşe,
  cnāckaşse,
              modhaşşe,
                             lontāsse,
  mitașse,
  anesesse.
-șșe-nca, see lutașșenca.
-șșai, see trainoșșai.
                  sh
-sham, -shsham, see alashsham, na-
             muskashsham, yama-
  khsham,
  sham or yamashsham, lutasham
  or lutashsham, sākhashsham.
-shalona, -shshalona -shallona, shsha-
  llona, see maknashshallona, mlu-
  tashallona, yamashalona or yam-
  ashshallona.
-shalya, -shallya, see trīnäshallya,
  phakhshalya, suthashalya.
-shalle, -shshalle, see trinashshalle,
  yamashalle or yamashshalle, çat-
  thashshalle, stallashalle, shpharka-
  shshalle, etc., suthashshalle.
shekse 34<sub>1</sub> (inv.)
shpha 17, 29, shpha-tari 17,
shpharka 124, shpharka-shsha-lle 26
  76 22, 39<sub>8</sub>, shphärka-shsha-lle
  37<sub>1.2</sub>, shphärkka-shsha-lle
  shph-arkka-shsha-lle 106
  shph-arka-sha-lle 335 375, shphar-
  kka-sha-lle 104 10,
```

sa 4^5 4_2 4_3 5^1 5_1 5_4 6_1 6_2 6_5 7^6 7_4 7_5 9^3 9_2 10^4 10_1 13^4 14_1 (bis) 14_2 14_5

```
15, 17, 17, 19, 19, 21, 22, 236
   24^{6} (inv.) 25_{2} 27^{3} 27_{1} 27_{3} 27_{5} 29^{6}
   30° 31° 32° 33° 33° 34° 34° 34° 34°
   (inv.) 34<sub>2</sub> 34<sub>2</sub> (inv.) 34<sup>5</sup> 35<sup>5</sup> 36<sub>1</sub>
   (inv.) 375 37, 37, (bis) 38, 394
   39_1 (bis) 39_4 41_1
*sakāpce 36 3, 185 326 356
sakna 22
sacca-88a 144
sata 3_a (inv.)
sanāpa-tsi 43 148 29, 345, sanāpa-lle
   27, 356 394 41<sub>2</sub>, sanāpa-lle-nta 184
salype, see salype.
8ā 84 9<sub>3</sub> 9<sub>4</sub> 15<sub>8</sub> 316 38<sub>5</sub> 39<sub>4</sub>
s\bar{a}kha-shsha\dot{m} 34 366 42<sub>2</sub>
sātke 18^6 31_5 36^4 37^4, sātke-nta 7_5
   15_{2} 21_{5} 29_{4}, satke-nta 2_{5} (inv.) 9_{1}
   11<sup>2</sup> 13<sup>3</sup> 15<sup>5</sup> (bis) 22<sub>4</sub> 24<sup>2</sup> 31<sup>3</sup> 32<sub>3</sub>
   348 372 404 421, samtke-nta 21,
   38, 396 424, samtke-nta-mpa 32,
s\bar{a}p\bar{a}dh 35_1
sārl 425
sutha-shsha-lle 13^6, sutha-sha-lya 42,
*suhi 154
sūkara 7, (inv.)
sūdha 55
se 25 125 135 156 17, 19, 21, 26, 345
   35_4 \text{ (inv.) } 40_3
seka 176 35.
sekh 134
se-ttse 31,
selaiko 10, 10, 11, 11, 23, 23, 376
sono 40<sub>3</sub>, sonopha-lya 4<sup>4</sup> 14<sub>1.2</sub> 21<sub>8</sub>
   30_4 \ 30_5 \ 33_8, sonopha-lle 7_5 \ 26_3 \ 40_2
-ske 2<sup>5</sup> 30<sup>6</sup> 35<sub>3</sub> 39<sup>6</sup>, -skem 4<sub>3</sub>.
   çke, şke.
sknar 42<sup>5</sup>
skrena-tse 32_3 32_4
snese-sse 353
stsi 172
snniyer 27<sub>2.5</sub>
```

Appendix.

snailyokai 12_3 smām 3^4 22_2 smādha 33^8 *smāyamu 13_1 syālña 3_4 syā-lle 5_2 sra-lle 42^6 slaņkha-llona 42^4 , slaņkha-lya 42_1

III. INDEX OF NUMERALS.

one 1_{1,2,5,4,5} 2⁴ 2_{3,4} 3^{3,5,6} 3_{1,2,3} et two 1₁ 28 ^{8,4} three 20⁴ 24₂ 25₃ 32³

SUPPLEMENT TO PART I.

Page vii of Introduction.

Add to List of Contributions:-

(22) From Mr. G. Macartney (M. 10), a collection of miscellaneous antiquities from Khotan, comprising (a) four (fabricated) block-prints; (b) several manuscript sheets in Brāhmi, Uigur and Persian characters; (c) 26 small terracotta figures; (d) 30 coins; (e) 11 seals, and (f) 12 miscellaneous objects. This collection was received by me in November 1899 in Oxford.

Page xxiv of Introduction.

Also add to Summary:-

J. i. 12

31	M. 10	Books,	Khotan	(November)	From	Kāshghar.
l		Antiques		1899		J

SECTION I.—COINS AND SEALS.

Page 1. Consequent on the contribution above referred to, the Summary should be amended as follows:—

I.	Indo-Chinese		•••	Coins,	97
II.	Chinese	•••	•••	"	148
III.	Scytho-Bactrian	•••	•••	"	36
IV.	Indo-Scythian	•••	•••	,,	12
∇.	Sassanian	•••	•••	,,	7
VI.	Mediæval Hindu	•••	•••	,,	8
VII.	Mediæval Muhamn	nadan	•••	"	141
VIII.	Modern Turki	•••	•••	,,	18
IX.	Modern Indian	•••	•••	,,	62
X.	Modern European	•••	•••	"	1
				-	
			Total (Coins	530

The result of the addition to the Indo-Chinese coins is that there are now 10 large and 87 small coins. Among the latter are 23 of the first, 16 of the second, 4 of the third, and 7 of the fourth variety. Also the average weight (see pp. 2, 4, 11) of the large coins is 211.1 grains, and of the small ones 46.08 grs.

Page 10. With reference to the woodcut, I may add that the reverse legends Nos. I and II are found on coins of the first variety, No. III on those of the second, and Nos. IV and V on those of the third

and fourth varieties. No. III seems also to occur, very exceptionally, on coins of the first variety.

It seems possible that the coins of the fourth variety which weigh only from about 13 to 40 grains, may really belong to a lower denomination of four *chu*, the normal weight of which would be 32.48 grains. The total weight of the seven coins of that variety is 189 grains, which gives the average of 27 grains. This, considering that three of the coins are mutilated, would very closely agree with the normal weight of 32.48 grains.

Dr. Stephen W. Bushell who has examined the Indo-Chinese coins of the Collection, has very kindly supplied me with the following corrective note:—

"The Chinese legend on the large coins is chung (1) nien (2) seŭ (3) chu (4) lü (5) ch'ien (6), i.e., Engraved (5) money (6) weighing (1) twenty (2) four (3) chu (4).

"Nien, twenty, is the colloquial modern reading of the second character, the classical reading being yu with the same signification. The fifth character is obsolete, being now written with a different phonetic. The old form frequently occurs in ancient bronze inscriptions anterior to the Christian era. It is found in K'ang-hsi's Dictionary, but omitted in Giles' and Williams' Chinese Dictionary, although included in the "Dictionarium Linguae Sinicae Latinum" published by the R. C. Missionaries at Ho Kien Fu in 1877. Coins have never been struck in China proper, all "cash" being cast in moulds, so that I would suggest that it be derived in this connection from the carving of the die. I have never met with t'ung (copper) written in this way, and am inclined to think that the resemblance is only superficial.

"Twenty-four chu is the equivalent of the Chinese ounce (liang), so that the large coins in the collection would each represent four of the small coins, which are all inscribed, as described in your paper, liu chu ch'ien, i.e., "money of six chu."

"The symbol in the middle of the large coins [shown on p. 4] does not seem to me to be pei (cowry, valuable). Is it not rather intended for a laurel wreath? A similar symbol occurs in one of Dutreuil de Rhins coins in the centre of a legend in Kharosthi script (see Mission scientifique dans la Haute Asie, IIIe Partie, archéologie, pp. 129-132, fig. 5).

"The symbol χ in the middle of the Chinese script in the small coins of the third (camel) variety [see No. IV in woodcut on page 10²

¹ In the woodcut this character is shown upside down.

² The legend is not complete. One of the two component parts of the second character is omitted, from the coin, apparently for want of space. The symbol in question separates character 3 from character 2.

has some resemblance to what Sir A. Cunningham calls the "Ephthalitic Symbol (Num. Chron., 1894), but this may perhaps only be accidental.

"You have noticed the difference in style of the pencilling of the character liu, 'six.' I may add that the style of the other characters on the same coins varies accordingly. The style of the writing on this variety strikes me as older than that of the rest of the small coins (with the horse) [i.e., Nos. I, II, III in the woodcut on p. 10]. The Chinese inscription in the small coins of the first variety takes two distinct types [Nos. I and II in the woodcut], of which No. II is the more archaic. But after all, a more archaic style does not certainly indicate a more ancient coin, as it may depend on the individual fancy of the engraver of the die. These engravers must, I think, have been Chinese, as the inscriptions are so well pencilled, with the exception of those on the coins of the fourth variety which are markedly degraded in style as well as in size.

"The earliest pieces of the series appear to me to date from the earlier Han rather than the later, judging only from the style of the lettering, and I would observe that the Chinese had conquered, and appointed viceroys over, Eastern Turkestan during the former Han, until the usurpation of Wang Mang, after which, for a period of 65 years, there was independence, or rather re-subjugation by the Hiung-nu Turks, ending in a second submission of Khotan and the other cities to the Chinese dominion."

Pages 18-22. Dr. Bushell has kindly supplied also the following note on the Chinese coins.

(a) Ancient Coins.

- "(1) Coins without legends. Specimens like these are frequently dug up in China, mixed with others of similar type inscribed pan liang and wu chu, referred to the Han dynasties, especially to the former or Western Han. In the beginning of this dynasty private mintage was allowed, and the coinage became utterly debased, the inscriptions disappeared, and the pieces became thinner and thinner, till they were currently known as "thread cash." There was more intercourse with Khotan at this period than would be gathered from Remusat's "Histoire de la Ville de Khotan."
- (2b) One of these specimens is correctly attributed to Wang Mang, but is not the other inscribed wu chu?
- (2c) Seems to me the most archaic piece in the series. The symbol reminds one of the undeciphered symbol on the small Indo-Chinese
- ⁸ On the right of the coin as shown in the Plate II, No. 3, where however, it appears to be placed upside down. The symbol chin stands on the left, and is the first element in the character 3 of the legends shown in the woodcut on page 10.

coins [of the third variety, No. IV in the woodcut on p. 10], and the one opposite, reading round the field, appears to be *chin*. There are apparently two intervening symbols, very indistinct. Is the metal nickel? The style of the lettering is that of the Ch'in (Ts'in) dynasty, which preceded the Han in China (cf. B.M. Catalogue, No. 154, p. 326).

(b) Mediæval Coins.

- (1a) Note a crescentic line in relief above the square hole on the reverse, which marks a variety. The Chinese story goes that the emperor made a nail mark on the wax model when it was presented at this period.
- (1c) The number of Ta-li coins is remarkable, as it is rare in China. Only two sizes are figured by Chinese numismatists, so that the small specimen in the collection would be a clipped piece.
- (1e) Plate II, No. 16. For t'i read tê. The period King-tê=A.D. 1004-1007. The period Che-tao of the preceding reign of T'ai-Tsung (1d) corresponded to A.D. 995-997. Many of the dates in the paper are incorrect, e.g., Kien-yuan should be 758-759, and Ta-li 766-779. There is a convenient table for reference in Mayer's "Chinese Reader's Manual."
- (1f) Plate II, No. 18. This has the inscription Huang sung t'ung pao and belongs to the Pao-yuan period (A.D. 1038-39). The coinage was inscribed Huang-sung "Imperial Sung" during this nien-hao to avoid the repetition of the characters on the "cash."
- N.B.—The Chinese Annals of the Sung Dynasty record the large sum of "cash" given by the Emperor to the envoys from Khotan in return for the presents they brought to court; e.g., 5000 strings of cash (=500000 pieces) in the 8th year of the Kia-yu period (A.D. 1063). Cf. Remusat's Khotan, p. 92. Also 100000 cash in the 8th year (A.D. 1085) of the Yuan-feng period, of which there are specimens in the collection (11).
- (1n) Plate II, No. 10 was issued in the reign of the last sovereign but one of the Hsi Hsia Dynasty of Tangut (A.D. 1212-22) and is figured (No. 11, p. 19) in my article in the Journal of the China Branch of the Royal Asiatic Society, Vol. XXX (1895-96). Hillier's spelling of Hear to give the Italian sound of the a is grotesque.
- (1h) The first character of the legend is Hsien, and the coin was issued in the Hsien-p'ing period (A.D. 998-1003) of the reign of the emperor Chên Tsung. (Hillier's No. 125).
- (10) Plate III, No. 6 is a modern coin from Annam, belonging to the reign of their King Hien-tong (A.D. 1740-1786). See "Annam and its minor Currency" by Ed. Toda (Journal, N. Ch. Br. R.A.S., New Series, Vol. VII, 1882).

- (1p) One of these three coins has the legend Huang sung tu'ng pao and was issued in the Pao-yuan period, like (1f). Another has the egend Hsiang yu t'ung pao, issued in period Ta-chung-hsiang-yu (A.D. 1008-1016) of the reign of Chên Tsung. (Hillier's No. 127) A duplicate is Plate II, No. 11.
- (2) page 21. Plate II, No. 19 was issued by the Chinese General Wu San-kuei in the province of Yunnan, about the year 1670. The character on the reverse is *li* [inverted in the Plate], indicating the value of the piece. (Bushell, No. 239).

(c) Modern Coins.

- (1a) Obv., K'ang hi t'ung pao (A.D. 1662-1722). Rev., in Manchu,
 (No. 1) pao tsiowan, from the mint of Board of Revenue, Peking (Wylie No. 70).
- (No. 2) pao yuwan, from the mint of Board of Works, Peking (Wylie, No. 71).
- (1b) Obv., K'ien lung t'ung pao (A.D. 1736-1795). Of his reign there are coins of the following varities:—

Var. 1, six pieces.

- (No. 1) Rev., Pao tsiowan, Board of Revenue mint (Wylie, No. 115).
- (No. 2) Rev., Pao chuwan, Province of Ssuch'uan mint (do., No. 124).
- (Nos. 3-6) Rev., Pao k'iyan, Prov. of Kueichou mint (do., No. 121, cf. Bushell, No. 30, note).

Var. 2, four pieces.

- (No. 1) Rev., Pao yuwan, Board of Works mint (Wylie, No. 116).
- (No. 2) Rev., Pao k'iyan, Prov. of Kueichou mint (do., No. 121).
- (No. 3) Rev., Pao t'ai, Taiwan (Formosa) mint (Bushell, No. 17).
- (No. 4) Rev., Manchu *Ushi*, Turki *Ush*, mint of Ush in Eastern Turkestan (Bushell, No. 20).

Var. 3, three pieces.

- (No. 1) Rev., Pao tsiowan, Board of Revenue mint Peking (Wylie, No. 115).
- Bushell Coins of the Present Dynasty of China, in Journal, N. Ch. Br. R.A.S. 1880.
- ⁵ Wylie, Coins of the Ta Tsing Dynasty; Shanghai Literary and Scientific Society (Journ., Ch. Br. R.A.S.), 1858.



- (No. 2) Rev., Pao che, Prov. of Chekiang mint (do., No. 118).
- (No. 3) Rev., Pao ch'ih, Prov. of Ch'ihli mint (do., No. 129).

Var. 4, one piece.

Rev., Pao i, Ili mint (Wylie, No. 132, Bushell, No. 18).

- (1c) Obv., Hsien fêng chung pao (A.D. 1851-1861).
 - (No. 1) Rev., Chinese Tang shih, "value 10"; Manchu Pao ti, mint of Tihuachou (Urumtsi) in Kansu province. (Bushell, No. 131).
 - (No. 2) Plate III, 5. Rev., Chinese Tang wu shih, "value 50"; Manchu Pao i, Ili mint. (Bushell, No. 163).
 - (No. 3) Plate II, 30. Obv., Hsien fêng yuan pao. Rev., Chinese Tang pai, "value 100"; Manchu yetkiyang, Turki Yārkand. (Bushell, No. 171).
- (2) Page 22. Plate II, No. 23 is figured by Bushell, Journal, China Branch Royal Asiatic Society, 1899.
- (3) Page 22. Plate II, No. 25 are not coins, but chessmen; viz., Shih (not tsien), "chancellor"; Pao "cannon"; Ping "soldier."
- Page 33. With reference to the coins, enumerated under No. (5), the specimen figured in Plate I, No. 23, has been identified by Mr. E. Rapson as a Kashmir coin.
- Page 35. With reference to the coins, described under (b) Aţāliq of Kāshghar, I may note that coins of this kind have been described by Blochmann, in the *Proceedings* of the Asiatic Society of Bengal, for 1876, page 90. According to Blochmann, "the name 'Abdul 'Azīz Khān, Sultan of Turkey, is given on the coins, because the Aṭālīq of Kāshghar does not feel strong enough to strike coins in his own name."

XI. SEALS, INTAGLIOS, ETC.

- Page 37. Consequent on the contribution, M. 10, already referred to, the number of these objects is now 77. The additions are
- No. 82. Square flat brass seal, with broken perforated peg, showing two birds facing each other under a tree; very similar to No. 64.
- No. 83. Round intaglio of blackish agate with whitish surface on the engraved side (cf. No. 45), showing a lion crouching to right, behind (or transfixed by) a cross-shaped stake.
- No. 84. Round intaglio, of a mineral like No. 83, showing a deer running to right, above it a pursuing dog.
- No. 85. Rhombus-shaped intaglio, of red cornelian, showing a lion crouching to right.
- No. 86. Elliptical intaglio, of an uncertain mineral, showing a lion walking to right.

- No. 87. Round intaglio, of an uncertain mineral, showing two men, walking to right, one behind the other, right arms uplifted, left hanging down. Similar to No. 35.
 - No. 88. Round intaglio, of an uncertain mineral, showing a fish?
 - No. 89. Rhombus-shaped intaglio, showing a twig.
- No. 90. Square amulet, $\frac{5}{8}$ inches, made of horn, thickness $\frac{1}{4}$ ", perforated for string-hole, engraved with two different linear designs.
- No. 91. Square-based pyramidal, perforated seal-ring or amulet, of white stone, engraved with a linear design very similar to that of No. 76 Nos. 92 and 93. Indistinguishable.

ERRATA IN PART I.

Page			22,)		_		
,,	33,	,,	6, }	read	ע ולה וע	for	y all y
,,	34,	"	3,)				
,,	37,	,,	13,	,,	XI	,,	X
,,	39,	"	3,	,,	almond	,,	lozenge
"	41,	"	19,	,,	right	,,	left
,,	110,	,,	35,	,,	wider	"	narrower
,,	110,	,,	36,	"	narrower	••	longer
,,	29,	"	24,)			"	
	and el			"	Н.	,,	Ĥ

<u> </u>		_				
NG						
1	a	1				
मु	ã	z				
CE	i	3				
	e	4				
?	ka	S'				
8	ja	6				
3	ña	7				
3	ti	8				
•	lka	9				
3	dha	10				
5	na	11				
	RI.	140				

1000 sty syc suc

hvo hsa

Digitized by Google

80	9
9 90	
100	Sy
1000	4

