#### P. K. Gode Studies-Vol. VI

# STUDIES IN INDIAN CULTURAL HISTORY

Vol. III

BY

P. K. Gode, M. A. D. Litt. (Paris)

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#### FOREWORD

Dr. Gonz's sudden death on the 28th of May 1961 was a serious blow to the P. K. Gode Wortz Pablication Committee, and paralysed in scribins for quite some time. Five Volumes of Dr. Gonz's Writings had been published between 1953 and 1960—two by our Committee, two by the Blancing's Videy Blavrus, Burnhay, and one by the Viderechteranumal Voici Recent's Institute, Hoskimpur. Our Committees had decided to publish two more Volumes, and their printings had already started while Dr. Gonz was still livinge. But the vork had to be appreciated after Dr. Gonz's sudden than daws accurated only a cough of years ago. After a careful consideration of the matter, the Committee also decided that the two Volumes, which were being printed sparsetyle, whould be insued as two parts of a single Volume, namely, Volume VI. The present Volume than extends over 360 pages and comprises 31 research purpus, of which I far included in Part I, and Is in Part III.

The papers in this Volume core literary, historical, and calaural subjects, and, with a view to ficilitating reference, papers having on the same traje have been presented strilly. Among the topics dealt with in the papers in Part I, may be motioned History of Paper and Paper Industry. Use of Cloth for Letter-Writing; Ink-Mandafarer History and Progress of Catalogaing of Sanshrit and other Mensacriptes Location of Kardorichiya's Library at Rewest, libraried MS of the Biligenias Particus Cherrusinoss on Sudy; History of Reingwalls of Sope-Nass, Susp and Wastermen, and of the Practice of Massage; and Use of Gangas Water by Manlian Rulers. The Second Part contains Papers on Casses, Social Life and Cultural History and the topics include Antiquity of Kardide Brahmiston and of the contensame Still and the Organ State of Calaural History of Reinfalde Brahmiston and the contensame Still and the Casses and the Casses of the Casses of

It is rather unfortunate that the usual Subject Index by Prof. N. A. Gora should be missing in this volume. As its inclusion would have delayed the publication of this already long over-due volume, the Committee (including Professor Gora) decided to issue the volume without that Index.

The Committe expresses its deep sense of graduate to MM. Dr. P. V. Rass, National Professor of Indology, and Professor R. K. Hapongon, former Viza-Charcellor of Gushati University, two estermed friends and admires of Dr. Congr. who have made substantial financial grants towards the publication of this Volume. The Committee would also like to take this opportunity of thanking the large number of Dr. Gonz's friends who have promoted the publication of this and the earlier Volumes (81).

in wissa ways. Ser. S. N. Sanstot of the Bandarkar Oriental Research Institute was mainly separable for the correcting of procts. He also standed to the administrative side of the printing and the publication of this Volume. The Committee expresses in sign approach on the edities service resultered by Sin Sanston of account of his revenues and regard for Dr. Gozt, under whom he had the privilege of working for many years. The Committee also conveys its heavy thesis to Shris S. R. Sanzesas of the Veda-Vidys Madermalyor, Poora, and all the workers of his press for the nest and comfort originator of this Volume.

With the publication of this Volume, most of the important papers of Dr. Gong may be mid to have now appeared in book form, and the Committee may be said to have more or less achieved its objective. The following table will give an idea of Dr. Gong's writings published in book form:

P. K. Gode Studies	Title	Pub isher	
Voj. 1	Studies in Indian Literary History—Vol. 1 (Singhi Jain Series No. 37) 1953, pp. 570 (out of print)	Bharatiya Vidya Bhavan, Bombay 7.	
Vol. II	Do-Vol. II (S.J. Series No. 38), 1954, pp. 560. (out of print)	<b></b> Do	
Vol. III	Do—Vol. III, 1956, pp. 270.	P. K. Gode Works Publica- tion Committee, B. O. R. Institute, Poons 4.	
Vol. IV	Studies in Indian Cultural History, Vol 1 (Vishveshva- rananda Indological Series No. 9), 1961, pp. 514.		
Vol. V	Do-Vol. II, 1960, pp. 298.	P. K. Gode Works Publics tion Committee, B. O. R Institute, Poons 4.	
Vol. VI	Do-Vol. III, 1969, pp. 365.	_D₀ <u>—</u>	

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P. K. Gode Studies-Vol. VI, Part 1



#### 1. MIGRATION OF PAPER FROM CHINA TO INDIA-A D 105-1500

Bühler in his Indian Paleography 1 published in 1896, makes some remarks about the use of paper in India. Some points from these remarks may be noted here:-

- (1) Between B.C. 350 and A.D. 1300, a period to which Bühler's work refers, naner was hardly known or at least little used in India.
- (2) The introduction of paper is only due to the Muhammadans. (3) According to Raiendralal Mitra paper was used in Malwa during the 11th century, as proved by a "letter writer", by king
- Bhoia of Dhārā. (4) The oldest paper MS in Guiarat is dated A.D. 1223-24.
- (5) Peterson discovered at Anhilvad Patan paper MSS dated A.D. 1327-28 and 1337-38.
- (6) Ancient paper MSS from Kashgar were all of them written in Central Asia. They are covered with a layer of gynsum and it is doubtful if they are of Indian origin.

In his book on Indian Textual Criticism published in 1941 Dr. S. M. Katre observes : "So far there has not been any consistent or sustained effort at the study of the material of these (paper) MSS as it comes down to us from different centres and through different periods." It will thus be seen that there is much scope for a historical study of the introduction of paper into India and its increasing use and manufacture from indigenous materials on Indian soil. To trace the migration of paper from China to India through different periods of history is a difficult task for a student like myself, not conversant with the firsthand sources of history available in non-Indian languages or literature. I shall, therefore, record in this article only a few references to paper. having a bearing on its history with special reference to India, gathered by me during the course of my studies.

- A.D. 105 -The credit of the invention of paper goes to a Chinaman Ts'ai Lun, who offered his product to the throne in A.p. 105. A scholar
  - Paper Making by K. B. Ioshi, 1944, pp. 205-222. 1. English Trans, Published in Indian Antiquary, Vol. XXXIII, 1904, p. 97.
  - 2. Page 8.
- 3. U. Wayriffe on p. 11 of his Arabica and Islamica (London, 1940) makes the following remarks about paper :- "About a hundred and twenty years after Muhammed's death......the use by the Arabs of paper began about A.D. 750, centuries before its use in Europe, and the great growth of Arabio literature began about A.D. 800, though very little paper ofour 9th and 10th certuries with Arabie writing upon it has been preserved." These remarks are consistent with the date A-D. 866 of a Muslim paper MS referred to later inthis paper.

Ta'ui Yuan, who died 37 years after paper was first made wrote to a friend as follows:-

"I send you the works of the Philosopher Hsa in ten scrolls unable to afford a copy on sith. I am obliged to send you one on paper." Though "The Development of the Book in China" has been studied, and development of the book in India remains to be studied and investigated. According to A. W. Hummel! 'the story of the Chinese body seam to have developed steep by steep from the accedent or bands both the side of paper scroll. From the scroll to the folded album and from the album to the paged book of modern times. The chronology of this story "prior to the invention of paper is not generally known to ordinave readers in folds and hence I note it below:

- B.C. 13th-14th Centuries —Incised divination bones with inscriptions were discovered in 1893 in Honan Province. They show that books existed at this time (Shang Dynasty). The Chinese pictograph for a "volume" appears on these bones and on early bronzes.
- B.C. 1st Century Thousands of inscribed slips were found in the desert sands of Chinese Turkestan.
- A.D. 96 Seventy-eight mooden slips, containing an inventory of wearens were discovered by Folke Bergmann of Sven Hedin's Expedition (about 12 years ago) in Central Asia.
- A.D. 105 Invention of paper by a Chinaman Ts'ai Lun as noted above.

Vide pp. 71-76 of the Jesseal of the American Oriental Society (June 1941). In
the article on paper in the Encyclopacitic Britannics (p. 229 of Vol. 17-14th Edn.) a short
history of Paper is given from which I note some important points:—
(i) The art of making paper from Shores matter seems to have been practiced by

the Chinese at a very distant period. It is traced by some writers to 2nd century Rc.

(II) In A.D. 751 the Chinese strucked the Arabs in charge of Samerkand. The Anh Covernor repelled the struck and captured Chinese prisoners killed in population of the period of the

of paper and the large number of Arabic MSS on paper.

(iii) Paper was probably brought into Greece from Asia about the end of 11th enther.

enthery.

<sup>2.</sup> Cf. drika-Skow (n. R., 180) of Kaujiya, Chap. X of Book II - Procedure of forming Real Wist. The qualification of a writer (1987s), the form of writing and salid driven in this chapter show the degree of perfection the and writing had reached in Kaujiya's time. This chapter reminds us of Boom's dictum "Writing hader show if a Kaujiya's time. This chapter reminds us of Boom's dictum "Writing maketh as exact man" and it is exactitude, which is the very basis of Kaujiya's treating.

It is supposed that the Art of Writing originated in Egypt. There is an ancient status of an Egyptian surisis. A phonograph of this status is given by Davies in his Outline of the Electry of the World (p. 22 of 1917 Edition). We can visualize a SWE we earlie of Karellyn's time writing royal write on Marija or polan leaves in the mannet of the Egyptian rectifye, who wrote in time to popyme with a reed gen.

According to Sir Aurel Stein' the paper invented by Te'ai in A.D. 105 was made of old linen rags, fishing nets, bark of trees and raw hemb.

- c. And Gentary A.D.—Mr. G. Maratney, apecial assistant for Chinese affairs at Kashgar discovered o sets of MSS known as Maratney MSS. Set VI of these MSS was picked up from the ground at Kuk Gumbaz. Its material is a kind of 10f paper with a darkish colour. According to Hornelic these MSS belong probably to the 2nd century A.D. Several folios of these MSS have been reproduced in the Journal of the Aniatic Society of Bengal (1897).
- c. 3rd Century A.D.-For students of the history of rap paper the discoveries of Sir A. Stein at a watch-station in Central Asia are very important. He discovered some documents on ray paper and Prof. Wiesner analysed them and concluded that the paper of these documents represented a particularly early stage in the evolution of pure rap paper. This analysis removes the previous belief, according to which the origin of rae paper is ascribed to an Arab invention first made in Samarkand about the middle of the 8th century A.D. and then spread through the near-East to Europe. The documents discovered by Stein are called Sogdian documents and they are written in early Sogdian language. They were found along with records of the early years of the 1st century A.D. and are not much removed from the Chinese invention of paper in A.D. 105.3 As these documents were found in parts far away from the Central Asian border province, Stein concludes that the writers of these documents were of a foreign origin and that they adopted Chinese paper for their use very early. Evidently the foreigners adopted the Chinese paper more rapidly than the people of China themselves

Vide his Report on his Explorations in Central Asia and Western-most China called Serindia (Sec. 4, Chap. XVIII, pp. 771-7).

<sup>2.</sup> Vide p. 134 of Ketre's Indian Textual Criticism, 1941.

<sup>3.</sup> The word paper is derived from Papyrus (see p., 20 of Euro, Brit., Vol. 15-14th Edition). I am not concerned here with the history of papyrus. The west of papyrus in ancient Egypt is well illustrated by Egyptism on Id-painings. In the Tomb of Paywrs the thought of the Tomb of Papyrus Heren. These pictures about "how the stalls werepulled up in the marshy lakes, tied up into hundles and carried ashers. The beginning of thepaper.making is also taking place, for the figure to the right is preling off the hard carrier ceating from one of the stalls." (Video, 7 of Egyptism Rell paining of NVIII and NVIX Dynaparap, Metropolism Mousem of Am, New York, 1930).

There is a popyrus of 2nd century 1.0. containing a Greek play with Kennede passages. These passages are considered by Griterian as the oldest speciment of Kanstress. The papyrus was discovered in 1897 by the Biblical Archaeological Association at Only thynous in Lower Egypt and is numbered 413. Dr. Shame Shatis has identified to Kanneda passages. (Vide Journal of Mythic Society, Bangalore, 1928—Monograph on this Patrons to S. Srikantistins.)

- A.D. 312 According to Stein the paper used for Sogdian documents shows no trace of "Sizing" with starch or other gelatinous matter, which is found in later papers found in Chinese Turkestan and which alreadyancears in a Chinese document of a.D. 312.
- A.D. 317—Mr. John C. Fergusson writing in Tien Hise Monthly (May 1940) refers (on p. 414) to a Chinese calligraphist Wang Hsi-Chin of A.D. 317. He was supreme in his art, which is described by Fergusson as follows:—"His glory was to be able to extract from the paper on which he traced with black in the lines and curve and hooks of in characters such delectable harmonies for the eye of man as no one else can hone to enual."
- c. A.D. 500 Rev. F. Weber, 'Moravian Missionary in Leh in Ladak received new MSS from an Afghan merchant, who found the in a place near Kuigar, 60 miles south of Yarkhand in the Chinese territory. These MSS are all written on paper and form 2 group (i) Indian, and (ii) Central Asian. The Indian Group is written in North-Wistern Gapta Characters, while the other group is written in Central Asian Nāgari. According to Horenie all of these MSS are not later thanks. An 700. Hoernie dears them at about c. a.p. 500.
- A.D. 671—Though paper was invented in China in A.D. 105 is migration to India spears to have been very slow. At any rate it was notas rapidas the early Chinese travellers to India. When the celebrated Chinese traveller Listing visited India in the latter part of the 7th century with a desire to copy Sanskrit MSS for being taken to China the could not get paper in India and was, therefore, compelled to order some paper from China as will be seen from the following extract from his Record<sup>3</sup>:
  - "At the mouth of the river Bhog(j?)a I went on board the ship to see the letter (through the merchant) as a credential to Kwang-Chou kenng-tung) in order to meet (my friends) and ask for paper and cakes of ink which are to be used in copying the sistras in the Brahma language (Sanskrit) and also for the means (coat) of hirms scribes."
  - It is clear from the above extract that paper either indigenous or of Chinese manufacture was not available in India in the 7th century, though it was not quite unknown in India at the time as will be seen from the following reference to the use of paper found elsewhere? in I-tsing's Record:—
    - 1. Vide p. 135 of Katre: Indian Textual Criticism.
  - Vide p. EXXIV of Introduction to I-ming's Record (671-695) Trans. by J. Taks Kusu, Oxford, 1896.
  - 3. Vide p. 150 of Reard. Vide also p. 203, where Lising narrates the story of his teacher, who more all his bods and put them into morate for being used for a status of Vajre than in preparation. His pupils said —"If it is necessary to use polers, let ut use blank papers instead." The teacher said that he had been led astray by the literature in the mortar,

"The priests and laymen in India make Caityas, or images with earth, or impress the Buddha's image on silk or paper and worship it with offering wherever they po."

- If Taka Kusu's translation of the original Chinese passage corresponding to the above extract is correct we shall not be wrong in inferring that paper was known to Indian priests and laymen in the 7th century A.D. but that it was a serie commodity used perhaps for religious purposes occasionally. Possibly on account of the Chinese contact with India some paper was already introduced into India prior to the visit of 1-tsing but its wide-apread use in large quantities or even its manufacture on Indian soil was not given attention to owing to the system of using the bitsija and palm leaves! for writing purposes so common in those days. Speaking of the onal transmission of the Vadar Listing observes:—(P. 182 of Record) "The Vedar have been banded down from mouth to mouth not transcribed on appear or leeger."
- It appears from the above evidence that paper was not quite unknown in India in the 7th century A.D. but it failed to ous the bhigrja and the palm-leag<sup>3</sup> owing to the orthodox tendency of the Indians generally in not adopting foreign things unless compelled to do so by political powers or by dominant cultural contacts, which saturated the Indian life in an overwhelmin detree in any view neeriod of history.
- A.D. 751—In the history of paper given in the Encyclopacities Britamica\* we are told that in A.D. 751 Samarkand, then in charge of an Arab Governor was attacked by the Chinese. The Governor repelled the attack of the Chinese and pursued them, making prisoners of some Chinese, who knew the art of making paper. These prisoners imparted the art to their Arab masters and in this manner the Arabs began to manufacture Ander. A laree number of Arabic MSS on about is due to

<sup>1.</sup> Humi Li in the Life of his teacher Himm-Triang who visited India (A.D. 629-645) refers to the Indian use of palm-leaf for writing purposes as follows:—

<sup>&</sup>quot;We come to (Kongkapapurs).....To the north of the city is a forest of Tales trees about 10 is nicrosit. The leaves of this tree are long and of a shining apparance. The people of these countries use them for writing on and they are highly valued" (Vide p. 146 of Life of Hissen Triang, Tubbert, 1911). After the death of Hissen Triang, Tubbert, 1911). After the death of Hissen Triang, Inc. 564, Liting started for India in a.p. 654, Liting started for India in a.p. 654, Liting started for India in a.p. 654, Liting started for India in a.p. 654 and returned to China in a.p. 694.

<sup>2.</sup> Cf. Masmiller's remarks on writing (p. 27 of Ansteal Seabrit Liberature, Panini Office, Allahabed, 1912). Into some points from these remarks:—(1) Ryands Hymns have been preserved through "unsided efforts of memory", (2) There are references to writing in the Off Tentanent, (3) There is no mention of writing in the Hottler hymns, (4) There is no allauion to writing in the Britanent period. (5) Writing was consibly introduced towards the latter half of the Signe period.

<sup>3.</sup> Kauşilya in his Artha-Matra (c. n.c. 320) mentions in his list of forest products, birch (মুন) and palm (বাক্ষ) yielding leaves (প্রস্থা) which the commentary explains as writing material (Vide p. 108 of Shame Shattri's Trans. 1929).

<sup>4.</sup> Vide p. 229 of Vol. 17 of Es. Br. (14t . Edition).

this incident. Sir Aurel Stein does not believe in this account as be state that the Sogdian documents on rag paper discovered by him, remove the belief so far held about the Arab invention first made at Samarkand in the middle of the 8th century A.D. and then spread through the near-Past to Euroca.

Befor A.D. 851—Sullyman' the Arab Goographer refers to the Chinese use of paper for sanistry purposes as follows: ----"The Chinese do not clean with water after call no finature, but wipe with paper." It is assumed to correct we have to suppose that paper was then yet charge in China for being used for unntary purposes and further that the Chinese were pioneers in this custom now common in Europe. Brideally the European use of paper for toilet purposes is no modern extends (investigation).

A.D. 866—Mr. G. R. Kaye\* in his account of the Bakhshali MS states that "the art of paper making appears to have been practised by the Chinese at a very early date. From the Chinese the Muslims learnt the process in the 8th century and they introduced it into Europe and allow ladie about the 12th century. Among the earliest Muslim paper MSS now preserved one was written in A.D. 850, others in a.D. 974, 980, 991.

The earlier one measures 6 + 4 inches (ratio 1:5) and the other 13½ × 5 inches (ratio 2:7)."

A.D. 904-5—In 1938 Meagrs. Bernard Quatrich Ltd. of London nanounced for alse a MS of a "A Teath Century Nerna" in hydrcharacters in 4 volumes, each volume containing a note in Persian showing that the MS was at one time property of a mosque in Persia. The translation of the note as recorded in the catalogue is as follow: "This mosque was repaired by Ahmad b. Abi-al-Qasim al Khaya-qiain in the year 20" (e.a. 9.04-5). As this MS is written on realism or fact parchment we may not take it into consideration in our history of pager.

A.D. 901-995 — In 1940 and 1943 Lionel Giles published two articles on Chinese deted MSS ranging in dates from A.D. 901 to 1966 in the Bullatin of the School of Oriental Studies; "London. These dated documents in the Stein collection show the attention of the Chinese to chronology unlike many of our writers of Brahmanical MSS, which lack in chronology and hence hinder the reconstruction of history on documentary evidence.

Vide p. 98 of S. M. H. Nainer: Arab Geographers' Knowledge of South India, Madras University, 1942.

<sup>2.</sup> Vide p. 9 of Arch. Surv. of India, Vol. XLIII (1927). The Bakhahali Manuscrip; by G. R. Kave.

<sup>3.</sup> Catalogue No. 550 (1938) pp. 8\*-87, Item No. 257 (Koran).

<sup>4.</sup> Vol. X. Part 2 (1940) pp. 317-344 and X. Part I (1943) pp. 148-171.

A.D. 997-1022 - Das Gupta 1 makes the following remarks about Chinese paper currency in his book on "Paper Currency in India."

A.D. 1089 — In his Catalogue of Jammu MSS (1894), p. 8, M. A. Stein records a paper MS of ছাল্যৰ লাভ্য dated A D. 1089.

A.D. 1180 —Mr. R. A. Sastri<sup>2</sup> in his article "On Old MSS" states that "paper MSS begin with the date 1236 Sanivatsara i e. A.D. 1180."

A.D. 1223 —The oldest dated paper MS in Gujarat referred to by Rühler on p. 97 of his Indian Paleography is dated A.D. 1223-24.

Subjection p. 97 of his Indian Paleography is dated A.D. 1223-24.

A.D. 1231 — Mr. G. R. Kaye mentions theearliest Indian paper MS

written in A.D. 1231.

A.D. 1298 — Morco Polo refers to the paper money of Tartar Princes.

A.D. 1310 — Gough in his Papers (p. 24) mentions a paper MS dated 1310 A.D. This is a MS of Bhāpavata (p. 16).

A.D. 1320 —A work on medicine by Vangasena called the Vangadatta Vaidyaka is represented by a paper MS in the Govt. MSS Library
(No. 352 of 1879-80) at the B. O. R. Institute, Poona. It is dated
Sammat 1376 = A.D. 1320 and is well preserved.

A.D. 1323 — The Avesta Codex K 5 reproduced by the University Livrary, Copenhagen in 1939 was copied on paper in Samoat 1379 (17th November A.D. 1-23) at Stambhaitrtha or Khambhayat.

A.D. 1345-50 - Mohammad Taghlakh introduces paper money into India.

A.D. 1395 —A Marathi document a dated 7th December 1395 uses the term "Kāgad" for paper or document. This document hails from Poona District and is a Vatanpatra of Govind Honap Deshpande of Kodhānā.

<sup>1.</sup> Published 1927, p. 1.

Mohammed Taghlak (A.D. 1325-1351) introduced paper-money in his dominions, causing conclusion and distress tohis subjects. He then issued copper-tokens instead of the paper notes. (Vide p. 405 of History of India by Elphinstone, 1874).

<sup>3.</sup> Vide p. 125 of Bulletin of Ramanarma Research Institute, Vol. VI, Part II (July 1938).

<sup>4.</sup> Travels ed. by Thomas Wright, London, 1901, j. p. 215-18.

<sup>5.</sup> Vide शिवचरित्रसाहित्व Khanda 7, B. I. S. Mandal, Poona, 1938, ले. ३० dated 7th December 1395. ( तन्द्रेकर देशपांट केफियत ).

<sup>&</sup>quot; बाम्बी ज्या दर्शास अमान धोऊन बापता दागद गोदिला "

A.D. 1396 — A MS of Ryabhadeoa-caritra etc. containing portions written on palm-leaf and paper was copied in Samoat 1452—A.D. 1396. It mentions the term Kanad.

A.D. 1406—In the account of Bengal by Mahaun<sup>2</sup> the Chinese interpreter to the Chinese embasy that visited Bengal in A.D. 1406, he refers to the manufacture of paper in Bengal from the bark of a tree. This paper, he says, is smooth and glossy like a deer's skin.

This reference to the manufacture of paper in Bengal made by a Chiaman is very important as it has a direct bearing on the history of Indian paper industry. Though paper first makes its appearance in Indian Palengraphy about A.D. 1000 it is difficult to believe that its manufacture in large quantity was commenced by Indians during the two parts of its advent. It would be reasonable to suppose that between A.D. 1000 and 1300 the use of paper had not become very much current in india using possibly to the exercity of imported paper. It materials that it could gradually replace other materials like the palent (etc. the kibris) parts/memire.cited.or.cite. etc.

c. A.D. 1520 — Though paper was manufactured in Bengal and elsewhere in India before A.D. 1406 the Mogul Emperor Baber (A.D. 1483-1530) praises Samarkand paper in his celebrated Memoirs<sup>3</sup>:

"The best paper in the world comes from Samarkand. The species of paper called juaz comes entirely from Kanegil which is situated on the banks of Abs-Siáh (Black water) also called the Abs Rahmet (or water of Mercv)."

Evidently Samarkand paper had a great history in Baber's time as proved by the belief about the Arab invention of paper in the 8th century A.D., which persists even now in the writings of responsible scholars as we have already seen in this paper.

1. Vide p. 82 of Pralatitasigraha, by A. M. Shah, Ahmedabad, 1937-Colophon — '' बोबसक सुत्रवृत्ति तिच्योगाली श्री साढे ।

> तमा श्रीदममदेवनरित्रं १२ सहस्रं कागवे यंच पुस्तिका तवागन्छ नायक श्रीदेवधुंदरसुरीणामुपदेशेन सं. १४५२.

श्रीपत्तने लेखिता इति मदं ॥ ६ ॥ ''

Vide p. 159 of Sardesai Comm. Volume and JRAS 1895, 529-533.
 Re Erskins. 1826. p. 52.

4. Vide p. 229 or Vol. 17 of 14th Edition. The following facts from this article on paper are noteworthy:-

(i) a.p. 1102-Oldest document on paper is a deed of King Roger of Sicily.
 (ii) a.p. 1122-1150-First mention of ray paper by Peter, Abbot of Cluny in his

(iii) a, a.D. 1150-Moors in Spain manufacture paper.

(iv) A.D. 1231-Frederick (4 forbade use of paper for public documents.

(v) A.D. 1263-In the laws of Alphonso paper is referred to as cloth parchment.

(vi) A.D. 1310-Records of the Merton College, Oxford, show the purchase of paper,

The Encyclopacia Britannica' devotes some space to the migration of paper to Europe and America, but no attention is paid by the writer of the article to the migration of paper to India from China, its far-off home from A. D. 105. My object in giving the foregoing brief but factual outline of the migration of paper from China to India will, it is hoped, rouse the curiosity of scholars and laymen ailde as we are now passing through a period of paper scarcity to such an extent that at times we netterain the idea of commencing to write our literary productions on the palm-leaf and bharja in the manner of our worthy ancestors, whose most constant of the palm-leaf and bharja in the manner of our worthy ancestors, whose no some durable material still excites our admiration and instills in us a spirit of reverence for their methods of transmissionand dissemination of literature, which is the clory of mankind in every are and clime.

Prof. H. R. Kapadia in his article on Outline of Palaeography published in Bombay University Tournal (May, 1938) p. 105 makes the following remarks about paper and its antiquity:—

"Though the preparation of paper was known in India as early as 7d century B.C., it seems that in ancient times Jain works have not been written on it. For, it seems that it was used perhaps for the first time during the rule of Kumiārpāla and Vastupāla as can be seen from Jinamaodanagari 8 kumārpāla-Prabandha (p. 96) and Ratamandiragni 5 Upadeistarangigi (p. 1427). In footnote 19 on this passage Prof. Kapadia adds :—"From these two references we see that the word paper is smallated as even and qwe (Kapada). The word write paper is constituted as even and qwe (Kapada). The second write the paper is constituted as even and qwe (Kapada). The cord write grows are considered to the corresponding word write.

Though there is some controversy. about the origin of the word China, which is derived from Tin dynasty (a.c. 249—a.b. 220) it is doubtful whether paper manufacture was known in India as early a 3rd century a.c. as observed by Prof. Kapadia. "The earliest story of

<sup>1,</sup> From a comparison of the chronology of the migration of paper to Europe with that for its migration to India it appears that the two migrations have been almost synchronous say between Jun. 550 and 1150. The paper records preserved in India as in Europe date from Jun. 1000 ownerds. The history of the transitional stage of this migrationneeds to be reconstructed with full details, if such a study has not already been attempted by any subdies affersedy.

Davies (in his Custine of the History of the World, Oxford, 1937, pp. 285-89) peaks of the contribution of Moslems to the intellectual Histor smakind by the set of means, Jetturing paper, "They certainly didnot discoverthis for themselves (they probably learnt it from the Chinese) but they were undoubtedly the means of its introduction into Europe, Before this time books had to be written on papyrus or parchament but after the Arbs conquest of Europe Europe was out of from the padyrus guoley."

<sup>2.</sup> Vide pp. 4-5 of Indian Literature in China and the Far Bast, by P. K., Mukherji, 1931 (Calcutts).

Sino-Indian contact is connected with Emperor Hiao-Wu (ac. 140-80); and "the starting point of Sino-Indian intercourse is generally put at a. 0.61." If these statements are correct, it is difficult to believe the introduction of the art of paper manufacture into India I rom Chinese sources prior to A.D. 105. If it is supposed that paper manufacture in India, prior to the Chinese invention of paper in A.D. 105, was indigenous, we have to point out that no reliable evidence in support of this supposition has been recorded by competent scholars. Under these circumstances we have to believe in the gradual migration of paper from Chine to India so outlined briefly in this paper from A.D. 105

Prof. Kapadia states that paper was used "perhaps for the first time during the rule of Kumārapēla" who was king of Gujarat from Vikrama Samvat 1199 to 1230 (A.D. 1143–1174). This statement is quite in harmony with the data recorded in the present paper.

The Mahārāṣṭra historian Rajawade a makes the following remarks about the introduction of paper into India:—

"About 50 or 60 years before 1326 another material for writing on became current. This material is paper (Kāgad). There are some remote references to the writing on paper in the Thanesvari."

The Jādnefvari, was composed in A.D. 1293 and as we have already pointed out paper MSS of A.D. 1089, 1180, 1223 and 1/31 the remarks of Rajawade quoted by me are fully warranted by the dates of these MSS on chronological grounds.

In a Marathi work "published at Bombay in 1884 a Persian Farmial dated AM. 717 (Saba 1241) AD. 1299 is reproduced (Appendix A) from a copy of it dated AD. 1765. This Farmin, if genuine, must have been written on paper but as it is reproduced from a late copy of it dated AD. 1765. I am not in a position to draw any conclusions from it, even though it was admitted in the court in AD. 1883 and translated into

Vide p. 2 of Life of Hematosaha (Trans. by Dr. M. Patel). S. J. Serlee Vol. II.
 Jinamagéana, the auther of Kendraphile Caritra completed this work in a.D. 1135

-36. Dhrus-Schigehko of Minovijaya was composed in a.D. 1681 (Vide p. 594 of
Winternitz, Indian Literature, Vol. II (Calcutta). No wonder that Minovijaya mentiona
SPITE in his comm, on this won Dawner-Schigente.

<sup>2.</sup> Aitibibik Pranticant (B. I. S. Mandal, Poons, 1928), p. 374.

Sakle Yajawardiya Brdhmane, by N. V. Veidya Purandare, Bombay, 1884. The carry of this work in my possession is a copy presented by the author to the late Rao Babadur Goplareo Hay: Deshmuch, then at Ratlam.

<sup>4.</sup> Arabic MSS on Ratio of paper (about 10 metre, long) coming from Monthia and North Africe have been despointed in manuscript depositories as Barcelon (Spain). They constite diplomatic correspondence between Egypt and Arappo between A. 1980 and 1910. The Arappose letters in this connection art decide A. 1910, 191

English by a Moulvi of the Elphinstone High School on 6th October 1883. This Farmén is described as a Dônapatra from Raja Bimba of Uttara Końkana to Purusottampant Kävale.

- From Alberuni's Notes on the Writing of the Hindus made about 1.030 it appears that the Indians had not then adopted paper for writing purposes as will be seen from the following remarks' made by him.
- (i) "The Hindus are not in the habit of writing on hides like the Greeks in ancient times."
- (ii) "Muslims too used in the early times of Islam to write on
- (iii) Alberuni refers to papyrus on which the orders of the Khalifs were recorded until shortly before his time (c. A.D. 1030).
- (iv) "It was in China proper that paper was first manufactured. Chinese prisoners\* introduced the fabrication of paper into Samarkand and thereupon it was made in various places, so as to meet the existing want."
- (v) "The Hindus have in the South of their country a slender tree like the date and cocon-uny lamb, bearing edible fruits and leaves of the length of one yard and as broad as three fingers one put beside the other. They call these leaves fair and write on them. They bind a book of these 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."
- (vi) "In Central and Northern India people use the bark of Tuz tree, one kind of which is used as a cover for bows. It is called blaight. They take a piece one yard long and as broad as the out-stretched fingers of the hand, or somewhat less, and prespare it in various ways. They oil and polish it so as to make it hard and smooth, and then they write on it. The proper order of the single leaves is marked by numbers. The whole book is wrapped up in a piece of cloth and fastenedbetween two tablets of the same size. Such a book is called pdibli. Their letters and whatever else they have to write they write on the bark of the fize tree."

The foregoing minute study by Alberuni of the writing of the Hindus speaks for itself.

Kalhana (Ao. 1148) in his Rājataranģiņis' states that a Brahmin Vijayarāja killed an unpopular minister (Citraratha) of king Jayasinha (A.D. 1128 to 1149). Vijayarāja was killed by royal troops. On his arm was found a patrikā or leal with the verse of the Bhagwadgita (111, 8) "Alamana (Arana and Arana and

<sup>1,</sup> Vide pp. 170-71 of Vol. I of Alberumi's India by E. C. Sachau, London, 1888 (Trübner).

<sup>2,</sup> Vide p. 306 of V. Smith, Early History of India, Oxford. 1904.

<sup>3.</sup> Vide Stein's Rajatarangini, Vol. II, 174 (Verses 2256-57. Chap. VIII).

Kalhana states that this patrikā, stating the cause of his action, sanctifies Vijayarājs. Possibly the patrikā in question was written on the bhūrja leaf, which was generally used in Kashmir for writing nurnoses.

I now close my study of the history of the migration of paper from Ching to India through varied vicissitudes of times and climes between A.D. 105-1500.1 About six years ago I began to note down facts pertaining to this history and the visit of Mr. K. B. Joshi, the Secretary of the Paper Research Centre, (The All-India Village Industries Association). Poons to the Bhandarkar Oriental Research Institute in May 1943 bastened up my drafting of the present paper on paper, in which he is interested both in its technical and historical aspects. I have, therefore, to thank him most cordially for having agreed to the publication of these notes, imperfect as they necessarily are, for the benefit of the general public and scholars alike. The presentation of my data in this paper is. I am conscious, not popular but I feel convinced that I shall be doing wrong to the subject, if I keep hidden the sources of this study from the waze of the ordinary reader. I hope that my present study will be supplemented by scholars more competent than myself to handle this subject in its varied aspects. Judging, however, by the queries I get about the introduction of paper into India and the absence of reliable material in our Encyclopaedias on the Indian aspect of this question. I have reason to believe, that my present study will clarify this problem to a certain extent, as it is put in its chronological perspective, which is absolutely essential for every historical study worth the name. If the introduction of paper into India and Europe has revolutionized modern and mediaeval civilizations, the manufacture of paper by villagers in India will not fail to revolutionize their economics. for the improvement of which The All-India Village Industries Association has been struggling since its inception some years ago. May its heroic efforts be crowned with success, is my only hope and prayer.

<sup>1.</sup> By A. D. 1900 printed books appeared in Europe. The first European printer Montherger distinct, sub-printed The Indigingers of Nicholas VI. in A. D. 1645, Cormo setup his Printing Fren in England at Wasteninster in A.D. 1677, (Vide p. 282 Orbital Street and Control Street, No. 1677, (Vide p. 282 Orbital Street, No. 1677, Vide p. 282 Orbital Street, No. 1677, (Vide p. 282 Orbital Street, No. 1677, Vide p. 282 Orbital Street, No. 1677, (Vide p. 282 Orbital Street, No. 1677, Vide p. 282 Orbital Street, No. 1677, (Vide p. 282 Orbital Street, No. 1677, Vide p. 282 Orbital Street, No. 1677, (Vide p. 282 Orbital Street, Vide p. 282 Or

#### THE USE OF CLOTH FOR LETTER-WRITING AT THE COURT OF HARSA (AD. 606-647).

Recently I published some papers' on paleography dealing with the history of paper and other writing materials used by our forefathers during the last two thousand years. A volume of correspondence has come in from the readers of these papers. Leaving aside the appreciations of the studies contained in this correspondence. I must deal with certain pertinent queries about these studies as they lead to further investigation in the fields of my study. In the present paper I propose to deal with one of such queries received from my learned friend M. M. Principal V. V. Mirashi of the Morris College, Nagpur, who wrote to me on 20-1-19/44 as follows:

"It seems quite clear from the references collected by you that paper wan not in common use before the IIth century ab. This seems to be corroborated by the comment of Viśvarūpa, a predecessor of Vijānnevara that "paţe" in Yājānvalkya I, 139, excludes bhūrja-patra (paṭavacnam bhūrjanivṛttarham); otherwise he would have said "kāgajanivṛtyartham." Of what kind was the letter carried by a mesenger in his turban to Harşa (Harşacarita, Ucchväss VI) Could a bhūrjapatra have been carried like that without being broken into bits? Was pacer used for the purpose? You may consider this point."

For answering the above query convincingly I have collected the following evidence from contemporary sources both literary and epigraphic:—

 Poet Bāṇa, the author of the Harşacarita refers to the use of Valkala paṭṭikā² for writing purposes in the following extract from his Kādambarī:—

"Evamuktasca mayā...... nikaṭavartinaḥ tamāla-pādapātpallavamādāya nispīdya taṭsāilātale tena gandhagajamadasurabhiparimalena rasena uttarīya-valhalaikadesādvipātya paṭṭikām avahastakamala-kaniṣṭhikānakhalikhareṇa abhilikhya iyam patrikā tvayā taṣyai kanyakāyai prac-

<sup>\*</sup> M. Hiriyanna Comm. Volume, 1952, pp. 15-21.

These papers are:—(1) Migration of Paper from Chine to India, pages 205-222 of Paper Making by K. B. Joshi, Wardha, 1944.
 Studies in the Regional History of Indian Paper Industry—Paper Manufacture in a.B. 1390 (Bibliothys Vidys), Bombay, Vol. V, pp. 57-955.
 Saint Ramaddar's Discourse on the Writing and Praervotion of Manuscripts. etc. (Now Indian Actionery, Vol. VII. pp. 116-128)

<sup>2.</sup> Q. Curtius Rufus in his History of Alexander the Great refers to the writing material used by the people of India as follows:—

<sup>&</sup>quot;The tender side of the bark of mess received written character like paper" (vide p. 186 of Anzirat India by J. W. M'erindle 1896). According to one view this author lived under Claudius. (A.D. 45-54).

channam ekākinyai deyā iti abhidhāya arpitavān | Ityuktvā ca sā tāmbulabhājanādākṛṣṣa tāmadeṛṣṣyat | Aham tu tasyāh karatalādādāya valkalabatikāka imma Arvam akhilikhitam anasiyam.

> dūram muktālatayā bisasitayā vipralobhyamāno me ļ hamsa iva daršitāšo mānasajanmā tvayā nītaḥ ļ ''

The foregoing extract gives us the use of valkalapartisk or a strip of bark-greened for writing romantic letters with the sid of finger-anish but we cannot conclude therefrom that this method was normally current in Bign's time i.e. 7th century A.D. It appears that cotton cloth as material for writing upon was in use in India before the Christian Ex and its use was continued to very late times. My friend Dr. S. M. Katte has referred to this fact in his book on Indian Textual Critician; published sometime ago. We must, however, record specific contemporary evidence to prove the use of cotton cloth for writing purposity in Harray time (7th century A.D.) with a view to answering Principal Mirabia ourser referred to above.

(2) The Chinese invented paper as early as A.D. 105 but in spite of the Sino-Indian contact which increased in subsequent centuries Indians don't appear to have adopted the use of paper for writing purposes. I-tsing, the Chinese traveller in India, had to order paper and cales of jish for writing Sanskrit MSS from China (A.D. 671). At present no Sanskrit learion is found to contain any Sanskrit word for paper though paper was known in India in the 7th century A.D. In two Sanskrit-Chinese lexicons of the 8th century A.D. edited by Dr. P. Checkin. set find a Sunskrit word for paper set of the Sanskrit word days: recorded as couvisatin for paper.

1. Vide p. 5 of I seller Termed Childrien (Karmank Publishing House, Rombey, 1841) — "Cotton citch menion by Nurchrois in his ordered to by some metrical Nordis and several incerptions of the Standards prind, as material on which off it sixt and private documents were without and shich is alled page, pith or Rephylike pate. According to Brentli and Rice, Kanarese trades vall was a kind of cloth called Kapdaton which is ordered with the control of th

Albernui (c. a. b. 100) penking of writing mat erial used by Hindu children taster, Page 110 of Albernui F. Lanis Caston, London, 1889—"They (Hindus) use Mark staken for the children in the schools and write upon them along the long side, nor the bread side, writing with a white material from the left to the right. One would think that the author of the following verses had mant the Hindus: for many a writer was page of the tast to charcost

Whils this pen writes on it with white colour By writing he places hright day in a dark night; Weaving like a weave, but without adding a woof." They write the till of the book at the end of it, not at the beginning." 2. Vide o, 200 of mr soare on Miransian of Jeans from Chiba to India. but in spite of this record the Indian languages as also Sanskrit ignored the word and consequently it was permanently lost to India.

- (3) In the Sanskrit Buddhist work Aryamasjutrimilakalpa which belongs to about the 2nd century a.D. according to Dr. Benoytosh Bhattacharya there is a section called "patavidhanapatala" in which the use of pata or piece of cloth for writing or painting purposes is clerify indicated by the expressions "tan patam lishapset" and "tan patam citrāpayet" with reference to the painting of the Buddhist god Aryamañjusri on a pata."
- (4) Recently Dr. Hiranand Sastri, Director of Archaeology, Baroda. delivered some lectures on "Archaology and Ancient Indian History" (Published at Ahmedabad, 1944). In his lecture on "Nalanda" Dr. Sastri describes some seals found at Nalanda and states that no document has yet been found at Nalanda with any of these seals to show how they were fastened. He then quotes a passage from Bana's Harsacarita (Trans. by Thomas and Cowell, pp. 40-41) to prove that such seals or tokens were tied to letters by means of a thick and strong Sutra or string. This passage describes the lekhahāra or curior from Krsna, the brother of Sri Harsa as follows: - "atha tenaniyamanam.....atinibidasütrabandhanimnitäntarālakrtavvavacchedavā lekhamālikavā narikalitamürdhanam.....nravisantam lekhaharakam adraksit". (Then he beheld the messenger entering as he was brought before him-his legs tired and heavy with the long journey, with his tunic girt up rightly by a mudstained strip of cloth, the knot hanging loose and fastened up by a rugged clout swinging behind him and having his head wranned with a bundle of letters, which had a deep division pressed into it by a very thick thread that bound it ......".
- I am indebted to my esteemed féend Dr. Sunitikumar Chatterji of the Calcutta University for this information. I reproduce Dr. Chatterji's remarks on my paper as communicated by him in his letter dated 22-6-1984.
- "After receiving your notable monograph on Paper in India. I wanted to write to you to draw your entition to a very neigh reference to Paper in India/paper for Chinete searce. In Dr. Prabodh Chandra Bagchi's Edition of two Santhri-Chinese Intimes are the the centrum, A. Santhrit word depuls in giren as the equivalent of the Chinese for paper. "This lays is evidently an Indianisation of the Chinese word itself, which it is removed in the Chinese for paper." This lays is evidently an Indianisation of the Chinese word itself, which is was current in Santhrit said in other Indian Integrages and that is why is found a place is was current in Santhrit said in other Indian Integrages and that is why is found a place became later on lost India. The work Kaplese also occurs in the Santhrit-Chinese Integral and the Indianish Chinese India

Many scholers in this country are ignorant of the Sino-Indian sources of Indian horry. We, therefore, welcome with a joyous heart Dr. P. C. Bagchi's Quarterly journal of Sino-Indian Statis now started at Calcuts and a inh it a successful career.

2. Vide pp. 75-76 of Aryamailjulefmülakalpa (G. O. S., Berode).

Dr. Sastri further observes:—"Such seals as were found in their entirety like the one of Paispatsinisha, were probably fastened to strings, whose ends were secured on the documents themselves, either by being sealed with the same seal, or by another seal or token. The thing might have been of harmy or cotton. In the observed only specimes it cannot be determined whether these documents were written on wood, leaster, token-leaves, soaher on any other material."

Speaking of the material for sealing used in those days, Dr. Sastri observes:—"For the sealing wax of to-day clay was probably used in those days. A piece of white Khādi was found in the hole of one seal."!

It will be seen from the above remarks that even an archaeologist like Dr. Sastri is unable to determine the nature of the material used for writing at Nālanda in the 7th century A.D. or thereabout. Possibly the piece of Kāddi found in the whole of one seal is a relic of such material as will be seen from the evidence I shall record in the following lines.

(5) Neurchos was the admired of Alexander's fleet during his Indian expedition. Strabo, the Greek geographer (a.c. 64 to Ao. 24) writes on the authority of Nearchos that the Indians wrote upon cloth, which was well pressed to make it smooth. This evidence clearly shows that the practice of writing letters on cloth was in vogue in India 900 years, if not more, before Harp's time and even King Harsa, followed it himself in his official correspondence as will be seen from the following extract from the Life of Hiuen-Tsiang (a.D. 629-645) by his poul Hawiz Li Cirobner 1911, p. 190; ...

"Three days after separation the King (Silfalitys or Harsa) in company with Kumira-rajis and Dhruwbhatterija, took several hundred light horsemen and again came to accompany him (Hisen-Trisong) for a time and to take final leave, so kindly disposed were the kings to the Master. Then he commissioned four Ta-kwan (official guides) to accompany he secort: they call such officers Mo-ho-ta-lo (Mahitirasa). The King also wrote some letters on fine white cotton stuff and sealed them with red wax (or composition), which he ordered the Ta-kwan officers to present in all the countries through which they conducted the Master, to the end that the princes of these countries might provide carriages or modes of conveyance to escort the Master even to the borders of Chins."

The foregoing extract clearly shows that in the 7th century A.D. the use of "fine white cotton stuff" of for writing official letters was in com-

Vide pp. 79-20 of Archarelegy and Ancient Indian History (4 lectures) by Dr. H-Sastri, Pub. by Gujarat Vernacular Society, Ahmedabad, 1944.

<sup>2.</sup> Vide p. 186 of Ascient India by M'Crindle (1896).
3. I may note here a curious use of cloth referred go by Ahobala in his Mimdeled work Vakyentharates with his own commentary (Vide p. 51 of Ed. by R. R. Sastry in Mysore Sanskri Series, 1843). In some province there appears so have been current

mon use and that these letters were sealed with red composition which was possibly some kind of clay as Dr. Sastri has stated after examining a number of Nälanda seals.

(6) I am now in a position to consider Principal Mirashi'a query about the material of which was made the letter sent to Harge containing the bad news of his father's illness. The passage from the Harge Carisa (5th Ucchväsa) which refers to this letter reads as follows: "atha dürdewe a lethagurbhay'a filirägamestaruci cailaciriayai racitamundamälikam.....adhvagam kuranganiminamiyantam adräkelt." (Vide p. 130 of Eng. trans. of Harge Carisa by Cowell and Thomas, London, 1929—"Anon he (Harsa) beheld afar off a certain Kurangaka approaching with a billad tied in a forehead-wargo of rago of deep indigh but", etc.).

If Harsa got his letters written on "fine white cotton stuff" as stated in the Life of Human-Tainn, it is reasonable to infer that the above letter brought to Harsa by a messenger wrapped up in his turban must have been written on a piece of Leuka and consequently there was no danger of its being broken into bits. I hope the evidence recorded above warrants us to draw this inference.

(7) The above inference has been further supported by inscriptional evidence of c. a.p. 700. Mr. Priyatosh Banerjee in his article in Jour. of Bihar and Orissa Research Society, June, 1944, pp. 198-202, on "Patna Museum Inscription dated in the year 17 of the reign of Viquupta (c. A. D. 700)\* translates the last portion of this inscription as follows: — "The short cloth of the deed of purchase was written on by Devadatta and was inscribed by the wise artisan Kulädity" ("likhitä devadattena samhsjiptā kraya-cirākā | utkirņā sūtradhāreņa kulādityena dhīmatā !").

Mr. Banerjee adds: —"This is my translation of krayaciriki. Clost as writing material was very common in ancient times. See Chapter VIII, para XXXVIII, B-Ind. Anti. Vol. XXIII, 1904 (Appendis)".—The above inscription is on a store piece (I.f. 3 inches ye inches). Evidently the deed was drafted on a piece of cloth (ciriki) and then inscribed on a store. I believe in the light of the above evidence that the letter brought to King Harys by a messenger must have been written on a ciriki and inserted in the carilaciriki of his turban.

the custom of communicating the good news of the birth of a son to his father by sending with a messenger a pale or piece of clash with the footprint of the newly born son as will be seen from the following extracts.

> "kvaciddele sutotpattau pajam sutapadānkitam | pretavanti lanā vārtāhārena ianakāntikam || 72 ||

kasmimiciddele putrajanmasamanantaram alaktiding putrapadinkisam pajam tatpitre kumirajananasikanistham kenacidvituhirena ivratridayah pretayanti 1 sa ca vituhitrah tum pajam gyhirvä jasakibhykisam präpya pritarasami putrapadinkisam pajam pradariya digya vardhasa putrasta jitah iti vadati i etc."

I shall feel thankful if any scholar reports to me any additional references to this custom from literature. Is this custom now current in any part of the world?

S. I. C. H. 2

### 3. STUDIES IN THE REGIONAL HISTORY OF INDIAN PAPER INDUSTRY

The Paper Manufacture at Harihar on the Bank of the Tungathadra in

In my recent paper on the Migration of Paper from China to India. A.D. 105 to 1500. I referred to the question of reconstructing the history of Indian paper industry since the introduction of paper into India c. A.n. 1000. In this connection I quoted the reference of Mahaun the Chinese interpreter who visited Bengal in A.D. 1406 to the effect that the people of Bengal manufactured paper a from the bark of a tree and that the paper so manufactured was smooth and glossy like a deer's skin. The manuscripts libraries in India are full of thousands of MSS on naper, mostly indigenous, manufacture of this indigenous paper belonging to different dates and places. Such a history cannot be reconstructed in a short time as it pertains to different centres of paper industry current indifferent periods of time. I propose, therefore, to record in the form of occasional historical notes on this subject such data as I can gather during the course of my other studies pertaining to the history of Indian Culture in its varied aspects. It is hoped that such data will materially facilitate a systematic reconstruction of the history of indigenous paper industry in India say between A.D. 1000 and 1850 and thus clarify our nebulous knowledge of this industry current at present. In dealing with the history of Indian paper industry between

- Bhératha Fidyd, Vol. V. pp. 87-95.
  1. Vide pp. 205-222 of Paper Making by K. B. Joshi, All-India Village Industries Association. Mannardi, Wardha (C. P.). 1944.
  - 2. Ibid. p. 216.
- 3. Cf. the use of pall-sale in the Vigensager empire Third Dynasty (Ao. 1379 st) by N. N. Ramasays. Medics, 1975, p. 197. "The measurement oil lands and several details pertaining to it were ortered in pals-side registers called Kerilles. Earl Milles bad of Ramo de in som shink was maintained by the Kergean or the village assentant." "Chojas of village Kerilla user preserved in the Claudies or offices of several contractions." "Chojas of village Kerilla users preserved in the Claudies or offices of the Contraction of
- 4. These MSS are evidently the product of eld paper making proces as described on pp. 6-8 of Paper-Making by K. B. Joshi We need, however, some historical testimory about these processes as current in different nature of India at different partials.
- 5. K. B. Johl; (p. 1 of Paper-Maller, 1949) observes; "The history of paper-making endes specials this control; till remains in historide mystery although the Mephil and the Palme prioridit flowinhed throughout the whole county." The history flowinds ones in the Paylor, Stalker produced the paper-pairs and the paper p

c. A.D. 1000 and 1800 we are of course concerned with hand-made paper. Even in Europe! "until the close of the eighteenth century manermaking was mainly a hand-process, at least so far as the actual formation of the sheets was concerned." The method of preparing paper introduced and employed in Europe up to the invention of the stamping mill in A.D. 1151 at Xatina, (an ancient city in Valencia), Spain, were as follows: "In the early days of printing, when Guntenberg, Fust and Schoeffer and later Jenson and Caxton practised, the hollander or beating engine was unknown to paper-makers. Raps were reduced to nuln in very elementary fashion. At the incention of paper-making the following was the method adonted. The material was gathered together and allowed to ferment, then holled in wood ashes and nut into bags which were immersed for a considerable period in a running stream. Having thus removed the alkaline residue, and a large proportion of the dirt, the mass was besten 2 or 3 lbs, at a time on the wooden blocks, with heavy sticks. By this process the material was gradually reduced to a pasty pulp, which was diluted with water to the required consistency. Sheets were formed by immersing in the pulp a rectangular sieve, with meshes formed of strips of hamboo or similar material connected together by silk threads. The puln was contained in a vat and was constantly stirred during the making of the sheets. Sufficient fibre to form a sheet was picked up on the sieve and the drying of the sheets was afterwards performed by exposure to sun and air.

These methods current in Europe Jefore AD. 1151 may now be compared with the method of preparing paper as current in the Maratha country and recorded with some detail by Captain Edward Moor? about AD. 1791. Moor was one of the founders of the Royal Asiatic Society, London, and an acute observer of Maratha life and customs as will be seen from all his writings and exoccilly his account of the British co-peration with Parashurum Bhan Patwardhan, the celebrated Sardar of the Peshwa in the seige of Dharwar (AD. 1799-91) azinist Tipoo Sultan. Moor in his account of the observ sixing by him described hi

- Vide p. 8 of Paper (its History, Sources and Manufacture by H. A. Madox, London, Sir Issae Pitman and Sons, Led. 1933). In 1799 Nicolas Louis Robert invented a machine for making name; in lengths, of 12 to 15 matters.
  - 2. Ibid, p. 10.
- 3. A servative of the operations of Capains Little's Descharest and of the Marcelak Arma commanded by Paramen Rims, when the fact and clearly sin India separate Memority Types Sulten Radach by Edward Moor, Litestanest on the Bombay Extellishment, London, 1794—Capan, 1996—Fall). "The serious service in the neighbourhood of Bongalors, and repeate until the tream of the fair seaton enables them again to cooperate. Transactions of the Boow's starty, etc. between Ranagher and Chitaledroop, March of a party of Sick and Wounded to Hearry Hal by the foute of Baldroog, Happonnilly and Cookingackrops with some account of these places."

Harikar's s follows:—P. 110 "The name of this place is generally writen Hurry Hav sometimes Harse Har Ghav but from having beet so often, and so long a time here, we will venture to affirm our method of spelling it to be preferred: we have, we allow, heard it, by the inhabitants called Hurry Hur; but nine in ten, indeed all the intelligence people, authorise us in deviating from the common mode. As this fort and town is situated hard by a principal pass over the river, that by the trusty of pace is become the dividing boundary of the Mahvatta and Mysarsan smpires, it is likely to be a post of great importance to the latter as their northern frontier, and deserves therefore, particular notice, as well as of its future probable improvements, as of its present state.

Hurry Hal is most delightfully situated on the eastern bank of the Toombudns, which river in the rain washes the western wall of the fort, it is at present a pretty little fortification of no considerable strength against our operations but if garrisoned by our troops, capable of a good defence."

Moor then makes his observations on the trade and industries of Harihar as follows:—

"Hurry Hal in itself is a place of no great trade; they manufacture their common cloths but import the silk dresses and other finery or the ladies; grain is furnished by its lands in quantities more than sufficient for the inhabitants and in pseable times a little is sold, the only article they manufacture for sale, it paper, of which they send some but in no considerable quantity to other markets. The paper made here is of a very inferior kind but we apprehend they could make finer were in demand: the process' of making it is in the same style of simplicity in demand: the process' of making it is in the same style of simplicity.

<sup>1.</sup> Vide p. 860 of Indiac Companies by G. H. Klandekar, Poons, 1894.—"Haritar Town and Railway states instance of me right baset of the Tampshibarts river dame from Chindery. Population shore 5000. Haribar is a compound of Harif (Virgo) and Harifar is a compound of Harif (Virgo) and Harifar is a compound of Harif (Virgo) and Harifar is a section bed and goodess unused in one form to be organize a giast who was from Bahana the gift of prepetual file and used is for the terment of gods and ment. Harifar is an ascittut was, and has jidded and party inscriptions and then dating back to the 11th control; The chief temple now existing was second in 1223. Pen Offices.

Cf. the following inventions and improvements in the making of paper that took place in Durope in the 18th and 19th cceturies (vide pp. 13-14 of Maddox Poper):— Between λ.n. 1690-1730-Hollander or besting engine (invented by the Dutch).

A.D. 1774 - Discovery of chlorine by Scheele.

A.D. 1785 - Discovery of blesching action of Chlorine gas by Borthelot (Frenchman).

A.D. 1791 - Discovery of blesching action of Soda ash by Leblane.

A.D. 1800 - Introduction of bleaching powder by Tennant of Glaugose.

A.D. 1807 - Merica Illig (German) introduced resin for sixing of paper pulp.

A.D. 1821 - Strainers used on the paper making machine,

A.D. 1840 - Wood-oulp introduced by G. Keller (German).

A.D. 1860 - Routledge discovered esparto grass as paper-making material.

that we before mentioned being so observable in eastern artists: a shallow well of eight feet diameter is sunk, we will say four feet and changemed: in the middle is inserted a block of hard wood: a heavy hammer or wooden beater is placed on the side of the well nearly equipoised so that a man standing on its centre by lifting either leg moves it up and down; its head falling on the wooden block, beats the materials of which the paper is made to a pulp; a second man remains in the well to keep the materials to be beaten in its proper place. Old cloths, old tents and such things are easiest to work, but when they cannot be procured, the bark of particular shrubs is substituted being first as well as cloths, well washed and soaked in water for several days. When sufficiently beaten, the pulp is mixed with a little quantity of water in chunamed reservoirs, into which the workmen dip their moulds and the mixture adhering to them when lifted out, instantly becomes paper: other persons remove it, and draw each sheet through a second piece of water, and hang it up to dry. A quantity of gum Arabic is dissolved in the water into which the beaten pulp is put; and that through which the paper is drawn is also a mucilage of that gum with a portion of alum dissolved in it. The moulds or forms of the workmen are made of thin shreds of bamboe. The tree from which the gum called gum Arabic exudes grows in abundance in every part of the upper country between Seringapatam and Poona: it was known to us by the name of babool tree."1

<sup>1.</sup> I note here some dates of the inventions associated with the evolution of papermaking and allied matters as recorded by Maddox in his book on paper :-

A.D. 795- Paner mills extablished at Raedad, p. 4.

A.D. 11th century- Moors introduced paper into Europe- Tolede (Spain) received the art first. Then it spread to Italy, France and Netherlands.

Retween a. n. 13th and 14th centuries - Art of water-merking invented in Italy. This factor greatly added to popularity and interest in paper. It also sided accuracy of historical research in succeeding ages.

A.D. 1336 - First paper mill erected in Germany (p. 5),

A.D. 1496- Mention of earliest paper mill in England in the Colophon of a work

printed at Westminster (p. 6), g. A.D. 1498- John Tate (the younger) erected a paper mill at Stevanage (Hertford)-

Tate's papers were watermarked with a five pointed star. c. A.D. 1548- Attempt of Remy (a foreigner) to introduce paper-making in Cam-

A.D. 1588- Spielman erected a Mill at Dartford in Kent with a ten years' licence

from Queen Elizabeth. This mill produced coarse paper, not white, c. A.D. 1641- Patent for the invention and manufacture of white poper granted to

four Englishmen (p. 7). A.D. 1665- First British estent to Hildesard for the manufacture of blue suggestator from A.D. 1678; paper-making firmly established in England.

A.D. 1685- Influx of Huguenot refugees (highly skilled paper.makers) into England-John Briscoe took out an English patent for the true art for making as good babes as French or Dutch.

The foregoing description of paper-manufacture at Haribat by a cholar-soldier about a D. 1700, though late, has great importance for the regional history of indigenous paper manufacture in India between c. An. 1000 and An. 1850 or so. The method of preparing paper as current at Haribat 150 years ago was simple enough and took no count of the stamping mill invented in Europei na D. 115 and the Hollander for beating engine) in ented by the Dutch between A.D. 1690 and 1720. The hollander gradually superseded the stamping mill as it had teapseting to reduce the toughest material to a state of pulp in a few hours.

Side by side with historical descriptions of regional paper-manufacture in India it is worth while undertaking a chemical and micros. copic study of the material used for the numerous dated MSS 2 (written on paper). Such a study may furnish definite tests regarding the materials used for paper-manufacture in different parts of India at definite dates recorded in these MSS. These tests are also likely to be useful for determining the dates of undated MSS in the manner of the water-marks introduced into European paper manufacture after the 13th century. The value of these water-marks for determining the age of a naner manuscript or document has been now recognised by historical research students of Europe. Unfortunately the paper MSS in India. with the exception of those written very late in the 18th or 19th centuries on foreign naner, contain no water-marks. We must, therefore, devise some tests on the strength of dated MSS before us, which can enable us to determine the age of undated MSS manufactured at a particular paper centre at a particular period of history.

- A.D. 1740— Whatman of Maidstone (Kent) built a mill for manufacturing high quality papers. If hotman learnt the art in Holland. William Balstone succeeded him 1793.
- A.D. 1690 First American paper mill commenced at Foxborough (Philadelphia) by William Ristenhouse (p. 8).
- The foregoing chronology will give the reader a clear idea regarding the progress of the art of paper-making in Europe prior to A.D. 1790 when Capt. Edward Moor saw paper manufacture at Hawker in the Mahratta country and described it in his book published in London in A.D. 1794.
- Vide p. 13 of Paper by Maddox.— "The hollander consisted of an oval-shaped wooden trough with a cirisica surping length-ups along the centre. At one side was fixed a wooden revolving cylinder fitted with steel knives which worked against a bed plate also combining knives."
- 2. There are hondreaded dand pager MSS in different libraries in India and control. The copying that some of them MS recent at time the places where there applies were made but there place cannen give us a claus to the control of paper, manufacture then current, in pager any places far when the page to different one careful to many places far away from the place of his manufacture. It is, therefore, our business to may then the page of each pager centry exquality and dicher by provincial and other partees and that we far controls a low breefs of the learned men and governments of the learned men and governments and that we far controls a low breefs of the learned men and governments and that we far controls a low breefs of the learned men and governments.

Baber, in his memoirs, states that the best paper in the world in his time came from Samarkand. The paper used for state records during his reign may possibly have been imported from Samarkand. With the expansion and growth of the Mughal Empire during the reigns of Humayun and Akbar indigenous paper manufacture may have been started to meet the growing demands of the state departments. Though Akbar "had not taken the trouble to read" he was a great lover of books like his ancestors. All the books collected by him were manuscripts as he cared nothing for printed volumes and got rid of the choice specimens presented to him by the first Jesuit mission. In October 1605 an inventory of his books preserved in the fort of Agra was taken and it showed 24,000 volumes "adorned with extremely valuable bindings valued at Rs. 6.463.731." In this account of the imperial library given by Vincent Smith no mention is made of the paper used for the volumes in this library but we have reason to believe that some of these volumes may have been written on indigenous paper. The record office of organised by Akhar and a relic of which exists in the form of the record-room at Fathpoor-sikri may have contained many records on indigenous paper, an exhaustive history of which needs to be investigated and recorded by some Persian scholars, if such a work has not already been done. What concerns me in the present study is the history of the centres of paper-manufacture in India which produced during the last 600 years or so varieties of hand-made paper now represented by thousands of paper MSS in our MSS libraries.

These paper MSS old and young, musty or white, yellowish or bluish, thin or stout, rough or smooth, have preserved our ancient learning intact to the best of their strength and durability, which laughs at the pages of some of our printed volumes which have grown brittle at an early age of 50 to 60 years, while their ancestors are still strong and stout even after the lapse of 600 years. We await a categorical and convincing reely to this ouestion from all concernal

<sup>1.</sup> Vide p. 424 of Akbar the Great Maghal (1542-1605) by V. A. Smith, Oxford, 1917.

Cf. the Vijayanagar practice of inscribing every thing of permanent public interest on stones and copper-plates. The person in charge of inscriptions was called Sdiandedrya and the actual engraver was called the Silpi or the Sculptor (p. 273 of Vol. 1 of Saletore's Vijayanagar Ranjer 1934).

## 4. THE REGIONAL HISTORY OF INDIAN PAPER INDUSTRY

( Paper-manufacture at Behar and Arwal in A.D. 1811-1812 as described by Francis Buchanan )\*

As a result of, my recent studies i in Indian Paleography I have been led to study the history of different centres of Indian paper industry, which is responsible for the large number of paper MSS that has survived the ravages of time and vandalism<sup>3</sup> since the introduction of paper into India c. a.b. 1000. As the history of these centres of nidigenous paper manufacture is shrouded in obscurity. I have thought it advisable to put on record whatever facts I can gather about this hatory during the course of my other studies. Accordingly I published a contemporary account<sup>3</sup> of the Paper-Manufacture at Harihar on Da. 1790. In the present paper is shall record a more detailed history of paper-manufacture at different centres in Behar as recorded in An. 1811-12 by Pancis Buchanas

In his Account of the Districts of Behar and Patna in A.D. 1811-1812
(Book V) Buchanan has recorded a minute account of the State of Arts and Commence of these districts. In Chap. II of Book V he speaks of Common Artists who live by making ink and depter as follows:—

- Bhdratiya Vidyd, Vol. VI, No. 6, pp. 126-30.
- 1. These studies are:-
  - "Migration of Paper from China to India" (vide pp. 205-222 of Papermaking. by K. B. Joshi, (Wardha C. P.) 1944.
  - "Saint Ramadasa's Discourse on the Writing and Preservation of MSS and its importance for the History of Indian Paleography", (New Indian Assignary, Vol. VII).
  - (3) "Use of cloth for Letter-writing at the Court of Harts (A.D. 606-647),
    Hirrygana Communication Volume).
- Vide pp. 315-316 of Bernier's Trees's (Constable, London, 1891). Bernier's patron Denishmand Khin could not purchase a MS of the Vedas because "The Genţira indeed mocral them with much care, lost they should fall into the hands of the Mehs
  - medau, and be burnt, as frequently has happened."

    1. Vide on \$7.95 of Shirestive Vided, Bombay, 1944, Vol. V.
- 4. Paras-Cope Report by F. Bachanas, Vel. II, published by the Biber and Oriss Reservice Society, Plans. In 1807 the Director of the East India Co. renumended to the Governor-General that a satisfical survey of Bongal should be carried out and the Dr., Francis Buchanas, who had alterady carried out to survey of Mysore should be appointed for this purpose. Buchanas scorelingly carried out the survey and submitted that the survey of Mysore should be appointed for this purpose. Buchanas scorelingly carried out the survey and submitted his reports to per discussion of the Governor-General.
- 5. Ibid, p. 689 Speaking of persons by whom commerce is conducted, Buchanan observes -
- "Paper in most small torus is sold by the Passel, or druggists, or by the Khichri, french the deal in Passis prode, but in Patha some shop-heapers (Kagasi) sell sorbling also except Mank leak for Angling accusate. Some of them parts (Kagasi) sell sorbling also except Mank leak for Angling accusate. Some of them parts (Kagasi) sell sorbling and have it amounted by the Mohambacker. Their Captianks are from 50 to 150 pts. Some of the Kayastha tribs have about the streets the books in the profuse language that are most omemoly read. Two Brithmens in Patha back classes made of Bassers"

Page 622 - Ink-manufacture.

"A few people live by making into which is kept both in a liquid and salid form. 95 N. W. of limested oil give 4 S. W. of lamp black collected by an earthen lamp. Take 4 S. W. of lamp black, 5 S. W. of gas of the Minness Indian State live surer, and who is an into mean with a wooder of force hours. Then infuse § S. W. of gall nutrin 10.0 Then rub again for 3 hours, then put the pot into the sun, until the gas the dries and add the trained infusion to the rubbed must be a sure of the sun and the sun and the sun and the superior of the sun and the superior of the sun and the sun. These do not spoil by keeping a considerable time."

Page 623 - "A considerable quantity of paper" is made at Behar and Arwal. It is whiter than that made at Ronggopur; but has all its other imperfections, and that of Behar especially is less durable, while the least damoness in the air occasions common ink to sink, so as to form almost illegible blots. It is only ink made of the cakes prepared as above mentioned, that can be used with such paper. At Behar the paper most commonly made is that called Dulturi, which is 19 x 174 inches a sheet, and is that used in common business, but other kinds of a large size, and rather superior quality are made, when commissioned. The material is old bags of the Crotolaria juncea. These are cut into small pieces, and, having been soaked in water, are beaten with the instrument called the Dhenki. The pulp is then put on a cloth strainer, washed with water, and dried on a rock. This substance is then put into a cistern with some ley of soda, and is trodden with the feet for some hours after which it is in the same manner washed and dried and these operations with the soda are in all performed six times. The bleached pulp is then put into a cistern with a large quantity of water and is diligently stirred with a stick for about three quarters of an hour, when it is wrought off into sheets as usual. The moist sheets are stuck on a smooth wall and dried. Having been rubbed with paste made of flour and water, they are then smoothed by placing them on a plank

I. A quire of paper was sent from Surest to Broach on 22rd December 1614 by [1166-140], by W. Poster, London, 1928. Possibly this paper was not of Indian mature.

<sup>2.</sup> Suits Hamedan of Mahlangtra (c. a.n. 1650) in his Lebhanzarisipana (Dándodin. Dalah II). Sainte II) récers to ink made them lamp Adad. Loing (c. 20.71) at Nahman Canderis (C. 20.71) a

The expense and profits of making seven reams are as follows :-

Forty-two ters (8¢ | 1b.) of old bags, 2 Rs.; 42 sers impure sold. 2 Rs.; 42 sers lims for making the ley 1 Rs.; labourers for beating with the Dhenki, 1 Re. 12 anns; a mos to stirabout the materials, 8 anns; pasting and moschling the paper with a stone. Sanns; flow and firewood for making the paste, 2 anns, 6 pice; drying the sheets, 4 anns; cutting the paper, 6 pice — Total 7 Ruper.

The guddi or ream consists of 10 quires (desthata) each containing 23 sheets, and sell by whole at 8 Rs. so that the maker has 1 R Rs. profit. He does nothing hut form the sheets, taking them as usual from the cisters on a frame, which retains the paper and allows the water to exage. He makes about one ream a day; and if he works the vater to exage. He makes about one ream a day; and if he works a 15 days in the year, he will earn about 80 Rs. a year; and in fact, there people are in easy circumstances. In the 30 houses at Behar are though the same and the s

At Arwal20 families keep an equal number of beaters (dheski) and the estimate, which I procured depends on the work performs when the process of these. On the opposite side of the Son river, however, in Shahabda are So beaters and the whole produce of these is sold as Arwal paper, which although made of the same materials is subiter and are guardle than that made at Beatr and is commonly used by Persian and the same of the same of the same of the same process of the same process of the same of the same process of the same of the

The total paper, therefore, made by 20 beaters will be worth 700 Rs. The following is the statement, that I procured, of the annual artograms attending each beater:—

To 2620 sers (46 S. W.) or about 3,069 lbs. of ald bags or, nets, which are still better, 57 Rs. 8 mnas; to rode 2,340 sers, or 2,762 lbs., 45 Rs.; to lime the samequantity, 30 Rs.; to flow for paste, 5 Rs.; to cloth for strainers, bastets, etc. 2 Rs.; to moulds, or framer, 1 Re. 3 annas; to ladoverer for beating, etc. 50 Rs.; to overling off the might 25 Rs.; to drying and smoothing, 7 Rs. 15 annas, 6 pice, to pasting 5 Rs.; to cutting and packing 15 R. - Total 256 Rs.; do mans, 6 pice.

The net profit, therefore, on each beater, besides paying every person for his labour is 73 Rs. 6 annas, 6 pice. The materials are divided into five equal shares, each capable of making one bale. Under the beater of the implement is a small cisters, the bottom of which is

stone. In this is at once nut the fifth part of the old bags or nets with a large quantity of water and it is beaten for six days, after which it is washed on a strainer. It is then beaten two days with a lev of soda. washed and dried. This beating with the lev of soda is done in all nine times, after each of which the pulp is washed and dried. In dry cold weather each subsequent beating occupies eight or ten days, in the hot season five or six days are sufficient. The paste when thoroughly bleached is formed into sheets as usual. All the sheets formed in one way are in the evening placed under a plank on which two or three men sit for about an hour to squeeze out the water. It is then stuck on a wall, and falls off next morning when dry. It is then pasted on one side and dried, and then it is pasted on the other side and dried. rubbed with a stone, and cut square. All the paper-makers here also are Muhammedans. 1 The Mohurahdars are persons, who smooth paper by rubbing it with polished glass, which obliterates entirely the marks of the frame, as is done by hot pressing, and gives the surface a glossy smoothness. This operation costs from eight to ten annas a ream, and the workmen must make very handsome wages.

Although many great idle fellows amuse themselves with papersites, the makers cannot live the whole year by this profession as few amuse themselves with this sport except in the cool season. The makers, therefore, retail tops for zhildren, which are made by the potters, and the apparatus used in smoking tobacco. Their kites trelanges for gradii are not sureprise to those of Punniva."

In Table 40, p. 767 Buchanan gives us a Liss of Artists in the city of Patna and the district of Behar. In this table—
engaged in paper-manufacture is as follows—

Division or Thanah	Paper-maker	Mohurradar	Guddi-maker
Patna City	3	13	14
Bakipur-Jaywar	5		
Behar	30		25
Jahanabad	2		
Daudnagar	4		
Arwal	20 .		•••
Gaya			17
Bar		•••	1
	_		
	Total 64	13	57

On pp. 311-312 of Vol. I of Pates-Gayd Report Buchanan records a list of Muhammedan tradeamen of 38 tribes. In this list we find Paper-seckers, 110 families.

The foregoing economic and industrial survey! by Francia Buchan of the polar-manufacture current in Behar and Patra in a.D. 1811-12 is, I believe, an ideal one for any history of regional paper-manufacture in India. Moor's description for the paper-manufacture at Harihar on the bank of Tungshhadra recorded by him on the banis of the notes made by him in the burry of the seige of Dharwari in Ao. 1790 is not so scientific as Buchanan's account recorded above. If we can discount of the paper-manufacture centre in other parts of India, either early or late, they would facilitate our reconstruction of the history of these centres no documentary evidence.

When Buchanan recorded his account of the paper-manufacture in Behar and Pata in An. 1811-1812 many inventions and improvements in the making of paper had already taken place in Europe e.g. the discovery of Chairma year by Berthelot (An. 1785), the discovery of the blesching action of Chairma gar by Berthelot (An. 1785), the discovery of the blesching action of Seada as by Lebhane (An. 1790), the introduction of Manking posside by Tennant of Glasgow (An. 1800) and the introduction of resize for using of paper-paph (An. 1807). It is possible to time of resize for using of paper-paph (An. 1807). It is possible to and improvement in Paper-making current in Europe prior to his wish to Behry and Park.

In connection with Buchanan's account of the paper-manufacture of the Behar and Arwali a. D. 1811-1812. I have to invite the attention of at Behar and Arwali a. D. 1811-1812. I have to invite the attention to the reader to a very interesting paper by Mr. A. F. M. Abdul Ali, on the Daphne Paper of Negal, published in the B. C. Low Volume, Part 1 (pages 377-391). I note below some points from this paper which acquains the reader with the history of Negal paper-industry as recorded by Mr. Ali -

 Paper-making in Nepal had attained a high degree of technical excellence at a remarkably early age.

Vide p. iii of Intro. to Vol. I of Buchanan's Report (Patna-Gaya). Buchanan carried out to the letter the instructions of the Governor-General regarding this survey. His report on fine arts. common arts and manufactures is made according to the following instructions:—

<sup>&</sup>quot;VII—The progress made by the natives in the fac set, in the common cere, such sets of the sender-turn; you will describe their architecture, replicate, and impairs and impairs in the different processes and machinery used by their workmen, and proposes as exceed to the real-mode and amount of good moundestured in each processe as exceed to the real-mode and amount of good moundestured in each country to produce the rare material tred in them. It is a surround the ability of the country to produce the rare material tred in them, and we according to the country to produce the rare material tred in them, and and will be a substance of the country to the product of the country to produce the rare material tred and mark the desiration or discontinuous control of the substance. Should it appear to you that two years of the country to the product of the country to the c

- (2) When Europe was trying to find out the secrets of cheap paper to meet the growing demand for it among civilised nations, Nepal was transforming wood-pulp into paper and flooding the Gangetic valley with very cheap writing material.
- (3) The theory that the art of paper-making was brought to India by the Mughals is not acceptable.
- '(4) It will be difficult to prove any direct connection between the Nepal paper and the Mughal Court.
- (5) There is little affinity between the process of Nepal papermaking and those followed in Kashmir and the Punjab where imperial patronage bore fruit.
  - (6) It was from China that paper made its way into Nepal.
- (7) The paper-industry of China entered Nepal between 7th and 9th centuries when Chinese influences impressed themselves deeply on Nepalese culture and civilization.
- (8) Nepal paper once commanded a very extensive market. It was exported southwards to Hindusthan and northwards to Skya-gumba, Digarchi and other places in Tremountane Bhote. It was used all over Kumayun and was sold at Patan, Kesasrish, Sarun, Janikpur, Darbhangs, in Tirhoot, Poorneah, Gevindgunge, Alligunge in Sarun, Nichoul and Lorun in Gorungbur, Toolsipur, Bularampur, and Tandah in Oude. This was the condition of Nepal paper-industry as ecorded by Mr. Hodgeon, who resided in Nepal at the limin 1879 and also by Dr. Campbell; who resided in Nepal at the limin 1870 and so by Dr. Campbell; who resided in Nepal at the limin 1870 and so by Dr. Campbell; who resided in Nepal at the limin 1870 and so by Dr. Campbell; who resided in Nepal at the limin 1870 and the Nepal at the limin the Nepal at the limin the Nepal at the Nepa
- (9) In 1831 (8th December) Mr. B. H. Hodgson, the then resident at Khatmandu sent specimens of Nepal paper to Mr. H. T. Prinsep, Secretary to the Governor-General for presentation to Lord William Rentinck. Hodgson recommended that Nepal paper should be used for office records in place of the common paper of Hindustan. Dr. Campbell, the Asst. Resident fully endorsed the opinion of Hodgson.
- (10) Lord Auckland made an inquiry about Nepal paper in 1837. In 1841 British Government opened a factory at Darjeeling with Dr.

<sup>1.</sup> Buchanan refers to the Nepal paper imported into Bihar in A.D. 1811-1812 as follows:-

Pages 678-679 of Vol. II — Of Exports and Imports (Paina-Gaya Report).

<sup>&</sup>quot;A little of the paper comes from Nypai; the remainder comes mostly from Skahebad. It is sporred to the sest. The quantities both reported and imported are probably much undarrated, the whole manufature at dread on both sides of the Som being worth on the spot 28,000 R. When this is smoothed and fitted for the market, it will be at least worth 32,000 R, and probably 24,000 will be exported, 217 belonging to these districts and 517 to Shahebad on the second state of the second state

Campbell in charge of the work but it was closed on 16th April 1842 as it was found uneconomical to run it.

(11) Mr. Ali concludes his paper by observing: "that Government under apything but a fair trial of the scheme and its failure may reasonably be attributed to the lukewarmness of the high officials." He thinks, however, that vast field for the development of this nationalize apper-making industry is still lying in India with a view to make India dependent on none but herself for her writing material. I fully conforse these remarks of Mr. Ali as their force has been brought home to all writers and editors of literary works and newspapers in India in these days of secritive for paper consequent upon war conditions.

Like the history of the Daphne paper of Nepal the history of Indian paper centres, if reconstructed from reliable dats, will enlighten us as to how this paper industry originated, developed and finally declined, it will also impress upon the present day industrialists the necessity of sarting this industry at different centres in India again with the necessary improvements to suit the present conditions of labour and life in our villege which ought to be made economically self-aufficient and free from unemployment, which has threatment the very existence of will do so also in the east future when the war-time employment will case and our labourers will be through on their own resources.

## 5. SOME NOTES ON THE HISTORY OF INK-MANUFACTURE IN ANCIENT AND MEDITULE. INDIA AND OTHER COUNTRIES.

The Government MSS Library at the B. O. R. Institute, Ponna, contains many MSS written on Palen-leaf and Bheirpapter or birchbark. Some of these MSS are very old and written in indelible black ink. Every time they are seen by an inquisitive visitor, he puts a question: What is the composition of this is which has remained indelible for hundreds of years? I have met this question for the last 27 years and pointed out my fanger to Dr. Bühler's remarks on this subject as 1 had not carried out an independent inquiry about the history of the ink used for writing the your ancestors for more than 2,000 years on Palen-leaf and Bhéirjapatra or birch-hark. Dr. Binhler collected many Bhárja MSS in Kashmir and these are deposited in the Government MSS Library at the B. O. R. Institute 1 his Report' on these MSS has seeaks of Kashmir Ruhmans and Libraries of MSS (Section B.) 19-33.) About the side used for writing on Bairpaptars he observes:

Page 30.—'The presuration of ind which was use if or Bhūrja MSS is known. It was made by converting almonds into charconl and boiling the coal thus obtained with gomitra (urina bosis)." The ink thus obtained is not affected by damp or water and as the hirch-bark likewise stands water well. it is possible to improve dirty old MSS by washing them or by wetting at least particularly illegible portions. I have employed this method very frequently to make out doubtful passages. The Pandits regularly kept the MSS in water before selling them to me in order to improve their appearance."

The formula for ink recorded above by Dr. Bühler on the authority of a local Pandit's need not necessarily lead us to infer that it was in use during the last 2,000 years. We must, therefore, bunt up from

<sup>\*</sup> Pricyardal, Vol. III, No. 4, pp. 1-15.

Published as an Extra Number of the Journal of the Bonday Branch. Royal Asiatic Society, 1857. In Part I of this Report Biblet deals with his (a) Personal Narrative, (b) The Kashmirian Brahmans, and (c) Account of some Kashmirian MSS purchased.

<sup>2.</sup> Bubler states: "My authority for this recipe is P. Dayaram Jotai who was also particularly anxious about the rediscovery of the method of preparing the birch-bark

Pandit Darga Prasad Kachur of Jammu (Kashmir) who visited the B.O. R. Institute in April 1945; formed me that in Kashmir people use €14 in the preparation of ink along with other ingredients. 414 is the Back paor obtained by the burning of arity word, which is a kind of Köyar or aromatic pine.

historical sources of the datable variety some such recipes and see if they are identical with the recipe given to Bühler in 1875. Before I record such recipes I shall record below some observations on the antiquity of ink as a writing accessory in the history of human civilization in general and of India in particular. My friend Dr. S. M. Kariet in his Indian Testual Criticism' makes the following remarks about the history of ish and lebhad internment of writing?

Fags 9.—"Int seems to have been used for writing from very early times. It has been surmised by Mackay and others that the specimen of a theriomorphic jar found at Mohenjo Daro in the shape of a contant ram with a deep hollow in the back may have been an ink-well. Coming to more well-known times the statements of Nearchos and Q. Curtius make it very probable that risk was used in India already ding the fourth century 8.. The Kharophi Documents from Khotan prove its popularity at least in the first century A. D. With the delets specimen of writing with ink to far known is found on the relic-vase of the stips of Andher and is certainly as Aller than the second century 8.C. This is not far the stips of Andher and is certainly as Aller than the second century 9.C. This have later under closured sid a cteanisely in their MSS. Besides chalk, red lead or minium (hingula) was used as a substitute for ink, already in ancient times.

The general name of an "instrument of writing" is lekhanf, which includes the stillus, pencils, brushes, reed and wooden pens. A Riedy in the fourth century n.c. the professional writer is called lipitars or libikars: the sevents and aighth centuries n.D. the writer of Couments is called divinepait; since the elevants campy the professional writer is late offerered to as Kéyartha, although as a caste-anne it first occurs in the Kanasva inscription of A.D. 738-39. Other designations of the writers of inscriptions are Korasolka), or more rarely Karasia. Sásanika and dhormolekhin. Calligraphically Indian MSS are not significant."

The foregoing survey of the history of Pen and Ink in India is illuminating so far as it goes but it does not say anything about the recipe of ink used for writing by our forefathers say from n.c. 500 onwards if not earlier.

We can get a fair idea of the Ini-manufacture current in India at the time of the British advent from the following remarks of Francis Buchanan—(page 622 of Patna-Gaya Report, Vol. II, published by the Behar and Orissa Research Society):—

Published by the Karnstak Publishing House, Bombey 1941, with Appendix II by IK, Gode (pp. 98-128) on the History and Program of Cataloguing of Saushrit and other MSS in India and comitée (between 1800-1941).

Vide pp. 126-130 of Bharattys Vidyd, Bombsy, June 1945, Vol. VI, No. 6. My paper on the Paper manufacture at Biber and Arnal in 1811-1812, etc.

- A.D. 1811-12: Speaking of the state of Arts and Commerce in the Patna and Bihar districts. Buchanan observes:—
- "A few people live by making isk, which is kept both in a liquid and solid form. 95 S.W. of lissed ail give 4 S.W. of lamp-black collected by an earthen lamp. Take 4 S.W. of lamp-black 5 S.W. of gum of the Mimosa Indica, add a little user and rub in an iron mortar with a wooden pestle for 3 hours. Then infuse 4 S.W. of gallsust in 10 S.W. of water and add the strained infusion to the rubbed materials. Then rub again for 3 hours, then put the pot into the sun until the past dries sufficiently to admit of its being made into small lumps, which are dried in the sun. These do not spoil by keeping a considerable time."
- c. A.D. 1650: Saint Rämadāsa 1 of Mahārāṣṭra in his section called [kāhana-nirāpan (Disābahā, Daskata 19, Samāsa 1) atates that the ink to be used for writing on paper should be prepared from lamp-black. Round pieces of least of different colours as a low overnition should be kept in stock. Dried lac-tye should be obtained by careful selection and nices of rare roaded in its should be dried and text in stock.
- A.D. 671: When the Chinese traveller 1-taing visited India in the latter part of the seventh century with a desire to copy Sanskrit MSS for being taken to China he ordered some paper and caker of ink from China as stated by him in his Travels. At this time the Indian monks at the Nalanda monastery where 1-taing lived used to write on Rhūrja and palm-leaves but neither 1-taing no his predecessor Hissen-Triang\* has recorded any recipe of the ink used by Indians.

In the article on Ink ( काई) in the Marathi Encyclopaedia Jñānakola (by S. V. Ketkar), Vol. 20 ( का १५), 1926, we are informed as follows:—

- The use of ink for writing purposes began many years after the art of writing came into vogue.
- (2) It is difficult to say who invented ink and when.
- Originally in all places lamp-black (ছাৰত) was generally used for ink-manufacture with a mixture of the juice of mākā, gum (লাঁহ), and sugar (ছালছ).
- (4) Some important writings were recorded on palm-leaves and buried in the ground or kept in water and in this condition they lasted for centuries.

Vide pp. 126-128 of New Indian Antiquery, Vol. VII (1945) — my paper on "Saint Ramadas's Discourse on the Writing and Preservation of MSS and its Importance for the History of Indian Palacography."

<sup>2.</sup> Vide p. xxiv of Intro. to Lesing's Record (671-695) translated by J. Takakusu, Oxford, 1896 - see also p. 210 of Paper Making (by K. B. Joshi, 1944), my paper on Migration of Paper from China to India (a.D. 105-1500) - Appendix E.

<sup>3.</sup> Vide p. 146 of Life of Hisen Triang, Trubner, 1911,

The above information cannot be verified as the sources from which it is culled are not mentioned in the article.

- In the article on Ink in the Encyclopaedia Britannica (14th edition, Vol. 20, pp. 360-2) no history of Ink<sup>1</sup> is recorded.
- A.D. 1290: The Mahārāṣṭra Saint Jāāneśvara in his Jāāneśvarī completed in a.D. 1290 mentions मनी (mast) or ink in the following

## "मग काउटा काणि प्रसी। स विके विकास केरी।"

In a Sanskrit Buddhist text called the Kāranḍa-vyūha (Calcutte edition, p. 69) reference is made to चूर्व (birch-bark), कस्य (pen) and महि (ink) in the following extract:—

"वदि समस्य! विकल्पानाचारि सूत्रीक्ष संविधते, न स्रस्ति, न व क्ष्मं। स्विधन कोणिनेत्र स्रस्ति कुवांवर्गस्याक्ष सूत्री कुवांवरित्र संस्ता व क्ष्ममं कृतिकारि समावद् सम माक्षि केदं वारीरस्य। स व से सातापितृपूती महेत् पुक्रमावित पुत्रक।"

This is one of the earliest references to the writing accessories but we are not in a position to infer the composition of the मिस or ink referred to in this passage.

A.D. 1130: Someśwara, the Cālukya king, in his encyclopaedic king, viz. Mānasollāsa or Abbilasitārtha-Cīntāmaņi, deals with materials for painting in which we find Haritāla (yellow orpiment) for the vellow Colour and Kaijala (soot or lamp-black) for the black-

I note the remarks on (I) Chiese Ink, and (2) Membing Ink from this stride;—
(I) Chiese Ink — Chies Ink or Indian Ink is the form in which ink was
earliest prepared and in which it is still used in Chies and Japan for vai,
ing with small brushes instead of pens. It consists casestially of IsapMadd in very fine conditions based to with a stationus webstance.

<sup>(2)</sup> Marking Ink — Many prestable juice, e.g. Corioria thymifolia, Semecarpus anacardium, Anacardium occidentale (Cashem), are inks of this type,

Vide page 15 of Vol. II of Mdusselläte, edited by G. K. Shrigondekar, G. O. Series, Baroda, 1939.

<sup>3.</sup> Ibid, Intro. p. 7 - Materials for Painting as summarised by the editor are as follows:--

<sup>&</sup>quot;The subset new deals with painters and painting, as also with the methods of preparing Variaging (educamatic result), painting broades, pure and mixed colours, in his opaints there are only four Suddles or original colours, white, red, yellow and deals and he recommends the use of Suddles (concil) power for white colour. He distinguishes three hinds of red colour and recommends Durada (red lead) for excellent theorem, dataset for all policy and colours and recommends the suddless of red colours and recommends. Durada (red lead) for data red, distinguishes three hinds of red colours, and distinguishes three hinds of red colours, and distinguishes three hinds of red colours. While dealing with the Milinearment he recommends gold by no used in showing the handles consensate.

colour. The use of lamp-black as an essential ingredient of ink is observed in all recipes for ink current in some parts of India not only in historic times but even today. The use of Hanitala (yellow orpiment is very common in all old MSS for correction of letters or deletion of long passages.

c. A.D. 1659: During the Mughal and Maratha periods of Indian history there was a wide-spread use of paper for State records and as a result of the Muslim contact many Persian and Arabic terms had become current with reference to the art and profession of writing. Accordingly, in the small lexicon Rhipmyseakhrabelar composed by Raghuntiah Pandia by the order of Shivight the Creat about a.D. 150, verse 216-226 (Proons edition of Rhij, Koda, 1880) deal with "Beardy" time in Sandari. The following weree 216-218 (refer to www.form. and wife (ink) as also wiferer (ink-analy) with its foreign equivalents worst of the control of the co

" रहतः केलााका स्वाद व्यूतवर्दारत्तु केलकः। त्रविविद्या केलकः स्वाद वाहेदी हलकः स्वहः॥ २१६ ॥ रूपतवालो " विकारा स्वरी वाद्या क्रितिता। मरेष्ठेचनपात्रं तु कह्मसूराताविद्यानकम् ॥ २१० ॥ केलवी तु कह्मद् द्वीदिवेरीयान्यय द्वीदिती—। ग्रोकेरीतिनवात्रः श्रीकरात्रियानवात्रकम् ॥ २१८ ॥ "

The above extract clearly shows that the ink-maker (winter or uguers) was a recognized person at the royal court in the seventeenth century on account of the great demand for ink which he must have met. The State record department (wgwn) consumed large quantities of writing accessories such as paper, ink and pers and there aprung into being a class of persons who met these wants. An economic history of the trade in writing accessories during different periods of Indian history is worth investigation and recording.

" पीतेषु इरितालं स्यात् कृश्वे स्व्यलमिध्यते । शहा वर्णा इते प्रोत्ताकारकित्रसंध्रवा: ॥ १५६ ॥ "

On p. 13, the artists and their qualifications are mentioned. They ought to be प्राहस, मारफ, तम्ह, सुद्रमरेखाविशास्त्र, विधिनवाणकुशन, पश्चिकवकाविष, वर्गपुरणदृष्ठ, and बीरणे कराभा

2. In the affection of Sales oppossable Middleparlies Birthnias (p. V. T. Bang. Denn. 1941) Inden op. 5. a family of the summen "tegenty" with "(fig. "Gara. Ibdirect this currants "tegenty" in identical with "expected "or register (i.e. the property of the typester o

<sup>1.</sup> Ibid. Text p. 15-

Another noteworthy point for our history of ink-manufacture in the above extract is the mention of two kinds of ink-thnds, 'viz. (I) with or with for writing documents, and (2) yighth or fith with for sals impressed on documents. This distinction clearly proves that there were in use two kinds of sick, one for writing and the other for staling purposes. Unfortunately, the extract does not record trecipes for these varieties of ink. Perhaps it may be possible to trace such recipes for these varieties of ink. Perhaps it may be possible to trace such recipes in the Maratha records or even in Mughal records of the earlier neriod.

The Sabdakalpadruma (Hitavadi ed., Calcutta), p. 981, records many words used in Sanskrit language about Ink (πiπ), such as—

- (1) मसिबनम्, पक्रभवम् (Trikandaleşa) ;
- (2) मेखा, काली, बज्जनम् , मनी (Sabdaratnāvalī) ;
- (3) रज़नी (Kalrasvāmin c. A.D. 1050);
- (4) মনিলান্দ্ৰ, মধ্যী (Hemacandra Abhidhānacintāmaņi, III, 148);
  মনি ভ ইন্যাইক্ষাৰ্থকাশ ( Rudra and Sabdaratnāpali ):
- (5) मासका सेसालिका (Sahdaratnāvali) (v.l. मालेका in some works);
- (6) मसिपार्न मस्यापारः (Sabdaratnāvali) :
- (7) मिसवानां मस्त्राचारः ( रांचा (invernacular), मिसमानाः, मेलान्यः, वर्णकृषकः, मेलानन्यः, मेलान्यु, मामवानम् — (Sabdaratnāvalī), मासवती (Hemacandra), मामवर्णका (Jatādhara):
- (8) मसिन सापेण्डकम् (Unādikoja);
- (9) मसियम्यः डेन्बरः (Tribandalesa) ;
- (10) बासेबस्) (बासे प्रक्षंत्र सूते उद्गिराति ) ;
- वस्याचारः (Hārēcali), क्षेत्रना इति केचित्:

Hemacandra (a.c. 1088-1172) refers to fak as follows in his lexicon আনিয়াব.
বিন্যামান (মুন্যমান—III) p. 198 of primed edition with a separate index Volume):—
" মুন্যমান মুন্যমান মুন্যমান মুন্যমান মুন্যমান মুন্যমান মুন্

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Hemscandrs comments —
" बांबपायत [ आम्मन् ] श्रंत मविधान प्रशंसायनम् ॥ ९ ॥
मवेः कर्षाव मांबक्यां ॥ २ ॥ "
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Televaprable (A.D. 1050) in his Insicon वृज्ञयुग्ता (edited by G. Opport, Madres, 1893, p. 138) refers to Ink as follows —

" मेलापन्दो महिन्दों मेलानु मालनानु च।" Pege 710 —

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''मेंकामणि = lok; मेलामन्द् = lok-bottle;
मेकाम्ब = lok; मधुप्रशं = lok-bottle,''
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 In a letter from Saint, dated 14th May 1616, the writer orders: a fair large standish (i.e. ink-sand)—see p. 61 (No. 287) of India Office Records Calondar, 1928,

<sup>1.</sup> Americala (Kitoda III, 10) mentions মুদ্রা (Ink) and the commentator Kilfravimin (c. a.p. 10<sup>4</sup>0) explains : " মুদ্রা স্থানা" (vide p. 346 of Americala, edited by H. D. Sharma and N. G. Sardessi, Poons, 1941).

- (12) मसिमणि: मस्याधार: (Śabdaratnāvalī):
- (13) मसिच्यंनम् रसगन्धा (Trikandalesa);
- (14) मसी काली (Naişadhacarita, 1X, 63 —
  '' त्वर्।स्वनियंश्मद्रसीक्प्रयामसीमयं सक्किप्रस्पमानिव।''
   शेकालिकावश्मत (Sabdacamheatt)
- (15) मसीजलम् मसी, कार्टा (Trikandalesa):
- (15) मसायान मसा, काटा (1 rikaṇasisia).

Those who are interested in the linguistic aspect of the word wall, its derivatives and synonyms may study all the usages recorded above. I am concerned in this paper with the recipes of after. The above usages do not refer to such recipes and hence are not useful for my present inquiry. They only depict the widespread use of aft or Infor writing purposes after about a.D. 500 as youched by the several lexicons quoted in the Sadukableadrums.

Mr. A. S. Gadre, Director of Archaeology, Baroda, has published A Note on Jaina MS Writing and Preservation. My friend Dr. H. Goetz, Curator, Baroda Museum, was kind enough to send me a copy of this note, which is "mainly based on the information received from Muni Punyavijayaji." In this note Mr. Gadre refers to Index and Calourz as follows:

#### 3. Inks and Colours.

"A look at the MSS would show that a variety of colours and inks have been used for the illustrations and the text. For writing the texts, golden, silver, black and red inks have been used. The use of the first two is accompanied by difficulties and is very costly. They were used in special MSS prepared for royal personages, ministers and very rich persons. Specimen copies were especially got written some years back here (c. 18, c. 19 and c. 20). The red ink is not very suitable to the eve and was therefore used only in writing and making important portions or the beginning or end of chapters. It was also used for drawing the border lines of folios, or for drawing geometrical designs. The most popular ink was of course the black. Formulas for the preparation of these inks are available in some Jaina texts. How fresh the old colours look even now can be realised by a look at some of the MSS. It may be here noted that any ink which contained lacquer. with or iron rust was not suitable for writing. A specimen of such a spoiled MS is kept here (see c. 15). Samples of these inks are kept for view in this exhibition (D2, D3, D4, D6). Reals or vermilion (D5) was used for painting vellow the wrong or unnecessary portions from the text. That was a sign of deletion."

These notes were prepared by Mr. Gadre for the benefit of visitors to the collection of some are MSS and some instruments and means of writing in his charge.

Prof. H. R. Kapadis in his elaborate article on Jain Manuscripts [pages 98-127 of Bombay University Journal—New Series, Vol. VII (Sept. 1938), Part 2] makes the following remarks about the various types of isk used for writing lains MSS:—

Pages 109-111 — Now a word about the preparation of various types of ink. To begin with, I may quote the following lines from Mitra's N.S.M. (Notices of Sans. MSS) Vol. 111, p. vi :—

"The isla used for writing paths is not two kinds: one fit for papers and the other for pelau-leaves. The former is made by mixing a concentration of resulted rice with leamp-blacks and then adding too is little sugar, and sometimes the juice of a plant called Keturi, (Writerian Standars). The labour of making this ink is great, for it requires several days' continuoud trituration in a mortar before the lamp-black can be thoroughly mixed with the rice infusion, and want of sufficient trituration causes the lamp-black to settle down in a paste, leaving the infusion on top unfit for writing with. Occasionally cacine pair solded to give a gloss to the ink...... Of late an infusion of the milital suproblem prepared in an iron for law and contained of the milital suproblem prepared in an iron for law and contained to the catture of apper, and Pernia MSS sometimes written with such in suffer much from the chemical action of the metallic salts.

The ink for the palm-leaf MS consists of the juice of the Kesurts mixed with a decoction of atta. It is highly esteemed, as it sinks into the substance of the leaf, and cannot be washed off. Both the inks are very lasting and being perfectly free from mineral substances and strong acids do not in any way injure the substance of the paper or leaf on which it is applied. They never fade and retain their gloss for centuries."

Muni Punyavijayaji, too, has pointed out some of the methods regarding the preparation of various kinds of ink. For instance he has quoted 4 methods of preparing ink meant for palm-leaf MSS; and they are based upon persas supposed to be about 300 years old. As is well

<sup>1.</sup> They are so under :-

<sup>&</sup>quot; सहस-ग्रा-पिक्का सामीर बोहनेव मीती व । समक्रक-नोन्तुता महति मणी तावश्यामास् ॥ कक्क ता (व)) इत कोने मुस्तिमा वारदस्य तेते व । तिक्कांकेन पिपत्रिया होता कृतिका । तत्त्रकेन कुणो पोत्रिक्तंत देश साहो हो। तेत्र विश्विद्या पता बच्च स्वर्गह दिवसुक्य ॥ कोरवर विश्विद्या पता वच्च स्वर्गह दिवसुक्य ॥ कोरवर विश्विद्या पता वेदि स्वर्गह कोरविस्म कञ्जलए ॥ सह वारकक्षां वाहे विद्य विश्व विश्व विश्व विश्व

known instead of writing on palm-leaves with reeds, etc. at times letters are scratched on them by an iron style with a pointed end or the like. In such cases, Punyavijayaji says that firstly soot is prepared by burning the Katalit (coconant-haves) or of almonds. Secondly, it is mized with oil, thirdly the surface of the leaves concerned is beameared with this mixture, and fourthly and lastly this surface is cleaned by means of some cloth so that the portions scratched out remain black, and the rest of the portion remains as it was.

As regards the preparation of ink to be used for paper MSS he has pointed out its methods referred to in the Hindi verses' one Sans. verse) quoted by him. This ink is suitable for the cloth MSS too. Furthermore, by quoting one Sanskrit verse' he has indicated one more method for the preparation of ink for cloth MSS. He has also pointed out methods of preparation of ink for cloth MSS. He has also pointed out methods of preparation gold ink, liker ink and not a disk, and has added that ajtagandha and yadyakardama (preparations of which are replained by him are utilized for writing mentrar, stantra and yantrar. It may be noted that if ink contains some sticky substance, there is a likelihood of folios or leaves getting stuck together especially in the damp weather. Instead of trying, methods pointed out in Lekhanakoli (in 115), "may be resorted to, if they are scientific.

चित्रमंदगुंब्हेर्स कायरार्द्ध व वीयकतमिरसं । मित्रम वि तोएण दर्द मर्द्द मार्त मनं मुसद् ॥ निर्यासाद चित्रमम्द्रमाद हियुपिती वीयक्तरतः कत्रमलं सञ्जातं तिकतिकतो (१) हुतबद्दे तीमातपे मर्दितम् । पात्रे सुद्धमरे तथासनमन्त्रीकारसंमाधिकः

सद्धरकातक मुक्तराज (सपुक् सम्पर्ग रसोऽयं मधा ॥'' विश्वमन्द = निम्ब (विश्वं कुछं मन्दयति, मह्नाति वा) ००० अष्टांगहृदयकोष by K. M. Vaidva. p. 352.

मृक्तराज = माका (Marathi).

मस्तातक = विन्दा (Marathi) Marking.aut. त्रिकसा = हिस्दा, बेहदा, वर्गवळा (the three myrobalana).

डासारस = Lac-dye, कासीस = Green vitriol, green sulphate of iron (Marethi दिशक्त).

1. These verses begin with " বিশ্বলা ছাজন," and end with "— নালুছিছি !" They cousin in all 14 lines taken from "Some work on medicine" as stated by Prof. Kapadis. The name of this work is not mentioned. Lines 3 and 4 of these lines read as follows-

" मध्यथे क्षिप सर्गुन्दं गुज्दाथे बोलमेर च । जासारायारक्षेत्रीक्ष्येयेत् तासमाउने ॥ "

2. This verse reads as follows :-" बोलस्य द्विगुणो गुन्दो गुन्दस्य द्विगुणा सवी ।

मर्देवेद् यामयुग्धं तु मधी बक्तसमा मबेद् ॥ "

3. Seo Jaina Citra-Kalpadamao, Muni Punyavijayaji's article on '' मारतीय कैन असन संस्कृति सने केकनकता.'' Page 102 — Mr. C. D. Dalal makes the following remarks about ariting accessories referred to by Rājašekhara in his Kāvyamimāniaā inide p. zzzviii of Intro. — G. O. Series, Baroda, Vol. I, p. 50):—

"Rājāfekhara says that a poet must have always near him a bor, a bord eith chalk, leaves of the Tāḍī tree or barks of the Bhūrja tree with pens! and ink-pots, leaves of the Tāḍā tree with iron nails and eall\_rubbedplates."

Page 107 - Mitra in his Notices of Sanskrit MSS (Vol. III, p. vi)

"To mark the ends of chapters and for writing rubrics, colophone and important words on paper, an inis made of Cinnahar or alla is anothiness used..... In commentaries, the quotations from texts are generally sumared over with a little red other, which produce the same effect which red letters in European MSS were intended to subserve, and whence the term rubric port into currency...... in Burmah some sacred Pall works are written with a thick black varnish on palm-leaves throughout richly glit and wrought over with scrolls and other naments. Ordinarily Burness MSS have the edges of the leaves painted and sometimes with."

All the above extracts about ink and other writing accessories given by Prof. Kapadia are informative enough but they cannot prove the history of ink-manufacture as such as they do not record recipes of ink from dauble sources. The verses about the preparation of ink recorded by Muni Punyavijsyaji are comparatively modern being about 300 vars 1d4.

In the edition of the Lekhapaddhati edited by C. D. Dalal and G. K. Shrigondekar (G.O.S., Baroda, 1925), Appendix V (p. 95) records some recipes of ink ( पर्य) as follows:—

" सहदर-मृङ्ग त्रिफला कासीसं लोहमेव नीली व । सम्बन्धकालयुक्ता मनति स्वी तारपत्राणाम् ॥" <sup>3</sup>

1. I may note here the following popular Subbățiis about pen (लेखनी) ;— '' कुळानुस्ती न बार्जारी द्विजिहा न च सर्विणी ;

पंचमंत्री न पायाठी यो वानाति स पण्डित: ॥ २५ ॥ '' ( Vide p. 192 of कुमाबितरलमान्द्रागार, N. S. Prese, Bombay, 1911. )

 Vide p. 152 of क्षम्पनारोपनिवाद कांक्षे रावनिवाद, Assandáirama, Poone, 1896)— Hare siligra and दिलाल are mentioned as two restricties of ताल tree by धावनतारित्वाद.
 The siligra is described by the सावनिवाद, as "विद्यालयनो लेखाडी नवीलेह्यरता" and दिलाल के described as "दिक्किन्"

J. This verse is identical with the verse at the beginning of the extract quoted by Pumpavijayaji, viz. '' ক্ৰেন..... টোম্ব মুখা '' सहचरेति कांटासेहरिट । सृत्रेति आगुरट । जिच्छा प्रसिद्धे । काशीसप्रिति करीचं येत काहार्षि रमस्त्रे । कोरिसं (कोर्ड ) स्टोइक्क्यंस् । तीस्त्रित गुणेति गुणेतिस्यार्क्कस्यस्यः । सर्वे विना सर्वेपाप्रयोगानुस्कर क्वारः किवते । स व रमोऽपि समर्वार्तकप्रकृत्रोध्योगीस्ये निक्षित्यते । तस्त्राहणुप्रमणे मर्वतः ॥ इति ताहणुप्रमण्यानुष्टाः ॥

उमयोरिप मध्योमीहाराष्ट्रभाषया हेर्स्टीति प्रमिक्त्य (रंगणीवृक्तस्य वनस्रतिविद्योषस्य साक्तकस्य (साकतकस्य १) प्रकासस्य मध्ये प्रक्षेत्रे सतेजस्य (सव १) मक्षिकाऽभावादयो गुणा मवन्ति ॥

भन्द्रवपूष (१) रसेन प्रकृति क्षिपया सर्वाणि वज्ञाणि हाइन ॥ कोकाँठ ( बाहतकोवरि ?) सर्वाले । तदनलर्दा रिसाधधारियां तक्षश्रीका ( श ?) प्रत्यास चूर्ण सप्ये मुक्तका कम्यानेनाम्यु वृष्टि । पद्मारचूर्ण विना द्विज्ञाणि भत्तको ( ना ?) ति नीतार्व नीटार्य प्रहास्वते । तदनन्तरं विम्रालोजस्वा पदमान्ति ( ?) चीतांड च स्थानित ॥

> सांह बोछ अनह रुस्सारस काजलबज्जल अनह प्रस्वारस। मोजराज मिसि निपाइ पानउं फाटइ मिसि नवि जाई॥ बोलस्य हिंगुलो गुन्दो गुम्दस्य हिंगुला सवी। मर्देवेचामयुग्मं तु सवी बजसमा भवेत्॥ '

रीपणानि मपी।

मध्यभें [तु ] क्षिपेद्गुन्दं गुन्दाभें बोलमेव थ । लाक्षाबीवरसेनोधकैर्मदेवेसासमाजने ॥ ¹

कायक टॉक 10 गुँद टॉक ५ बोल टॉक २ दूर्व कोरवमेव कम्यकं तालमायने किण्या दर्व मधीत। तदनु गुन्दमिनिकायकेन विज्ञासकितिक कृष्यते, सलक्तकोतिका वर्तः व (इप्पते)। निम्ब-मधी गुन्द-विद्दार्श-व्यक्तगुन्देन वा दिनसतकं मधीत। मधी सर्वोत्तमा मधीत। म तु धव-गणेन, सर्वेया विनस्पति॥

मध्याम्नायः॥ ''

The editors of the Lekhapaddhati do not indicate the chronology and authorship of the above extracts, which cescribe: (1) तावप्यमणी i.e. ink for palm-leaf MSS, and (2) टीपणानी मणी i.e. ink for writing marginal notes on MSS.

From the recipes of ink from undated and late sources of anonymous authorship we now go to the Rasaratnákara of Nityanāthasiddha,

<sup>1.</sup> This verse has been quoted by Musi Punyavijayaji in his article on " ইপ্রস্থত্য" in the Jaina Citra-Kalpadruma.

<sup>2.</sup> According to Dr. P. C. Ray (History of Hisda Chemistry, Vol. I. (1992), Intro. p. 10) Richard (Englanguar, was contemporary of Roya Fason, who dided in A.D. 1254. equipment in work of monther (Reging in Reg. (see Aufrech's Case. Catalograws, I. 1939). According to Dr. Midderig (p. 17 of Journal of Ayrerodo, Calcatas, July 1935) Richard (Rig. is posterior to greenjuril), the commensator of the appareligity who dominished about no. 1100 (see Romain's Outsleage, 1970, p. 16). Fr. D. K. Shaarri savigar tentitative of quantity (Rig. 1922).

a work on alchemy or manufacture of medical preparations from metallic and non-metallic ingredients. In this work which may be assigned to the thirteenth century we find the following recipe of inthe for writing on polim-leaves and birch-bark:—

19th Upadeia, verses 79-80 — मरी

" विच्छा-संग्रहेरंट-सङ्खात-करवीरकम् । वीजाहसम्पर्केरेचे समोर्थः वोजकवरे ॥ ०९ ॥ क्रियवा सर्वे ताकरावे वंचातास्यायते स्वी ।

तास्पत्रेषु भूत्रेषु स्टिस्पते परमं ६६म् ॥ ८० ॥ ''

The above recipe is found in the MS of usromer dated Vikrami, Scatent 1632 e.m. 1579) in the possession of Rajavidray J. K. Shari, who used it for his edition under reference. If this date is correct we may easily conclude that it was in use prior A. D. 1576. This formula mentions the following materials to be used for preparing indelible into for writing on mewar and yet (wp.)—

- (1) From The three myrobalans, viz. :-
  - (i) इरीतकी (Chebulic myrobalan) Ink-nut ( Marathi हिस्सा ),
    - (ii) विभाव (Beberic myrobalan) ( Marathi बेहदा ).
- (iii) भारती = मामल्ड = Emblic myrobalan ( Marathi जीवळा ).
- 1. Vide p. 166 of the edition of সুন্ধিকুল লাহিকত of the হ্যানেলহ of (বাইনানুস) কিবলান্ত্রি, চুগ Rajarnidy Rusdit Jiwarum Kalidea Shatti, Gondal (Kathinner), 1940. In the বাইকত (pp. 6-7) নিহ্নায় refers to some previous হয়ভিত্ত or experts in

" आस्त्राव्यक्रियमे: सुप्तिनंतात्त्रः। तायाञ्जेने क्लापे: सुरान्त्रयं वर्णपः ॥ ६० ॥ द्रम्युण्यस् मान्यभ्यवंदिः सुरतेन्यः ॥ ६० ॥ द्रमाने तात्रपृति स्र स्टम्पानिमे हृदः। सामाने तात्रपृत्ति स्टम्पानिमे हृदः। सामाने तात्रपृत्ति सुन्तिमे स्टम्पानिमे विद्याः पृत्ति सुन्ति सुन्तिमे तात्रप्तियः सुन्तामाः ॥ ६५ ॥ द्रमाने स्टस्तिमे स्टम्पानिमाः ॥ ६५ ॥ स्वरित्ता स्टस्तिमे स्टम्पानिमाः ॥ १० ॥ ॥

Compare with this list of रश्वसिद्ध the long list of सद्वासिद्ध in हृदयोगमद्रीपिका (Advar addition).

 On p. 184 of the edition Rejavaidys J. K. Shastri states:—
 " प्रन्यस्थास्य लेखनस्थयः विकासंबद् १६६२ मिते वर्षे आधिनञ्जक्षनवस्थां विचानी शिक्षितोऽर्थ प्रयः"

This MS was obtained by Shestriji from Mr. Narayana Prabhakara Vinod of Beroda and preserved in the MSS collection of his Rasashala at Gondal.

- 3. Vide Monograph on figury by Ramesh Bedi, Labore 1944, p. 55.
  - " ओड़ हे डॉट-फरडी इरहड़े डीट-फर्सो (pile) से अच्छी स्वाही बताई जाती है."

We may compare the use of stdrsd for ink-manufacture in India about A.D. 1300 with similar use of sall-appler in Europe mentioned by Albertus Magnus in his book on plants while dealing with the Osk tree. Albertus flourished between A.D. 1193 and 1280. He was called the "Aristotle of the Middle Ares." 1

- (2) খাণ is possibly a corrupt form of सृष्ट = সূত্রবাস = Trailing eclipta or Eclipta olda = মালগ (Marathi). In the বাসনিমন্ত and the মালগন্ধা it is called জ্বাবাসন ( মুদ্রবাসন কামানি ক্রাছিল) ব স্থানা See p. 408 of জ্বাচানাক্র চি ৮ K. M. Vaidva. Trichur. 1936).
  - (3) कोरंट = कुरच्ट = yellow barberia ( Marathi पिंवळा कोरोटा ).
  - (4) भस्तात = भस्तात (Semecarpus Anacardium) Marking-nut (Marathi विस्ता). Cp. Punyavijayaji's quotation :—
    - " सब्दातकश्वकराजसम्बद्ध सम्बत्त रसोऽवं प्रची "
  - (5) ভংগাংক = ভংগাং (Nerium odorum) Oleander (Marathi ভলাং): "ধীরালম্পন্ দুইখান্ মনগে" — This may mean "equal quantities of the above (five) ingredients, each of the size of a mangoston."
  - (6) बोल = बोल (Marathi), a kind of gum (vide शब्दकीश by Date and Karve).
  - (?) ভ্যুম্ভ = Lamp-black (Marathi ভাষ্ট ).
  - (8) ताच्यात्र = Conner vessel or trav.

If the date of Nitvanatha Siddha, viz. thirteenth century A.D. as given by scholars like Pt. D. K. Shastri, is correct we may look upon the recipe for ink given by him as about 650 years old. This formula contains some of the main ingredients found in the recipes for ink (about 300 years old) quoted by Muni Punyavijavaji in his article on केसनकता in the जैन विश्वकरमध्य. Nitvanatha states that this recipe gives indelible ink for palm-leaves and Bhurja-leaves ( तालपत्रेषु मूर्जेषु किस्पते परमं रहम्). I believe this indelible character of the ink prepared according to this recipe is due mainly to the use of महलातड or marking-nut. Even now the washermen use the oil of the marking-nut for marking clothes of their customers before washing. Even by repeated washing the marks made with this oil are not washed out. In the article on Ink in the Encyclopaedia Britannica already referred to a similar use of Cashew (Anacardium occidentale) nut for preparing marking ink is mentioned. In this connection I made inquiries of some friends with a request to report to me the use of Attent or marking-nut for ink-manufacture now current in any part of India. One such report has just reached me from my learned friend Mr. A. S. P. Avvar, M.A., I.C.S.,

<sup>1.</sup> Vide p. 57 of History of Plant Sciences by Howard S. Reed.

<sup>2.</sup> I take this opportunity of recording my most grateful appreciation of Mr. Ayyer's interest in this and other subjects of my study.

District and Sessions Judge, Chittoor, who observes in his letter to me of 10th June 1946:—

"In our district of Malabar we have always been making ink (of a black and durable variety) by chopping off myrobalans and marking nuts in water in an iron succepan."

I hope that scholars from other parts of India will report to me sop practice of the above type in which marking-mark or wearms in used for ink-manufacture. The use of wears or wearms for medical purposes in mentioned in all medical texts, early or late, but so far as I am sware, I have failed to notice any mention of its use for marking purposes of for ink-manufacture in any Sanskrit text medical or non-medical. Evidently the use of warm in the ink for pulm-leaves and birch-bark MSS is responsible for the matter-proof writing on these leaves, to which reference is made by Bühler in his Kanhair Report. Covered to the state of the stat

My present study of the history of ink-manufacture in India raises the question about the recipes for ink used by the ancients in other lands. I havenot studied this question but shall record here some remarks about the Ink used by the Expytians for writing of papyrus:

 Speaking of ancient Egyptian civilization, H. A. Davies observes in his Outline of the History of the World (Oxford, 1937), pp. 18-20:—

 James Baikie in his Egyptian Papyri and Papyrus Hunting (London: Religious Tract Society, 1923), p. 21, makes the following remarks about Ink used by the ancient Egyptians:—

"The mervellous way in which the ink has preserved its colour invariably attracts attention, and shows that anything in the nature of adulteration must have been unknown." The black isk was made of lamp-black or postered chroreod, inside with vater, in which a small proportion of gum had been dissolved. With regard to the coloured inkn or paints, white was derived from lime-shifts, hlue from lapis—lazuli powder, green from sulphate of copper, red and yellow from miseral earths. The scribe was into habit of grinding his own colours on a stone-slab, which probably accounts for their good lesting quality. When they were ready he applied them to the paryrus by means to the standard of th

- The Holy Bible contains the following references to ink:— Old Testament:—
  - Jeremiah, 36: 18— "Then Baruch answered them, He pronounced all these words unto me with his mouth, and I wrote them with ink in the hook."

Chapter 36 refers to "roll of a hook" (2); "Scribe's Chamber" (12, 21): "leaves" of roll cut with pen-knife (23).

- (2) Ezekiel, 9: 2— "One man among them was clothed with linen, with a writer's ink-horn by his side."
  - (9:3)- "And he called to the man clothed with linen, which had the writer's ink-horn by his side."

#### New Testament .-

- (3) John (2nd Epistle) 12.—"Having many things to write unto you, I would not write with paper and ink, but I trust to come unto you and speak face to face that our joy may be full."
- (4) Corinthians (2nd Epistle of St. Paul to Cor.) Chap. 2:3.
  —"For as much as ye are manifestly declared to be the epistle of Christ ministered by us. written not with ink but with the spirit of the living God; not in the tables of stone, but in fleshy tables of the heart."

The above references to ink and ink-horn are interesting enough and important also, especially those in the Old Testament.

4. As regards the ink used by the Romans for their books I may quote the following extract from p. 587 of Smaller Classical Dictionary

 I am extremely thankful to Dr. P. M. Joshi, M.A., Ph D., Librarian, Bombay University Library, for sending me the extract about Isk from Buikie's book. (Supplement) edited by E. H. Blakeney, London, 1913 (Home University Library Series) :-

"Bods in Rome were generally written on pagyrus prepared for the purpose, narrow strips of which were glued together to form a roll, to be coiled round a stick. Next to pagyrur parchment (membrana) was used, and the sheets were made up like modern books. Ink made of lamp-black and yam was employed; and instead of a "pen", a reed cut like our auil!".

- 5. Prof. J. J. Rein of the University of Bonn in his monumental volume on the Industries of Japan (London, Hodder and Stoughton, MDCCCLXXXIX) gives us an account of the Japanese Paper Industry (pp. 189-149). In an Appendix [pp. 416-419) be deals with Japanese Writing Materials consisting of Brush, India Isk and Ink Disk. I note someopints from this valuable Anopendix:—
  - The necessary articles of a Chinese or Japanese escritoire are the brush. India ink. Ink-dish and water.
  - (2) The yatate is a portable writing case containing a holder for fluid India-ink and a brush in a copper case.
  - (3) The Sumi-ire is a handy shallow box for household use with compartments for the brush, the stick of India-ink and the dish. On an upper tray is a copper or silver vessel for water.
  - (4) The Fude or brush is prepared of the hair of the rabbit or deer.
  - (5) The use of the India-isk [Inp. Sum) dates back further than our arthing ink; in Eastern Aims it is at least as old as the use of paper, if not older, for it is believed that it was innemted in China about ac. 200-220. The province of Kieng-ii, and especially the city of Jeast-nas south-east of the lake Popung was celebrated for centuries for its excellent India-ink. It had the valuable property of becoming harder and blacker with increasing age..... The English name India-ink indicates the way by which it first came into Europe.
  - (6) Lamp-black and animal glue form the essential constituents of India-ink. Musk, camphor, etc. are used to hide the unpleasant odour of the glue but are not essential.
  - (7) Pine-soat (Susu) which was formerly used was superseded by lamp-black (Jap. yu-yen) obtained by burning any kind of fat or fatty oil.
  - 78) The Sudawri or India-ink dishes used by the Chinese or Japanese are made of a fine-grained dark stone, chiefly of old state, serpentine or coloured marble.

I hope the foregoing notes on the history of Ink-manufacture in ancient and mediaeval India together with some information about the Ink

used in ancient Egypt, Greece, Rome, Japan, China, etc. would be found useful to the students of this subject in India.

After this paper was drafted my friend Dr. P. M. Joshi, Librarian, Bombay University, was kind enough to lend out to me Anciest Expirion Material and Industries by A. Lucas. Lond on, 1934. In this scholarly book there is a section on Writing Materials (pp. 307-312) from which I note some intensiting information —

<sup>(1)</sup> In the section on Writing Materials Lucus deals with Pigments (Ink), Writinggrounds, Pens, Grinders, Palettes and Marking Ink.

<sup>(2)</sup> Pigments were generally red and black and occasionally of additional colours-(3) A palette, bearing the name of Mort-Aten, with five colours black, green,

white, red, yellow was found in the tomb of Tur-ankhamun.

(4) Lause found an Egyptian palette (about 8.C. 400) with colours made of char-

coal, red och e, gypsum, blue fritand yellow oxide of lead.

<sup>(5)</sup> The Rainer papers (9th to 13th century a.p.) were written with carbon ink and iron ink. The carbon used for making ink was seet in most cases.

<sup>(6)</sup> An old Arabic book in the Royal Library at Cairo (anonymous and undated) contains a recipe of Persian Ink prepared from date stenes kept over a fire in a sealed earthen vessel and ground down when cooled and then mixed up with your mobile and water.

<sup>(7)</sup> The use of carbon for Ink-manufacture dates back to about a.c. 3400 in Egypt.

(8) In the tomb of Tut-ankhamān some imitation cakes of pigment, of stone and slaus and imitation pens of slaus were found.

<sup>(9)</sup> Marking Ink - Egyptians had their linen garments marked with their names in Ink, one specimen of which was analyzed by Ainsworth and Mitchell. This Ink was proved to be organic material, free from carlon.

# 6. A BRIEF NOTE ON THE HISTORY AND PROGRESS OF CATALOGUING OF SANSKRIT AND OTHER MSS IN INDIA AND OUTSIDE

(BETWEEN A.D. 1800 & 1941) \*

But for the high regard entertained by our ancestors for manucripts since the act of writing came into vogue the transmission of the wide variety of thought that now permeates our life and culture would have been an impossibility. The oral communication of texts from generation to generation as in the case of the Receda must have been materially facilitated by the earliest attempt to put this magnum opus our Rysis in written chrareters, whether on the bini-parter, the tails—patre (palm-leaves) or any other medium then available to our forefather. The history of the writing of manuscripts in India before the Christian era is difficult to reconstruct but not so in the case of the writing of Manuscripts after the Christian era? as some MSS of this latter period belonging to the early centuries of the Christian era are available for such study. Amart from these MSS on Bhird etc., recently a MS.

Indian Textual Criticism by S. M. Katre, pp. 99-178.

<sup>1.</sup> Max Miller in his History of Anciert Stankels Librature (1859) divectors to lag. the T pages in the question of "History (ip. 25 to 12 to 9 Panis Office registion (Whitely (ip. 25 to 12 to 9) Panis Office registion of Max Miller's Afficer's). Dr. Baller, who di years later published by what on Jacking Palagraphys, in handed by Max Miller in the Perface for the index at the end of his History. Dr. Baller is mentioned here as "a poull of Professor Benfey", in the monthly mentative Tab Dume College) has given a summary of Baller's Jordan Palagraphys and the professor of English, Pages College) has given a summary of Baller's Jordan Palagraphys and the professor of English, Pages College) has given a summary of Baller's Jordan Palagraphys and the Palagraphys of English Pages College) has given a summary of Baller's John and District Control of English Pages College) has given a summary of Baller's John and District Control of English Pages College) has given a summary of Baller's John and District Control of Baller's John and District Contr

<sup>2.</sup> See pp. 2-3 supra and App. III below.

<sup>3.</sup> Vide n. 170 of Beron of Jed. St. of Judic (1955-27). While this paid MS was being proposed the Chinese serve using paper for their JMS Vide pp. 17-18. Will this paper of Their JMS Vide pp. 17-18. Will this paper on "The Development of the both in Chine" in which we find the Stery of the Chinese book is it developed stay by stee from the modes or banks trip to the sille to approximately proposed to the contract of the paper of the paper of the contract of the contract

B.C. 11th and 14th Centeries—Incised divination bones with inscriptions discovered in 1899 in Honen province show that books existed at this time (Shang dynasty). The pictograph for a "volume" appears on these bones and on early bronzes.

B.C. Ist Century - Thousands of inscribed slips found in the desert and of Chinese Tokatan.
 A.D. 96 - Seventy-eight wooden slips omeaning an inventory of weapons, discovered.

by Folke Bergmann of Sren Hedin's Expedition (abovt 10 years ago) in Centr 1 Asia. 1. 103 — 17 is Less, the invessor of popre offered his product to the throne. To an Yawa a scholar who died 37 years after paper was first made wrote to a friend as follows: "I send you the works of the Philosopher His in ten crolls—unable to afford a copy or silk. I am oblished to send row one one one or."

consisting of 20 leaves of gold with writing incised on one side of each leaf has been discovered in Burma during excavations at Hmawza by Mons. Charles Duroiselle. This MS is 6½" in length and about 1½" in breadth and contains short extracts from the Abhidhamma and Vinaya Piplahar. From the palaeographical point of view it is regarded as the most instructive find yet made in Burma. The characters of this MS are similar to those of the inscriptions incised round the lower and upper rims of a large silver xibps found at the place and of the same date viz. 6th or beatinging of the 7th century A.D.

These rare finds indicate the importance attached by the ancients to MSS and the sanctity with which they were cared for and preserved by them in spite of the political vicissitudes of the changing periods of history. In spite of all this care and sanctity and in spite of the wealth of MSS preserved in India and Greater India their neglect if not destruction was the order of the day during the early period of the Britishadvent' in India owing to several factors, which need not be discussed here.

We owe much to the European scholars in the matter of critical study of our MSS and the early history of Indology is closely connected with their lives and labours. The work of Sir William Jones, Max Müller, Colebrooke and a host of other scholars has laid the foundations of critical scholarship's in the field of Indology in general

Saint Rémadésa of Mohárfatra (seventeenth century) has got a special chapter in his magness open the Désabolha called the Irkkana-ni-page which constitue destined instructions re. the writing of MSS in Deranggard characters and their preservation. We propose to give an English rendering of it on a future occasion for the benefit of the students of fledian Palsographs.

2. The critical scholarship in the field of research in Indology is necessarily connected with he idea of collections MSS and printing their lists or cashegues. The origin and development of this idea is admirably dealt with by Dr. S. K. Belvulkar in his Forcerord wo Vs. I of the Dructipite Catalogue of the Costs. MSS Likeery (now withthe B. O. R. Institute, Posons), Bombay, 1916. We note here the early chronology of this costs in addressments:

c. A.D. 1774 to 1779 — Sir Robert Chambers, a friend of Sir William Jones and Burken do sometime President of the Asiatic Society of Bengal, collected a library of Indian books (vide Vernet as Wober's Casalogue of Berlin MSS, 1853). The unique collection of Sanskrit MSS was later purchased by the Prussian Government in 1842 and decosited in the Innertial Library of Berlin.

1789 - Sir William Iones published his English Translation of Sakurtalo.

\$3.c.R. 4

<sup>1.</sup> Edward Moor in his Nerrotics of Operations etc. against Tipoo Subsa (London, 1749) makes one murats about Canarese documents—"On public or important matters the Canarese, we believe, write on common paper, but their ordinary account and writings are flowed with white pencil on blesh spacer, or rather a cloth which is prepared standshing like our later super and the pencil is a flowil, very similar to the prepared standshing like our later super and the pencil is a flowil, very similar to them kept in a pengoda at Dorlifting but they were aboviously account books.

and of Sueskrit learning in particular. The history of this critical scholarship is now to well-known to every Indologist to be repeated in this short note, which will be confined to the history of Cataloguing' of MSS in India. We may, however, record here a fact not so well known to Indian Sanshritists that the first European to evince interest in Sanskrit was German Jesuit, who is referred to by Bernier in his Towards' in a letter dated the October 1657 and whose full name was Father Heinrich Roth. This scholar drew up "the first specimens of Sanskrit ever printed or engreed (as for a book) in Europe or indeed anywhere." These specimens will be found between folios 162 and 163 of China Illustrate of Athansatus Kricher. \*1... published at Amster-

<sup>1782 --</sup> Col. Mackenzie landed in India as cadet of Engineers on the Madras Establishment.

<sup>1796-1806 —</sup> Machemie was employed in their estigation of the Geography of the Deccan. He later became Surveyor General of India. He collected MSS, invergitions, plans, maps, and other settiquarian material. His collection was purchased by the East India Company for £10,000 and

<sup>1828 -</sup> Catalogue of Mackenzie Collections by H. H. Wilson, published,

<sup>1885 (19</sup>th May) — Pundit Redshakishan, the chief Pundit of the Labore Durbar deference a letter to the Victory and Governor-General of Ledis, in which he compliments the Government of India on the orders they had issued "for collecting the Chilogree of Seakhiri, Arabic and Persian books in existence in many parts of India" and upps the necessity of empiling a Catalogue "del 31 Seakhiri MSS in India and

<sup>1.</sup> Vide Paper Relating to the Collection and Procurection of the Record of Action Sealer Literature of India, by A. E. Couch, Calculta, 1873 — Mr. Stote, the Secretary of the Legislative Consoil form up a relation for collecting and Catalogopial MSS. This secretary of the Legislative Consoil form up a relative to the Collection of the Collection of the Co

wich Der, Nature Den a Jossie, a German by seint and Mindenery st. Ager sub the made great profitsing pints skaped Spannist." His fill of mann was Fabre Historica Both, 24. He was attached to the Gos Mission. He journeyed from Gos to Agra about 0.0. 1850-1860, and saided Sannist during these years. Both were back to Bome from Agra about a. 1865. He does up for Father Kircher five engraved plates published by Kircher is his filles influence oferended by Bomics (on p. 132). The first flow of in Latin; the Michael Spannist of the Spannist of the Spannist of the Spannist of the six in Latin; the Michael Spannist of the Latin's Prayer and an Are Maria in Stankist and Latin to serve as an enterior for beginners.

<sup>3.</sup> Vide p. 332 of Berniet's Travels, foot-notes 1-3.

<sup>4.</sup> Ibid., Kirober (hwr 1962 and died at Roma A. 1680) was one time Professor of Oriental Leannages at Wurtzburg.—For other curbos experiengs after Indian dressings, vide pp. 15s-162 of Chies Hiertria.—Aufrecht in his Cataleges Cataleges are to the MSS in the possession of Prof., Jolius Jolly at Wurzburg and at the Wurzburg University (vide C. C. III., p. 17).

dam by Janszon in A.D. 1667. Though the first specimens of Sanskrit were put in print as early as A.D. 1667 the first published Catalogue of Sanskrit MSS appeared in A.D. 1807\* i.e. 240 years after the appearance of Kircher's China Illustrata. The progress of Cataloguing of Sanskrit and other MSS in India and outside since A.D. 1807 will be apparent from the following table based on the list of Catalogues appended to the present note:—

			Pla	ce of Publication
A.D.	Author or Compiler.	Place of Deposit.		of Catalogue.
1807	Editor of Sir William	London		London
	Jones' Works			
1828	H. H. Wilson			Calcutta
1838		Fort St. William		Calcutta
1846	Otto Böhtlingk	St. Petersburg		St. Petersburg
1853	A. Weber	Berlin		Berlin
1857	William Taylor	Fort St. George		Madras
1859	Fitzedward Hall			Calcutta
1861	T. S. Condaswami Iyer	Fort St. George		Madras
1864	T. S. Condaswami Iyer	Benares		Benares
1864	Theodore Aufrecht	Oxford		Oxford
1865	R. Roth	Tübingen	•••	Tübingen
1868	R. Lawrence (hand	Khatmandoo		
	written list)			
1869	F. Kielhorn	Bombay Presidency	·	Bombay
		Southern Division	n	
1869	Th. Aufrecht	Cambridge		Cambridge
1870	James d'Alwis	Ceylon		
1870	A. C. Burnell		•••	London
1871	G. Bühler	Gujarat, Kathiawar	,	
		Kachch, Sindh,		
		Khandesh		
1871	Rajendralal Mitra	*****		Calcutta
1872	G. Bühler	Gujarat		Surat
1874	F. Kielhorn	Central Provinces		Nagpur
1874		North Western Prov	inces	Benares
1874	G. Bühler (1872-73)	*****		Bombay
1875	J. S. Nesfield	Oudh		
1875	G, Bühler (1874-1875)			(Girgaum),
				Bombay
1876	Georg Orterer	Dr. Martin Haug's		München
	-	Collections at Munc	hen	-

Vide pp. 401-415 of Vol. XIII Sir William Jones' Works, London, 1807, where a Catalogue of Sankiri and other Oriental MSS presented by Sir William and Lady Jones has been printed.

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1810-185   Gustav Oppert   Southern India   Madras				
1811-189   Parlit Dev Frasal   Oudh				
F. Kielhorn	1880-85	Budia Davi Berend		
1881         F. Kielbom (1877-81)				
M. Loon de Koros and     Paris				_
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1897 Prastd D Bombay
1898 Hara Prassas Bengal Calcutta 1898 G. Bühler Tamil MSS Tübingen Wien
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1900 Rajendralal Mitra Bengal Calcutta
1000 P Cordier (Hand-list) Bengal
1900 Haraprasad Shastri Report for 1895-1900
1901 Th. Aufrecht Leipzig Leipzig
1901-1939 S. Kuppuswami Shastri Madras Madras
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1901 A. V. Kathavate Bombay Presidency Bombay
1901 A. Kaleaton Paris
1902 Whish Collection (South India) London London
High Collection in Court Index Dollard

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	Author or Compiler.	Place of Deposit.	Place of Publication of Catalogue
A.D.	Jaio Sverämbara	(Jaina MSS in India	
1902			,
	M de Z. Wickrema	London	London
1902	-inghe		
	a all Bendall	London	London
1902	dralal Mitra	Bengal	Calcutta
1904	winternitz and	Oxford	Oxford
1905	A B Keith		_
	Hara Prasad Shastri	Nepal	Calcutta
1905	and C. Bendall		Calcutta
1906	Hara Prasad Shastri		Calcutta
1907	Rajendralal Mitra	Bengal	Paris
1907	A. Calcaton	Paris Rajputana and Cen	
1907	S. R. Bhandarkar	India	trai Bombay
1,00	(Jain MSS)	Calcutta	Calcutta
1908	Satiscandra Vidyā	Buddhist Works	Calcutta
1908	bhūşaņa		
	S. Vidyābhūşaņa	Tibet	Calcutta
1908	Th. Aufrecht	München	München
1909	P. Cordier	Paris	Paris
1909	M. A. Stein	Oxford	London
1912	A. Calcaton	Paris	Paris
1912	S. Kuppuswami Sastri	Madras	Madras
1913-1939	and others		
	P. Cordier	Paris	Paris
1915	A. F. R. Hoemle	East Turkestan	Oxford
1916	Professors of Sanskrit.	Poona	Poons
1916	Deccan College, Poons		
	Hara Prasad Sastri	Calcutta	Calcutta
1917	n Misself	Petrograd	Petrograd
1918	Suparava Das Gupta	Arrah	Arrah
1919	Govt. Sanakrit Library	Benares	Benares
1919	(1897-1919)		Demarco
	Telugu Academy	Cocanada	Cocanada
1920	R. A. Sastri (Kavindra-		Baroda
1921	K. A. Sastri (Kavindra-		Daroga
		Mysore	M
1922	Govt. Oriental Library		Mysore
1923	Gopinath Kaviraj	Jenares Jesalmere	Benares
1923	C. D. Dalal and	jeszimere	Baroda
	L. B. Gandhi		
1923	Haraprasad Sastri	Calcutta	Calcutta
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	(History & Geography)	t tate of Depoint.	o) Cuminger.
1924		Paria	Paris
1925-1930	G K. Shrigondekar and	Bombay	
1923	K. S. Ramawami Sastr		Baroda
1925			Calcutta
1925	Haraprasad Sastri	Calcutta	
	Harsprasad Sastri	Calcutta	Calcutta
1925 1926	B. O. R. Institute		Poona
1926	Hiralal		and Nagpur
		Berar .	
1926	Adyar Library		Adyar
1927	K. P. Jayaswal and		Patna
	Anant Prasad Shastr	i	
1928	P. P. S. Sastri	Tanjore	Tanjore
1928	Govt. Ori. Library	Mysore	Mysore
1928	Adyar Library	Adyar	Adyar
1929	(Marathi MSS)		Tanjore
1929	K. Sambasiva Sastri	Trivandrum	Trivandrum
1930	R. Fick	Göttingen	Berlin
1930	Hemacandra Goswami	Assam	Calcutta
1930	T. R. Gambier Parry	Oxford	London
1930-31	Otani Daigaku Library	Kvoto	Kyoto (Japan)
1931	Haraprasad Sastri	Calcutta	Calcutta
1931	Marcelle Lalou	. Paris	Paris
1932	Punjab University	Lahore	Lahore
1933-38	S. S. Deva	Dhulia	Dhulia
1933	K. P. Jayaswal	Mithila	Patna
1933	Sri Ailak Pannalal	. Jhalrapeten	Jhalrapatan
	Digambar Jain		
	Sarasvati Bhavan		
1934	Jean Filliozat	Paris	Paris
1935	Chintaharan Cakravari	i Calcutta	Calcutta
1935	H. R. Kapadia	. Poons	Poons
1935	A. B. Keith and	. London	Oxford
	F. W. Thomas		
1936	Oriental MSS Library	Ujjain	Ujjsin
1936	H. R. Kapadia	. Poona	Poons
1936	P. K. Gode		Poons
1957	M. A. Simear	. Philadelphia	Philadelphia
1937	P. K. Gode	. Poons	Poons
1937	L. B. Gandhi and	. Petten	Baroda
	C. D. Delai		

A.D.	Author or Compiler.		Place of Deposit.	Place of Publication of Catalogue.	
1938	H. I. Poleman		United States and Canada		New Haven
1938	S. K. Belvalkar		Poona		Poona
1939	H. D. Sharma		Poons		Poona
1940	P. K. Gode		Poons		Poona
1940	H. R. Kapadia		Poona		Poona

The above table shows at a glance the history and progress of Cataloguing of Sanskrit and other MSS whether deposited in India or outside. This history covers a period of about 135 years from A.D. 1807 to 1941. The listof catalogues published along with this note is by no means exhaustive as detailed information regarding all the published catalogues of MSS in any single source was not available. Secondly, these entriesare based on actual examination of only some of these cataloguesavailable at the B. O. R. Institute, Poona. Entries regarding catalogues not actually examined are taken from Aufrecht's Catalogue Catalogorum (3 Parts) and from the Provisional Fasciculus of the New Catalogus Catalogorum published by the University of Madras in 1937. Though the present list of catalogues is necessarily tentative it is sufficient to acquaint the reader with the history and progress of Cabloguing of Indian MSS carried out by European and Indian scholars. In spite of this progress which has brought home to the Indian scholars the importance of their undying national wealth the work of publishing Descriptive Catalogues of MSS has not received the attention it deserves. All research in Indology depends on these MSS and the earlier we exploit these decaying sources of our history and culture the better for the enrichment of our literature and history. It is strongly to be honed, therefore, that the present custodians of MSS collections in India, whether Provincial Governments, rulers of Indian States, learned bodies or public libraries will concentrate their resources and attention on the Cataloguing of their MSS in general and preparing their Descriptive Catalogues 1 in particular.

# CHRONOLOGICAL LIST OF CATALOGUES

100

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Descriptive Catalogue of Government Collections of Manuscripts (B. O. R. Institute, Poons), Vol. II, Part I (Grammar), by S. K. Belvalkar, M. A. Ph. D., 1938.

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Descriptive Catalogue of Government Collections of Manuscripts (B. O. R. Institute, Poona), Vol. XVI. Part I (Vaidyaka), by H. D. Sharma, M.A., Ph.D., 1939.

1940

Descriptive Catalo ue of Government Collections of Manuscripts (B. O. R. Institute, Poona) Vol. XIII, Part I (Kāvya), by P. K. Gode, M.A., D. Litt., 1940.

Descriptive Catalogue of the Government Collections of Manuscripts (B. O. R. Institute, Poona), Vol. XVII, Part III (Jain Literature and Philosophy), by H. R. Kapadia, M.A., 1940.

- P. K. Gode.

ADDENDA 69

#### ADDENDA

The following list has been drawn up since the preceding list was printed off :--

- A Printed Catalogue of 114 Sanskrit MSS in the private Library of the Maharaia, Tagore Castle, Calcutta.
- Descriptive Catalogue of the Sanskrit Manuscripts in the Tanjore Maharaja Sarfoji's Sarasvati Mahal Library, Tanjore, by P. P. S. Sastri, B.A. (Oxon.), M.A.—19 Vols., Vol. X1X is a mere list of names of works.
- Catalogue of Sanskrit Manuscripts collected by the Curator of the Department for the publication of Sanskrit Manuscripts, Trivandrum, by T. Ganapati Sastri, (7 parts).
- Lists of MSS collected by the Curator for the publication of Sanskrit MSS, Trivandrum, published as Appendices to the Annual Administration Reports of the Travancore State.
- Annual Reports of the Sri Ailak Pannalal Digambar Jain Sarasvati Bhavan Sukhānand Dharmasāla, Bombay (in 5 parts).
- Descriptive Catalogue of Sanskrit Manuscripts in the Government Oriental Library, Mysore. This is in the press.
- Descriptive Catalogue of Sanskrit Manuscripts in the Government Oriental MSS Library, Madras, Vols. XX-XXVII, by Prof. S. Kuppuswami Sastri, M. A.
- Descriptive Catalogue of Sanskrit Manuscripts in the Government Oriental MSS Library, Madras, Vols. XVI, XVII and XIX, by Prof. M. Rangacharya, M.A. and Prof. S. Kuppuswami Sastri, M.A.
- Descriptive Catalogue of Sanskrit Manuscripts in the Government Oriental MSS Library, Madras, Vols. 11-XV and XVIII, by Prof. M. Rangacharya, M.A.
- Descriptive Catalogue of Sanskrit Manuscripts in the Government Oriental MSS Library, Madras, Vol. I, Parts II and III, by Prof. M. Sheshagiri Sastri, M.A. and Prof. M. Rangacharya, M.A.
- Descriptive Catalogue of Sanskrit Manuscripts in the Government Oriental MSS Library, Madras, Vol. 1, Part 1, by Prof. M. Sheshagiri Shastri, M.A.
- A Catalogue of the Manuscripts in the Mandlik Library, Fergusson College, Poona.
- A List of Thirty Sanskrit MSS in Kāmarūpa. Journal of the Assam Research Society, Vol. 111, Part 4.

- A List of Buddbistic Logic Works, by Rev. Rähula Sänkṛtya. yana. Journal of the Bihar and Orissa Research Society, Vol. XXII. Part I.
- vol. XXII, Part I.

  15. A Supplementary Catalogue of Sanskrit Works in the Sarasvati
  Bhandaram Library of H. H. the Maharaja of Mysore signed
  by F. Kielhorn.
- A few original MSS now preserved in the University Library of Strassburg - Goldstücker.
- Die Sanskrit-Handschriften der Universitäts-Bibliothek zu Göttingen, Beschriehen von Prof. F. Keilhorn.
- 19. Alphabetical Lists of MSS in the Indian Institute, Oxford, by
- A. B. Keith,

  19. A List of Tibetan Buddhist Manuscripts, by Rev. Rāhula
  Sānkrtvāvana. Journal of the Bihar and Orissa Research
- Society, Vol. XXIII, Part I.

  20. A List of 69 MSS from the Private Collection of MSS with Pandit Dharmanath Sastri. Sanskrit Teacher, Government High
- School, Mangaldai Assam, published in an Assamese Daily.

  21. Liste der indischen Handschriften im Besitze des Prof. H. Jacobi (printed in ZDMG. Vol. 33, 693).
- Jacobi (printed in ZDMG, Vol. 33, 693).

  22. Ober eine Sammlung indischer Handschriften und Inschriften
- von E. Hultzsch (printed in ZDMG, Vol. 40, 1).

  23. Two Lists of Sanskrit MSS, by G. Bübler (printed in ZDMG,
- Vol. 42, 530).

  24. A Consolidated Catalogue of the Collections of Manuscripts deposited in the Deccan College (from 1868-1884) with an
- De Codicibus nonnullis Indiscis qui in Bibliotheca Universitatis Lundensis asservantur Scrifisit Hjamar Edgren, Lunds Uni. Aarakrift, Tom XIX (15 MSS).
- A Partial List of rare MSS belonging to the Adyar Library (60 works).
- List of Fifteen MSS in the Edinburgh University Library, by Prof. Eggeling.
- MSS in the possession of Prof. Julius Jolly at Wurzburg and at the Wurzburg University Library.
- 29. Tod MSS in the Royal Asiatic Society, London.

Index, by S. R. Bhandarkar.

## SOME EVIDENCE ABOUT THE LOCATION OF THE MANUSCRIPT LIBRARY OF KAVINDRACARYA SAPASVATI AT BENAPES IN A D. 1665.

In 1941 I published my paper on "Bernier and Kavindrācārya Sarasvati at the Mughal Court" in which I tried to prove that the Chief of Renares Pandite with whom Remier came into intimate contact for about three years after the execution of Dara Shukoh in a n 1659 was identical with the celebrated Kavindrācārva Sarasvatī, who was responsible for persuading Shah lahan to abolish the pilgrim tax at Benares and Prayag and who, as a consequence of this achievement. received laudatory addresses in Sanskrit and Hindi from the Sanskrit and Hindi Poets and Pandits of his time. Though the weight of evidence gathered by me for proving the above identity was too heavy to be brushed aside. I could not then produce direct and independent evidence in support of this identity. Fortunately for this identity Dr. Tara Chand of the Allahabad University has now brought forth independent confirmatory evidence and I have great pleasure in recording it here for the information of Sanskritists who have been enchanted by the remarkable personality of Kavindrācārya Sarasyati, since Dr. Ganganath Iha published the Catalogue of Kavindra's library called the Kapindrācārva Sūcipatra in the Gaikwad Oriental Series No. XVII in 1921

Dr. Tara Chand in his recent article on Rafi-ul-Khilaf of Sitaram Kayastha Saksena of Lucknow states that this work is written by its author on the lines of Dara Shukoh's Majma-ul-bahrin explaining that

<sup>·</sup> Edition of Jagadvijaya-Cchandas, (Bikaner, 1945) by C. K. Reja, pp. XLVII ff.

<sup>1.</sup> Vide Journal of the S. V. Ori, In:titute, Tiropati, Vol. I. Part 4, pp. 1-16.
2. Kayindra Candrodaya ed by M. M. Patker and H. D. Sharma, Poppa Oriental

Series No. 60, 1941.
3. Kavindracandrika (Bikaner MS); copy kindly supplied to me by Dr. Dasha-

ratha Sharma.

4. Kavindrācārva Sarasvati is different from another Hindi writer Kavindra

<sup>(</sup>born about a.D. 15/8) author of বিশ্বস্থাইব, বিজাইবাদিকা, ঝানহালা, His literary career bolongs to the period a.D. 1719-1746. His name was বইবলাথ but he was known as ক্যান্ত (see p. 211 of মন্ত্ৰুপাল বাবিস্কাল by Pt. Chitrao Shastri, Poona, 1937).

<sup>5.</sup> Vide pp. 7-12 of Journal of Ganganatha Jha Institute, Vol. II. Part I (November 1944).

Nide my article in B. I. S. Mandel Quarterly, Vol. 24, pp. 75-78, "Samudra Sangama, a Philosophical work of Data Shaksh, son of Shah Jahan composed in A.D. 1855." Samudra-Sangama is a Samhiri sagration of Data's Majene-il-labria. The MS of Samudra-Sangama at the B. O. R. Institute, Poona (Govt. Mas Library) No. 104 of 1919-56 is dated a.D. 1788.

the differences between the religious beliefs of Hindus and Mullim are superficial and based on lack of understanding, for in reality all paths seek God. Sitzram further states that Dara's Majma-al-abstine was so short that many difficulties remained unexplained and hence be undertook to compose in Persian a commentary on Sri Kavindri-Cirya's Jaules Zara which is a Bhasha version of the Yegezdisjifha is Sansairit. A MS of Sitzrama's work belongs to the Dr. Jha Institute, Allahabad. Sitaram quotes Persian and Arabic texts to show that the teachings of the Yegezdisjifha accord with those of Mullim mystics.\(^1\)

Dr. Tara Chand then mentions (1) the Kavindrācārya Sūcipatra, (2) the Kcvindrācandrodaya edited by M. M. Patkar and the late Dr. H. D. Sharma and (3) my article on Bernier and Kavindrācārya Saraivatī and observes as fallows:—

"Additional information which confirms Pt. P. K. Gode's suggestion concerning the identity of the Benares Pandit mentioned in Benaries' a Trought with Kavindrickrya comes from the Padshah Namak of Mohammad Waris, which is the completion of the Padshah Namak of Mohammad Waris, which is the completion of the Padshah Namak of Adoul Hamid Lahori. The Manuscript of Waris in the Allahabe University Library contains the following passage (p. 201b) under the account of the 24th year of the rigin of Shah Jaham when he was weighed at Lahore on attaining the 61st year of his age (according to the Lurar recknoine)—

"Kandada Sanyāsi who is a Dizbari his a correct taste and complete mastery in Dhrupad "music and Hindi literacy composition. He came to the Court of the Emperor (the protector of the world) and obtained permission for entry. His compositions were found pleasing hythe Emperor; he was exalted with the award of a horse, a rohe of honour, and two thousand rapters in cash. In esteem he was raised to the height of the sky."

<sup>1.</sup> Compare Bernier's remarks (p. 345 of Tropols, Constable, 1891), on Dara's heresy in his letter to his friend Chapelain, dated 4th October 1667:-

<sup>&</sup>quot;In conclusion I shall explain to you the Mysticism of a great sect which has latterly made great noise in Hiedowtas in as much as "certain Pendes or Genile Dectors had tratified it note the minds of Dars and Sallen Swisch, the cleer soon of Shah Ishan".

Kavtodra composed a Hindi work called the Karladra Kelpalati. My friend Dr. Dubaertha Sharma has seen me a copy of this work from a Elisanet MS (in the Anug Sanirat Library). Among the sections of this Hindi work there are sections in praise of Dara Shukoh and Shah Jahar. The Colophons of these sections refer of Depagada Dub Keribriati Ketsudera as follows—

<sup>&</sup>quot;इति श्रीवर्षविवानिशान-क्यांन्याचार्य-अश्वर्याविदाचितायां करवलतायां दारासादिविवयवश्चणर्-दोहार्यक्याचि "

<sup>&</sup>quot;(ति भी ...... ६ वोग्यकस्यकतायो सादिवहाँ विरायकपुरुरदावि "

Most probably Shah Jahan must have perused or heard the Dhrupode Dolds in the Kepladus Kelpulaté before statisticoing Rs. 2000 for being paid to Kayindra.

The above passage is very important at it confirms Bernier's account of Kavindráciery about his satus at Shah Jahan's Court and the pension of Rs. 2,000 given to him by the Emperor and later stopped by Aurangaeb. Secondly the expression Neudrino Sanyati is a paraphrase of the name Kavindrácdnya Sarassast mentioned in all the Sanskris sources about this important and influential personality at his plan's Court, It will thus be seen that Dr. Tara Chand's discovery of the above passage harmonizes and strengthens all that we know short this Sanyasi from Sanskris, Hindi, French and Parsian sources. We are now in a pointion to study motion sources with confidence all the details about Kavindra's life and character disclosed by all these sources jointly and severally. In the present paper I propose to examine the evidence for locating Kavindra's Manuscript Library at Benares on the trensph of conferences are sourced.

In view of the close contact of Bernier with the Chief of the Benares Pandits now identified with Kavindrickrya, Bernier's account of Benares Pandits and Sanskrit learning as recorded in his letter of an . 1607 assumes much historical significance. I may note here what Bernier asys about the Benares Brahmins and their learned pursuits:— P. 344 Tramps.

"The town of Benares, seated on the Ganger, in a beautiful situation and in the midst of an extremely fine and rich country, may considered the general school of the Gentiles. It is the Athens of India, whither resort the Brahmurs and other devotees; who are the Any persons who apply their minds to study. The town contains no colleges or regular classes as in our universities, but resembles rather the schools of the ancients; the masters being dispersed over different parts of the town in private houses, and principally in the gardens of the suburbs, which the rich merchants permit them to occupy. Some of these masters have four disciples, others six or seven, and the most eminent may have twelve or fifteen; but this is the largest number. It is usual for the pupils to remain ten or twelve years under their

<sup>1.</sup> We cannot consider the Keslenkskryn Side is a contemporary source for Keslenks-Keslenks-Keslenks-Vicke-Mild, May 1901, pp. 41.4—79 pages on the Keslenks-Region Side-in it a dependable mean for the resentantine of Lieuwy-Dieseskry-Vicke-Region Consideration of Lieuwy-Dieseskry-Vicke-Region Consideration of Lieuwy-Dieseskry-Vicke-Vic

<sup>&</sup>quot;श्री६र्व(वद्यानिपान्द्वीम्बाकार्यवस्थान "

respective preceptors during which time the work of instruction proceeds but slowly for the generality of them are of an indolent disposition, owing in a great measure, to their diet and the heat of the country. Feeling no spirit of emulation, and entertaining no home that honours or emolument may be the reward of extraordinary attain. ments, as with us, the scholars pursue the studies slowly and without much to distract their attention, while eating their Kichery, a mingled mess of vegetables supplied to them by the care of rich merchants of the place."

The foregoing extract gives us a graphic picture of the Bharativa Vidyd as pursued at Benares, painted by an acute Frenchman like Bernier and hence it possesses much historical value for any account of Sanskrit learning ' at Benares in the 17th century.

Bernier then proceeds to tell us how Sanskrit is taught to students at Benares. Speaking of the Sanskrit language the holy and the divine langua ge be observes: That it is extremely old, however, it is impossible to deny, the books of their religion, which are of unquestionable antiquity being all written in Sanskrit. It has also its authors on philosophy, works on medicine written in verse, and many other kinds of books with which a large hall at Benares is entirely filled.

I am of opinion that "a large hall at Benares" filled with many kinds of books on philosophy, medicine, etc., referred to by Bernier is

- (1) The Sanskrit College or Pathashala was founded by Jonathan Duncan about A.D. 1792 A.D. 1774.

  (2) Kasinstha Pandits was the First Rector or Head Preceptor with seven other
- Professions.

  (3) The discipline of the College was to be maintained according to the edicts of
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  In his article Sir John us the store of Kanharadan archibit. In his article Mr Jonn us the story of Kanharadam, probably a student of the above 1944) Dr. Son has given us the story of Kanharadam, probably a student of the above 1944) Dr. Son has given us the story of Kanharadam. 1944) Dr. Sen has given tradent bailed from Gwalior. His funds were soon exhausted Sanskrit College. 2 mm addressed some letters to Sie plan Shore (Governor-General) and being in distress he addressed some letters to Sie plan Shore (Governor-General) and being in distress he addressed ships toudent, who was them 26 warrants

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probably identical with Kasindrisdayu's Manuscript Library, the subject of the present paper. Beraire talls up further, while speaking at the Paranar and Vadar that these books "of great built" ere shown to him at Renares. Speaking of the Veder he supar—"They are as searce that my Agah (Danishmand Khan) notwithstanding all his diligence, has not succeeded in purchasing a copy. The Gentler indeed conceal them, with much care, lest they should fall into the hands of the Mahometan, and be barne, as frequently has happened." In his remarks on the Hindu worship of idols Bernier informs us on the following noints:—

- (1) His visit to Benares while going down the river Ganges.
- (2) His visit to Kavindracarya, the chief of Pendets.
- (3) Description of Kavindra as a Fakire or Devotee-pension of Rs. 2000 (about 1000 crowns) to Kavindra by Shah Jahan—Kavindra a stout, well-made man with a white silk scarf round the waist and a large scarf of red silk on his shoulders as a cleak—Kavindra often seen in the company of the Omeraic and before Shah Jahan—Aurangueb stops the pension of Rs. 2000 on coming to the throne—Kavindra pays constant visit to Danishmand Khan for one year to get this pension renewed through this Khan—Bernier's "close intimacy with this distinguished personage" and "long and frequent conversations" with him.
- (4) Bernier states: "when I visited him (Kavindra) at Benares he was most kind and attentive giving me a collation in the University Library, to which he invited the six most learned Pendets in the town." for a debate on the worship of idols.

The large hall at Benares filled with Sanskiri Manuscripts (p. 34 of Trandti) is, believe, identical with the University Library where Bernier met his friend Kavindra and six most learned Pandits of Benares. If this suggestion is accepted we may be justified in supposing that Kavindra must have deposited all his manuscripts in this hall or University Library.

Now as regards the location of this library the editor of Travels records the foollowing foot-note on pp. 341-342:-

"Tavernier when travelling from Agra to Bengal in 1665, on which journey he was accompanied by Bernier, was at Benares on the 11th, 12th and 13th December of that year. He tells us (Tavernier's Troent), Vol. II, pp. 244, 235) that adjoining a great temple on the side which faces the setting sun at midsummer, there is a house which serves a college, which the Raja jai Singh, the most powerful of the idolatrous princes, who was then in the empire of the great Moghul, has founded for the education of the youth of good families. I saw the children of this prince, who were being educated there and had as teachers several Prodmins, who tought them to read sad write in a language, which is

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- From Bernier's account of Seoshrit education current at Benares in A.D. 1665 we turn to the foundation of a Senshrit College at Benares (vide Dr. S. N. Sen's article on Saushrit College, Benares, in Journal of Dr. G. Jha Institute, May 1944, pp. 315-325) Some points from Dr. Sen's paper may be noted hete:—
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In his strick Sir Jako Sher, a Friend o' she Foer (pp. 11-496) the above Journal, May 1941) Dr. Sen has given us the story of Kanharadawa, probably a student of the above Sanharit College. This student helical from Graslor, His funds were soon exhausted and being in distress he addressed some letters to Sir John Shore (Governor-General) who appears to have beloed this kurdent, who was them 26 regran Open.

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reserved to the priests of the idols, and is very different from that spoken by the people."

If the above identification of the University Library where Bernier met Kavindräcärya at Benares is correct, we get the following equation of three different sites at Benares:

- (1) Large hall with MSSseen at Benares.
- (:) University Library where Bernier met Kavindra and six other Pandits for debate on idol-worship.
- (3) The College near a temple where Mirza Raja Jai Singh's sons were being educated as stated by Tavernier.

Evidently the College founded by Mirza Raia Iai Sinch served as the home for the MSS collection of Kavindracarva Sarasvati, who being a Fakir or Sanyasi had not a private house with a private library of his own as modern Orientalists with fat salaries possess. Kavindra carried on his disinterested pursuit of knowledge in the interest of Hindu religion and culture and thus attained a supreme position among the Benares Pandits of his time as amply vouched by the addresses in the Sanskrit Kacindracandrodaya and the Hindi Kavindracandrika, a MS of which has been recently discovered at Bikaner. I have now to request our Benares scholars to identify the exact site of Mirza Raia Jai Singh's College for his sons referred to by Tavernier and seen by him in 1665. If the site of this College can be exactly identified we may repard it as the site for the location of Kavindracarva's MSS Library at Benares on the strength of evidence recorded in this paper from contemporary sources viz. Bernier's Travels and Tavernier's Travels, which are sufficiently trustworthy for our present purpose.

<sup>1.</sup> I note here some MS: from this Library :-

<sup>(2)</sup> B. O. R. Institute (Govt. MSS) No. 762 of 1891-95-MS of Tattvaloks of Janutrusos dated Samvas 1514-A.D. 1458 endorsed "গ্ৰীমাহিলানিখান কৰি আৰাই সংক্ৰেনানা ব্যান্ত মুখ্যমেডি:."

<sup>(1)</sup> There are some Kavindes MSS in the Oriental Institute Library, Baroda (vide p. VIII of Introduction to Kavindesicitys Socipatra G.O.S. Baroda, 1921). One p. IX Mr. R. A. Shattis states that he see at Starts a MSS of Dhrame Praytti (now in the Oriental Institute, Baroda) with a verse at the end which when rendered into English reads as follows:

<sup>&</sup>quot;In the blessed year of 1/13 (1857 a.D.) in the month of Arjana (March and April) on the fifth day of the bright fortnight on Tucaday, by me canned Sri Kangha was copied Dharma Praystis in the Kavindra house" (No. 1934 of Ori, Institute, Berodal, 1 reserval or a later cossion a verification of this base of quoted the Snakhis original of the above translation I am unable to wrift the extra training the sound of the snakhis original of the above translation I am unable to verify the extent significance of "Nafordra house", and its location.

## AN ILLUSTRATED MANUSCRIPT OF THE BHĀGAVATAPURĀNA COPIED IN A.D. 1648 •

The late Rao Bahadur D. B. Paramis published in 1909 a note' on a Mis of the Minguentagardage reperted with profuse illustration Raja Pratapsimhs of Jaipur (A.D. 1779-1803). Pratapsimhs was a great lover of art. He had under his patronage numerous artists with whose help he got prepared a MS of the Bhigmostopuribae, "containing beutiful coloured illustrations to illustrate cervain episodes of this puriss. These illustrations give us an side of Indian art at Jaipur in work of prenary varies, and the profuse of the state of the state

Nana Fadnavis, the celebrated minister of the Peslawa got information about this illustrated MS of the Bhāgawata. He at once wrote to Apajiram Dabholkar, the Dewan of the Sindhia to make inquiries about this MS and send it to him. Apajiram wrote to Nana Fadnavis as follows:—

"Respectfully I have to state as follows :-

Received your letter of (1 ccha Jamádiával). In one of the supplements to your letters you have directed me to forward to you an illustrated MS of \$61 Bhdgeanta, which you learn on reliable authority, has been prepared by Raja of Jaipur. You have also asked me to request Philibiva's to make a demand for this MS (poshi) during the course of his negociations with the Raja of Jaipur (Jaipurkar). Or if this course is not possible you may request Riyaji Patil, who is engaged in some diplomacy with the Raja of Jaipur do this private work of ours. I have already spoken about the matter to Riyaji Patil and he remaining. A process of the private work of ours. I have already spoken about the matter to Riyaji Patil and he remaining. A process however, these was considered to the process of the private work of the process of the pr

- New Indian Antiquary, Vol. 1, pp. 249-253.
- 1. Vide Itih Ismamgraha, Vol. 1, Part 5- Aitihasik Tipanen, p. 37.
- This Pratapasimha cony of the Bhdgeoute, with illustrations reminds me of the illustrations prepared by Shrimant Bala Sahab Past Pratinidhi, Raja of Aunch for the critical edition of another purios, wiz. the Mahabhbarete that is bring published by the Bhandarhar Offictal Research Institute, Poons, under the editorahip of Dr. V. S. Subthankar.
- As the year is not recorded the exact date of this letter cannot be determined.
   Pgilbard = Mahadji Sindia (A.D. 1759 to 12th January 1794) (vide p. 228 of Oriental Biographical Distinsary by 11. Cr. Keene, London, 1894).
- S. Cr., Peditai Daftar Selection, No. 14 (letter No. 38 of 13th October 1735) Pilaji Iadhav, g Maratha Sardar sent to Peahua Bajirso a MS of the Bhilgmonto Furing (excepting three chapters which were missing),

Paranis states that no further letters on this subject can be traced but information is available that Pārilbāvā (Mahadji Sindia) succeeded in procuring this unique MS for Nana Fadnavis. He also states that skis MS is still in existence.

The above information about an illustrated MS of the Bhasavata nrepared at Jaipur between A.D. 1779 and 1803 reminded me of another "Hustrated MS" of the Bhasavata available in the Government MSS Library at the B. O. R. Institute, Poona, prepared about 130 years earlier than the MS of the same work referred to by Parasnis. It would annear that both these MSS were prepared in Rajputana, one at Tainur and the other at Udayapur, both are profusely illustrated in colour and best illustrate the same purana, viz., the Rhaeavata, though the differance of time between the B. O. R. I. copy and the Pratapsimha copy is more than 130 years. I have no evidence to prove that the Pratapsimha copy was modelled on the earlier copy in the Government MSS Library dated A.D. 1648. As the B. O. R. Institute copy is now 290 years old lovers of Indian painting will find it very useful to study the characteristics of the Raiputana style of painting prevalent in the middle of the 17th century. I shall, therefore, describe this MS in brief in order to give the students of Indian art some idea about the number of illustrations contained in this MS and the particulars about the date of this copy as recorded by the scribe.

The date of the MS is recorded in the colophon 3 of Standta XII as Sanient 1705 month of Bháthapada, Shilapaba, thiti 2. Gurwaira which is equivalent to Thursday, 10th August 1648. The copy was written at 1642appara. At the bottom of the full-line illustration on folio 5 of Shandha VIII we find the endorsement: "daves winch was which possibly contains the name of the painter. The name of the

<sup>1.</sup> Paraunis does not state in whose possession the MS exists,

<sup>2.</sup> This is MS No. 4 of 1981-1995. It consists 314 folios, comprising Shockard, VIII, IV, XI and XIII of the Migrator. Shoulke VIII contains 16 quarter-size, 2 half-size, and 35 full-size illustrations. Shoulke IX contains 1 quarter-size, 3 half-size and 18 full-size illustrations, 2 half-six 1 contains 1 quarter-size, 2 half-size and 18 full-size illustrations, 2 handle XII contains 1 quarter-size, 3 half-size and 18 full-size illustrations. Shoulke XII contains 1 quarter-size, 3 half-size and 18 full-size illustrations. The The next combon of influentations in 1812 — 211 quarter-size 1 half-size illustrations. The paper of the MS is point to brite but on the whole the MS is well reconstruct. The paper of the MS is pointed by the paper of the MS is pointed to the value of the short of the size of the short of the size of seat forth is 181 theche x 31 in some 1812 and 1812

<sup>3.</sup> This colophon reads as follows .-

विभागि भी मान्यस्थापर्यस्थितां प्रीप्तराविविद्यां व्याद्यस्थि विद्यार्थः प्राप्तस्थि विद्यार्थः प्राप्तः ॥१३॥ स्थानम्बिक्तेनीयस्थं सम्बद्धान्त्रस्थान्त्रस्थान्त्रस्यास्यर्थे । इतिविद्यान्त्रस्य प्रदेशस्य स्थानित्रस्य स्थानित्रस्य । स्थानित्रस्य स्यानित्रस्य स्थानित्रस्य स्थानित्रस्य स्थानित्यस्य स्थानित्रस्य स्थानित्रस्य स्थानित्रस्य स्थानित्यस्य स्थानित्यस्य

scribe in Jassenste who is styled as Bhatisede in the colophon' of Standard WIII on folio 8th. He copied thin MS and Udayspare which is identical with Udayspare mentioned in the colophon of Standar XII. The Government MSS Librury, which we be presented to the Chapter of the Bhatisets copied in years earlier than an 1648, the date of the Bhatisets copied in years earlier than an 1648, the date of the Udayspar copy referred to above but none of these MSS is illustrated. There is, however, one illustrated Persian MS in the Government MSS Library, which is a prose summary in Persian of the Bhatisets and the Chapter of the Chapter of

Coming now to the several coloured illustrations of the B. O. R. Institute MS of the Bhāganata of A.D. 1648 I have to state that they are all in good condition and appear to have been executed with great care. It is, however, a matter for the students\* of Indian art to study these

1. This colophon reads as follows -

" थीपरसामिसिरिनायां श्रीमाणको महाबुराने महासक्त्रे नदुर्गिणायाः र्यपूर्णमस्तिः ॥२४॥ भटारक असत्त्रेत तिकित तेत्रक राजकोक्यानमञ्जू ॥ कृष्णे मक्तिरमुः ॥ प्रमं मब्दु ॥ आष्ट्राके विवेषं पुरिन्छा ॥ मामपुर्वक्रिटिशा ॥ स्वत्यवर्गप्रशोमको १ करेन निवित्यं वार्षः । यनेन परिशासवेत् ॥ श्रीद्वराष्ट्रपर्य निवित्तं ॥ "

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2. Some of these MSS are noted below with their dates :-
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No. 435 F of Viáráma I—Saniwat 1612 = A.D. 1556, No. 435 A of Viáráma I—Saniwat 1616 = A.D. 1560, No. 216 of 1895–1902—Naniwat 1616 = A.D. 1560.

No. 435 G of Vitrima I—Sanivat 1616 = A.D. 1560. No. 435 G of Vitrima I—Sanivat 1622 = A.D. 1564. No. 435 D of Vitrima I—Sanivat 1664 = A.D. 1668.

No. 435 E of Vigrama I—Samvet 1678 = A.D. 1622, No. 110 of 1884-87—Samvet 1692 = A.D. 1622,

The colophon of MS No. 435 F of Vistams I reads as follows:— "संवत् १६९२ वर्षे मायदादि वंबम्यां गरी तिस्त्रितीयं दशमस्कंशः ॥"

2. MS No. 18's of 18'5-76. This Not contain 26' foliors and is broam in teather, the date of the copy a recorded in the collephen is Zealant 1999 (ments of Philipson) or a. in; 1837. The MS is well oritim and contains some face illustrations—Code in the contains of the Philipson of the contains of the Philipson (Incident Code). The Philipson (Incident Code) is the Appen mentance (Incident Code) in the Appen Mentance (

The copyist is Pencia Testedn, whose patron's area ancers to be Lais Mihirchand Chop in South at the colophoma. It are still the first of the C. H. Khare, Caraber, Barrel Libbas Sathiadhak Mapdal. Poons, for reading out the personnel person of this Person MS to reading on the personnel of this Person MS to reading on the colophoma of this Person

4. My friend Mr. M. R. Majmudar of the Oriental Institute, Baroda, the author of the Jain Chitra Kulpadrama (Baroda, 1936), will be studying these illustrations in the near future. He has already made a closestudy of the different styles of Indian paintings such as the Mughal style, the Rajasthani orthe early Rajaut style, the Culparati

illustrations carefully, and assess their full artistic value. Refore I conclude this note on the Bhāgerata MS I may invite the attention of scholars to one good illustration depicting the immolation of Kṛṇṇi wives on the funeral pyre after his demise which is painted on folio 129 of Standba XI.

As the history of Indian painting has been latterly engeging the attention of Indian and foreign-shollars the MS of the Bhigmans described in this note may have some value both artistic and historical as it is a dated MS, rich in large and small well-preserved collisions of illustrations. At any rate it is a source for the history of Indian painting deserving a careful study and reproduction of at least some officoloured illustrations, representative of the school of painting to which it belones.

style, etc. He states to me in private communication dated 21rd May 1918. "I have not fracted out to sillurated MSS of Malgarate Distant Sandha, one being the Guirant-vert.ordering by the part Bhiling of (expl lith centur) with 10th centur ministers, and the other being the dated MS of polytops, with about 200 ministants with the centur of Guirant-vert.ordering by the dated MS of polytops, with about 200 ministers with the centur of Guirant of Newton 1807 (\* n.m. 1811), the part of a market for Georgia Growton 1807 in Guirant 1807 (\* n.m. 1811), and part of a market for control of Guirant 1807 (\* n.m. 1811) and the state of Guirant 1807 of the Guirant 1807 o

" १६९७ वर्षे । कर्तिकाञ्चित्रस्यं वर्त्वर्दर्यः (वेद्वि । तिस्तितः सुर श्रीवेन दशयपदर्यक्या ॥ स्वपन्दनन्यानेन क्षेत्रितोऽयं सर्वादन्य । नारअपसर्वनेत योदिरास्थेन विभिन्नः ॥ "

1. Vide verses 19-20 of Chapter 31 of Skandha XI (Bhdgavata, Jagadishvar Press, Bombey, Saka 1815 ( = x.o. 1893).

2. Vide M R. Mejmuder's article "The illustrated MS: of Ratinehaps of the Gajims School of Insidings" (Bott. Unit. Place Vol. V, Part V, Mey 1977, pp. 13–144), According to Mr., Mejmuder the "Cojerar School of MS:—Illustrations fourished flow and the size of the Cojerar School of MS:—Illustrations fourished flow indiscrete." Mr. Mejmuder refers to the following scales as Indian painting indiscrete." Mr. Mejmuder refers to the following scales as Indian paintings in Mr. 22-12 (April-1981): "Scales in Indian Paintings", DR. 22-12 (April-1981): "Scales in Indian Paintings," DR. 22-12 (April-1981): "Scales in Indian Paintings," Dr. 11. Scales Paintings, Gujett, 1980 active (1981): Grient John Co. Comptor "An early discovered illustrated Indian MS" (Ardus Ris An, Ser Jear, Vol. IV, 199): A nearly discovered illustrated Indian MS" (Ardus Ris An, Ser Jear, Vol. IV, 199): A nearly discovered illustrated Indian MS" (Ardus Ris An, Ser Jear, Vol. IV, 199): A nearly discovered illustrated Indian MS" (Ardus Ris An, Ser Jear, Vol. IV, 199): A nearly discovered illustrated Indian MS" (Ardus Ris An, Ser Jear, Vol. IV, 199): A nearly discovered illustrated Indian MS" (Ardus Ris An, Ser Jear, Vol. IV, 199): A nearly discovered illustrated Indian MS" (Ardus Ris An, Ser Jear, Vol. IV, 199): A nearly discovered illustrated Indian MS" (Ardus Ris An, Ser Jear, Vol. IV, 199): A nearly discovered illustration (MS).

 Perf. W., Norman Rowat, "Early Vaishness Maintenes, Entere Art, Philidophis, pp. 17-50 (1993). Sury of Kidals, Smith-smith, Institution, Washington, 1933; A Deveryive and Illustrated Catalogue of Ministere Painting of the Jain Kida Sans, Santhons, Inc., 1991; Early Timers Inflata Ministere Painting of the Jain Kida Sans, Santhons, Inflata Sainty of Oriental Art, 1951; A measurecipt of the Inflata Sansking of Computer and Catalogue of Oriental Art, 1951; A measurecipt of the Vol. 1, 1938, pp. 127-129).

# 9. THE OLDEST DATED PAPER MANUSCRIPT OF VANGASENAS CIKITSÄ-SARASAMGRAHA IN THE GOVERNMENT MANUSCRIPTS LIBRARY AT THE BHANDARKAR ORIENTAL RESEARCH INSTITUTE POONAS

The history of Science has not received in India the attention which it has received in other civilised countries of the world. The history of medicine is an integral part of the history of science. India has contributed not a little to the history of medicine as vouched by numerous authoritative texts on Avurveda like the Carabacambita the Susrutasamhita and others, which have been the very basis of the theory and practice of the Avurveda for more than 2,000 years. For an accurate history of any science like medicine, the history of the extant texts pertaining to it ought to be reconstructed. For this turnose the study of the dated manuscripts of these texts has been recognised as a reliable source by students interested in this subject. In my articles ' pertaining to Indian Literary History. I have made an abundant use of the dated manuscripts of texts pertaining to the different branches of Indian Sciences. During the course of my study extending over four decades. I have noticed several dated manuscripts of Indian Medical and allied texts. It is worthwhile making a special study of them, as such a study would be useful not only to the students of Indian paleography but also to the students of the history of Indian Medicine, who are curious to know these sources of Indian medical history but are unable to secure them easily.

In the present note, I wish to bring to the notice of the residers of this Journal the earliest dated paper manuscript of a work on Medicine available in the Government Manuscripts Library at the Bhandarkar Oriental Research Institute, Poona. This manuscript bears No. 3:2 of 1879-80. It is dated Sariwat 1376 n. A.D. 1320. In spite of the lapse of 636 years since it was written, the thick paper of the manuscript, even though musty in appearance, shows no signs of decay and can be handled without causing any damage to it. This condition of the manuscript may be contrasted with the sad condition of modern printed books, which within less than 50 years from the years of their publication, become brittle and are not fit for handling. The medical work represented by this manuscript is called Vangadate Vaidydate

Indian Journal of the History of Medicine, Vol. I, No. 2, pp. 29-12.

See Vols. I and II of my Studies in Indian Literary History, published by the Bharatiya Vidya Bhavan, Dombay, 1933, 1954, and Vol. III published by Prd. P. R. Gode Work Publisation Committee, Poosa 4, 1956.

but its correct name is Chitzd-zirazańgraha. Its author's name; vańgasena. I published a paper' on the date of this author, who is quoted profusely by Hemideri in his commentary on the Apthiagahyday, of Vighbara. The date of Hemideri is c. a.b. 1260. He was the ministe of the Yadava Kings of Devagiri (Dualatabad) viz. Rimacandra sad Mahlders. Jolly, the great German Orientalist, in his monumestla history of Indiam Medicine (English trans. by C. G. Kashikar, Poosa, 1951, pp. 7-8) has made some remarks son Vańgasena and his pretent teratise. Some conins from these remarks may be noted below :—

- (1) This very comprehensive work on medicine was published at Calcutta as early as 1884.
- (2) It contains a general introduction to pathology, and deals with duties of the physician etc., an exhaustive description of diseases and their treatment, the elisir and Vājikaraya, Bṛnhana, Seedana, Vamana, etc., the dietetics and pharmacology, diagnosis and orogenosis.
- (3) It says nothing about the calcination of metals. Nāḍiparikid is not mentioned and no reference to opium is found in it.
- (4) It mentions three kinds of iron and six kinds of steel.
- (5) It speaks of properly purified quicksilver, the Rasaparpaga (a preparation of quicksilver) and other mercurial mixtures but does not enter into the particulars of the methods of working upon mercury.
- (6) Vangasena was the son of Gadādhara. He hailed from Kanjika. He was a Bengali, being contemporary of the Sena dynasty of Bengal.
- (7) Many recipes given by Vangasena are identical with those in the Bower MS. Others can be traced to Vrnda and Cakradatta (c. A., 1060).
- (8) The oldest MSS of Vangasena's work are dated A.D. 1276 and 1320

The MS dated a.D. 1320 mentioned by Jolly is identical with the MS in the Government Manuscripts Library at the Bhandarkar Opiental Research Institute. I reproduce along with this note, photos of its first page and the last page recording the date of its copying viz. Samber 1376 (= a.m. 1320).

As regards the other MS of this work dated A.D. 1276 mentioned by Jolly, I have to record the following information given by Dr. Julius Eggeling on p. 952 of his Catalogue of Sanskrit MSS in the India Office Library, Part V, London, 1896:—

<sup>1.</sup> See pp. 325-333 of my Studies, Vol. L.

The Cambridge Library possesses two portions of Vafagsaenis work. The date of this MS is Nepal Sadmen 396 (= n.m. 125). Though this MS is called Vaidyovallabka Eggeling thinks that it is substantially the same work as the Cibitat-Arasandyraha of which there is a MS the India Office Library, which Eggeling has described on pp. 931-932 of his Catalogue. Eggeling states that Vafagsaena is earlier than 1.1200. It shall feel thankfull if the readers of this Journal bring to my notice any earliest dated manuscripts of medical works noticed by them in private or public MSS collections.

Shri D. K. Shastri assigns Varigasetta to "about A.D. 1200" (see p. 182 of Ayarordno Itihdia, Ahmedabad, 1948).

<sup>2.</sup> See my paper on Notes on the MSS of Medical Works by Jain Authors (Jaina Antiquary, July 1947, Vol. XIII, No. 1. pp. 1-8).

# 10. SOME ANCIENT INDIAN OBSERVATIONS ON STUDY (ABHYĀSA)\*

We live in the modern are with so many facilities for study such as well-equipped libraries and reading moms, polished reading deaks and chairs which keen the snine of the student erect well trained school teachers and highly qualified professors, capable of delivering lectures in their subjects for two hours without a break in a stentorian voice. many study circles in our educational institutions and outside, films educational or otherwise which provide visual aid to study, social eatherings and other entertainments which keep the students in a good frame of mind and last but not least the plethora of cinema theatres and restaurants which provide incessant excitement and vitality respectively to the youth of a nation. In spite of this wealth of facilities our school teachers complain that their students never study at home. Our professors tell us that the students in their colleges have a greater fascination for the girl students (where such a facility for study has been fortunately provided by the college authorities) than for their lectures, however painstaking and laborious they may be. Fifty per cent, of the study in colleges is done by the professors, twenty-five per cent, is done by the annotators and twenty-five per cent, is left to the students.

Lawing saide the exceptional cases of clever students who are capable of passing their examinations creditably with the least bely from their teachers we find a majority of our college students trusting in Providence for success in their examinations. Trust in Providence by all means but one must know that Providence is immanent in the universe of which all of us are a part. All human effort is ultimately divine and our studies, if carried on with a divine fervour are bound to succeed. "Study gives strength to the mind" said as English author. The providence of the control of the control of the control of the mind, which produces confidence in our shift. In the trength of our mind, which produces confidence in our shift.

"Study the past if you would divine the future" said Confucins. The Chinese law-giver. Our ancestors were ideal students and teachers. The wealth of Sanakri literature which has survived the onalsulpt of time and which has raised as in the estimation of foreigners in a creation of these students and teachers of Indian antiquity. We are, therefore, curious to know if these students and teachers have left one, curious to know if these students and teachers have left on the other students and the control of the co

The Collegian, 1949, pp. 13-14.

While engaged in preparing a complete Bibliography of my research papers published during the last 33 years of my post-graduate research career, I came across incidentally the remarks on the value of study, (abbyda) in the Yogandsityka (Unstardtah, Nirrdapprakaraga, Chap. 67). These remarks penetrated the depth of my soul as they have been borne out remarkably by my experience as a student of Indology for over three decides of my service as Curstor of the Bhandarkar Oriental Research Institute, Poons. I implore all extenset students to ponder over these remarks of the Yogandsights and realise their truth for themselves. I record below some of these remarks which will reveal to the modern students not only the value of abbydar but also the wisdom notice in the processing their experience for the benefit of notice in the processing their experience for the benefit of notice in the processing their experience for the benefit of notice in the processing their experience for the benefit of notice in the processing their experience for the benefit of notice in the processing their experience for the benefit of notice in the processing their experience for the benefit of notice in the processing their experience for the benefit of notice in the processing their experience for the benefit of notice in the processing their experience for the benefit of notice in the processing the proces

Shakespeare observes in his Love': Labour Lost: "Study is like the Heaven's Glorious Sun". The Yogaväsisha, which was composed a thousand years before Shakespeare, also refers to Sun of Study (Abhväsa-shāshara) and its powers of illumination as follows:—

"The Sun of Study is alone victorious in illuminating all objects for the entire world of living beings."

"Abhyāsa is nothing but repeated application." "A person can attain success (Siddhi) by his own effort (Yatna) srising out of his own urge. This effort is known as Intensive Study (drāhābhyāsa)."

"By constant study one can obtain even unattainable objects, convert enemies into friends and transform poison into nectar." "One cannot do without study in this world as it is the central object of human life (Puruattha)."

"One can attain peace of mind only by a profound pursuit (Ghanā-bhyāsa) of one's ideal."

"He is the meanest wretch, who abandons the study or pursuit of his objective."

"Fortunes may prove abortive but never so study (Abhyāsa)."

These are some of the observations of the Yogaväsissha on study at high altitude and they stand in glaring contrast with Bacon's utilitarian observations on study such as:

"Studies serve for delight, for ornament, and for ability" and "Studies perfect nature and are perfected by experience."

The Yogarāsiṣṭhā teaches us how to pass creditably the emmination of life of which the University examinations are only an insignificant part. In fact it exhorts us to study hard if we want to come out victorious in the test of Puruārthā. The Meldéhébrate, our great epic, also emphasizes the importance of Abbytas or study. All study to be successful requires control of the mind. The Gitá danits the wayward character of the mind and the difficulty of controlling it but asserts that it can be controlled by abbytas (study). According to the Sântipareau (Chap, 327, 48) the success in the acquisition of knowledge is exactly proportionate to the degree of intelligence (matr) and the intensity of study (ph/sha). We are further told in this param of the epic (Chap, 130, 100) that a student derelops a teste for a close knowledge (mj.dina) of a science (Sâstra) has estudilly accounters and inclusions to its heartfully accounters and inclusions the sectually accounters and inclusions the sectually accounters and inclusions to its heartfully accounters and inclusions the sectually accounters and inclusions to its heartfully accounters and inclusions the sectually accounters and inclusions to its heartfully accounters and inclusions the sectually accounters and inclusions to its heartfully accounters and inclusions to its heartfully accounters and inclusions and inclusions and inclusions are accountered to the section of the sectual accounters are accountered to the section of the sec

The foregoing observations on the value and nature of study recorded by our ancestors hundreds of years ago serve as a becominght to all serious students of the modern age. In fact they are true for all times and climes. If we ponder over these observations in a spirit of revenence we are bound to get from them a new hope and a new confidence which will fortify us in all our struggles for a san and uncreasful life.

## HISTORY OF THE RANGAVALLI (RĂNGOĻĪ) ART BETWEEN c. A.D. 50 AND 1900\*

I propose in this paper to record some references to the Art of Decorating Floors with Colourd's Decoders on Gestive occasions as uncertaint in some parts of India. 'This art is practised by the women-folk and to occasionally in some Hindu temples it exhibitions are held on the occasion of a festival. It is necessary to trace the history of this popular art on the strength of Sanskrit and non-Sanskrit sources with a view to giving it a proper historical perspective. In Mahārāṣṣṣ this art is known by the term "vighth" (rightqq), Accordingly in the Marathi Dictionary called the Sabdabota by Y. R. Date and C. G. Karve we cet the following entry about it:—

Page 2604 — "रांगोडी रोगवडी" — Powder of rice or other materials prepared for the purpose of drawing various designs before deities on the occasions of feasts etc.

Usage — " तिमा रांगवळी स्ती शणिया। चक्रवर्तीचमा।" — जिल्लामण्या

— " रोगोळी करण " = To kill, to destroy completely etc.

Usage:— " हेंचून बरी रांगोळी " —संघाम ११ Etymology:—[Sanskrit रंग = to dye, रंगवड़ी, रंग + कोळ ]

\_\_'' रोगोळ'' = A perforated cylinder filled with रोगोळी used for drawing floor decorations by moving it over the floor.

As the term " रागवजी" is used in the Mahānubhāva poem Sišupālavadhā of c. A.D. 1273 we are warranted in presuming that this art of drawing rāṅgoļī pictures has been current in Mahārāṣṭra clearly from about A.D. 1200.

Annals (B. O. R. Institute), Vol. XXVIII, pp. 226-246.

See Bentzy Centister, Vol. XXII (Dharvar), Benthay, 1884.—Appendix D (by Ree Bakdout Timiter Vediatris) on Grants-Pender (Ratgell)—Penget 131-121.— Răggeli, the word used for the quantt lines and piemen which prodent bousewises spiritule in froat of their house-doors is said to mean the billion file from the Seathvit range observed drails, a row. "The websides explanation of the opinishing of these lines to the product of the complete of the product of the principle of the name of the product of the product of the product of the principle of the inches the first is for beavery. Sections and definite in the house.

This old Marathi poem Silvapdlenodke was composed by Bhānutha; or Bhānasabhas Borikar (c. A.D. 1273, see p. 58 of the অধ্যয়ণীৰ বাবৈৰকীয় by Chitrso Shastri Poona, 1973.

<sup>3,</sup> The Marsthi poet Moropant fourished between A.D. 1729-1794 (see page 660 of দ, ব, ভীয়).

The Sabdakola (p. 2579) records another term for this art viz.
"(समाका" and explains it as "शोगोकी में रियो " (rángolf decorations) or
"शोगोकी " (powder). The usage of "रंगमाका" as given by the
Sabdakola is as follows:

" बदरोंनि पृद्दानी रंतमाळा पानं पाहती "

— मुपाडी धनहपामाची २०-२

As the above usage is not very old I record below a usage of the term "দেলাভিকা" in the Mahdaubháou Marathi work ভাকাৰণাৰ (c. A.D. 1250) মূল ম. বুৰণা খক ২, ed. by H. N. Nene. Napour. 1937 :—

Page 68 — ' मण तेषी सहासंसारीन: चौक रंगमाळीका मरवोलीयाः गुडी उमरिक्षः उपहाराची बाहाँत करविछी: भाषन योडे केळनि साउमे आछे: मानी केळ जानों' "

Page 37 — " मग दीडीचां देहीं बाइंग्लाचेनां परां दीवें देखें:

Saint Rāmadāsa (A.D. 1608-1682) refers to "रंगमाळा" as follows :--

" तुलसीयने (दायने । शुंदर सहे संमार्जने । कोरे रामान्य बासने । याँ याँ या ॥ ॥ "

— मानपुर्वा, Praharana 1 (p. 339 of रामदास-समग्र प्रेय, Poona, 1906).

We have so far recorded the following datable usages from the Marathi literature about Rangoli:

c. A.D. 1273 — '' रोगवडी. ''

c. a.d. 1250 — " रंगमाळी( कि )का."

с. A.D. 1650 — " (ПЯТВЯ." с. A.D. 1750 — " гіліві "

I shall now record the evidence of Sanskrit texts about rāṅgoļi decorations:—

In the Akājabhairavakalpa (MS No. 43 of 1925-26 at the B. O. R. Institute, Poona) which appears to have been composed between A.D. 1400 and 1600 we find the following references to threat rainful:—

We must see at what time the use of such mechanical devices for drawing rddge/l pictures on the floor came loto vogue.

In this passage we get a description of the menner in which Gostvi (Cekradhars,
the founder of the Mahasushian Sect) was received by a devotee. The ground in from
of the house was sprinkled over with water (mixed with cow-dung). This ground was
then decorated with relaye); deswings etc.

<sup>3.</sup> This is a description of the manner in which a Brahman received Cabrachara, In this description also we find (1) Well dealfor (specializing of water mixed with conduct on the ground) and (2) "dealfors" (the deswings of radepil on the ground so prepared). These practices are correct even today in Maharteire on the occasions of fembus and festivation.

Page 391 — Pajala 110— " दुःस्क्रमादिक्य विकास '' — Description of an altar ( वेदि ).

—'' सुविक्षितना कार्रावरका बेदि कृष्वादिक विवे । केपिश्वा गोमयेन रक्काच्या समन्ततः।''

( the ground near the altar was smeared with cow-dung and rangel decorations were drawn on it ).

Page 377 — Patala 108— " नानाश हुनशानितिधानम् " — Description

—'' गोमयेन विकिप्योधी रंगवली विचाय तु ''

Page 316 — Patala 92—" কুম্মানিউভাছন্মছম"— Coronation pavilion decorated with (drawings with) powders of five colours on the ground smeared with water mixed with cow-dung.

—" कार्रायश्वा गोमयेन छेपपिश्वा सवारिणा ।

पंचवर्णस्त्रोभिस्तं अर्छकृत्य तु मण्डपम् ॥ "

Page 292 — Paṭala -85—" नृपामिवेडकतेत्वशक्यपेविका" — Altar in the coronation pavilion.

—" एवं कुंदे वेदिकां च कारिशवा मुस्ताब्यिः। छेपयित्वा गोमयेन रज्ञोभिः पंचवर्णकैः॥ अतंत्रत्य रोधास्तवाभिषेषनिकन्विमा।"

( Powders of five colours to be used for decorating the ground besmeared with cow-dung ).

Page 215—Pajala 66— "কুলাবিশ্বায়-সংবহণতথ্যন্ত্"—This Pajala specifies the forehead-marks ( নিজ্জানি ) and seats ( আলনানি ) for the worship of unmarried girls of different castes (during the Navarātri festival)

Tilahas --

- . (1) बाह्यणी — चतुरस्रतिलक् र्श चन्दन
- (2) स्त्रिया मर्थवन्त्रतिष्टक of कुहुम
- (3) वैद्या कर्षेतिङ्क of दश्दन and अगर (4) ज्ञाता — वर्तेलतिङ्क of इस्तरी and दश्यन
- (५) शुद्धा वतुशतिश्रद्ध श कस्तुरा आयं चर (५) अन्त्यज्ञा — वेडिमण्यतिश्रद्ध श उक्तवाटन

Asanas:— Powdered rice is to be used for marking on the ground different seats for different girls. These asanas are of different patterns:—

- (1) সহ্বর Having eight petals.
- (2) परम Hexangular.
- (3) विक्रोण Triangular.
  - (4) चतुर्वं Having four pemls.
  - (5) चतुरम Quadrangular.

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(6) स्विकाड - Of the form of a Spastika.
     मंद्रकानि — Diagrams.
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— '' अष्टपत्रं पढर्म च त्रिकोणं च चतुर्दछम् । चतरकं स्वतिकांकं क्रमशो मण्डलानि वै ।। क्सवेदासनार्च वै शालितण्डलचुर्णतः। "

Page 157 — Patala 51 — " अजन्तवतस्वरूपक्यनम "

— " मासि माजपदे शक्तवतुर्दश्यां गृहांगणे।

कारविरवा प्रध्यमयं मण्डपं समनोहरम् ॥ बरक्ते क्रोजाधि गोववेन समाविता ।

मंकित्य सर्वतोभाः रंगावन्या विकिस्य त ॥ " Page 60 - Patala 17-" महासान्ति-अङ्ग ग्रहपञ्च स्वरूपकवनम "

— " वेद्यां पश्चिमविग्यागे गोमयेन सवारिका ।

संक्रिप्य समर्थक्रस रंगक्करमा समस्ततः ॥ " Page 55 - Patala 16 - " महासालयक्यास्त होमस्य रूपकथनम "

\_\_ ' गता संबक्षितवातातान्त्यकं वास्तपुजनम् ।

करिया इति संकल्य वेचां वक्षिणमागतः ॥ गोमयेगन्छियोधी रंगवर्डी निधाय च। "

Page 25 - Patala 7 - " Proproces Paras lucas reports"

— " तत्कंड वेदिकां चैव गोमयेनानुष्ठिप्य वै। रंगमान्याविभिः सम्यग्लंब्स्याय मंत्रवितः॥ "

The references to transf recorded above reveal some important aspects of this practice viz. :-

(1) रंगवली is always preceded by गोमबानुष्ठेव' on the ground on which it is drawn.

1. Vide p. 7 of Actrendu of Tryambaka Mête of Sandilyagotra (Anandatrama Sana Series, Paras, 1909) - Here this author (A.D. 1838) quotes the following lines about the importance of गोमयानुकेश्न from the Markendersoperana : — '' मार्क्ष्येयपुराणे—प्रातःकाले क्षियां कार्यं गोमयेनानुकेशनम् ।

सक्तस्वस्तिकां या त कामेबिसां च मेदिनीम ॥ तस्याचीचि विनर्यन्ति वित्तमायुर्वशस्तयः। "

In these lines we are told that after the ground is amound with cow-dung it is absolutely necessary to draw on it the Spatika mark every morning. In the Rangevelli pictures also this mark is generally drawn on all secred occasions

On p. 104 the Andreada prescribes उपल्यान of a स्पृतिहरू (sacrificial ground) -" वर्ष स्थिति प्रत्योपकेयमापि प्रयोग् । तर्म गुद्धे उपक्रिक्तोतिका

बहतेका उदगायता etc. "। उपकरने कारणमुक्तं स्मृतिस्ताकरे पुराणे— "सर्वत्र बहुपा मेच्या सरीमदमकातना ।

प्रश्व पञ्चा भागा राजास्वरणामा । क्य विश्वपुराकात्वरिकेम्बामित् इता ॥ पुरा शको हि स्केत इस् क्ष्मे बहासूस्य । रुत्येश्वा हि निर्मिणा रुपयंत्रुक्वेम्बास्य ॥'' Pago 105 – ''बायानेश्युक्केमाविधिभगद्व रह्मसमा etc.''

- (2) The association of trues with all or sacrificial alter i.e. for decorating the ground round this alter.
- (3) Use of रंगवली for decorating the ground with powders of five colours (पक्षवर्णरज्ञोभिः) at the King's coronation.

Acarendu (A.D. 1/38) of Tryambaka Mate (A. S. S. Poona, 1907) refers to the use of বিভাৰ্থ for drawing Svastika and other marks in temples:—

Page 175 — पारिजाते— ... ... ... ...

" शिलाचूर्जेन यो मध्यों देवतायतने तृप । क्रोति स्वस्तिकादीनि तेषां पुण्यं भिशामय॥ यावरयः कणिका मृमी क्षिता रविक्रुलोज्ञय । तावद्यमसङ्खाणि हरिसाकोक्यमस्तते॥ "

The Parijata also refers to समाजन and उपक्षेपन with गोमय and other materials as follows:—

" देवतायतरे राजन् इत्वा संमार्जनं नरः। यरक्कं समयामेति तम्मे निगदतः मृत् ॥ यावस्यः गोसुक्तिकाः सम्यब्संमाजिता नृत ॥ सावस्यानस्वाति विच्युकोके महीपते ॥ स्वात्मानस्वातीयां वर्णकेर्गोमय्येन या। स्वात्मानस्वातां वर्णकेर्गोमय्येन या।

( विकायूर्ण referred to above may mean सन-शिकायूर्ण i.e. red arsenic powder. It may also mean "stone-powder." At present rängoli powder is prepared from white stone pebbles or quarts.)

In the Vardingacarita (The century A.D.) of Jajāsinhanandi (edited by Dr. A. N. Upadhye, Bombay, 1938) we get a reference to the use of different powders, flowers, and rice for decorating the ground with different designs on the occasion of a balī at night (पार्वका) as will be seen from the following verse 15 of canto XIII (n. 221).

# " चुर्गेश्च पुजैरपि तरबुडैश्च दद्यार्थवर्गेर्बलिक्मेयोग्यैः।

नानारुतीस्तत्र क्लीन्विभेश भूमिमदेशे रवयोवमुदः॥ १५॥"

( समार्थयणैः = of five colours). The use of powders of five colours mentioned in the above verse may be compared to the use of such powders ( प्यान्यर्गायाँ ) for decorating the grounds at the king's coronation mentioned in the Abājabhairanabalba (Patala 92).

 Apardrka (c. A.o. 1100 on Ydjilosolkyasmyri (Anandkirama, Poona, Vol. I, 1903, p. 147, पहुरुपामीपस्थ्य) quotes the following lines from Bandhiyana which refer to उपयेषण of the ground and the drawing of diagrams on it :—

" बीधायनः— उपछिते समे स्थाने शुनी अश्वसमन्दिते। चतुरश्चं त्रिकोणं तु वर्तुलं चार्धचन्द्रस्य ॥ कतिसमानदार्जेण ब्राह्मणादिव मण्डलम् ।" In Vadibhasinha's Gadyacintāmaņi (ed. by T. S. K. Sastri tal S. S. Sastri, Madras, 1902) we find a reference to "प्रमुख्य देखा (drawing with some red powder) on the ground of a dining pavilion (भोजनस्वातास्त्र) as follows:—

In the above passage we get a very colourful picture of a rog dining pavilion, which can be compared with any dining pavilion qualing pavilion, which can be compared with any dining pavilion with the seception of gold dishes and cry common modern marriage and mutija ceremonies are exactly similar to common modern marriage and mutija ceremonies are exactly similar to a coording to the editors this author is later than a thousand parago. According to the editors this author is later than a thousand with the compared to the editors of the Rédemberi etc. He may be even later than Bhoja (c. Ad. 1050)—(see pp. 4–5 of Introduction to Galparintimans). Resignif drawings are clearly referred to by Vidibla. sinha as one of the features of the dining pavilion "narwqwilenfickers."

<sup>1.</sup> I may record here the use of Rásgoli as recorded on pages 821-822 of Vol. XXII (Dharwar) of the Bombay Gazetteer, 1884 (Appendix D) :-

<sup>&</sup>quot;The best Rangell is made by pounding white quarte into pounder. Its colour is white and it may be used either while the Brihmans are in a pure state after bathing or when they have not bathed. In the absence of quarts-ponder rice-flour may be used In addition to the white lines, dets or figures of Fellow, Fed, block, green and blue ponder are also occasionally used. The relion powder is made from turmeric, the red is the ordinary guidl of rice or ragi flow dyed with red sanders, the green is from the ground dried lowers of the Asschynomene grandiflore, the black chargoal, and the blue is india-Every day lines, dots and figures are drawn on the floors of all Brahman houses, three low or fine straight lines, parallel to the walls of rooms and verandes. Cross lines, cirds with does in the centre and elaborate figures are also drawn. On great occasions elaborate motors and figures of men, animals and trees are also drawn. On Nagar-chast of the Cobra's Fourth, that is the bright fourth of Srdean or August-September, Brahmans, in addition to making the usual figures, draw and worship single, double and resisted form of snaker sprinkled in quartz-powder. During the leading days of the Diedli feast the dark 14th and 15th of Asvin or October-November and during the bright half of Kertil or November December, all Hindus set what they call the Pondus five com-dung coun two or three inches highendebout the same round thefoot, outside to the right and left of the thresh-hold, and on the top of the outer house-door. Pound each cow.dung one they draw double or treble white and red lines, set a flower of the humbal (K), curaries hispide gourd on each of the cow-dung cones and throw over all turmeric and rai

03

Before proceeding further with references to Respondil in datable sources I may consider here the observations on the position of the Rasporally pictures in the field of Indian art as made by the extant tests on this aubject. In this connection I cannot do better than quoting below in extenso the remarks of my friend Dr. V. Raghavan from his strict on Some Sanshvii Tests on Painting (Indian Historical Quarterly, Vol. 18, 1933, pp. 889–911):—

Pages 905-905 — "The Abhilajitherhacinidmansi (of King Someévara c. n.p. 1130) gives five varieties of pictures:— শিব্ধ, অধিব, আৰক্ষিত্ৰ, বেশিক and খুলিগাম. Of these the Bhāvacitne stands by itself and is of the greatest importance. It has been explained above that Bhāvacitne is the picture depicting emotion. The Rasacitra and Dhālikiring so together.

The Dhâlicitrs is the Tamil Kolam done with white flour on the floor and in front of our houses. In the month of Mārgalirps, Tamil girls vie with each other in the villages to draw the biggest and the most intricate Kolams in front of their houses and then decorate these Kolams at various points with pumpkin flowers. On more festive occasions, in the houses, temples and Tambalisms (ic. brass plates used in our houses) for Nirājana, these Kolams are done with various coloured powders. These Citras are naturally knot lived. So it is

pender on the marriage-day of Vishus and the Tulri plant that is the evening of the bright realith of Kariko or November-December, and when Lukshmi, the goddess of wealth comes in Sardano or August-September, besides the tusual quarta figures, apped or cow's foot-prints are sprinkled with range, i powder all along the ground from the context thresh-blod of the house to the shrine which has been made ready for the god.

When fram are given into open air, in finne of and on each side of the board on which each pear in li, line and order are flowen in quatter and red product. On which each pear in li, line and order are flowen in quatter and red product. On the partiage and other feative occasions and when relateriments are given, elaborate quatt-point figures are traced. On occasions of death, beared creasesine, yearly mind-site or mind-disears, no quarts lines, data or figures are drawn, except that quartfagures are drawn on nomenon or full-more days. The con-disping of the ground and the depoint of strain features—south features.

The great tracers of quartz-ponder figures forming them simply by letting the product drop from between the thum had dinger are Binham women. No Bithman women during hermonthly sinderse, for three months after child-britt, or when in morning may draw quartificate, Jaine use Rangul like Binhaman and Mendhin use it on a special focusions. Some bott of the Lingdom draw a few liess severy day in their on a special focusions. Some bott of the Lingdom draw a few liess are draw dry for the himself and an article service of the special several day, after such principle lines and more and earth and differ such gives draw from the himself set day of the by them lone. Lingdom also draw oncer two lines of quarta-pointer always the edge of the grave, below in the surface of the second of

that Sri Kumīra (author of the Silparatna) calls them "জ্বাছ্ম" (Kṛṇṇika). Since these are drawn more especially on the floor, Ninda calls this variety of Citra as "খীম" i.e. of the floor. Sri Kumin describes them thus:—

" रतान्यनण्डकांचि क्वंदित्वा प्रयक् प्रथक्। ( य )तेलकीः स्वपिक्ते समे क्षत्रिकानि विलेपयेत् ॥ स्वतीनकार्मितं क्यातं विलक्तीः स्वयत्वीः।"

-Silparatna, XXXVI, Slokas 144, 145.

Rasacitra (स्विकः) is another variety of Kolam. One must not be misled by the word Rasa in स्विकः and take it with आवश्यः. The word two tee means वर्ष (drava) or coloured solution. The Abhilajitärthacinis. mani thus defines it:—

# " सदर्वेर्वर्षेः डेक्टं रुसचित्रं विश्वर्तः। "

This kind of Kolom is also drawn in some Tamil houses. White flow solution and red Kavi-solution are employed and are called in Tamil Menukalous and Keviklolam. The former is drawn in wavy liss. Thus cutter is also a kind of Kolom. While we for powder is employed in white we do (14) or solution is employed in Europe. He Molaw and other coloured designs drawn on the cheeks and bust of damels according to the Kiyayas belong also to this category of "Gen". Therefore it is held by Sri Kumira that like wife "Gen" and fee file. Scaluture lett. the Wife also is not for the walls:

" मुपापविष्ठते मिनी त्रैव कुर्यादिवं सुधीः । रस्तचित्रं तथा धृष्ठोषित्रं चित्रमिति त्रिया ॥" —शिक्सतन ( Śloka 143 )

Thus Painting and half-wishle reliefs, Petrame and wafers are the twa are chosen to the walls. These facts are not taken into consideration by Dr. A. K. Coomarawamy. Consequently he connect (wide p. 8) of Part I of Advantant Mukerjer Comm. Volumb I he times of the First-Advantance with the tuffers of Sri Kumira and says that both are identical. Surely we lake means emotion and emotion in associated with time, from which is derived by him the fifthe type. But when one see the clear definition of tuffer given by Sometizans, from whom 57 Kumba the clear definition of tuffer given by Sometizans, from whom 57 Kumba control and the same of the fact that tuffering another, in the world with the sanother, the world with these measuring TW.

"Chapter 71 of Nāradaiilpa (Adyar MS) is devoted to the decoration of painting, বিমাতক্ষিকেবনারিভিক্তন. Pictures are not only for the

Vide p. 8 of Intro. to Vigou-thermenters (Part III) Trans. by Stella Kramfiich, Calcutta University Press, 1928 — "From the Silpareins......we know that Dhalities, powder-pointing familiar to Bengal Indies as Alignen, was applied as temporary coating of condered colours on a bengalful piece of ground."

joy of the gods and the presiding deities of the buildings, Vistualishus, but also for besuly according to Ulinara. Nirada gives a new kind of classification of pictures, not found in other works, and it is from the point of view of the Places, where the pictures are drawn. Thus he says that pictures are of three kinds—(1) of the floor, (2) of the woll and (3) of the top i.e. ceiling (4)m, saws and webs). These again are classified from another stand-point into two kinds, the permanent and temporary (turwas and ensembras). The latter is the 4m is. the picture of the floor; Kolam, the Dhillicitra and Rausacira of Sometware belong to this class. Nikrada says that this workey is drawn, in front of the floor. Mixed any sinder this workey is drawn, in front of the floor. Birds, maker, elephant, horest are continued to the bed remained. These themes are still drawn in our houses."

Trivikramabhatta (A.D. 915)<sup>2</sup> in his Nalacampū or Damayantikathā (ed. by Shivadatta of Jaipur, Bombay, 1885, p. 140) refers to "सम्बद्धिः" in Ucchaia IV as follows:—

"एवामास्य विध्याज्यां विस्तृपति विश्याः च किंप्युक्तोधिकारियोष्ट्र गतेषु कायुरुकार्यं त्रतिषु 'सत्रुप्योध्यां विस्तृपत्रे प्रपण्डां तेशिकाति, सिप्यनां पर्युक्ताम्योदः रुपयानः, स्वयुद्धपत्त्रं विद्यान्त्रप्रप्रकारित् । साङ्गाति, किंपानां कुत्रुपयकश्चात्रि चाराणि, रूपनां दिस्याने देशाव, विध्यानं रागिति, विध्यानं स्वशाति, विध्यान्याचे विध्यानः, सुष्यानां पश्चित्रोति प्रदारमः । (ति

The Digambar Jain author Somadeva in his celebrated work Yalastilakacampā (A.D. 959) \* refers to" upw8" "as pointed out by Dr. V. Raghavan in his article on "Gleanings from Somadevasūris Yalasatilakacampū" (p. 255 of Journal of Ganganath Jha Research Institute, Allahabad, Vol. I, Part 2, February, 1944). Dr. Raghavan remarks: "

## Page 133 — ''पर्यन्तवाद्यैः संपादिनकुमुमोपहारः श्रव्करक्रावितः (स्ववितः) हव गडापरिसरेव "

This is a reference to the temporary floral designs drawn with white and coloured powder by our women-folk, for decorating the floor and called Rangawalls, Rangoli, Alpana or Kolam (Tamil).

<sup>1.</sup> Prof. C. V. Joshi, Raj Daftardar, Baroda, writes to me on 6-12-1947:— "I have not met with any description of Rádgelf in the Pali tetts. Rádgelf is called Sáñji (di'st) in Gujata. Sáñji Iddf. (di'st) the name of a Deceani family here (at Baroda), whose duty is no afrange Rádgelf in the Palace."

I record my best thanks to Prof. Joshi for the above information. I hope some Gujarati scholar will record all possible information about Sddji from the Gujarati literature, early or late, especially from datable tests.

Vide p. 332 of History of Sanskrit Literature by A. B. Keith, 1928. - Trivikrams is the author of Navsari inscription of Rastrakuja king Indra III of A.D. 915.

Ibid p.\333.

According to the Sanskrit Texts on painting this is called Kansha-Citre and is classified into Dhülicitra (with dry powder) and Rasacine (with colored solution).

Three other references to this Rangawalli on the floor are to be found on pp. 350, 369 and Pt. 11, p. 247 :-

- (a) " क्यक्वें रहस्य रह्वक्षिपराने " (p. 350)
- (b) " अवस्यक्रपुरपरागररिकस्पितरङ्गाविलिविधानस् "
- A description of the court-hall where the white Karpins (Campbor) dust is used for the drawings (p. 369).
  - (c) " बत्ववक्कुळेन रङ्गवसीयवीन् इव बसहमानवा।"

This is a reference to such designs worked permanently by fixing coloured stones on the floor in the queen's apartment.

For a fourth reference see Part II, p. 247:-

" ( क्यूनि परमानक्ष्यवम् " — which speaks of "devising a ground which should set off the design."

Hemacandra (a.D. 1088-1172) in his Delinamanala I, 78' mentious the word "autra", which means Rangolt decoration and occurs in the following line:-

- " आर्प्यनं व पिट्टे स्वयरमञ्जन सुरास्कार् व । "
- Hemacandra explains :-
- "आह्म्पूर्क पिर्ट असके गृहमन्दनार्थ जुवाक्टा व । तन्तुकविष्टकोरं गृहमन्दनम् आह्म्पूर्क (ति सन्दे ।" (vide p. 36 of Delināmamālā— B. O. R. Institute, Poons, 1938). In the Glossory, p. 7 the editor explains आह्म्पूर्व as follows:—
  - " बाहुपर्व i, 78 ज़िल्ह्य , a ground substance:
  - " उत्सवे ग्रह्मकार्य स्वास्ट, White wash.
    - ठंबुक्ति**रक्री**रं गृहसम्बद्धासम्बे <sup>,</sup>'

It is clear from the above reference that in Hemacandra's time the term "anqua" meant some "ground substance" as also "whitewash used for beautifying the bouse on a festive occasion." This term also meant "a solution of a rice-flour used for decorating the house."

I owe this reference to my friend Shri B. C. Deb of Calcutta who writes on 1-12-1947;—

<sup>&</sup>quot;As regards Rategol; "Yes, that is also the precision in Brough, as indeed, I believe comprehens some Ration in Bolis. In Regal it is used on only in fine-relevantion, has also in descripting worder some for briefs and briefs-grown and for bonourced guards as curvantion and month for images in peoples. In Report it is called 1995-199 or WRNTO which carries as back to Hemacondon's Delicatematic, 1, 78, where the word worms any 1999-199. I think the surface in our really dark the a SENT (com. Millery,"

Arhaddisa (c. A.D. 1290) in his Musiuswrate-Kleyu (edited by Pt. K. Bhujabali Sastri and Pt. Harnanth Dvivedi, Arrah, 1929) refers to "grava: '(Rádgolf designa) made of five different jewels and drawn in the court-yard of each house on the occasion of the birth of Jinendra as will be seen from the following verse 23 of canto 1V:—

per 80 — '' wymat significant programs destruction.

विनेण्डजभावस्यावणस्याययोगस्यस्य धन्धितंत्राम् ॥ ११ ॥ "

The commentary on this Kāvya explains this verse as follows:—
" बुषियां ( क्रोक संगाः ) रंगालाम् बाक्यः ( रंगाक्यः) पद्धालैः! इताः भंगानंगांनं प्रति करियताः त्रिनेन्द्रक्यावसरे विनय्वत् नेयः ( रंगोथरः) तस्मात् क्रसं प्रतः तस्य सेवेरं ( विश्वंदा ) चकः।"

(The five-coloured Rāngoļī designs presented the appearance of a rain-bow dropped on the earth by a vanishing cloud on the occasion of the birth of linendra.).

In my search for the history of Räispil designs the earliest reference so far recorded by me is that found in the Variaguearite (The century, A.D.) XXIII., 15, which mentions the use of five-coloured (with the property of the property of

"तण्डुल — कुसुम - बिल विकास इति । सखण्डतण्डुलैः नानावनैः सरस्त्रोभयने कायदेवमयने वा मनिकृदिनेषु मकिविकासः। तथा कुसुमैः नाना-वर्तः प्रायतैः शिवकिकारिद्यार्थं मकिवासः। तत्र प्रयत्नं माल्यययन प्वान्त-नेतृम मकिविकोचेण नामापार्थं करानासः।"

Arhaddiss refers to Addhers in the Munissersta-Köpye, and also in two other works composed by him viz. Pseudere Cemple and Bhooyskapfatharonge. This Addhers was the Cours of Arhaddiss. As the date of Addhers is about Sarives 1300 (m.n.o. 124) we may reasonably conclude that Arhaddiss Storrished about A.D. 1250. (Vide p. & G. Introduction).

<sup>2.</sup> The five colours of Rélayil described by Arhaddits appear to have some nucleons againstance. We have already recorded the references to the design of face-coloured rice proise used in ¶<sup>2</sup>Ne<sup>2</sup><sub>1</sub> as municosed in the V-métapasonie (XXIII. 1) of A.D. it describes you defined on the first coronation of thing's coronation as mentioned in the Abdishbirouchdips (between A.D. 1980 and 1980).

<sup>3.</sup> In foot-note 8 on p. 32 the editor states that the শুলিকাং ( সাকে , শুনিক্টাজি) rada "পানিকিয়াং!" instead of "পানিকিয়াং!" and explains the text as "বিস্কৃতাৰ কুলানি ব বী: বানিকিয়াং! কামুবাৰিকিবং৷ কেন্দ্ৰবাৰিকিবং৷ "Kedarnath adopts the reading "বিচ্ছায়া।" বাসুনালৰে by Yakobars ss "সাক্ষিবিক্টাঃ" (মাজি: = line of decoration).

According to the Sanskrit Texts on painting this is called Kingula-Citra and is classified into Dhülicitra (with dry powder) and Rasacina (with coloured solution).

Three other references to this Rangavalli on the floor are to be found on pp. 350, 369 and Pt. II. p. 247 :-

- (a) " वकारुकें दक्षत्व रक्षतिहरूवानेषु " (p. 350)
- (b) " अवस्यकर्षरपरागपरिकस्पितरकाविकविधानस "
- A description of the court-hall where the white Karpins (Camphor) dust is used for the drawings (p. 369).
  - ( c ) " वायनसम्फुरिकेन रङ्गायतीमनीन् इव बसहमानया । "

This is a reference to such designs worked permanently by fixing coloured stones on the floor in the queen's apartment.

For a fourth reference see Part II, p. 247 :-

" रङ्गक्लीचु परमागक्सनम् "— which speaks of "devising a ground which should set off the design."

Hemacandra (a.p. 1088-1172) in his Desināmamālā I, 78 mentions the word "migrat", which means Rāngoļi decoration and occurs in the following line:—

" आर्प्यचं च विट्टे स्मध्यम्बन प्रशासकार् थ । "

Hemacandra explains :-

"आर्ष्यकं विदे शसने गृहमण्यनार्थं सुधाक्या च । अनुरुविश्ववीरं गृहमण्यन् आर्ष्यकं इति कच्चे।" (vide p. 36 of *Delināmamālā*— B. O. R. Institute, Poona, 1938). In the *Glossary*, p. 7 the editor explains आर्ष्यकं as follows:—

- " बाह्य्यक j. 78 विख्य . a ground substance:
- " उत्सवे गृहमण्डनायं सुचाछ्या, White wash.

# तंबुरुपिरझीरं गृहमण्डनशियम्ये ''

It is clear from the above reference that in Hemacandra's time the term " जाइण्या" meant some "ground substance" as also "whitewals used for beautifying the house on a festive occasion." This term also meant "a solution of a rice-flour used for decorating the house."

I owe this reference to my friend Shri B. C. Dob of Calcutta who writes on 1-12-1947:—

Arhaddāsa (c. A.o. 1250)\* in his Musitewrata-Kārya (edited by Pt. K. Bhujabali Sastri and Pt. Haranath Dvivedi, Arrah, 1929) refers to "tgrava:" (Rādīgolī designa) made of five different jewels and drawn in the court-yard of each house on the occasion of the birth of Jinendra as will be seen from the following verse 25 of canto IV:

Poge 80 — " प्रत्यक्रण कांध्यतपं चरत्नरं गालयञ्चकुरनेकर्मगाः ।

#### विमेन्द्रजन्मानम् । प्रवाहयाययो प्राप्तानः धनर्षिशंकामः ॥ २३ ॥ "

The commentary on this Kāvya explains this verse as follows:—
" बुबिचा ( अवेक संगाः ) रंगावाम् आवधः ( रंगावयः) पद्मारतैः" हताः भंगतमंगंभ प्रति कप्तिताः तिनेन्द्रतन्यास्तरे विनव्यत् मेषः ( ययोषरः) तस्मात् स्वसं पदः तस्य स्त्रेष्ट ( विषांच्यं) चकः।"

(The five-coloured Rangoli designs presented the appearance of a rain-bow dropped on the earth by a vanishing cloud on the occasion of the birth of linendra.)

In my search for the history of Räisejil designs the earliest reference so far recorded by me is that found in the Veräigearaite (Thi century, A.D.) XXIII, 15, which mentions the use of five-coloured (with the property of the transport of the transport (with a grant of the transport of the tran

"तण्डुल — कुमुम - पलि पिकारा इति । सल्पन्दतपडुलैः नानावनैः सरस्तीभयने कायदेवयनने वा मनिकृदिनेतु मकिविकाराः । तथा कुमुमैः नामा-वनैः प्रवितैः शिवविकारियुवार्यं मिकिवाराः । तत्र प्रयनं मारवसयन पृदान्त-नेतम प्रकितिकोल व्यवस्थापनं स्थानस्त्रस्थ

Arhaddiss refers to Addhars in the Muniswersta-Kdoyo, and also in two other works composed by him viz. Funders Campi and Bhosyskeyfeldharene. This Addhars was the Guru of Arhaddiss. As the date of Addhars is about Satirest 1300 (m.n.). 1249) we may reasonably conclude that Arhaddiss Storished about A.D. 1250. (Vide. n. Sof. Introduction).

<sup>2.</sup> The five colours of Réapil described by Athabdas appear to have some suppliess significance. We have already recorded the references to the designs of functionaries prior used in vivile as mentioned in the Fundament (EXXIII. 19) of a A. T. the centry and the designs of five-notionarie powers, (dwwrfollife); on the occasion of king's coronazion as mentioned in the Abhlightieroschalps (between A., 1900 and 1904).

<sup>3.</sup> In foot.note 8 on p. 32 the editor states that the ছণ্টিছাং ( মাংচং পুলিত্যারি )
rads "বালিবিছাং!" instead of "বলিবিছাং!" and explains the text se "বস্তুজাত্ত
কুলানি ব বী: বালিবিছাং! কাম্পানিবিছাংবন!"—Kedarnath adopts the reading "বভি.
বিছাং!" esplained by Yaiothara se "মাণ্ডাবিছাং!" (মাণ্ড: ≡ line of decoration).

According to Yasodhara the art mentioned by Vätsyäyana consisted of floor-decorations with rice-grains of many colours in the temple of Sarawatt (the goddess of learning and arts—"treated a unrease the goddess of learning and arts—"treated a unrease the goddess of learning and arts—"treated a unrease of the goddess of learning and arts—"treated a unrease of the goddess of learning and the designs made with many-coloured flowers for the worship of Siraulisiae.

Inview of Yadodars' sexplanation of "waymsquwthrestti" records above I am inclined to think that the origin of our present-day practic of drawing Rategolf designs lies in one of the 64 arts mentioned by Yatsyiyana, though later this art became more elaborate and complicated according to the artistic genius of the people of the different provinces of India. The religious association of this art has also been made clear by Yatodhara by his statement that the designs under reference were drawn on the floors of the temples of Saramott or Kanadana or in connection with the worshin of Siculiaina.

The evidence about the history of Rāngoļī which I have collected from varied sources may now be tabulated chronologically as follows:-

Chronology.	Reference.		
A.D. 50-400	The Kâmasútra mentions "तण्डुल-इसुम-विविधाराः" ॥ one of the 64 arts.		
A.D. 600-700	Varingacarita refers to various drawings drawn on the floor by using five-coloured powders, rice-		
	grains, flowers, on the occasion of रात्रिवार्छ,		

A.D. 915 ... Trivikramabhatha in his Nalacampu refers to "trivikramabhatha in his Nalacampu refers to sion (marriage ceremony).

a.D. 959 ... Somadeva in his Yatastilakacampā refera to আবর্থা or আয়াবলী of camphor-dust, jewels etc. fou times.

after A.D. 1050 ... Vådibhasinha in his *Gadyacintāmaņi* mention: "মঞ্চন্দীয়া" drawn on the grounds in a dining pavilion.

A.D. 1088-1172 ... Hemacandra in the Definamamālā m entions "बाह्यव" and explains it as '' तेत्रकपिष्टलीर गृहर्वष्टनस् ''

c. A.D. 1100 ... Aparārka quotes খীখাখন, who prescribes ব্যক্তন of ground followed by drawings of geometrical figures on it like circles etc.

A.D. 1130 ... Someśwara in his Mānasollāsa refers to মুভিংকা and
ক্ষোত্মৰ which are identical with স্কৰ্মছা drawing
with powders or liquid solution.

after A.D. 1130 ... Sri Kumira in his Silparatna also mentions प्रिकृत

Chronology	Reference		
c. a.d. 1250 .	. Munisuorata-Kātya of Arhaddīsa describes Rāngoļī drawings of jewels of five colours, which looked like a rain-bow. These drawings are called "agrava"."		

- c. A.D. 1250 ... Liļācaritra mentions "स्पनाकिका" and "स्वासंमार्जन." c. A.D. 1273 ... Bhāskarabhat mentions "संपनको" in his Silupāla-
- A.D. 1400-1650 ... Pārijāta prescribes the drawings of হৰমৈছ etc. with বিজ্ঞান্ত (powder of quartz) in a temple.
- A.D. 1400-1600 ... Akāiabhairavahalpa mentions रक्ष्यती drawings many
- times in different religious ceremonies. A.D. 1608-1692 ... Saint Rāmadāsa mentions ''सहे संगार्वने'' and ''रंगमाळा''
- in his Mānasapājā. A.D. 1729–1794 ... The Marathi poet Moropant mentions ''रांगोकी'' in his Virātabarva.
- A.D. 1838 ... Tryambakbhatta Māţe in his Acdrendu quotes

  Mārkoņderpapurāņa, which prescribes গাঁমবাইটাবে

  of ground followed by the drawing of exferts

  figures on it. He also quotes the Smṛṭṣṭatakara,
- which prescribes उपलेख of ground.

  A.D. 1884 ... Note on Ranpoli in the Bombay Gazetteer.

I believe, the fore-going evidence shows conclusively the history of our Rädigel art for about 2,000 years. This history can be taken back easily by at least 500 years as we are warranted in presuming that this art mentioned by the Kömaziffra as "mentioned resource as a recognized at hundreds of years before the time of the Kömaziffra and was, therefore, mentioned among the 64 stat by its author, Vitsyshop.

As the Rdigolf art has a continuity in Indian domestic and religious life for more than 2000 years, I may record here the reports of some friends who have taken great interest in this problem and sent me the available information regarding the Rdigolf art as practised at the places where they are living to-day. These reports are as follows:—

- Rängoft at Bikaner My friend Srl K. M. K. Sarma, M. O. L., Curator, Anup Sanskrit Library, Bikaner, writes on 23-12-1947 as follows:
- "As regards Rangolt in Biltaner, my colleague Pandit Ghan Shyam Goswami has gathered the following information:—
- (1) On the 4th marriage day the Goswami Brahmans perform the Nagreallt ceremony. For this, Sarvatobhadra with four elephants on four sides is drawn in various colours,—(elephants—one in coloured.)

- rics, the other in wheat floor—these two opposite to each other—and the remaining two in salt and swear respectively).
- (2) On birth-days it is customary for women to draw Rāngoļis on Thalis in the Arat.
- (3) On the 6th day of a son's birth, the Kuladevată is drawn in Răngoli of auspicious colours (yellow and red) on the wall.
- (4) On the Nagapanacami day, the seven serpents are drawn in Rangoli of Haldi etc. by women.
- (5) On the day of Tulasi Vrata, women draw Răngoli in front of Tulasi
- (6) On Śrācana Śukla Pūrņimā the Rāngoļis of Śrācana Kumāra carrying bis parents in a Kācad are drawn (on both sides of the main entrance) by women."
- (II) Răngoli in North Malabar-Mr. K. M. K. Sarma in his letter referred to above writes :-
- "Raisoft is drawn every day in the court-yard in the month of Sinha in North Malabar, particularly if Kṛṇappāṭu (Bhāgewata) is being rand. It is a practice there to read Rāmajuṇa in the month of Karhata and Kṛṇappāṭu in Sinha. The Rāngoli is adorned with certain linds of Bowers. Rāisogio no door-steps are usually drawn in South Kanaru also after wash with water and besmearing with cow-dung on ausoicious occasions."
- (III) Sri Gajapathy Rai Varma writes from Tadepalligudem (South India) on 3-12-47:—
- "I am glad to learn that you are writing a paper on Rangoli or Rangacalli. In Telugu-speaking areas (Andhra) it is commonly called "Muggulu and Mruggulu respectively. In the districts on the East coast it is common among the people of all castes to lay Muggulu on their threshold after cleaning them and after sprinkling on them water mixed with cow-dung. But in Telingana people use Muggulu on every Friday and Saturday, as also on auspicious days and festive occasions. During the worship of gods and during festivals they use coloured Muggulu but the common stuff used for this purpose is the white powder of the lime from shells. I think this is quite a sanitary practice as lime-powder is a germicide. Lime powder is used daily for Rangolf drawings but during festively. marriages, and other auspicious occasions rice-powder is used. The Sankranthi (Mahara-Sankramanom) festival is the chief among festivals famous for Museulu dezions. It falls in the first fortnight of Japuary. During this festival women, including young girls, begin drawing various kinds of designs with white rice-ponder etc. on the thresholds of their houses from a day, fifteen days previous to Sankranthi, in the early hours of morning. In their zeal to excel others in drawing the

Muggulu designs some of the women and girls commence their labours in this direction as early as 4 a.m. They bring cow-dung, from which they make some balls, which are kept in the midst of Museulu. These balls are then decked with flour. The balls so decked are called Gobbi. Every day fresh Gobbis are made and the old Gobbis are turned into small cakes with a hole in the centre of each. These small cakes are then made into a garland. Sometimes pieces of copra are inserted between dung-cakes in the garland. After drying such garlands throughout the 14 days they are burnt on the Bhoei (called Poneal by Tamils) day i.e. a day previous to Sankranthi. (A day preceding any festival is called Rhogi). The bon-fire of cakes generally commences at midnight. The children commence this bon-fire from the carly hours of the morning. Before burning these garlands of cakes, some children wear them on their necks. On the day following the Sankranthi the women (mostly girls and young women, who show great interest in Museulu and who even bet with each other in drawing the latest Muggulu designs etc.) begin at dawn the drawing of an unbroken line of Muggu (single line) from their house to the end of the street or some spot at a distance at about 200 yards. Sometimes the Muggu line extends to several furlongs. One girl takes the Muggu line from her house to that of her neighbour and the neighbour in her turn takes it further to her neighbour and so on.

Locally in these districts I find that the special Muggulu drawn on the Sashirathis occasion are in honour of the Sashirathi Purupa. People are afraid of this Purupa as he is of a malevolent character. To avoid his wath the Muggulu are drawn. Some people depict his birth, bringing up and death also in these Muggulu. But it seems that the Sashirathis Purupa mentioned above is none but king Bali, who is the legendary virtuous king, the ruler of Rasispana, sent or Paisla by Visyon in the Visman incarnation. The people say that he was the king of the South Indian people or people of the country and that they draw these Muggulu designs in his honour.

Some books contain references to Muggulu with various colourand practices stones drawn on the occasions of marriages of great task persons, kings and gods etc. Muggulu drawings are found on the wills persons, kings and gods etc. Muggulu drawings are found on the will shall sare first white-washed and then the Muggulu designs are drawn on them. Similar designs are drawn on the floors as well."

In a subsequent letter dated 11-12-1947 Mr. Varma sent to me the following additional information about Museulu:—

"Here almost all the non-Brahmin castes including Perikes worship earthen pots painted with multi-coloured lines, dots, designs etc. on them. These pots are called Ariveni and much sanctity is observed with regard to them. Red Muggula drawings are drawn in these parts by Täntrike or magicians, who give some talisman or threads to drive away evil spirita. In the worship of benevolent and good deities also multi-coloused Muggula are drawn by women but in the Täntrik worship they are drawn by men.

For all indoor purposes Maggala of white and other colours are drawn, while for out-door purposes only powder of shells is used, there are also certain instruments used for drawing Maggala design and decorations. Rice-powder (for indoor use) or shell powder (for outdoor use) is put into these instruments, which are then dragged or the floor producing Maggala designs and decorations. Sometime Maggala designs are drawn on the doors and door-sides with Kensham (red colour and Parapa turmeric) often mixed with gum or some decolours. The designs on the doors consist of horizontal stripes, dots, circles, annular factors. You state acts.

The bridal couple of the Perik caste worthips after marriage the Arinemi (earthen pots) smeared with white, red and yellow colours in various designs. During the Dipävali festival small carthen pots called Gurigi (plural Gurigidu) are used by Perik women. In these pot shey put some estables and place them before the goddess Lakşmi is also other goddesses. These estables are then distributed among women guests. These Gurigidu pots are painted like the Arinemi pots but these paintings are not so colourful and attractive as those on the Arinemi pots."

The importance of the Muggulu designs in the Tamil country was further vouched by Mr. Varma by a small booklet containing numerous Muggulu drawings depicting such objects as the following:—

Stemer, Cradle, Eagle, Rose-mater vessel, Fine-spipe, Flowering tree, As ea octopus, Bette leaves plate, Bens creeper, Sofa, bridal sea, Threshold, Puspalawimian, Lotus shaped umbrella, Sun-flower, Child cot, Wedding alary, Wedding threshold, Woman's upper arm ornament, Mandap, Elephant, Fish, Parrot's cage, Mirror with frame, Flower ball, Water pot, Chair, Pearl necklace, Light Tulasi, Sweets packet, Sandal paste pot, Palanquin, Parrot, Charix with wheel Sea.

The history of the set of Räigoli as briefly sketched in this paper, is enchanting compde specially for the students of Indian culture. The present condition of this set in different parts of India needs to be studed carefully. I hope, therefore, that the readers of this strike will report to me all possible information about this art as practised in different parts of the country.

### 12. THE ROLE OF THE COURTEZAN IN THE EARLY HISTORY OF INDIAN PAINTING\*

The Manasollain' of the Western Cillskya King Someśwara' is a veritable encyclopactia of Indian Culture and afords useful materials pertaining to different arts and sciences as known about A.D. 1100. It contains accordingly some material regarding painters and painting and the technique of the painter's art etc. It describes the painters in the following verses:—

" प्राविभागिकीस्त्रीः स्ट्सिरेसाविकारदैः । विधितिमांजकुरासिः पत्रकेसनकोविदैः ॥ १६० ॥ वर्णप्रावद्येश्व वीरणे च हृतप्रमैः । विक्रकेटेस्वयेष्टित्रं नानाससम्बद्धम् ॥ १३३ ॥ " <sup>3</sup>

The above verses refer to male painters only, who were of the professional type and who were employed for decorating the walls of the king's palace. \* Elsewhere\* in the elucidation of Citravidya Someévara deals with the characteristics and types of pictures as follows:—

" कसङ्ख्यात।ति सःवाति " शक्यते नैव मापितुम् ॥ ८१९ ॥ तत्तकृपानुसारेण लेखनीयानि कोचित्रैः । मार्च्या कित्यते यत्त् इपंगे प्रतिविम्बवत् "॥ ९०० ॥

- . Annals ( B. O. R. Institute ), Vol. XXII, pp. 24-37
- 1. G. O. Series, Baroda, No. LXXXIV, Vol. II, 1939, ed. by G. K. Shrigondekar.
- Someivara or Dhalokamalla ruled from A.D. 116 to 1127. He devoted his
  entire attention to song and dance. He has devoted 2500 verses to music. (Vide
  pp. 833-834 of Classical Sanshitz Literature by Krishnamachatire, Madras, 1977). He
  has devoted about 775 verses to the description of tre (NAMU) (pp. 13 to 79 and verses
  110 no 905 of Vol. 11 of Managealilar).
  - 3. Ibid. p. 73.
  - 4. Ibid. p. 79-
    - '' चित्रं तक्षणसंयुक्तं तेस्रायता महीपतिः।

प्रासिद् द्विरे तुष्टे श्रीवर्णकलवान्ति ॥ ९०६ ॥ "
Percy Brown (p. 19 of Indian Painting, Heritage of India Socies) observes —"In

- Sanskrit and other literatures there are references to the secular aspect of the art, with the further information that it was in wall-painting that these ancient settists largely excelled.
  - 5. Manasolidas, II, pp. 28-79.
    6. In the previous verses directions for the painting of horses ( হববিস ) verses
- 356-873 and elephons (নসবিস) verses 874-898 are laid down by Somesivars.

  This reminds me of the art maxim Held the mirrer up to Nature. Compare the following remarks on Ajanta paintings by Griffith quoted by Vincent Smith (p. 106 of Histery of Fire Art in I held and Crylen, Noford, 1930). "Here we have art with life in it, human faces full of expression, limbo draws with grace and action, Sowers which

र्शालकं दिव्योगनापूर्णिकवर्णस्य त्रुपाः। बार्मालकं विकामीति वर्रदुरितः क्लिये। १०।॥ बार्मालमार्थनं शर्ष्णिद्विति वर्ष्णापः। बार्माणमार्थनं शर्षण्यद्वितः मानते।। १०१। बार्माण्यं त्रुपालकं क्लियुक्तस्य । बार्माण्यं त्रुपालकं क्लियुक्तस्य । बुद्धमार्थनं वर्षाण्यां वर्षण्याः।। १०१॥ बार्माणमार्थनं वर्षाण्यां।। १०१॥। १०१॥ वर्षाणमार्थनं वर्षणस्याग्यास्य ।

From Someśwara's treatment of the Citravidyā we do not gather any data which might enable us to visualize the Indian painter whose personality remains, therefore, intangible and vague in spite of references to nainters and nainting in Sanskrit literature.

In view of the paucity of data about the personality of the India painter we must make an effort to gather data which might enable us to paint his personality in words, if not in colours and the present paper is one such attempt dealing with the role of the ganika or the courteast in the early history of India maintine.

bloom, birds which soar, and beasts that spring, or fight, or patiently carry burdens; all are taken from Nature's book growing after her nattern etc."

Reference to the picture of the heroine drawn by the hero is found in the drams

" विवासंबिद्देवेवं संबद्धेः स्वापिता पुरः। दश्या दश्या किसाम्येनां यदि तत्कोऽत्र विस्मयः॥''

- This is a reference in picture drawn by imagination.

  1. Vide Jambse Paleaing by Brown, p. 5—"The painer whether Bodd hist, Rajont or Mogul malts through the pages of history a super, indefinite, clusive being. Only his pictures remains to prove that have as will: character, absorbed in his work. In these preductions a certain personality indiscernible but of an abstract nature difficult to focus as an extend individual metalous to his err.
- Bega (a.o. 500) has given us a list of his companions which includes a pointer (বিস্কৃত্য) of the same গীংখনা and men said women of varied professions (lak নামুক্ষাৰত, বুলজ্ঞাবন্দ্ৰ, মার্লাছ, মান্দ্ৰবিশ্বান, গ্লাহিতা, আহিত, নাল্ডী, যাস্ত্ৰমা, বিশ্ব, নালমান্দ্ৰ, মাত্ৰাক্ষবি, ক্ৰকত, etc.). (Vide p. 3 of P. V. Kanc's Intro. to Harsenia, 1918).
- 3. Vide p. 430 of Early Kinney of Janks by V. A. Smith, Oxford, 1914. The large spelinging in owe No. 1 at Apine shich represent better fler Persian embersy to Politability. In an 2, 032-26 is of the highest values as a landmark in the history of att. It shall have been suited by which the desired of other patients or Ajanty can be judged, and the persian of the persiant of the persian of the persiant of the persiant

Dimodaragupta, the minister of the Kashmir king Jayfojda<sup>1</sup> in his remarks on the character of courteans states \*that they practise the art of painting (dlebhya) for advertisement only and not for diversion (einded), i.e. as pursuit or occupation. If this statement is correct it indicates that about a.D. 750 the art of painting was practised by courteans as a means for making their trade more attractive to people. It is, however, certain that at this time painting was practised by the courteans, a fact whice contrasts with the modern accomplishments of the courteans which include only singing and dancing (Samigite and Atypa). It is, therefore, necessary to examine if there is evidence to

Pulaktin I at Vitipi (Budami) about A.D. 550 was on the decline during the reign of Childrys Bibliokamili Someigrars of Kalypa (A.D. 1132-36) it is possible to suggest that the Citrosolyd or theart of painting to which Someigrar devote: 775 verse in his Massallias was a product of the Childrys art tradition which produced the Ajanta freeso of the time of Calulays Pulaktarin II (7th century).

Though all human pictures require materials of painting and good painters, the matter attist of this Universe requires none in his production of the cosmos as stated to the Responsed Marco by Ingansiths Panditative.

'निस्वादानसंमारमधिकारेव तन्तते । जगरिकदं नमस्तासी कलान्धाचाय शक्ति ॥...विशस्य व केन्द्रस्थोगादानानां मधीवृदितालादिनामाधारस्य भित्यदिवामावे केवलाकारो आगार्थवोत्तरिर संस्थाताला

1. Vide p. 372 of Smith's Early History etc. He was the grandson of Muktapida

2. Vide p. 59 of Kuffanlmata (Kävyemälä, 1887).

" वालां जयनावरणं परकोतुकन्दये न तु तृपया । जञ्जलत्वेपारकः। कामिजनाकस्ये न त स्थितवे ॥ ३०५ ॥

व्यन्यतवसार्यना कामजनाष्ट्रस्य न तु स्थतय ॥ ३० मांसरसाभ्यवहारः प्रस्वाहतिपीडया न त स्प्रहया ।

आहेह्यादी व्यसनं वैदरुपक्यातये न त विनोहाय ॥ ३०६ ॥ "

Amarakola (III. 3, 178) refers to आलेख्य ( आलेख्या वर्षयो वित्रम ).

In a Puragic Kāvya of 7th century called Vardágocarita ed. by Dr. A. N. Upadhye (1938) p. 218 we find reference to wall-paintings of a 학교인은—
Chapter XXII—

" द्वारोपशिष्टा स्मतातया श्रीः उपान्तयोः किन्नरभतयक्षाः ।

तीर्थेकराणां इतिचक्तिणां च भिरवन्तरेष्वातिक्षितं पुराणम् ॥ ६९ ॥ "
Then on p. 177 (Chap. XIX — मनोरमामतिषिभ्रम ) a पुंची well-versed in विश्वकता is

" कथिद्वरं चित्रकलाविद्या तिलेख पुंचीनृश्तेः शितायाम् । अनेत्य चित्रस्थमतीन विद्धं तददर्तमतं च विचित्रसन्याः ॥ ४४ ॥ "

" अन्यार्पसंग्रंडन नेपिताष्ट्री इस्तद्वयेन प्रममर्ग वित्रम् ।

सबी च तदीस्थ जगद वसर्थ फिलं फिनेतहर में निश्चशाधिक।। "
The Naisadekires VI. 64 refers to the female companion of the heroine as expert in painting सिपी पु निर्वाहक सिपी पा निष्कर्भीय सिपार्थ के सि

assume that pointing was practised by the courtezans before the bluentury of the Christian Ers and for this purpose I shall record in the paper some references which go to prove that painting was associated with the daily life of the courtezans in the early history of Iodian maintine.

In the literary evidence referred to by Vincent Smith' regarding the history of pictorial art in India no reference is found to wome painters. He only tries to prove "the early and continuous practice" of the painter's art in both India and Ceylon but says nothing about the personality of the Indian painter, much less of the woman painter.

In the Kéhmatitro di Vitsvijana which accivrding to Dr. A.B. Keith was composed about 500 A.D. or according to Bhandarks c. A.D. 100, mention is made of the 64 arts (Kalds) which are continuously or the Kéhmatiro. These arts include Alebhya or painting. A prostitute (cetyd) well versed in these 64 arts is said to be respected in society was also at the royal court. \* Vitsyijana

- 1. Vide pp. 92-93 of History of Fine Art in India and Ceylon, Oxford, 1930. Some
  - (1) There are references to pictorial art in Pali Buddhist Canon (B.C. 3rd or 40 century)-Pleasure-house of kings painted with figures etc.
  - (2) Randyoga refers to painted halls.
  - (3) Allusions to portraits in the drames of Kalidase and his successors.
  - (4) The Ceylonese Chronicle Mahdemias (circs 5th century A.D.) refers to munipaintings on a relic chamber constructed about a.c. 150,
  - (5) Chinese pilgrims (5th, 6th and 7th centuries) notice several examples of Ruddhist pictures.
  - (6) Taranath, the Tibetan historian of the beginning of the 17th century ascribes the most ancient pictures to gods.
    2. Bane c. AD. 60 in his Kadambert (P. V. Kane. 1920) refers to the puranic story
- of pictures drawn by वित्रतेसा, the friend of उपा who was in love with अभिन्द:-P. 61 — "वित्रतेसार्धितविचित्रसङ्गीभूवनाकारम्" (Vide विष्णुपराण (V, 32, 20).
  - P. 10 " कवापीव:...विश्वहर्भनि...हताविरंगेष पर कीशतमवाप."
  - P. 59 " विश्वप्रतन्ते भूमिपासपतिविज्यमावध्नता."
  - 3. Vide p. 469 of Sambrit Literature, 1928.
  - Vide p. 32 of Kanasiwa (ed. by Pt. Kedamath, N. S. Press, Pombay, 1900) –
     "নীর, বার্য, দুন্তা, আইছার"
     ....রেন বর্ত্ত্রবাহিত্ত্ববিদ্ধান জনসংখ্যবাদ্ধানন ।। "

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5. Ibid p. 41-42-
" बाभिरे-धुन्क्ता वेद्दवा वीतस्तरुणान्विता ।
रुभते गांकबागर्वः स्थानं च उनसंसदि ॥
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पुत्रिता व स्टा राज्ञा गुण्यदिख संस्तृता । प्रार्वनीयाभिगम्या व तक्ष्यभूता व जायते ॥""

The commentator Yafedhara explains-

" इताप्ररणे फतमाइ माभिरिति । इताभिरभ्युन्त्रिता जातोत्हर्षा " etc.

 The Greek hetaras or prostitutes were "the most gifted and brilliant member of their class known to history" and "wielded great and open influence" (vide p. 5%, of Encl. Brit. Vol. XVIII, 14th edu.). prescribes the art of painting also for the nāgaraha (the elegant). We find accordingly citraphalaha and vartikāsamudgaka mentioned as the accessories of his drawing room.

The accomplishments of the courtezan as prescribed by the Kāmasūtra may be favourably compared with those of the courtezans at the Vijayanagara court of the 16th century. In the account<sup>2</sup> of these courtezans given by Prof. Venkstaramanayya no reference to the art of painting as pursued by these courtezans could be noticed, though pictures representing love-stories from the puragara were painted on the walls of their norms. A courtezan was required to be verecomplished in several fields to capture men of wealth and distinction as stated by a contemporary author; but in these accomplishments I find no reference to the art of saintine.

In the Daiakumāracarita ascribed to Dandin who belongs to the 6th Century A.D. according to Prof. P. V. Kane we find the art of

<sup>1.</sup> Kamaiara, p. 45— "बाड़ो च वास रहे...चित्रफलकम् । वर्तिकासमुद्रकः । ecc." Yaéo. dhara explains "चित्रफलकमालेक्यार्यम् । वर्तिकासमुद्रकः चित्रकर्मीपयोगी."

Vide pp. 401-406 of Third Dynasty of Vijayanagara (A.D. 1530-1543), Madras, 1935.

Ibid p. 402—The courterans were regarded as a respectable community— Women of any community joined the courtezan class—They were taught (1) Reading and writing, (2) Sanskrit and vertacular literature, (3) Singing, (4) Dancing. The education imparted to them was such as developed in them a sex instinct at a very early age.

Vide alcothe remarks on Vijsynnegar countenans in Dr. B. A. Salctore's Secial and Political Life in Vijsynnegar Empire, Vol. II. (1994), pp. 165-172. In these detailed remarks also I have failed to noticeany reference to the pursuited the art of pointing by the Vijsynnegar counterans thoughtheir proficiency inother arts is rouched for by contemporary evidence,

<sup>4.</sup> Ibid, p. 603—"According to a contemporary suther (Kazeludair Rudin Karia in Nirashair galabapaa 180) the meat successful countrees had to employ several arts in keeping her lower firmly mored. If he were a gebalar, she discoursed with him upon beauty of the classic; if he had no taste for learning, she ange meloisously; on ocasions when song did not please him she enterstained him by playing upon the ofeld; when that did not arouse his internal the played dice with him; and when dice created to have attraction, she engaged him is witty conversation; for above as Internal stollar, after gandler and a brilliant conventionalist"—"Provintation was a regarded as the lareful profession of the community and no Banne was attached to it so far as the lareful profession of the community and no Banne was attached to it so far as the class of the contraction of the community and no Banne was attached to it so far as the class of the class were concerned. On the contrary they were highly expected."

<sup>5.</sup> Vide Introduction to Schityadorpana, 1923, p. xli.

painting associated with the courtegans in the manner prescribed by the Kamasutra of Vätsyäyana.

In the drama Myczakaujska we find a description of a genilating or the house of a courteran which is styled as APCAPPP and in which genilate are described as moving about with picture-boards in their hands. These picture-boards (citrophalakau) are described as bememed with varied colours. This description clearly proves the association of the art of painting with genilate at the time? of the composition of the drams. The question one arises: When and why the art of painting crased to be associated with the accomplishments of the courtean, if this estimates during the early centuries of the Christian en was a necessary concomitance of the life of the courtezan? I this question must be left to the experts in the ancient and mediseral

<sup>1.</sup> Vide p. 39 o. Dalakandra Caritan, Bombey, 1883.

Ucchodsa 11-

<sup>&</sup>quot;एवं वे परिवासन्: वर्षकाः वर् ...क्यानमानशिकानं ताहानं, नृत्यीतवायनाः विकासमान्युक्ताः विभागन्य कार्यास्य (१८००) विभागन्य स्ट. (१८०००) विभागन्य स्ट. (१८०००) विभागन्य स्ट. (१८००००) विभागन्य स्ट. (१८००००००) विभागन्य स्ट

See the graphic description of the preparations of a marriage in a royal family given by Bapa in his Harpatoriae (Uchydus IV) where we find women, clever in painting and drawing figures decorating polished jars and groups of raw clay ware:

""4247-41h: 2247-4248-2258-41h; Sealing unformationalization and the sealing and the sealing uniform the

क्तीभिः " (Vide p., 70 of Kace's Edn. 1918—Hartacarita I-IV) शालाजिर = शराव

<sup>2.</sup> Vide p. 102 of Mechakatiks, ed. by H. M. Serms, N. S. Press, Bombay, 1910—Act IV:—

<sup>&</sup>quot; इमे चारी मदनसंधिविषद्वपुरः विविधवर्षिकासिष्यवस्कान्नाद्वाः इस्स्ततः परिभ्रमनि गणिकाः वृद्यविद्यत्व " "The expression " सदनसंधिविषद्यः" is explained as "skilled in bringing about peace or discord in love affairs".

<sup>3.</sup> Dr. V. G. Parasjpe in his Intro, to his edition of the Mycchakajika (1937, Poons, p. zvii), states that this drame is a work of the 2nd or 3rd century s.D. The following views of scholars have been referred to by H. M. Sarma on pp. iv to vi of his Intro. In his addition of 1910:—

<sup>(1)</sup> Weber-2nd century a.c., (2) Wilson-of respectable antiquity.

(3) Monier Williams-1st century A.D. (4) Lause-150 A.D.

Krishnamachariar (Classi, Saus, Lit. 1937), p. 575 f.n. 2 moords the varied views of acholars re, the date of the Mycchohajika:—
(5) Fraguesa—31 ac., (6) Willord—1st and 3rd cent, B.c.

<sup>(7)</sup> Princep-21 B.C. (8) Regnand - about 250 A.D.
(9) Pinchel and Macdonell-- (th contury A.D.

<sup>(10)</sup> K. C. Mehandels— middle of the 6th century A.D. (11) 7. C. Ghatah— c. 3rd century B.C.

history of Indian Culture. Let us now proceed to the other references to diskshy on prainting associated with the class of women designated as notypids in the Natypidstars' of Bharsta and specified as (1) flows. (2) specient, (3) special net (4) riffers. Speaking of the riffers (class of heroines Bharsta prescribes wisders and other arts for them as well as for the other three types of natylds mentioned by him. It has

Ed. by Pt. Sivadatta (Käryamälä, 42), 1894, p. 272 :—

## "नायकावैव वस्तामि चतसः पुनरेव द्व ॥ ६ ॥ दिन्या च नवपरनी च कसकी गणिका तथा।"

The Delange of Dhesseliges (ed. by C.O. Hass, New York, 1912) mention three liked of Heiniters (-1) few Peter's own Mr. (c.) New York of the Common woman is defined as 1900 at 1900 a

2. Najyaidstra (KM 42) page 274 :-

#### " नानाकसाविद्रोपक्का नानाक्षिक्यविवसमा । गञ्जातिस्यविभागमा नानाकेस्यविद्यारदा ॥ २९ ॥ "

This is a description of the शिल्पकारिका in the क्रीविमाय which includes (1) महादेवी, (2) देवी, (3) स्वामिनी, (4) स्वापिनी, (5) मोगिनी, (6) शिल्पकारी, (7) नाटकी or नाटकीया कात (8) नवें

Namacandra in his Natyodarpass (c. 1160 a.p.) specifies the servants in attendance at the king's harem-" कवास्त्रांत सर्वीहारी... वित्रादी शिल्पकारिका." (Vide p. 200 of G. O. S. Edn. Vol. I. 1939)

"अय राजकोरि नृत्यगीतामु विद्रशामु सकीमु सकतामु कतामु च प्रतिदिवसमुश्चीसमान-वरिक्या प्रते: प्रतिकार्य परिक्षितेश्व च दिवसेमीवनसम्बद्धीः

In Küliday', Sámoulaí (Act IV) the female companions of the heroine Sámoulaí feire Devasériel var chonolego opinising: "Passafell'var var light feire opinising of the passafell'var var light feire opinising of the passafell'var var light feire opinising of the passafell var light feire opinising opinising

"अथवा तत्रभवत्याः उर्वद्याः प्रतिकृति चित्रपञ्छे वश्विष्टिच बालोच्यन् आसानं विभोद्य "
These references clearly prove the importance attached in those times to the art of

In the Milociklaminiro of Kilidas there are also some references to painting — 'विज्ञमते भतीर दरमार्थको मुद्दीशासुद्धित' '(Act IV). चित्रशास्त्र। or studio is also mentioned in Act I — चित्रशास्त्री पता रेची श्राप्तकोगार्ग विज्ञलेखनावास्त्रावस्त्रीवस्त्री सिमृति. reference seems to suggest that dishby or the art of painting was regular part of the accomplishments of high-born ladies as also of the courterans of the time of the Natypalâstra. In the treatises on dramaturgy the courteran is not represented as a woman of inferior type but on the contrary a highly polished woman well-verted in different arts and hence fit to be the heroine of a play in the same manner as highborn women. In fact Kaulityia in his Artholdatus esems to statch great importance to the art-education of prostitute, which, he epionis should be exerted out at the expense of the state.

"Those who teach prostitutes, female slaves, and actresses ari, such as singing, playing on musical instruments, reading, dancing, acting, writing, playing on the instruments like Vlnja pige and drum, reading the thoughts of others, manufacture of scents and garlands, shampooing and the art of attracting and captivating the mind of others shall be endowed with maintenance from the state."

Of course Kauilla's object in making the art-education of promitutes a matter of state expone was not philanthrophic but a purely political one as he states in the same context that "The wives of action and others of similar profession, who have been taught various languages and the use of signals, shall along with their relatives be made use of in detecting the wicked and murdering or deluding foreign spies." A state that spends money on the education of the prostitute does so with a view to make them state-agents. This was perfectly natural in those times and is even now in a limited sense. But whatever may have been the object of the art-education enjoined for the prositutes by Kauilyshe fact remains that painting was taught to the prostitutes at the time of the composition of the Arthdeistra. If no some centuries earlier as Kauilys records not only contemporary practices but settled practices of previous centuries, which may have been current in his daws.

Let us now indicate the relative chronology of the references to the fractice of the art of painting by the courtexans. This is as follows:-

("pailikl" is referred to in Mysskakajika I. 4).

<sup>1.</sup> Vide p. 139 of Arshaldure (Eng. Trens. by Dr. Sham Sastry, 1939). Vide p. 16 of Arshildure ed. by J. S. Karandikar and B. R. Hivargeonker, 1927, Chap. 48 co กุริเพาะเลย

<sup>&</sup>quot; गीतवाद्यपाठयमूत्तनाव्याकुरिक्क्वीचानेलुक्दक्रफेरिक्कानगञ्जनक्ष्यकृत्यक्षंश्वत्नकंशाहनवैशिक क्वाहानानि गणिका दाली रहोपक्षेत्रिक माह्यती एउसक्काल्यात्रेवं इन्योत् "

Chronology	Authority	References
c. 321 s. c. to 296 s. c. ( J. F. Fleet )	Arthaiāstra of Kautilya	Painting ( िक्त्र ) to be taught to the Prostitutes at state ex- pense.
Between B. C. 200 and A. D. 300 ( P. V. Kane )	Nāṭyaiāstra of Bharata	The courtezan (nāyikā) should be shown as expert in dif- ferent kinds of painting ( बानाकेक्यविद्यारहा ).
c. 100 A. D. (Bhandarkar) c. 500 A. D. (A. B. Keith)	Kāmasūtra of Vātsyāyana	The courtezsn should be pro- ficient in painting and other arts (64 Kalās) to ensure res- pect among the people and at the royal court.
C. 150 A. D. (Lassen) 2nd or 3rd cent A. D. (V. G. Paranjpe)	Mycchakatika ol Südraka	Courtezans shown with pic- ture-boards besmeared with paints in the house of the courtezan Vasantasenā, the heroine of the play.
C. 755 A. D.	Kuttanimata of Dāmodera- gupta	Courtezans practising painting for advertising only and not for diversion ( वैदग्यक्यातये न सु विनोदाय).

The chronology indicated in the above table is of course relative and approximate but it is sufficient to establish the fact that the art of painting was a necessary part of the accomplishments of a courtezan, asy between about 500 s.c. and 800 A.c., a period which saw the rise of Indian painting as proved by the existing frescose ast Ajanşli in the Deccan and at Sigiriya in Ceylon. The amsteurish interest in any art though conducive to its growth can hardly take it to perfection but when art is pursued by the professional class from century to century when art is pursued by the professional class from century to century force in the history of national art because the living of this class depends on the unremitting pursuit of art and consequently its growth is not left to smateurish whims' of the aristocrats or the gentry of a sation, who remains at best only the patrons of the professional artists.

Compare Bernier's remarks on the condition of Indian artisans and painters in the 17th century:—

<sup>(</sup>P. 255-56 of Tracels, 1891)—"Want of genius, therefore, is not the reason why works of superior art are not exhibited in the capital. If the artists and manufacturers were encouraged the useful and fine arts would flourish; but these unknown men are

Any change in the artistic taste of these patrons of art had in reaction on the growth of the national art. Are we, therefore, entitle to suggest that with the general artistic degradation of the class of society to which the contrasan tried to please during the course of their profession their interest in painting as an accessory to their task, also declined and ultimately dropped out for good? The arts of singing and dancing having a wider and demonstrable appeal to the average man have still survived in association with the courteans sad even in modern times we have greater attendances at dances and singing parties than at art exhibitions which hardly attract any large numben even from the so called detucted class of the day.

The importance and status attached to the profession of the courtezans during the early history of Indian Culture appears to have been lost in the mediaeval period and they were looked upon as social outcasts <sup>3</sup> at least by a section of the society which was more religiously minded, if not by the gay aristocrats who continued their pleasurable outraits seeknass as of wore.

Even in the 17th century Bernier roticed and criticized the degradation of artistic taste among the people in India though thep rofessional pain tera produced good work as leavident from Bernier's remarks:—

<sup>&</sup>quot;I here often admired the house, softeness and delicacy of their pintings and ministers and may peritically pround that the applies of Abber, pointed on a shield by a calebrated artist who is said as have house even years in completing the pinter, propositions and in the appreciation of the face; but these defects would some he anrested if they possessed good master and over instructed in the rules of art" [p. 335. The addire quoses a passage from Aber-Aldhot, Vol. 1, p. 100, which criterious as which convolves with Abbrit's regards on painting according to which the poletes of which convolves with Abbrit's regards on painting according to which the polete is

<sup>2.</sup> Vide Spi. Indice, Vol. XXV. p. 1986.—In the Purtnersmapport pletts of his Remember of Designific dated Sat 1232 (m.m.), 1936 cential villages are granted by this Videra bing no inciniter Purtnersman, who gave these villages to create Brahmans, sember of the property of the Parkmans of the Parkma

The evidence recorded by me in the present paper leads me to infer that the art of painting was associated with the courtezans at least for 1000 years say between n. c. 500 and n. b. 500. In the account of pre-Buddhist pictorial art given by Mr. Ratilal Mehta in his recent book Pre-Buddhist India' based mainly on the Jitaka Stories. I find no reference to the association of painting with the courtezans' but as they were highly accomplished the art of painting may have been practised by them. Dealing with the education of women in those with the part of the part of

" अथ बाह्यमसिवद्याः ।

आचंद्राकेमिदं भोज्यपेभिरेषां च वंद्यतैः। नापेवं न च क्रिकेटं वहा क्यार्गेनिर्मि(मिः)।। ३५॥ पण्यांननानां स्वतने न देवं शु(शू)द्वयपोपि निरारणीयः। सक्षायिकं वापि न पारणीयं सन्दर्भनिर्भितेकस्पर्मितः।। ३६॥।"

Perhaps to stimulate 句 독角句記! which may have been on the decline about A.D. 1300 the above rules were strictly enjoined in the inscription by the Yadava king at least for the Brahman beneficiaries of the grant.

- 1. Bombay, 1939, pp. 315-316. Some points from Mr. Mehta's remarks may be noted here:-
  - The pictorial art seems to have been highly developed. It was called Cittakomma (= Citrakarma).
  - (2) Paintings were drawn on the walls (bhitts) as well as on panels or boards (phaloka).
  - (3) Balls with various designs painted on them are also mentioned (Cittabhraduka).
  - (4) Walls were carefully plastered and coated with lime and nicely polished (Sudhānulepanam) before paintings were painted on them.
- 2. Ibid p. xiiii Dealing with the age of the Jatokav Mr. Mehts states that "the pross stories of the Jatoka-Jingkandi (were) compiled about the latter out of the 5th century A.D." but the vertex in the Jatokav may be dated "from pre-Buddhist times down to the 5th occuracy A.D." In view of the several stages through which the Jatokav stories have passed, as admitted by Mr. Mehts, I am unable to make any definite chronologicalinference from them.
- Ibid, pp. 294-297 Mr. Mah to deals withthe position of the courterens here.
   Three courterans of Breares viz. (1) Såmå. (2) Suldid and (3) Kåll are mentianed.—
   A courtezan was not looked down upon as moral outest but rose to a high standard through her accomplishments and was respected by the people.
- ! Ibid, p. 277 I take this-opportunity of requesing Mr. Mehts to trace any reference; to the practice of the art of painting either by courterans or ord mary women in the Jisac. Stories with a view to establishing some definite starting point for the practice of painting by Ind ian women which prevailed for no less than 1000 years.

the two allied subjects in which women held sway in those days.

Whenever a reference is made in praise of woman she is invariably referred to as skilled in singing and dancing (kusalā naccagitesu)."

It appears from these remarks that alkahya or the art of painting was not practised by the average girl of those days and though Mr. Mehia has not noticed its practice by the graylah or courtezans we have nothing in his account of them to combat the suggestion made by me above that alkahya may have been practised by them along with muic and adarsing. This is, however, only a suggestion to be verified by close students of Buddhist literature.

In case no evidence is produced by Buddhist and other scholar regarding the practice of the art of painting by woman in the pre-Buddhist period we shall have to presume that the practice originated with the growth of early Indian painting and died a natural death with the decay of that art at the beginning of the mediaeval period of Indian history, say about 900 a. D. But this presumption needs verification by acpetts in the history of Indian art and cannot be undertaken by a layman like myself at the present stage of my study of these and allied problems.

### HISTORY OF THE PRACTICE OF MASSAGE IN ANCIENT AND MEDIEVAL INDIA— Between C. R.C. 1000 AND A.D. 1900\*

I propose is this paper to record some notes on the history of the art of massign the body as precision in India from ancient times. In all countries massage has been practited as an accessary to athletics as also for medical therapeutics. So far I have not come across any exhaustive study of the history of massage in India. I hope the following notes from varied sources will reveal the importance attached to massage by Indians during the last 2500 years. To understand, however, the Indian art of massage in its wide cultural perspective I have recorded in this paper some notes about the history of this art in foreign countries like Greece, China, the Roman empire, etc. gathered by correspondence with foreign scholars i and through my study of outbilished books.

In connection with the history of massage in China I consulted my friend Prof. L. Carrington Goodrich of the Columbia University.

- Annals (B. O. R. Institute) Vol. XXVI, pp. 85-113.
- I gratefully record below the following note about massage sent to me by Dr. Vittore Pisani of the University of Milan in his letter of 24-8-1953;—

"Anointing the skin with oil after bathing is already mentioned by Homer (often); thatthis was made for gymnastic exercise is explicitly said by Thucydides (5th contary S.C.) in his Histories I.

Messaging the sick was at first practiced by the Greek Predictor of Solymbirs according to the Roman subher Pinjon beliefer in the Historie Naturalia XXXX.2. When this Predictors lived, I cannot styr. I havenot been able to find mention of him in the works at my disposed. But Plining segans of him as a pupil of Hippocraters in such case, be would belong to the 5th or eth cent acc. Here is Plining's passage: "Produce all and the produce of the Pinjon Solitories and the Pinjon Solito

In such a sense is spoken of massaging by Galenus (129-200 A.D.) VI 151 and 187; further Pliny the younger, in a letter to Trajan (Ep. X 9) recommends him a intraliptes, vig. a massaging doctor; this Pliny lived from 61 to 113 A.D.

 Thanks are due to my friend Dr. Gerard Lindblom, Director of the State Ethnographical Museum of Stockholm for directing my attention to the following books shout Massages and all light dopics:—

- (i) Hühnerfauth, Geschichte der Massage, 1886.
  - (ii) H, Nebel in von Langenbecks Archio XLIV.
- (iii) Wong, K. Chimin and Lien-Teh, Wu, History of Chinese Medicine, 2, ed., Shanghai, 1936.
  - (iv) Zimmer, Henry R., Hindu Medicine, Beltimore, 1948,
- (v) Sudhoff, Geschichte der Medinin, Berlin, 1922, p. 432,

I am thankful to him for the following notes about massage in Chim,

11-6-1953 — "Shampooing in something of a problem, because it in not certain just what MU means. This character is used very early in Chinese Texts in the 1 L1, which may go back to the early years of the first millelinium s.c. I it is used in connection with the preparation, of the corpus for burial. The Elegies of Ch'u or Ch'u T'z' u dating for about 8.c. 300, us I remember, also has the word...... And in the Sidn of the Ch'u T'z' u dating long because the compiled about a Ch'in (Compiled about a Chin (Compiled about a C

24-11-1953 — Here is another item for your file on shampooing in China: In the Shih or Odes, which date back at least to the 7th century before our era, is a verse which Bernhard Karlgren translates as follows:—

"Since you, my lord, went to the East, My hair is like the flying Artemisia. It is not that I have no grease or washing, But who like to adorn oneself?"

(See the Book of Odes, Stockholm, 1950, p. 43).

The following Subhānita about shampooing in Indian household is at present current in India:—

In the Subhāṇitaratnabhāṇdāgāra, N. S. Press, Bombay, 1911, there is a section on Stripralashiā (praise of women) in which we find the following verse:—

Page 263 -

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"पार्सवाहने वडी केशसंब्रहने फ्ली |
बहो मार्ग्य परंजीलो रिक्सिंगणने रवि: ॥ १७ ॥ "
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It is really a good fortune of married women (with children) to possess a vajri (baked brick) for shampooing the feet, a phani (comb) for dressing the hair, and reci (churning rod) for churning curds.

The above verse reflects the ideal of domestic happiness of Indian married ladies of medieval India. The authorship of the verse is not mentioned by the editors but it seems that the verse is not very old at the words **पन्नी**, **and till** (now current in Marathi) are used in it.

In the foot-cote on p. 263 of Subhāṭitaratus-hhāṇḍaṭīra the editors explain the
word एমो s: "বাহ্বেশ্বেলবিছ্লাই লাইনিইচানই:" (a piece of baked brick for rubbing
one from the feet). They also state that the words ব্যমী, কালী, বিই in the verse here
double meanings as follows:—

<sup>(1)</sup> क्वी = beked brick or Indra.

<sup>(2)</sup> The manborged Sec.

<sup>(3)</sup> रवि = churning rod or Sun

As regards the currency of the practice of marage in different parts of India I made inquiries with some friends of mine. Among replies received the following reply dated 9th May 1953 from my learned friend Rao Bahadur Sardar M. V. Kibe, M.A., of Indore (Central India) is notworthy:—

"Your letter dated the 29th April 1953 has given me the remembrance of 58 years ago. When in 1895, I joined the then Muir Central College (now Allahabad University). I found that everybody in the morning sitting outside of his house was getting himself massaged. This was so even on the sands of the Ganges and the banks of the Jamuna. The late lamented Mahāmanā, Pandit Madan Mohan Malaviva, whenever he met me, advised me to get myself massaged. The masseurs used sarso oil for the purpose. This practice I have found all these years very largely followed in U. P., Delhi, Rajasthan and even in parts of Madhyabharata. At Indore, I know that the Maharaias and the rich neonle got their bodies massaged every morning and sometimes at night before going to bed. There are expert masseurs in Indore. One person was a famous hope-setter and masseur in this city. One of the masseurs charges Rs. 5/- ner day. I found in a Turkish bath at Nice in France a good masseur. As a matter of fact the practice of massage is very largely followed even in these days in the parts of the country I have already mentioned. In Agra only a few years ago. I found that the masseurs go through the street asking in loud voice if anybody wished to get himself massaged at any hours of the day. As you may be aware this practice is mentioned in the Mrcchakatika. The masseur mentioned in this play is described as a merchant of Ujjain, who hailed from Bihar (Magadha)."

I am thankful to Rao Bahadur Kibe for this interesting information. E. Norman Gardener in his very scholarly treatise "Athletics of the Ancient World," Oxford, 1930, gives some interesting information about Maurage as practiced by the Greeks or Romans. I note become some points from this information which may be compared with the data about Massage gathered from Indian sources.

Page 78- (1) Oil a played a very important part in Greek training.

- (2) The Greek oiled himself before and after the bath.
  - (3) The Greek wrestlers and athletes carefully rubbed them-

<sup>1.</sup> There are some expert masseurs even in Poons at present - Shri Vamanrao Limaye, popularly known as Maharaj Limaye, who died a year ago, was an expert masseur. He was an athlete in his young days and later practiced as a masseur. 2. Compare Sulrutanshial (N. S. Press, Bombay, 1938, p. 507), Cibiatridae,

Chap. 31:-- "लेहसारोऽयं पुरसः प्राणाश्च स्नेहभूयिष्टाः स्नेहसायाश्च असन्ति......गाचाम्यङयोजनेषु अध्योजयः ॥ ३ ॥ "

- (4) The names Paidotribes (boy rubber) and Aleiptes (oil) indicate the importance of Oil and Massage.
- (5) Athletes are sometimes deacribed as "Those who oil then
- (6) In the 5th century every one brought to the gymnasium his own Oil flask and stripil.
- (7) At times of festival oil was provided free to all compe
- (8) In later times oil was supplied free for all who used the gymnasia. Enormous quantities were required.
- (9) A spartan inscription directs that the gymnasiarch shall supply daily about a third of pint for each man, three for youth and two for each boy.
- (10) Sometimes the gymnasiarch provided oil at his own expense or gave a sum of money as an endowment for the purpose.
- (11) The oil was kept in amphorae or in tanks. A picture of such a tank is shown on the funeral Stele of Diodorus of Prusa, a gymnasiarch (Fig. 42).
- (12) In course of time the provision of oil became a heavy burden for the gymnasiarch or even for the state.
- (13) There was a special room where the athletes powdered themselves before exercise. There were special kinds of powder with special virtues.
- (14) The ordinary youths used common earth or sand.

## Page 79-82 - Pictures about Massage.

- Plate 44 Scene from the undressing room—Late 6th cent. Youth pouring oil from an aryballos into his hand for oiling himself before going to wrestle.
- Plate 45 Scenes from the undressing room—about 480 B.C.— Hanging on the walls are strigils, oil flasks—groups of trainers etc. standing.
- Plate 46 Youth massaging the back of friend-about 480 B.C.
  - Plate 47 Youths massaging themselves-about 480 B.C.
  - Plate 48 Youth massaging boxer-about 3rd century.
- Page 83 Solon imposed penalty of death on any one who stole from the gymnasium a cloak or oil flask or any other object worth more than ten drachmae.
- Page 84 Those who have finished their exercise are scraping off oil and dirt with strigils (Plate 60).
- Plate 59 Bronze strigils and oil flask (in the British Museum).

- Page 80 The science of training or sympastic, which simed by means of diet, massage and exercise at producing the physical condition required for athletic success was developed in the 5th century.
- Page 90 The trainers in the symnasia are credited with the impention of medical massage.

The Encyclopaedia Britannica [Vol. 15 (1929) pages 33-34] contains an article on Massage. No history of the art of massage is recorded in this article. I note below the following points from this article which are useful for my present history of massage in India :-

- (1) Massage is a method of treating stiffness or other physical conditions by manipulating the muscles and joints, practised from time immemorial in all parts of the world and employed extensively for medical purposes at the present time.
- (2) Sometimes the word "massage" is restricted to the rubbing processes, while "manipulation" covers all the movements designed to exercise particular muscles or groups of muscles.
  - (3) Rubbing is of three kinds :-
  - (i) Stroking, (ii) Kneading and (iii) Tapping. (4) Oils and other lubricants may or may not be used.
  - (5) Massage increases circulation and improves nutrition.
  - (6) Massage restores functional ability to exhausted muscles and
- removesfatigue. (7) Massage of the face and neck is the basis of most systems of
- modern beauty culture. (8) The revival of massage in Europe and America has given rise
- to a number of professional operators, male and female. (9) The operator ought to possess physical strength and a fine sense of touch and resistance. Skill and knowledge are also necessary for the operator.
- (10) The standard of nersonal character necessary for the operator is that required for the nursing profession in general.
- (11) Massage should be carried out under medical direction and in proper surroundings.

The article contains a Bibliography! on Massage which is useful to those who desire to study the subject closely.

- 1. Books mentioned are as follows :-
  - (i) Medical Gymnastics and Massage in General Practice by 1. Arvedoon. London, 1926.
  - (il) Advanced Methods of Manage and Medical Gymnastics by I. C. Shires and D. Wood, London, 1927.

  - (iii) Manage, Its Principles and Practice by I. B. Mannell, London, 1920. (iv) Theory and Practice of Massage by Goodell-Copestake, London, 1927.
- (v) Massage and Medical Gymnastics by E. A. G. Kleen, London, 1918, I cannot say if any of the above books contain any historical account of massage.

- In the Hobson-Jobson by Yule and Burnell, London, 1903, there is an article on SEAMFOO [p. 821] inwhich the authors record reference to shampoo from A.D. 1616 onwards. The remarks on shampoo in this articleare briefly noted below:—
- · (1) Shampoo = To knead and press the muscles with the view of relieving fatigue, etc.
  - (2) The word shampoo has now long been used familiarly in England.
    - (3) The Hind. verb is châmpnā (imperative châmpo).
    - (4) Reference describing shampoo without naming it :-
- A.D. 1616 "Taking thus their case, they often call their Barbar, who tenderly gripe and smite their Armes and other parts of their bodies instead of exercise to stirre the bloud. It is a pleasing wantonnesse and much valued in these hot climes."
  - Terry (In Purchas, ii, 1475).
- (5) The process of shampoo was familiar to the Romans under the Empire, whose slaves employed in this way were styled tractator and tractator.
- (6) The earliest reference to the practice of shampoo is in Strabo (McCrindle, Ancient India, 72) but with the ancients it seems to have been allied to vice, for which there is no ground that we know in the Indian custom.
- (7) A.D. 1768 "Shampooing is an operation not known in Europe and is peculiar to the Chinese, which I had once the curiosity to go through, and for which I paid but a tride. However, had I not seeveral China merchants sknopoost before me, I should have been apprehensive of danger, even at the sight of all the different instruments."
  - Voyage to the East Indies in 1747 and 1748, London, 1762, p. 226.
- (8) A.D. 1750-60 "The practice of champing which by the best intelligence I could gather is derived from the Chinese may not be unworthy narticularizing, as it is little known to modern Europeans."
  - Gross i, 113 (This writer quotes Martial iii, Ep. 82 and Seneca Epist 66, to show that the practice was known in ancient Rome).
- (9) A.D. 1800 "The Sultan generally rose at break of day: after being champoad, and rubbed, he washed himself, and read the Koran for an bour."
  - Beatson, War with Tippoo, p. 159.
- (10) A.D. 1810 "Shampoing may be compared to a gentle kneading of the person and is the same operation described by the Voyagen to the Southern and Pacific Ocean."
  - Wilks, Hist. Sketches, Madras (Reprint i, 276).

- (11) A.D. 1810 "Then whilst they fanned the children, or champood them if they were restless, they used to tell stories, some of which dealt of marvels as great as those recorded in 1001 Nights."
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- (12. A.D. 1810 "That considerable relief is obtained from Shampoing, cannot be doubted; I have repeatedly been restored surprisingly from severe faiture."
  - Williamson, V.M. ii, 198.
- (13) A.D. 1813 "There is sometimes a voluptuousness in the climate of India, a stillness in nature, an indexcribable softness, which soothes the mind and gives it up to the most delightful sensations: independent of the effects of opium, champoing and other luxuries, indulged in by Oriental sensalists."
  - Forbes, Or. Mem. i, 35 (2nd ed. i, 25).
- In the History of Medicine by D. Guthrie, London, 1946, we get the following references to massage:—
- Page: 11-12 Speaking of Primitive Medicine Guthrie observes:-
- "Massage, another means of inducing the evil spirit to leave the body, consisted in stroking the limbs in a centrifugal direction—that is, towards the extremities. Later as devil possession gave place to more enlightened pathology, the direction of the massage changed and was apolled in a centriestal direction."
- Pages 35-36 Speaking of Massage in ancient China Guthrie states :-
- "Among the methods of treatment which have been used in Chins from very ancient times are massage and acupuncture. Blind masseurs were there employed for the first time. Acupuncture consisted of the introduction of long fine needles at various specified points in the body."
- I shall now record the evidence of Indian sources about the practice of Massage in India,
- (1) In the Satapatha Brāhmana 12.8.3.16, which is related to the Sautrāmapi sacrifice, reference is made to besprinkling the yajamāna (sacrificer) with wasi ([at) of an animal. Before this besprinkling (abhipēa) the yajamāna is rubbd with fragrant substances. The pertinent extract reads as follows:—
  - " सर्वेषुरभ्युनमर्त्तं भवति । परमो वः एव गम्यः । पत्तरस्यान्यर्देनम् । गम्बेनेवैनमेतर्राभिषञ्चति ॥ "
- Sāyaṇa's commentary on the above extract reads as follows:—
  " सर्वेषुरिम्बण्यनादि उन्मर्शनं उद्धर्तनं प्रशानस्य भवति ।
  वेन उम्मर्थितसर्वगात्रीऽनिष्ठण्य हायनिवाय:।"

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  - " सर्वेषुरभ्युन्मर्द्रेतं भवति । परमो वा एप शन्धः । पत्सुरम्युन्मर्देनम् । शन्धेनेवैनमेतर्गिषद्वति ॥"

Sāyaṇa's commentary on the above extract reads as follows :—
" सर्वपुरिभयण्यनादि उन्मर्दने उद्वर्तने वयशनस्य भवति ।
वेन उम्मर्दितसर्वगात्रीऽभिष्कण्य इत्यभिगयः।"

#### Eggeling's Trans.:-

"A rubbing down (of the sacrificer), with all manner of swetch smelling substances takes place (before spiritaling him with fat) for such a rubbing down all manner of sweet-smelling substances mean supreme fragrance: with fragrance he thus consecrates (anoints) mean (See Satapatha Br. according to the text of the Madhyandina School, trans. bv I. Easeline, S. B. E. Vol. XLIV. Oxford, 1900).

The foregoing passage from the Satapatha Brähmang is important for our present history of massage in India. The term #7474, "which is equated by Siyana with #1474 or rubbing with fragrant substances (like andals (Candona), etc. appears to have been current in the time of the Satapatha Brähmang (c. 1000 n.c.). This passage is also important for the history of connectics in India.

(2) In the Mānavagrhyasūtra\* of the Maitrāyanīyašākhā (ed. by R. H. Sastri, G. O. Series, Baroda, 1926, p. 52) we get the following Sotra (Khanda IX. Sotra 26):—

# " वय गम्बोरसदने बाससी ॥ २६ ॥ "

The variant for THEM in one of the MSS used by the Editors is THEM. The commentator comments on the Sütra with this reading. He observes:—

# " गन्यबन्दनारि । उत्सादक्रम उद्दर्शनम प्रकृतैकादिना "

This Sütra lays down a rule for the Snātaka regarding the wearing of a garment after utaddana, which the commentator explains as udvartana or cleaning the body by the use of perfumed material like sandal, etc.

(3) The Sāshishyama-grhyazisra (edited by M. R. Ghoda, Junagud. 1942, p. 171) lays down in Chapter IV. Khanda 7 rules about the circumstances under which one should not carry on one's study (adhyayana). Study is prohibited when one has shaved his hair and beard but has not taken his bath (Neuragin ward surreture); when one is practising utádana (massage चण्डाप्ट), when one is taking one's bath (www), when one is having sexual intercourse (wtw), when one is spaplying oil to one's body (wuxun), etc. The commentator of this praysurfare quotes the following Smrti texts bearing on this topic:—

# " अध्येत विषु ने स्थाने उनरे चोत्सावने न च।" - Vistoāmitra

In Satapatha Britismana, 9.2.1.23, the term বালাবিব (setting out) is used. My friend Shri C. G. Kushikar thinks that this term has probably nothing to do with massage for which the term বালাবিব। used in later terts.

<sup>2.</sup> According to B. C. Lele this State is "older than 4th or 5th century B.C." (see n. 9 of Praface).

- (4) The Kaupitaka Grhyasútar (edited by T. R. Chintamani, Maras, 1944, p. 122) in Chap. III, Khanda 9 prohibit adhyayana (utudy) for a person when he is carrying out utuidama (massage of his body), nāna (bath), abhyañjana, (application of oil to his body) and Sanetana.
- ("सह उपवेशन संवेशनम् । स्तिस्या संवेशने उद्क्यया च संवेशने—Comm. of Bhavatrāta). The commentator Bhavatrāta explains उत्सादन as उद्घर्तन.
- (5) The Apastambadharmasutra (I, 6, 1) refers to the washing and Shampooing of the Guru's feet by the disciple in the following Sutra:—
  - " सदा निकायां गुरुं संवेकायेत् तस्य पादी प्रकास्य संवाहा ॥ १ ॥ " "
  - The commentator Haradatta explains the word संबाहन as मर्गनम् .
- . (6) In the Arthalāstra\* of Kautilya (Chapter XXI of Book I) we find detailed instructions about the safety of the king. Among these instructions we find the following statement:—

#### " सापरुसंबाहकास्तरहरजनमाठाकारकमं वास्यः क्यैः।"

The female attendants were to do the duty of bath-room servants, shampooers, washermen and garland-makers.

- Evidently in the interest of the safety of the king's person all professional experts including the Shampoers (संवाहरू) were kept out in the above manner.
- (7) From the accounts of Megasthenes (302 m.c.) we learn that four attendants used to massage Candragupta (322 m.c. to 298 m.c.) with ebony rollers during the time that he was engaged in disposing of cases (see p. 35 of Dr. Mukhopadhyaya's Surgical Instruments of the Hindus, Vol. 1, Calcutzi, 1913).\*
- "In accordance with Persian custom which had much influence on the Indian Court and administration, Candragupta ceremonially washed his hair on his birthday, which was celebrated by a splendid festival, at which the nobles were expected to make rich presents to their sovereigns" (Strato XV, 69; Herodotus, ix, 110).
  - Vide p. 35 of Apastambadharmasútra with Haradetta's commentary, Benares, 1932.
- 2. Vide p. 27 of Arthaldstra, Vol. I, 1923, ed. by J. Jolly, Lahore, 1923 and pages 42-43 of English Trans. by Shama Shastry, Mysore, 1929.
  - 3. See p. 122 of Early History of India by V. A. Smith, Oxford, 1914.
- 4. 1845, Smith observes "As the Persian hair washing faction! was colorated on the King's birth day to Indian institution presumably was eclebrated on the same occasion (Persian Influence on Marrya India, Ind. Acis., 1965, p. 201). The sharemarks, new invented by most Hindra, was set fashinaths in material India. The hardware the same of the colorate of the same of the s

- (8) The Vimumeti (ed. by I. Jolly, Calcutta, 1881, p. 89) in Chapter XXXII, 6 prohibits the following acts with reference to the wife of one's guru :-
  - (1) Massaging the limbs of Guru's wife.
  - (2) Anointing her eyes.
  - (3) Arranging her hair.
  - (4) Washing herfeet.
  - (5) Doing other such services for her.
  - ( "गुरुरानीनां गात्रोत्सावन मञ्जन देखसंयमन पादप्रकालनारीकि व क्वरियाद ॥ ")
- In Chan, I. 43 of this Smrti the consort of god Visnu viz. Laken: is described as "stroking his feet with her soft palms."
- ( " क्षेत्राच्यानांष्ट्रियणं बक्षम्या बरतकः ध्रमे: । " )
- (9) The Manusmrti (Chap. II, 209, 211) refers to उरसाइन in the following stanzas :-

#### II. 209 -" उत्सावनं च तावामां स्वापनोध्यष्टमोत्रने ।

न क्र्यांत्रस्य वादयोधावनेत्रमम् ॥ २११ ॥ "

A disciple should not massage (388184) the limbs of his teacher's son. He should not take any part in giving a bath to the teacher's son nor eat the remainder of the food eaten by him, nor wash the feet of this son

11. 211 -" भम्बजनं बापनं च ताडोस्सान्ययेच च।

गास्त्राच्या स कार्योजि केमार्ज स प्रमाधनस् ॥ २०९ ॥ "

A disciple should not practise the following with reference to the wife of his teacher :-

- (1) Annlying oil to her nerson.
- (2) Bathing her body.
- (3) Massaging her limbs.
- (4) Dressing her hair.
- Evidently the disciple is expected to keep himself at a respectable distance from the members of his Guru's family.
- (10) In the Acdrangasura (translated by H. Jacobi, S. B. E. Vol. XXII, Oxford, 1884), which deals with the conduct of Jaina monks, we get references to the practice of massage in the following extract :-
- Pages 131-132- (Book II, Lecture 2, Lesson 3) :-
- "A monk or a nun should not use for religious nostures, etc. a lodging where the house-holder or his wife, etc. rub or anoint each other's body with oil or ghee or butter or grease, for it is not fit, etc. (8),

<sup>1.</sup> I am thankful to Prof. N. P. Joshi, of Banaras for baying drawn my attention to the references to massage in the Astrongura.

A monk or a nun should not use for religious postures, etc. a lodging where the house-holder or his wife, etc. rub or shampoo each other's body with perfumes, ground drugs, pomder, lodhra, etc. (see II, 2.1.8) for it is not fit, etc." (9).

Page 122 - Book II, Lecture 2, Lesson 1 :-

"A mendicant living together with a house-holder's family may have an attack of gout, dysentery, or vomiting: or some other pain, have an attack of gout, dysentery, or vomiting: or some other pain, illness, or disease may befall him; the layman might out of compassion, smear or anoint the mendicant's body with oil or ghee to butter or grease, rub or shampso it with perfumes, drugs, loddra, dys, ponday, portugate, the brush or rub it clean: clean, wash or sprinke it with bot or cold water, kindle or light a fire by rubbing wood on wood; and having done so, he might dry or warm (the mendicant's body).

Hence it has been said to the mendicant, etc., that he should not used for religious postures, etc. a lodging-place which is used by the house-holder. (8).

It is clear from, the above extracts that the practice of rubbing or massaging the body with oil, butter, gibe, grease, etc. for purposes of health was current among the house-holders in the 3rd century B.C., which is the date of the Activity afterparter according to Jacobi. The use of massage for therapeutic purposes during attacks of gout, dysentery, etc. indicated in the extracts is noteworthy.

(11) In the Cullavagga, Khandhaka V deals with daily life of the Bhikkus (pages 66, 156 of the trans. in S. B. E. Vol. XI, Oxford, 1885). The following references to Shambooing are found in this Khandhaka:

Page 66 — Lord Buddha condemns the practice of rubbing bodiesthighs, arms, breast, and back—against wood while bathing. This practice was current among the Khabbagiya Bhikkus. People were indignant at it and they asked "How can the Sakyaputtiya Samanas do so like westellers, boxers," or shamborer:"?

Page 67 — Lord Buddha condemns the following modes of shampooing current among the Khabbappiya Bhikkus:—

- (i) Bathing on a Attana (a sort of shannooing stand).
- (iii) Using a Gandhabba-hatthaka when bathing [the editors explain the word as "a wooden instrument in the shape of a hand which was first covered with Chunam (fine lime) and then rubbed over the body" 1.
- (iii) Using a Kuruvindaka-Sutti when bathing (the editors explain this word as "a string of beads covered with the Chunam made from Kuru-vindaka (a ruby coloured stone) and then held at both ends and rubbed over the body").

According to the Buddheehoes malls-muthiks = mutthiks-mells.

- (iv) Using a Mallaka when bathing, [According to editors Mallaka was "a kind of back-a-cratcher made (according to Buddhaghoss) by placing together by the roots, hooks made of the teeth of crocodiles (makara-dantaka) which had been previously split"]. Buddha allowed the use of a Mallaka to a sick man ollowed the use of a Mallaka to a sick man ollowed.
- (v) Use of an Uthāsjha. [Buddhaghoşa explains this word as "uttavatts" which the editors say is unintelligible].
- (vi) The act of shampooing one another.

Buddha allowed the Bhikkus only the ordinary mode or Shampooing with the hand.

In Khandhaka VIII regulations regarding the duties of Bhikkus are given. In section 8 of this Khandhaka the conduct of the Bhikkus in the hot bath-room is prescribed. In this connection we find the following references to Shampooins:—

Page 297 — "If possible, Shampooing is to be performed for the senior Bhikkus in the hot bath-room. Shampooing is to be performed for the senior Bhikkus in the water slao."

The Buddhist canonical text Cullawagga<sup>1</sup> (1, 13, 2) records a list of games that were prohibited for the Bhikkus. In this list we find among others the following items:—

- (1) Games at dice, (2) Chariot races. (3) Archery matches.
- (4) Elephant riding. (5) Horse riding. (6) Carriage driving. (7) Swordsmanship. (8) Wrestling. (9) Boxing with fists.
- (1) Dancing with girls, etc. (9) Boxing with fists.

The word for wrestling given in the Cullawagga is "Nibbujjhanti" which Buddhaghosa (c. A.D. 425) explains as "Mallayuddham Karouti."

(12) In his article on "Religious conditions as depicted in the Nya Documents from Central dairs" published in the Journal of the Gregor India Society, Vol. XIV, No. 1 (1955), pp. 12-54 Dr. R. C. Agravals gives a short account of the religious conditions as depicted in the Kharophi documents from Chinese Turkestan. These documents belong to the early centuries of the Christian Era. The following references to Jentilia (Hot Air Bath) in these documents are noteworthy:—

Page 25 — Document No. 511 — Praises of Hot Air Baths taken by a Buddhist Saint and his disciples — 500 monks bathed in the hot and perfumed water (নাৰাস্থ্যপ্ৰিমানিক্য ক্ৰমানিক্য কলো

Page 26 — Document Nr. 511 (obverse) — importance of gifts pertaining to baths. — One who takes such a bath becomes pure in eyes, bright in voice, pure in limbs, tender and good complexioned, longlived,

<sup>1.</sup> S. B. E. Vol. XVII-Vinava Texts, Part II, Oxford, 1882, pp. 348-349.

free from boils, pimples, elephantitis (?) or itch (व सस्य गण्डपिटका भवाभित), Pure, and acquires a sweet-smelling body, big-eyed

(चित्राहनेत्र), golden limbed and of a pleasing aspect.

- Page 27 "One who provides material for the removal of dirt or who donates oil for rubbing ( negrets ) and one who provides a dry bath be free from fault and impurity."
- (13) In the Carakasamhita (I. XV) we get a detailed description of a hospital and its requisites among which an expert masseur (Samodhaka) is mentioned in the following extract :-

# " प्योदनपायक्काएक अवाहक वेवकी ४ वेवकी व परिवारकान् । "

The staff of the hosnital should consist of servants, able to cook rice and curries well. competent to administer a bath, an expert masseur, trained in raising and moving a patient, dexterous in making or cleaning beds, practised in the art of compounding medicines, etc. (see pp. 35-36 of Surgical Instruments of the Hindus, Vol. I, Calcutta, 1913).

- In the Carakasamhita. Sutrasthana, Chap. 5 detailed instructions are given about the following items :-
  - (1) wave anointing the body, head and feet with oil (verses 78-92).
  - (2) सरीरपरिवार्जन- wiping the body clean and applying perfumes to it (verses 93-94).
  - (3) स्नान Rath (94).
- In Chap. 6, verses 9-18 deal with हमन्त्रवर्ण or the daily programme of a person during the cold or winter season (hemanta). The following verse prescribes अम्बक्त, उत्सादन (massage) and मुस्ति तै (rubbing oil on the head) during this season :-

# " भन्यक्रोत्सादनं मूर्धिन तैलं बेन्तारुमातपम् मनेत् etc. ।। १४ ॥ "

In the Cikitsasthana, Chap. 23, verse 118, refers to स्नान, सम्बद्ध, उत्सादन and the noison administered through them.

In the Sūtrasthāna, Chan. 7, verse 23 refers to "संबाहनानि" (shampooing) which the commentator Cakrapanidatta (c. A.D. 1050) explains as follows :-

## सेवाहर्ज वाजिना वादाविप्रदेशे सर्व व्यविद्यनं उत्पर्वर्जं व । "

Verses 31-35 deal with व्यायाम or exercise. Over-exercise (महिन्यायाम) is forbidden. The beneficial effects of प्यायाम are given in the following verse 32 :-

## " लाववं वर्जनामच्यं स्वैर्वं दःससहिष्णुता ।

# दोषस्रयोऽभिष्टदिश्र स्यापासानुषत्रायते ॥ ३२ ॥ "

<sup>1.</sup> The term उत्पर्ति is used in the Satapathabrahmana 12.8.3.16 as we have ustad elresde.

Verse 31 defining the nature of व्यायाम reads as follows :—

# हेडस्यायाम्रथंस्थाता मात्रवा तं समाचरेत ॥ ३१ ॥ "

(14) The Sutrutasamhita, Cikitsāsthāna, Chap. 31 deals with the use of oils for medical treatment (क्षेत्रपर्यागम चिक्रसतं). It observes (n. 507 of N. S. Press Edition, 1918) :—

" खेइसारोऽयं युरुपः, प्राणाव खेइमृथिष्ठाः खेइसाध्याश्य भवन्ति खेहो । पाना बुवासनमस्तिन्वसिरो बस्युक्तस्वस्तिनस्यकनद्वात्वास्यक्तम्यो प्रनेषुरयो स्यः ॥ ३ ॥

# तत्र द्विवीनकतुर्विक्ववोऽभिद्दितः क्षेटः स्नेद्दगुणाञ्च ।

तत्र बङ्गमेम्यो गुर्ख पृतं प्रथानं, स्यावरेम्यः तिलतेलं प्रधानम् ॥ ४ ॥ "

Oil of sesame (तिकतिष्ठ) and ghee from cow's milk (गर्थ पूर्त) were used for massaging purposes as stated in the above extract.

(15) In the Mahābhārāta (Droaparvan, Chap. 82 — Chitrashah Press, Poona) there is a pleasing description of a prince's doings early in the day. The following verse 10 describes how king Yudhişthin was mastaged in the bath-room by 108 bath servants, who then bathed him with sweet-scented water poured out of golden pots.

" उत्सादितः स्वावेग बस्वत्रिः सुक्षिक्षितैः।

बाप्यतः साधिवासेन उक्तेन स सगन्धिना ॥ १० ॥ "

The explanation of the above verse as given by three commentators'
of the Mahābhārata is as follows:—

- (1) Devabodha:—
  " उत्सादितः उद्दर्शिः
  (2) Vädirājatīrtha:—
  - " उत्सादितः उद्दर्तितः ( ? ) क्वायादिना क्रोधादिना माप्सुतः । '
  - "उरसारि( रै)तः क्वावेजेश्यत्र क्वायो नाम नाना श्रीयधिरसैः परिस्तेत्र सद्दितं बानीयक्र क्याय इरयुक्यते, तेन उरसारितः अंगस्य सङ्क्षेत्रसर्वेतं प्राप्ततः।"
- (3) Nilakantha Caturdhara:-
- " दवायेज सर्वोष्ट्यादि<del>दर्</del>छ । "
- (16) In the Rāmāyaņa (Ayodhyākānda, Sarga 83, page 315 of N. S. Press edition, 1911) we get a description of the army of Bharata. In this connection mention is made of perfumers (সম্পাহনাবিদ:), those who administered bath (লগভো:), masseurs (সংবাদ্ধা:), those who burnt incense in the house (স্বভা:):—
  - '' रम्तकाराः सुपाकारास्तवा गीयोपजीविनः॥ १३ ॥ "
  - " स्नापकोच्छादका वैचा धूपकाः श्रीव्हिकास्त्रवा ॥ १४ ॥ "

B. I am thankful to Shri M. T. Sahasrabuddhe of the MahlibhErata Dept. of the B.O. R. Institute, for giving me the extracts from the commontaries of Denabodia, Validities of Devesors, p. 1575 and 1630 and Nilekrapha (Extreso A.o. 1550 and 1700).

The commentator Govindaraja (c. A.D. 1475) explains some terms in the above lines as follows:

गम्बोदवीविनः = " कश्नकस्त्रीक्ष्रंदकुकुमादिगम्बद्दग्पविकरशैविनः । " स्वापकाः = " वैसाम्बकादिकानकारिकः । "

स्थापकाः = "तशस्यकात्रकानक

प्कार्काः = '' सङ्ग्यदेकाः। ''

" उच्छाद्वं समुहेस्रोद्याहनोहर्तनेषु च।"
—Vifea lexicon (A.D. 1111).

रूपकाः = " गृहादिषु भूपवासकाः।"

Page 339 — In Sarga 91 of the Ayodhydkända there is a charming description of the hospitality given to Bharata and his army by the sage Bharadväia. In this description we find the following verses:—

" उच्छारा सापयम्ति स्म नदीतीरेषु वस्तुषु । अध्येकमेकं पुरुषं प्रमदाः सम चाह च ॥ ५३ ॥ "

(Seven or eight young women administered massage to each soldier and administered bath to him on the beautiful river bank.)

'' क्रमावल्यः प्रमापेत्र नार्वो रुविस्त्रोपनाः ।

परिमृत्य तवान्योन्यं पायवन्ति वराङ्गनाः ॥ ५३ ॥ "

Beautiful women with charming eyes administered shampoo to the soldiers and made them drink wine in their company after cleaning their hodies.

The commentator Govindarāja explains the words in the above

उप्ताद = उद्दर्शनं कृत्या (" उद्दर्शनोध्यादने दे " — Amara. तैबादिना सरीरमर्दनं कृत्या ।

संबाहरूयः = संबाहयरूयः, पार्सवाहनं कुर्वरयः। परिसन्य = जलाईसंशं वस्ताहिना परिसन्य सलेकत हरि वा।

- (17) Among the 64 arts and sciences mentioned by Vätsyäyana as accessory to the Art of Love we find the following:—
  - (i) Knowledge of military strategy that helps a person to achieve victory over his opponent ( ইরুফিডনির্না বিভানা ক্রান্ম ) p. 34.

Yasodhara explains :—

Page 41 — " विजयवयोजनाः वैजयिक्यः। दैग्यो मानुष्यत्र । तत्र दैश्योऽपराजिता-दयः। मानुष्यो याः साङ्ग्याभिक्यः शङ्गविद्याः। ''

(ii) Knowledge of Physical Culture and Athletics (p. 34)

Yasodhara explains :-

Page 41 — " व्याचानप्रयोजनाः व्यायाभिक्यः मृगयाचाः। एताः विश्वः आस्मी-

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Vätsyöyana mentions the art of rubbing and massaging the body and the bard, shampooing and dressing the hair as one of the 64 arts in his Kömusütra (p. 33 of N. S. Press edition by Kedäranätha, Bombay, 1900) as follows:—

Page 33 — " बल्यावने संवाहने देसमर्वने च कीप्रसम । "

Yasodhara explains :- (Pages 38-39) -

" अर्दन दिविष वादान्यां इस्तान्यां च । तत्र वादान्यां यन्यदंगं ततुत्साद्वं उच्यते । इस्तान्यां विकानेन्यकर्यं तत्केदायर्थ्यम् । केवानां तत्र सूचयानावत् वैति तत न्यवरेषः । केवाकृत मर्थनं संचादनम् । "

Massage (mardana) is of two kinds :-

(i) Massage by hands; (ii) Massage by feet.

Mardana by feet is called utsādana. \* Kešamardana is the application of oil to the bead as the bair on the head are rubbed while the oil is applied to the bead. Mardana of other parts of the body is called Seminahana

Speaking of the daily life of the man of fashion Vätsyäyana sayepeg 48 — "iff abould hathe every day, get his limbs managed with oil agenty alternate day, use soap (phenda) every third day, shave his face every fourth day, and his private parts (public hirs) every fifth day and use depilatories every tenth day. He should always stay in a covered place to check perspiration."

> (" तियं बानम् । द्वितीयकम् उत्सादनम् । नृतीयकः केनकः। व्यापंकम् बावुष्यम् । पंचयकम् दशक्षकम् वा प्रत्यायुष्यम् दृति वहीनस् । सामस्यात् व संवतकमा स्वेदायनोदः।")

(18) Samedhada (Shampooze) is a minor character in the drama Mycchadapida (trans. by Ryder, Harvard Oriental Series, vol. 13. V). Act II shows the character of a shampoor or masseur, who gambled and became indebted. He was born in Fieliplutar as the some of a house-holder and practised the trade of a shampoor. He had served the hero, Circulatta, at Ujişvini. In the conversation between the heroine, Vasantsseni and the shampoori was a state of the trade of a shampoori was the shampoori was an art I mastered it. It has now become a meter reade (p. 37)." In view of these remarks it suppares that shampooring was a recognised art at the time of Mycchhadapida. In fact Vitayiyyana in his Kamasztra includes Shampooring in his list of 64 Kalizo or atts as we have seen above.

At present the prestice of massage by the tax of feet is current in Iodis. The person whose limbs need massage sate nonther to treat on his limbs (thighs, soles of feet, back, ets.) with gentle pressure. Possibly this method of massage is mannt by Yakodhara when he defines কান্তাহিল as massage by the use of feet (বাসুনাম্বা কুলাই কিন্তু বাজাব্যক্ত).

- (19) Kālidāsa refers to shampooing in his Sākuntala (III, 21) —
- (20) The lexicon Amazakoia (between c. A.D. 500 and 800) records mords about massage as follows:—
- words and 453 of N. S. Press Edition, Bombay, 1905) स्यान्यर्ग शंकरम्प (III Kāṇḍa, Varga 2).

Bhānuji Dikṣita (c. A.D. 1630) explains :-

" हे पादमर्वनावेः। ''

According to Bhānuji the two words মার্থন and संবাহন recorded by Amara mean massage of the feet, etc. 1.5 Kānās II. Varga 6 Amara states (p. 279) that the words বয়ুক্ত

In Kanda II, varga o Kinara scales (p. 277) that t and हरसादन are synonymous — "उड्रतनोरसादने समे।"

Bhānuji states that these two words mean the cleaning of the body with materials used for udvartana (rubbing and cleaning the body with orfumes (ই " বর্বনত্ত্বিস সক্ষরিনিত্তিভাগেত্ত।").

- (21) The poet Bips (c. A.D. 630) after his father's death led a wandering life in the company of friends of his own years. In Chap. I. Other Harpacarita' he gives a list of these friends towards the close of this chapter. In this list we find a founds Schampoor of the name Kratikis (संपाहिका के संस्थित ). Evidently she hailed from Kerala (modern Malabar).
- (22) The Chinese traveller I-tsing in his Record of the Buddhist Religion in India and the Malaya Archipelago (A.D. 671-695) translated by J. Takakusu, Oxford, 1896, refers to the practice of massage at the Nalanda monastery in the following extracts:—

Page 109 - Chapter XX - Bathing at proper times. -

"The world-honoured One taught how to build a bath-room, to construct a brick pond in an open place, and to make a medical bath in order to cure a disease. Sometimes he ordained the whole body to be anosited with oil, sometimes the feet to be rubbed with oil every night, or the head every morning; for such a practice is very good for maintaining clear eyesight and keeping off the cold." 1

Vide p. 63 of Hartacarita ed. by A. B. Gajendragedkar, Poons and Eng. Trans by E. B. Cowell, London. 1929, p. 33.

<sup>2.</sup> The Carakasamhida (N. S. Press. 1941), Sütrasthāna Chapter 5, verse 91 gives the effects of বাব্যুগ্ৰাই (rubbing the feet with oil) as follows:—
" সায়ব নী প্ৰসাম ব কাৰ্য কৰিব বাব্যুগ্ৰাই

रहिः प्रमावं सभते मास्तकोपशास्त्रति ॥ ९१ ॥ "

<sup>1.</sup> On p. 124 of the Record 1-taing describes the "conduct towards stranges or fielded" (Chap. XXVI). A joiner host was required to shampow the legg of his senior guest:—"If the host be junior to the visitor, he, in hapour of his superior, holds the claves of the visitor's legg, then tarkes all pears of his body. If the host be senior he strokes his back, but not so far down as his waist and his feet, in order to soothe him"—I understand that wuch a cutom is current smoog Marwaris at predict so.

- (23) In the Antibiersomeraha of Vaghhata (Sütrasthäna, Chan, III) dealing with ft and ) edited by Ramachandrashastri Kinjavadekar. Poons, 1940, pp. 17-18), we get detailed instructions about the following topics :-
  - (1) WARD Application of oil to head, ears, feet, hair, face, etc.
  - (2) व्यायाम Exercise, which is defined as follows :-'' वरीराचामञ्जनं कर्म स्थायाम उपने ॥ ६०॥ "
  - (3) win Massage (after exercise) of the entire body :-
  - " है ( ध्यावार्य ) ब्रह्मानसर्थ देहं सर्वयेच्य सर्वततः ॥ ६३ ॥ "
  - (+) TENT Cleaning the hody with medicinal preparations :-" बार्यनं क्यारं मेरसः विकासनम् ।
    - " क्रिक्रिक्क्स्प्रार्थ (क्स्प्रमादको परम ॥ ६६ ॥ "

This process removes Kapha, reduces fat, stabilises the limbs of the body, and beautifies the complexion.

#### The commentator Indu remarks -" द्यायहर्यैः उद्यतंनं द्र्यांत् । "

- (5) स्वाव Bath.
- (24) In the Astārieahrdaya of Vāgbhata (edited by Hari Shastri Paradkar, N. S. Press, Bombay, 1939, pp. 26-27) we get in Chap. 2 of Sütrasthana detailed instructions about dinacarva i.e. daily programme of life for healthful living. Among these instructions the author lavs down instructions about the following items :-
  - (1) APPR (verses 8, 9) application of oil to the head, ears and (eet (चित्र: प्रकारावेप )
  - (2) FATATRA (verses 10, 11) exercise. The commentator Hemadri (c. 1260 A.D.) states that प्यापाम (exercise) should be taken after He then quotes the following verse from the Astanga. hrdaya section on ऋतवर्षा (Chap. III, verse 10 on p. 40):-

#### " वज्रवतेलेराव्यकं मध्नि तैलं विसर्वनम् । निवर्द इस्रुटेः सार्थ पादापातं च यक्तिः॥ १०॥ '१

Hemādri explains the words in the above verse as follows :-विमर्टनं = कराम्या पीवनम् massagewith hands. नियुद्ध = बाह्युद्ध wrestling or boxing.

<sup>1.</sup> Arened tta explains the terms in the verse as follows in his commenter:-

Medical oil like बतातेल should be used for लभ्यम, "मुर्भि तेलं" = application of oil to the head.

विवर्षनं = वारीरसंवादनम् (massage of the body).

निवृद्धम् = बाह्युद्धं (boxing or wrestling).

पादाचात = पादेन विगर्दन ; युक्ति: = अर्थशक्त्या एव. Arunadetta thinks that one precising बाहुबुद्ध and पादाबात about do these acts without अध्यक्ष ("बाहुबुद्धपादाबातवी: च जनम्बकस्य एव श्रीलनं युक्तम् '').

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कार्ध: = महै। athletes or wrestlers.
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वादाचार्त = वादाम्यां सर्वनम् massage with feet.

विकास = भाषाचनिक्रमेण with moderation.

The commentator Yasodhara explains the term " बस्तादम" in the Kâmasûtra as "massage by feet" (पादाव्या मर्देन). If this explanation is correct we get the following equation:—

उत्सादन of Kāmasūtra = पादाबात (Astāngahrdaya) explained as "पादान्यो विभवेत or मर्वतम्" by Arunadatta and Hemādri.

The practice of taking exercise and wrestling with wrestlers after staff, (anointing the body with oil) prescribed in the Aspāngahrdaya (8th or 9th cent. a.b.) appears to have been followed by Krepadevariya of Viavanagar. It is wouched by Paes the Portupuses, historian as we

have seen above.

The use of TRIVITE (massage with feet) after wrestling seems to be current even to-day as it was in the 8th or 9th cent. A.D. The association of massage with wrestling earlier than the 8th century A.D. needs to be proved on textual evidence.

(3) मर्वन— Massage of the entire body should follow exercise:

Hemādri states that Vāgbhaţa emphasises the value of mardana or massage and its being an essential part of राज्येग्वें का exercise ( वर्षेणेविष्याने सर्वेशस्य प्राथमिक्याने सर्वेशस्य प्राथमिक्याने सर्वेशस्य प्राथमिक्याने सर्वेशस्य प्राथमिक्याने स्थापन

He then quotes the commentator Jaijjata on Suiruta:-

" मर्द्रनमपि स्थायामान्तःपाश्येव।" (massage is an integral part of exercise).

Hemādri quotes Sutruta (Cikitsāsthāna Chap. 24, verse 43) as follows:—

#### " व्यायामस्त्रिकशत्रस्य पर्म्यामुद्धतितस्य च। व्यापयो नोपसर्पन्ति सिंहं श्रवस्या इत।।"

One who has taken exercise to the sweating point and massaged himself with feet (पद्मानुश्वित्य) is never touched by diseases just as a lion remains undisturbed by ordinary beasts. The expression "पद्मन्यान्यार्थेल" of Sutrata reminds us of "पद्मन्यान्य" used by Vägbhata.

(25) In the Bhavisya Purāņa, Brāhmaparva, Chap. 15, we get very interesting information about massage to be carried out by a wife for her husband. The wife should attain proficiency in serving her hus-

<sup>1.</sup> Even horses were assisted with oil. In the Salishetre of Bhoje (c. A.D. 1050) ed. by E. D. Kulkarni, Decesa College Research Institute, Poons, 1953, p. 13 we get the following line under অনুসৰ্বা of horses:— "অন্সাঃ ভতুনীকা নিয়ানিখনেকখনমু,"

<sup>2.</sup> I am thankful to my friend Dr. A. P. Karmerker, Director, Purknic Research Institute, Belgaum, for drawing my attention to this reference.

band, in shampooing the limbs of his person and in massaging his head. The shamnooing for the waist should be gentle and that of the face and other limbs of the body should be done in a comfortable manner suited to the condition of these limbs. The massage for the arms, chest, the back, shoulders, head, and feet should be vigorous while that for the other parts of the body should be rather gentle. Soft massage is desired for parts of the body which are not fleshy, for the vital parts close to the navel as also the heart, the face and the cheeks For a person in the waking state the massage should be vigorous for a person who is half asleep it should be of the middle kind accomnanied with stroking. For a person who is having a gentle sleen massage may or may not be administered. For all limbs of the body the massage should be in the contrary direction (viruddha) and especially so for limbs with profuse growth of hair on them. For limbs which are itching and smeared with oil the massage should be carried out with good rubbing. For inducing sleep quickly as also for exciting amorous feeling the following process should be adopted by the wife.

She should scratch gently with her finger nails the different limb of her husband. Such gentle touch causes in him a thrill of rappur. She should then rub his head and sides and gently scratch them for memoring itching sensation on them. Shampooing administered to a person, standing or sitting, in a waking state or in sleep is highly praised as it is very agreable. Creater degree of massage should be administered by the expert wife when she notices (in the person that is being massaged with. bushould motionlessness, horripilation of lincologies of eyes, offering of particular parts for massage, excitement in the region at the root of thighs, sect, and counter-sciurce of her hand. A wife, who pursues such a course of conduct, solely directed to pleasing her husband attains the three ends of human life.

(26) In the Agnipurāņa (Anandashram Sanskrit Series No. 41, 1900, p. 353) we get detailed instructions about massage in Chapter 281 (called "समारिक्यकवर्षण") verses 26-33, which read as follows:—

दिनस्य तु चनुर्मात कर्ज तु बद्दाधंके। प्यापामं नेव कर्जन्यं (प्यः) बायाच्छीतान्तुना सकृत्।। ११ ॥ बार्जुकां च बर्भ बढ़ाबृदावालं न धारवेष्। व्यापामस कर्ज हम्पाहातं हथ्याच्य सर्देनम्।। १२ ॥ ब्यापामस कर्ज हम्पाहमान्ये बाऽश्रत्याः विकाः।

कातपक्केसकर्या ५३वी क्ष्यस्यायाम उत्तरः ॥ ११ ॥ इत्यादि महादुराण बाग्नेचे रसादिलक्षणकरूनं नामैकाबीस्थयिक-

.. (27) In the Kāmandakīya Nītīsāra (Ch. XII, v. 45) the king is cautioned against Shampooers, who have the opportunity of poisoning thim:

## " स्दम्यञ्जनकर्त्तारस्तरसका म्ययकास्तया ।

प्रसादका मोजकाश्र गायसीवादका वरि॥ "

( लात्रसेवाहक = one who shampoos different limbs of the body).

(28) Some of the Indian kings have in their service regular athletes (malizi) who masage their bodies regularly. This practice appears to have been current in India from antiquity. King Somedvara in his encyclopaedic work called the Mansauliais delited in the G. O. Series, Baroda, Vol. II, 1939) describes the royal bath current in his time (c. AD. 1130). The actual bath was to be preceded by a vigorous massage with oil by expert athletes (malizi) well-versed in the art of massaging (Samisha-vedishis) as the following lines (p. 81) describe:

" क्रीफर्यागण्यसंसिदीः स्तुःवैद्यांचायदीः हुन्मैः। सैक्षरम्यस्य गात्राणि मुद्धैः संवाद्यदिभिः॥ ९६६ ॥ मृददस्ततकैः स्वैरं मुर्दानं च समाचरेत्।"

- At the close of his section on the enjoyment of women (yoridbhoga)
  Solowing items in the daily life of the king:
  - (1) भोजन— Dinner.
  - (2) सज्जन— Bath. (3) पादाम्पक्क— Application of oil to feet.

Chap. 23, verse 118, ss follows (p. 576) :—
" स्नामाम्यक्कीस्मादनवस्नातंत्रकात्वर्णकेर्देष्टैः

कर् तिकोठपिडकारोमोद्रमनियिनिया शोपाः ॥ ११८ ॥ "

Poisoning through water used for bath or the oil used for massage, either intentional or geldents, was likely to lead to serious results. Caraka gives the symptoms of such soisoning in the above verse.

<sup>1.</sup> In the Corokasomhild (N. S. Press, Eombay, 1941), Cihitadithan, Chap. 23 deals with বিশ্ববিভাগের or diagnosis of poisons. Poisoning through জনবা and ব্যৱধানৰ a phompopor was possible and its diagnosis is referred to in the Corobasomhild in this

- (4) बहुमर्गन -- Massage of the body.
- (5) डेक्संबाइन- Shampooing of the hair.
- (6) বিত্যক্ষবিভয়ৰ— Smearing the body with perfumes.
- (7) नीत्वायनुति Listening to vocal and instrumental music.
- (8) नृत्तपेक्षण— Witnessing heautiful dances.
- (9) बकादिकीयन— Enjoying water sports, etc.
- (Verses 17 and 18 on p. 154 of Vol. II of Manasollasa).
- (29) In the Lildcaritra (c. A.D. 1250) a Marathi Mahānubhāva text containing anecdotes in the life of Cakradhara, the founder of the Mahānubhāva sect, we get the following references to massage (mardana):
- Part III, Pürcārdha, Khaṇḍa 2, edited by H. N. Nene, Nagpur, 1917 :-

Page 6 —

" गोसादी पासि मर्द्ना दीघठीः माद्रने जाठे । " — ( description of सर्वतपतर्द्धीयत )

Page 13 — " महाबाहसार्चे संग चुरवजे

" मग मटोबासा कःवि पायवरि पायेवरि धमनिवृत्ति करवीली "

Page 38 —
" बाबांसि बहत दीस माठने नाहीं "

" वचनामिदेव मर्दना देत स्तरि" Page 39 —

" मंहिया चीकसा ठावीटा " " दक् चरन उटीटा " " मन वरमनामि मर्जना वीच्छी "

Page 100 —
" मग महावाहमां करवि ध्रमनिवृत्ति करवीळी "

" नागदेवो मागछा बद्धेः मग याचिये पाठी मज रहार्डु येह्छ "

Page 116 — Description of the Divali festival celebrated by the Gosavis of the Mahanubhava sect at early dawn,

" ...,, सामग्री केटी : बीकसा तेल "

" मग गोसाबी बांसि मर्जुना दीवछीः

इरहा चिकसाः तेयां तु बाजिक घाट्यति मकजनासि दीवडाः मक्त्रजी एक्नेकांची क्षांगे वटिडी "

" बीमुगुरी होस्र बोस्माबीस्र "

Page 117 — " ऐसाः गोसानीयांति मच्डनासहित दीवाळीसञ्च केटा "

- (30) Dr. N. V. Ramanayya in his History of the Third Dynasty of Vijayanagara (n. n. 1530-1543), Madras, 1935, pp. 385-388 gives detailed description of the bath current at Vijayanagar in the first half of the 16th century. The following points in this description are noteworthy:—
- (i) All people took abhyangana (Sanskrit অন্যন্তন) or oil bath once a week preferably on a Saturday.
- (iii) The common people took the abhyañjana at a river or tank, anointing the head and body with gingelly oil and then removing the oil by rubbing themselves with the powder of mahura seed. They then entered the river and tank.
- (iii) The middle class people bathed at home with warm water. They got their bodies massaged and anointed with oil by professionals of the courtesan class who entertained the bathers with their humorous conversation.
- (iv) The princes and nobles took the abhyañjana daily just before they took their dinner. Young damsels anointed the head with fragrant oil of Campaka flowers; then they carefully disentangled the hir with their finger nails, sprinkling rose uster over the head now and then. Next they applied the passe called aptaka prepared from sandal wood autiriak playinathus semblica seeds. Rose useter perfumed with Gos Cycet was poured over the head without interruption. The body and the head were then dried clean with a outlips or thin musali cold. Each process in the bath was performed by a separate person. The women took abhyañjana in a similar way but before the close of the bath they besmeared their bodies with the paste of turmeric and then washed themselves clean.
- (v) In summer people bathed with cool water to mitigate the severity of heat.
- (vi) The rich and the nobles spent a good part of their time with their women in dirghikds or long oblong baths with steps to facilitate descent into water.
- (vii) Contemporary literature gives graphic account of the jala-kridā or water sport of the king of Vijayanagara in company with the zenana ladies. Each bather had a bathing costume consisting of a thin silk garment, which when wet stuck to the body very closely.
- Page 125— The Portuguese historian Paes describes the daily exercise to Krsnadeva Rava as follows:—

<sup>1.</sup> The Funnaries of Rimertiphtheses alludes to the gradie or the grammatic decity (c. 17). The Samuraires of Albania Federias remotions the Samuraires of Linkelin Federias remotions the Samuraires of Linkelin Federias remotions the control of the Control of Linkelin Control of Linke

"The king is accustomed every day to drink a quartillo (thee, quarter pint) of oil of pingelly before day light, and anoints himself all over with the said oil; be covers his loins with a small cloth and takes in his arms great weights made of earthenware and the taking as word, he exercises himself (iil he has sweeted out all oil, and then he wrestles with one of his wrestlers" (see p. 249 of Robert Seedlis A Forester Employer.

(31) There is a treatise on mallowidys or the science of wrestling, called the Mallo-purples represented by a MS in the Govt. MSS Library (No. 369 of 1892-9) at the B. O. R. Institute, Poons. This MS is dated Sacheau 1731 - An. 1075. The 9th prelarges of this work consists of 100 verses. Verses 32, 33 and 34 of this prelavarage dealing with with the culture form of the prelavarage of the consistency of the contract of the c

" उद्धतिनं द्वाराच्या सन्। वेदोण्डारकं | बातहरं कड्यरं मेरोहरमनावि वा |। ३२ |। स्पैयंकं तथा गंक्करं चर्णकरं स्ट्तं | गौरत्य-जन्यदेशकर्यास्यात्वि पूर्वं |। ३२ |। कंतुरं सन्दर्भ सार्थक्करं यां | संदोकरासियेवं पणा हात्रण क्षेत्रिताः |। ३४ |। "

The foregoing notes on the history of the practice of massage, in India clearly show that this practice has been current in India for mor than 2500 years. It was one of the 64 arts in the days of Vilsyyims about 2000 years ago. All the medical texts, early or late, mention this art and its value for medical texts, early or late, mention the art and its value for medical therapeutics. Indian athletes have been practicing massage for hundreds of years. When the history of Indian athletics comes to be written it will not be complete without a special chapter on the history of massage. I hope the notes recorded in this space will be found useful for writing such a chapter with the interest of the history of Indian Medicine and Athletics.

# 14. USE OF GANGES WATER BY MUSLIM RULERS

The Caraba Sanhinia, the oldest extant treatise on Indian Medicine, deals in a special chapter with the properties of different kinds of water. Referring to the waters of rivers the author observes that the waters of rivers having their origin in the Himalaysa are holy or wholesome. As the river Ganges has its origin in the Himalaysa, Caraba's remarks are applicable to the Ganges water, which was then regards as holy on account of its association with Gods and Sages as also wholesome.

From the earliest medical treatise we now proceed to the latest treatise 4 on Dietetics of the 18th century, which contains a section 6 on

- . Annals of Tirubati Oriental Institute, Vol. 1, Part 3, pp. 1-15.
- Vide p. 506 of Keith's Sanskrit Literature, 1928. Caraka, according to tradition was the physicianof Kaniska, whose wife he helped in a critical case.
- 2. This Chapter is called ambuvarga (vide p. 159-160 of the Caraka-Samhita, N. S. Press, Bombay, 1922) verse 191 to 211—this Chapter begins with the verse:—
  " 河西東西村山 南 中西村山 東

#### तायस्य सितं चैव देशकासावपेशते ॥ १५९ ॥ "

3. Ibid. verse 205 :-

" नद्यः पापाणविन्छित्तविष्ठन्याभिइतोदकाः ।

हिमक्त्रभवाः प्रयाः पुष्पा देवर्षिक्षेविताः ॥ २०५ ॥ "

Cairopigidata (hout 1800 a.h.) observe that the Ganga water is it cames from the Himstleys is whole-ome ("অ্থানন্তপ্ৰশ্ন(মান্তব্যব্যাল) বা দুই বন্ধুৰ্ব"). It is cripient that Crarks includes Gäsga or Ganga water in the expression "বিশ্ববাৰণাই বহুছা: "Canks also refers to waters Storing from the Major mountains (विश्ववाय) projects ("Girld Nation), and the Sadya mountains (विश्ववाय) प्रशिवाय का स्थापन क

4. Vick Bhejrenhauthale MS, No. 1946 1899-1915 in the Gort. MSS Library et Ba. D. R. Indirakt, Foren. Tim MS die dated A. 1819. The section on Warper is called Jale predarrose. It records averally the properties of water of the river highest McGenery, Promes, Normado, Saraneth, Candelbadg, Machamat, Saarber, Vigitat, Sieden, Talpi, Versunal, Proprist, Vissun, Saraye, General, Gesteri, Keptel, Vigitat, Sieden, Talpi, Versunal, Proprist, Vissun, Saraye, General, Gesteri, Keptel, Keptel, Migneser, McGeneral and Maryon and Machamatical Conference of the Company of the Compa

5. See les Teymorge of the Afglégadeige of Vighbat (the or the centur p.a.)
Simpliane Chap ( (pp. 618) N. S. Pren. 1999. P. 61-1 "আন্ত্ৰাই" meintened, in
una 2 in explained by Hemdelri (a.n. 1200) n. "আম্বালস্থানীৰ কথা আন্তাম্প্র
Ampséant (с. 1220 A.D.) exploite à n. "আম্বালস্থানীৰ স্বাম্বা," Vighbat repeat Caraba's
opinion in hi ini "বিশ্বস্কলিপ্রপূপ্তা কথালো প্র ব প্রমাণ "( (r. 10) the
"ব্যাহার" in uned to exclude the sea-user as observed by Hemdell ("ব্যাহার ব্যাহার
আম্বালস্থান্ত্রীই") but i doss include to brate of Geograp river.

the properties of waters of different rivers in India. In this section we have the following werte regarding the properties of the water of the river Bhildrath or Gances:—

Polio 75 (Bhoi anahathala)-

" अप गारेपन् ।

नवा वहत्त्व वा नीरं वादेवमिति कीर्तितम ह

वर सागीरच्याः—

सीतं स्वादु स्वच्यार्वतस्यं राज्यं शास्त्रं शास्त्रं शास्त्रारि ।

तृत्वामोहप्यसमं रीतनं व स्त्रां वन्ने वारि मागीरचीयम्॥"

The water of the Gangus as described in the above verse is white (क्षी), area (प्यापु), class (प्रम्यो), very tasteful ( वर्णसंप्यम्), wholesom (प्यापे), fit for cooking (प्यापे), digestive (प्यापे), capable of removing till sins ' (प्यापी), capable of removing till stimulting (प्यापी), capable of removing till stimulting (प्यापी), capable of removing thist (प्रमा), and deluvision (यो), stimulting (प्यापी), and salts that not least it promotes intellect (रही पर्य).

I believe, this description of the Ganges water represents in brief the up-to-date Hindu belief about this water sustained from the time of Carsha to the present day through no less than 2000 years. There would be no dearth of references to the virtues of the Ganges water in

1. Vide Grappskied Euror by B. C. Lev. 1877, pp. 42, 46, 85.— "The holy rise dragst is ellen methods of pill and Stanskin pilethist surrors. More than once the Bubblatter surrord on the Gasars; on one organism the river was fall to the brin. Claimin inters, a Visi, loud. Addances 11, 11, p. 2013. According to the Parkets the Claimin inters, a Visi, loud. Addances are well as the Parket Parket of the Claimin inters. A Vision of the Claimin inters. A Vision of the Claimin intersection of the Claimin

2. The Subbititerstachted edigins (N. S. Press, Bomber, 1911) p. 131 records the effects of a Sultan's trumpets on the wives of his exemiss as follows:

" गडाम्पवि सरकाम तद निःसामनित्यनः ।

स्तातीय।रिक्चवर्गगर्यपातनपदाकी ॥ २९ ॥ "

These wives of the enemy, sinful on account of the abortions caused by the terrific and of the Sullan's trumpets, are represented as washing themselves in the water of the holy Ganges as if with a view to wash away their sinfulness. Evidently the enemy of the Julian is some Kindu king. (For other Sublapites regarding Gangs, vide verset 123 to 114 on p. 9 of this compilation.)

Saint Tubbrim (a.o. 1608) addressed a letter to the Ganges (abhatger 4320-4312 of Madgembar's eda. Bombay, 1834) in which he calls मानीरची or Ganges as "शहारीप-सिकारची."

 Jagannitha Panditariya of Shah Jahan's time sums up the virtues of the Gangeswater in the following stanta of his immortal Gangelohari:—

" अवानन्यान्यंगृत्रकृतिविधरातृष्टिविकतान् व्यवस्तानसावित इरित निस्तरसर्गान् ।

विक्रियोर्विकारी व निरवान्तर्विरतितान्

नरानम्ब चर्तुं लिख्द परमं नेपच्यति ॥ १५ ॥ "

(Vide p. 21 of Marsthi Life of Pendite Jegennethandye with Schelles Gengelahari-Santil Sahirramala No. 127 by Rammo Martand Bhamburhar, Baroda, 1928). the Indian literature and it would be worth while collecting all of them in a special monograph as a thibute to the sacred river of the Hindus. What concerns me, however, in the present paper is the estimate of the Gangas water by people of foreign culture like the Muslims and the value they attached to this water in the daily conduct of their lives. All don't claim a close knowledge of the Muslim Sources which are ligiely to throw more light on this problem than I can do in this paper. I must rest content with an appeal to Muslim scholars to put together all bistorical references to the use of the Ganges water at least during the last 1500 versaws for from the last 1500 versaws for from the last 1500 versaws from

Though the Muslims' may not have believed in the spiritual qualities of the holy Ganges water, there is possibility of their having entermined a high regard for its medical properties conducive to their physical well-being as noted in early medical treatment like Carolas, Sutrass, the Applicationary to the Application of the Carolas, Sutrass, the Application of the Applic

With these preliminary remarks about the importance of the Ganges water recorded in Indian medical texts let us turn to some historical references about its use by Muslims

In Ibn Battuta's Travels<sup>2</sup> in Asia and Africa (a.p. 1325-54) he describes the postal service then current in India and mentions couriers carrying post in a rapid manner over long distances. In this context he observes:—

"This post is quicker than the mounted post. It is sometimes used to transport fruits from Khurásán which are highly valued in ladia; they are put on plates and carried with great speed to the Sultan.

C. Mensire of Babre, London, 1836, p. 315 of Exists a clitics—"In Hindustry input security their stress, there is 1818 a numbing vaters. Now and then some standing wast such in which is a collected during and contribution which their vater from deal great such in which is a collected during and contribution which their vater from deal formation and their stress of their vaters of their financians (e.g. vec p. 700). He refers to som type I their Sheetfi in his employ, who a natural food or bely vaterial employed in changes of middle substrates (p. 315).

have described the medical properties of waters of the principal rivers, lakes, wells, and mineral springs of the country and their power to cure various diseases. This clearly shows that hydrotherapy was known in India long before it was dreamt of in Europe."

1. Ed. by H. A. R. Gibbs, Broadway Travellers, London, 1939, p. 183, Batthas

rached Indus on Ihn September 1333. He set out for China se ambassador on 22nd July 132. He dictated his travela from memory in A.n. 1333. He was born on 28nd July 132. He dictated his travela from memory in A.n. 1333. He was born on 28nd February 1304. Vide my paster on Identification of Knullskam nestioned by Jinaprobhasis in his Vieidha-Tirtha-Kalþa (Rangavwami Aiyangar Commemoration Volume, 1940, pp. 146-150).

<sup>4.</sup> Muhammad Taghlakh (A.D. 1324-1351) see p. 300 of Muhammadan Dynamies by S. Lane-Poole (1925).

In the same way they transportthe principal criminals; they are not placed on a stretcher and the carriers run carrying the attection to their heads. The Sultan's drinking water is brought to him by the same means when he resides at Dwalts. Abd from the river K and Kompto to which the Hindus go on a pilgrimage and which is at a distance of forty daw's issuance from there."

This reference to the use of the Ganges water by Muhammad Taghishat the Jusalethad in the Decena appears to me to be curious and important as it illustrates the value set upon the Ganges water by son-Hindu in the first quester of the 14th century. In the article on the Ganges in the Marithi Encyclopedia called the Jäänahole's to the Ganges in the Marithi Encyclopedia called the Jäänahole's not information about the Ganges water of a historical' or medical nature has been recorded, and it would be interesting to record in this paper with information in the interest of the historical aspects of Indian

Whether this fondness for Ganges water displayed by Muhammed Taghlakh was continued by Muslim rulers of the 15th century in Gujant, Bengaland the Deccan, Leanot say at present, as 1 have on the searched for references to it in the contemporary sources. I find, however, that it appears again at the Court of Emperor Akbar in the 16th century as will be seen from the extract from the celebrated disistency as will only as the contemporary as will not continued to the content of the celebrated disistency.

"His Majesty (Akbar) calls this source of life (Ganges water) 'alwater of immerality' and bas committed the care of this department to proper persons. He does not drink much, but pays much attention to this matter. Both at home and on travels he drinks Ganges water. Some trustworthy persons are stationed on the banks of that river who dispatch the water in sealed jars. When the court was as the capital Agra and in Fattepore Seekre the water came from the district of

- Ed by Dr. S. V. Kriker, Pows., 1975, Vol. XII... "18 "," This sericle is been the following scene: —() Antisoner. Emulages Generaler, Allhabels (1818-188).
   Charles M. G. Marchell, M. G. Marchell,
- Shiveji the Great at the time of his Coronation at Raigadh fort in A.o. 1674 (June) used Gangas water for his bath and gave Glad Bhatta 3000 Anns (vide p. 274 of Shiveji by Sir Jadonath Sarkar, Calcuma, 1919).
- 3. Vol. I., p. 55— This extract has been quested on p. 221 of Bernin's Translation (Consuble & Co.), London, 1811 is a formore. "The Mogal Emperors were great oresolvens in the matter of good water." The dist-Adhair refers to "the department of state. the AdhabaMan, which had not with the supply and cooling of drinking water, also with the supply of ios, than brought in the form of frozen arrow from the Himsheys."

Sarán, but now that His Majesty is in the Punjab water is brought from Hardwar. For the cooking of the food, rain water or water taken from Jamesh and Chenale is used, mixed with a little Canges water. On journeys and hunting parties His Majesty from his prediliction for good water appoints experienced men as water-tasters."

It may be argued that the use of the Ganges water by Empero-Albar, as vouched by the Alis-Albari may have been due to his sympathy for Hindu religion and culture. One is, however, surprised to find that the Grand Mogol, Aurangeth, hater of Hindu religion culture, maintained the tradition of Albar in the use of the Ganges weter as will be seen from the contemporary remarks of Bernier's weter as will be seen from the contemporary remarks of Bernier's Bernier states: — "He (Aurangeth) keeps in Debly and Agnalikichen apparatus, Ganges-useter and all the other articles necessary for the comp, which the Mogol has always about him, as in his capital, things which are not considered necessary in our kingdoms in Europe." Seeksing of his own use of the Ganges water Bernier observes: —

Page 356 — "I shall not be exposed to any of these inconveniences and dangers, as my Nawab has with marked kindness ordered that a new loaf of his own household bycad and a 30srai of Ganger stater (with which, like every person attached to the court, he has laden several camels) should be presented to me every morning. A 30ssrai is that tin flagon of water covered with red cloth which a servant carries before his master's horse."

It appears from the foregoing remarks that the use of the Ganges water for daily consumption was a common practice in the Mogol aristocratic circles at Aurangzeb's court. In his letter written at Lahore on 25th February 1665 which describes the magnificence of the

<sup>1.</sup> C. R. C. Kai, Ancient Menuness of Kehnir, London, 1931, pp. 31 ff. - Zain-Lubbidia (Jan. 1921-1921) the Muslim hing of Kashnir was a great patron of Hindu risipins and culture. He studied the philosophy of the Vegezeityla and devoted canniderable part of his time to the study of Sannárie. Though a Muslim ruler he matriced a simple wife and remained faithful to her throughout his life. This contrasts with the large harmen of Orienta pulses of his time.

<sup>2.</sup> Elited by Archibald Consuble & Co., London, 1891, p. 212. Some dates appaiding Benicol's biography may be noted here:—Bene on 25th or 126th 1802. [Travels in Northern Certamary, Polend, Soutterland and Italy (a. ). 1461-14609]. Mattividates in Ap. 1522 at the University of Montacolistic and late personal Done of Montacolistic and interpreted the date. In 1562-1561, pp. 1562. In 1562 to 156

Mogol Camp, Bernier again refers to the Ganges mater while describingthe different tents :-

Page 365 — "The fruits, the sweatments, the Gangest motor, the authority with which it is cooled and the betid are kept in four other tents. Bulk is the leaf (of which I have spoken elsewhere), which after it has undergone a certain preparation is given as a mark of royal favour (like Coffee in Turkey) and which when musticated, sweetens the brath and reddenathe lina."

It ippears from these observations that the Ganges water had assumed the same status as a drink at Aurangzeb's court as fea or offer at garden-paries givenby Governors of our provinces at the present day. I wonder if any of our Congress ministers thinks of reviving this bealthy custom in the interest of antional health much to the satisfaction of the orthodox patriots, who condemn ten and coffee with all their hear!

From the 17th century we now turn to the 18th century and assurprised to find that a Muslim ruler of a petty principality lik-Sensaur should have maintained the Mogul habit of drinking the Genese unsiet using the latter half of the 18th century. The evidence on this point is recorded by Captain Edward Moor who jud a visit to this News of Sensaure (or "Shathero" as Moor calls it) between this News of Sensaure (or "Shathero" as Moor calls it) between this News of Sensaure (or "Shathero" as Moor calls it) between the News Moor calls it) between the News Moor control of the News Moor colourers as follows: Describing the personality of the News Moor colourers as follows:

Moor's note on the use of the Ganges water by the Nawab of Savanur may be reproduced here as it makes interesting reading :-

Norvation of the operations of Capt. Little's Detachment and of the Maratha Army commanded by Patertan Bhow (against Tipoo Saltan) by Edward Moor on the Bondsey Each blishment. Lardon. 1794.

"The Ganges' being a sacred river, its waters are highly revered by pious Hindoos; and in every city in India, 'Yoges are seen carrying about the streets the water of this river, which is readily purchased by the simple Hindoos, as a purification. A very little is efficacious, being similar in its Sine-expelling power to the holy mater of the Catholist. Eminent pagodas, however distant are supplied from this stream of acutity, with water for the ido!'s ablutions. 'We read in Dow (History of Hindustan, Vol. 1, page 76) that Soonnat, the famous divinity in the temple of that name in the peninsulus of Gudjarts, was washed morning and evening with fresh water from the Ganges, although that river is alone one thousand miles distant.

It must not, however, be understood, that the Nawab drinks it from motives of piety: it is with the Mooselmans, in no more religious esteem than any other river; but by many it is constantly drank in consequence of its reputed medical properties, and considerable sums are expended to procure it Sec Tavernier's Jadion Tratels. p. 521."

The evidence recorded above regarding the use of the Ganges water by Muslim rulers, say from A.D. 1300 to 1800 is purely of a contemporary character and hence reliable to a very great extent, unless

- The Arthelians states that the Capacs, shall be worthipped during drought (ridge p. 23) of Shan Shastry's chair, 1975). The officer is drouge of the city (algoraba) shall make a daily inspection of reservoirs of under (p. 161). The bing shall construct in the control of the control of the Capacity of the Capacity of the Capacity of the gravity of the Capacity of the Capacity of the Capacity (p. 161), the gravity of the Capacity of the Capacity of the Capacity (p. 161), the gravity of the Capacity of the Capacity of the Capacity (p. 161), the gravity of the Capacity of the Capacity of the Capacity (p. 161), the gravity of the Capacity of the Capacity of the Capacity (p. 161).
- The Billingraphy of Sex Rites and Castons (by Roger Goodland, George Routlege, London, 1931) records the following reference, regarding the use of the Gange, water (pp. 90 and 144).—
  - (1) Ganger-tester poured over lingum on Mitra Saptimi festival (vide p. 107 of Buck Faiths, Fairs and Festivals of India—Thacker Spink & Co., Calcutta, 1917).

    (2) Ganger-tester used on important lingum (vide p. 278 of Indian Antiquery, XXXIX (1910). Article on Religious Song from Northern India by William
- The Akaiabhainous Kalpa (MS No. 4) of 1925-26, B. O. R. I.) which I have proved to be a source for Vijsyanagar history (Karnatak Historical Review, Vol. V, Partl, pp. 7-18) prescribes that Ganger-water should be used in the worship of argustators i:— Page 40—
  - " वंगादिसरिदानीतं गाहेयं इत्रदास्थितम् । सामार्थनिक सन्तिनविदयान्यकतं तथा ॥ "

Crooke (1848-1923).

contradicted by a stronger evidence of a contemporary character. The chronology of this evidence may be tabulated as follows:—

Muslim rulers using Ganges water,	Regnal Period a.p.	Evidence of	Remarks.		
Muhammad Tughlakh	1325-1351	Ibn Battūtā in India between A.D. 1333 and 1342.	Ganges water taken to Daulatabad or Devagin by Couriers.		
Akbar	1556-1605	Ain-i-Akbari.	Ganges water used at Agra Fattepur Seekree and ever in Punjab for drinking and cooking—brought or Camels.		
Aurangzeb	1658-1707	Bernier in India between 1659 and 1667.			
Nawab of Savanur	1792	Edward Moor.	The Nawab drank no water but the Ganges water brought on Camels.		

We have seen above that Edward Moor refers in his account of the Ganges water to Teterstein's Travells. On a reference to an edition' of these Travels available to me I find some valuable historical information in Twernie's remerks regarding the use of the Ganges water, not by the Muslims but by the Hindus in the middle of the 17th century as will be seen from the following extracts:—

Pages 230-231 - Pagoda of Benares.

"But above all things, they (the Brahmins) ardently desire to drink the water of the Ganges, because as soon as they have drunk it, they believe, as 1 have said, that they are cleansed from all their sins. Every day large numbers of these Brahmins are to be seen going to the clearest part of the riverto fill this water into round, small-mouthed, earthen pots, which hold about a buckeful. When they are full, they are taken to the chief priest, who directs the mouth to be covered with a very fine cloth of free-cloun; in three or four folds upon which be

Edited by V. Bell, Macmillan & Co., London, 1889, Vol. 11, pp. 225-24), where Tevernler describes the temples at Japanneth, Benara, Mother, Timpothy (Tripothy).

applies his Seal. The Brahmins carry this water at the end of a stick." which is flat like a lath, from which hang six small cords and to each of them one of these nots is attached. They rest themselves by changing the shoulder frequently and they sometimes travel three or four hundred leagues of country with this load, and then sell it, or make a present of it, but only to the richest persons, from whom they expect a liberal reward. There are some of these Idolators who, when they celebrate any festival --- especially when their children are marrieddrink this water at a cost of 400 or 500 four. It is only drunk at the end of the repast, as we drink hypocras, or muscat in Europe, each (guest) receiving a cup, or two, according to the liberality of the host-The principal reason why this water of the Ganges is so highly esteemed is that it never becomes had, and engenders no vermin; but I do not know whether we should believe what is said about this, taking into consideration the number of bodies which are constantly being thrown into the Ganges "2

Speaking of marriage ceremonies Tavernier remarks :-

Fage: 233-254—"But one of the principal outlays is in the Gangetes autre for those who are sometimes 300 or 400 leagues distant from the state for those who are sometimes 300 or 400 leagues distant from the inver: for as this water is considered sacred and is drunk from religious motives, it has to be brought from a great distance by the Brahmins in earthen vessels "glazed inside which the Grand Brahmin of Jagannath has himself filled with the cleanest-water in the river. and has subse-

<sup>1.</sup> These are Kanagli of Genges water (vide letter No. 37 of Prabus Dular Sides No. 18). Saddhain Nail, he richter of Bhanji Nail, bo), memisses in his letter at Rendrift of Genges water seat with Brahmins from Benares for the use of Bajims Pathon. The writer which that an a result of drishing the body water of the Genges the Pathon would be free from his debt. ("withfidered 44-8 striffer Variffert gray. 1871.—Baddhail writer to Naus Sahil Prabus that his debt of the Company of Company

Ins footnote the editor observes —
 "The reader mill do well not to believe this story, but rather to conclude that much
of the water when drunk is in a very unwholesome condition, and is the cause of
disease" (o. 231).

Cf. John Marshall in India (Notes and Observations in Bengal 1668-1672), ed. br Shafast Ahmad Khan, Oxford University Press, pp. 157-158;—

<sup>&</sup>quot;At the place Hillipse when Hindoon come to weak, which is about November they all darry weap some time post on the hir river Gauges as their firtness though 4 or 300 mourse, (AUS) or 1000 miles, and with the heat of the size of the s

quently placed his seal upon it. This water is not given except at the end of the regast, as I have before unit; for each of the guests there or four cupfuls are poured out, and the more of it the bridgeroom gives them to drink so in he estemmed the more generous and magnifest. As this water comes from so far, and the chief Brakmis charges a cream to the companion of the consumed at a sending "".

From Tavernier's account of the 17th century we may go to the 18th century and record here the remarks of a Muslim historian about the use of the Ganges water by the Hindus. This historian composed a History of Bangal between A.O. 1786-88. While describing certain features of the country of Bengal at the commencement of this work' he devotes almost a page to the description? of the Ganges and its tributaries and towards the close of this describion observes:—

"And Hindus have written volumes on the sanctity of these rivers. Considering the water of these sacred they fancy that bathing there washes off the sins of a lifetime; especially bathing at certain ghilly of the Ganges, such as Benares, Allahabod, and Hardwar, is regarded as very ascred. The rich among the Hindus getting their supplies of the Ganges water from long distances 'take particular care of it and on certain asspicious days, wonship the same. The truth of the matter

- As contrasted with the use of the Ganges water at marriage ceremonies here
  described by Tavaraier compare the use of the Gangodaka at Vijayanagara court in
  AD. 1525 :—
- "According to an Inception of Tirontalators, one of Repositys detect Sala Magazia, (1935 A.), a certain Founge, Popisia is said to be a deministered Grandon, and the Company of the Compa
- Riyaru-Salātie, (Trans, from the Original Persian by Maulavi Ahdus Salam)
   R. A. Soelety of Bengal, Calcutta, 1902, Fasc. I. The author of this work is Ghulam Hussin Salam.
- Ibid, pp. 23-24.
- 4. Cf. the following information as recorded by Mr. N. G. Chapekar in his book वेसवाक्ष्या सावनीत. (Poons. 1937) --
- Page 165 Brahmins at the different Kreiras obtained much daking by providing their parameters with Ganges water.
- In the mosts of Philippe of the year Sale 1679, n. 0, 1575 on expenditure of Rn. 1595 is roarded. The expenditure of bringing is Riskopin of Gargas varies from Burare as From the Sale of Sal

is that the water of the Ganges, in meetness, lightness and tasteness has no equal and the water of this river, however long kept, does not stink. There is no river bigger than it in Bengal."

Evidently the Muslim author of the above remarks believes only in the chemical properties! of the Ganges water and not in its spiritual properties.

\_\_\_

Sumber of perims after :-

	0	,	2	3	4	25	49 hours,	
1.	2500	1500	1000	500	0	0	0	
,	5000	4000	6000	10000	6000	10000	36000	

The antiseptic action of the water of these rivers was usual, but not constant,

<sup>1.</sup> My friend Prof. D. D. Kosam bi has kindly supplied me the following information about the properties of the lumns water ...

F. D'Herelle: Le Batteriophage et Son Comportement. 2nd edition, Paris ,1926. Page 10 [translation].

Hankin (ref. Annales del' Institut Pasteur 1896, 10.511) shows that he has confirmed the fact that certain rivers of India possessed an extremely marked antiseptic action against bacteria in general and the cholers within in particular. Thus the water of the Jumas contains, when leaving the city of Agrs, more than 100,000 bacteria per cubic centimetr there miles lower it contains no more than 90 or 100.

As regards the cholers vibrioin particular, laboratory experiments have given him the following results (the first line gives results for Jumna water filtered through a porcelain candle, those of the second the same water filtered and bouled; the water used for the experiment was sowed with a culture of cholers germal.

It is to this antiseptic action that Hankin staributes the fact that no one has ever been able to incrimina te the ingrationof the water of one of these rivers as being the origin of a case of cholers. Neither have these rivers ever been vectors of any coidemics.

Haskin proves that the astisspile principle is destroyed by boiling and it would follow from his experiments that it is volatile....... The next page continues with the discussion, and suggests that some Indian bacteriologist should renommente the experiments of Haskin to determine definitively whether the action shown is or is not due primarily to the presence of a bacteriophage.

## SOME NOTES ON THE HISTORY OF SOAP-NUTS, SOAP AND WASHERMEN IN INDIA — Between R.C. 300 and A.D. 1900.

In his remarks on the cleaning of Textiles by the Ancients Dr. Albert Neuburger informs us as follows:

- (1) At first, soap wort or fuller's herb was used for cleaning materials. Dioscorides (2nd cent. A.D.) makes particular mention of its being used for washing cloths and dresses.
- (2) Among the Oriental peoples and among the Greeks and Romans the fuller's harb in general use was probably gyprophile struthism whose root still serves nowadays in the East for washing shawls and is exported to our countries under the name of soap root. Pliny mentions it under the name struthion.
- (3) In India, the roots and crushed fruits of various kinds of soap tree (sapindus energinata, maduriensis, saponarius, senegalensis) were used.
- (4) As the Indians still cleanse materials, mechanically by heating them with stones and wooden hammers, it may be assumed that the process was no different in seriest times.
- (5) According to Pliny (XXVIII, 191) soap itself is an invention of the Gauls, who used it not for cleaning but as a means of embellish, ing the hair. Pliny mentions two kinds of soap—a hard and a soft variety.
- (6) Galen (A.D. 131-201)—XII, 170-180 mentions the use of soap for washing. He preferred German soap to Gallic soap.
- (7) According to H. L. Brose, Theehritor (Idyll, XV, 30), the bucolic poet of Syracuse (B.C. 285) is the first to mention the use of soap for washing.
- (8) Seregus Sammonicus, Physician to the Emperor Septimius Seregus (3rd cent. A.D.) mentions 100 ps a means of cleansing but only in a poem which speaks of the treatment of various diseases.
  - Poons Orientalist, Vol. XI, Nos. 3 and 4, pp. 1-22.

Vide pp. 15-16 of Technical Ans and Sciences of the Assistan, by A. Neubric Rev. Techn. Put. II., Errevi. Lechner 1903—My friends Mr. A. N. Golsts in Mr. to the size on or dated 1s-10-190 series.—"I find in the Distinent of Applied Chemistry by A. State of the Committee of Assistance of Assistanc

3. Vide pp. 116-117 of Technical Arts, etc. by Neuburger,

The foregoing remarks lead us to inquire on the following points:-(1) Antiquity of the use of the sout-nuts in India.

(2) Use of saban or soan by Indians.

Prof. S. R. Dalgado records the following information about saban or soap in his book 1 published ten years ago :-

SABAO (Soap)-Dalgado records the names for soap in Asiatic languages including Indian vernaculars and other languages such as Persian (Sabūn), Arabic (Sabon) (Sabūn), Turbish (Sabun), etc.

A.D. 1644-Bocarro in his report on Portuguese Forts and Settlements in India (MS in India Office No. 197 of B. M. Sloan MSS) mentions Sahāo :-

"Saffron from Portugal, Sabio, porcelain, and some silk cloth." -- (Bocarro, Dec. XIII. n. 588).

Dr. Heyligers observes that the Arabs, rarely make use of soan, and on this account, it is not likely that they could have introduced the term into Malasia. Dr. Pierre Guiges (Tournal Asiatique, Paris, Tulv-August 1905) observes :-

"The Arabic name (Sabon) is from the Latin Sapo, which is itself derived according to Pliny from a Gallic word."

From the way the Portuguese word for soap (SABAO) has been introduced into almost every language or dialect of the East one may reasonably infer that soap was unknown in India before the arrival of Portuguese 2 but Watt savs :-

"The art of soap-making has been known and practised (in India) from a remote antiquity the impure article produced being used by washermen and dvers."

1. Vide pp. 314-315 of Influence of Portuguese Vocables in Associa Languages (G. O. Series, Barods, 1936).

2. My friend Mr. A. N. Gulati, M.sc. of the Technological Laboratory, Matungs writes to me on 30-9-1946 : -

"As for your inquiry about Sego ..... I can refer you to a line in Guru Nanak's Prevers "Jabji Sahib" where he mentions the word Sabas or Sabasi indicating that the more was known in somewhere about Babar's time or the beginning of the Moghul era, This line runs as-

" मृत पतीर्ता समर होय दें समूनी तथ्ये धीये "

meaning if the cloths get dirty with urine wash them with सबूबी (Sosp). This line goes on to say that if the mind gets polluted it has to be dyed with God's name. This reference should take you to about 50 years older than the arrival of the Portuguese in India."

I am thankful to Mr. Gulati for this valuable reference, See Madhyayuglua Charitra Keia by Chitrav, p. 483-4146 (A.D. 1469-1538). On 7-10-1946 Mr. Guleti informed me on the authority of Principal Tej Singh of the Khales College. Bomber. that the "Japji Sahib" of Guru Nanak, appears to have been composed about 1510 A.D. This date does not conflict with Prof. Dalgado's hypothesis that Soap (Sobin) was unknown in India before the arrival of the l'ortuguese"(The Common Prod. of India, 1908, p. 819). He does not give any reference in support of this statement. There is, however, plenty of evidence to show that the people used in ancient ladia; as they do even ngw.,sop-nut the nuts of the sapindur trifoliatur for washing clothes.

In the Ain-i-Akbari (c. a.p. 1590) soap is mentioned in the following remarks about the Soobah of Berar:—

"Lenar" is a part of the Makhur Division....... These mountains produce all the requisites for making glass and soap. Here are saltpetre works." (Page 348 of Gladwin's Eng. Trans., Vol. I, Calcutta, 1897.

Francis Buchanan in his Patna-Gayā Report (A.D. 1811-1812), Vol. II, (Pub. by Bihar and Orissa Research Society, Patna) records the following information about 100p-manufacture in Bihar:—

Page 617 — Washermen are employed by the Company for bleaching Coth at Arnal. They are supplied with soap, lime and soda by the atent of the Company.

Page 618—At the Company's factory in Bihar washermen carry out bleaching of cloth. The expense of bleaching a hale of cloth including Soap isabout 211 rupees.

"Soop is here made to a considerable extent. The following estimate was given at Bihar where the greatest number of the manufacturer; is settled:

Take 42 sers tallow, 5 rs.; 15 sers linseed oil 1 r., 10 annas; 2 sers lime 2 annas; 8 sers impure soda, 6 annas; fire-wood, 4 annas;—sers 67; 7 rs. 6 annas;—Produce 81 sers of soap like the lump mentioned in my account of Bhagalpur, 11 rs. Average profit 3 rs. 10 annas.

Each boiler makes this quantity twice a month; but two familiars, on an average, join about each boiler, as they also burn and sell lime. At this rate the 77 families in this district would make annually 77,616 to reser [159,300] but, overth [1,27] each to be greatly underrated; and it is probable that, except a few families who make lines sin Behar, each has a boiler; for Pates Sopj is used all over Bengol. At Cays indeed, I received a very different estimate, and we see that the second of the pate Sopje is used all over Bengol. At Cays indeed, I received a very different estimate, and we can be seen to be a second of the s

Vida p. 691 of Indian Companion by G. H. Khandeker, Poons. 1894.—LONAR
is a town and place of great antiquity. The sait lake of Loner produces large quantity
of ask: "The sait is design used for the manufacture of country Score and is appointed to
considerable disagon." Loner is in the Buildens District of Berst.

2. Ibid p. 169 - Mekler of the Alex-Akheri is same as Mekker, 14 miles from

nd (ucl. for 40 sersecost 4 rs. 8 annas, 6 pices, and the value of the form of

Page 689 — "Some druggists sell soap, and some of those who deal in tokace do the same; but it is most commonly sold by Paikars, who advance money to the makers, and retail it in any quantity thirt wanted. None of their capitals exceed 100 rs. The impure sod acalled Sajimarti is sold by some druggists; but some Paikars retail nothing dee, and purchase it from the wast-country merchants by whom it is imported. They sell the smallest quantities, and have capitals of from 100 to 200 rs."

Page 695 — Among the artificers who retail in shops or in the streets, Buchanan records 21 soap-makers (in the city of Patna and the district of Behar-see Table No. 41 on p. 765).

Buchanan's remarks recorded above girc us a fair idea about the condition of soap industry in Bilari na A. 181-12. If Prof. Dalgado's remark that soap was unknown in India before the arrival of the Portuguese is correct we can easily imagine how the soap industry thrived in India after about A. D. 1500 and reached a somewhat prosper ous stage at a time when foreign soap was being sold in the Poon market during the closing warrs of the Peshwa period as will be seen from the following evidence:

In the Marathi document' of March 1773 some medical prescriptions are recorded. In these prescriptions we find Såbag and other materials prescribed against skin disease. In the same document Såbag (soap) is prescribed for being applied to a mare's body.

In another document of Śaka 1710 (= A.D. 1788) a list of English goods sold in the Poona market is recorded in which we find ''सोप क्रियावर्ता'' i.e. English soap along with English nails, paper, locks, etc.

In the Marathi Dictionary Sabdakola by Y. R. Date and C. G. Karve the following usages of the word Saban are recorded:—

Page 3094 — "सावन, साबू ", Arabic "साबून "— ( १ ) " साबज साबुनि गेरुसि नाशिलें संन्यास चेतला काचारे "—म यदें ३

1. Vide p. 221 of देशबाईच्या सावनीन by N. G. Chapekar, Poons, 1937... औषपे:... इस्त्रेचे औपप made of संपन्न, चोल, मिजोद, आंबे इंटर्ड, सत्रीसार्र, and सावन (Soap) also "सावन औरोज चेल्यट्यान!"

2. [bid, p. 308— शके १०५० " हमंत्री क्रिते", " हमजी कानद दस्ते", " ईमजी पुका", "सोप रिकायती", " फुकाची वेटी इंग्रेजी ", " फुठुप इंग्रेजी."

This is a reference to me by the Marathi poet Muktesvara (A.D. 1500-1649)-

## ( १ ) '' वैते यस लिंक्स सामग्री।

सक्य मकाची होच हानी "—नव २४. १४८

This is a reference to सावन in an extract from नवनाय अस्तिसार by "Dhundirdja-Suta Malu" or Malu, son of Dhundiraja.

The Bombay Gazetteer' refers to soap-manufacture at different places in the Bombay Presidency but it is difficult to know from these references any historical information about the soap-industry at these places.

The Imperial Gasetteer of India 1 (1886) refers to soap-manufacture at different places in India in the Provinces of Bombay, Punjab, Bengal, Sind, Kathiawar, etc. but no history of these centres of soap-industry is recorded in this Gazetteer.

In Apte's English Sanskrit Dictionary (Poons, 1884, p. 400) we find the following entry about SOAP\*:—

"Soap, s. মার্মন ক্রম; perhaps আছি:, ছৈনিকা: (s. berry plant)."

1. Soop Mamfatture (Bombay Gazetteer)—in Kaira, III, 76; in Panth Makib,
III. 250; in Reme Kenth. VI. 57; in Abmedaled Dist. IV. 134; in Kashiswar. VIII.

28-1-3. — Sup-sum in Kannen Diet, XV, P. 1, 20, 25.

2. Sups (Inputs Gassters—Massectioned at Altendahud, I, 87—Ankalemon, I, 20) (Constry Supp)—Bares, II, 266—Eden, IV, 20) (Constry Supp)—Eden, III, 266—Eden, IV, 20) (Constry Supp)—Raise, III, 266—Eden, IV, 20) (Constry Supp)—Raise, III, 266—Eden, IV, 20) (Construction Construction Construc

 The Shorter Oxford English Distinsury (pp. 1934-1935) records some meanings of Scop and allied t rms as follows:— SOAP = A kind of Scop (1962).

SOAP = A kind of Soap (1902).

Soap = To rub or smear (1985).

Soap et 10 tub or smeat (1903).
Soap-bery set (1619). The nut of various species of Sopindus (csp. S. Sopindus) or of Acuje Continue used in certain countries as a substitute for soap—Arm of the trees bearing this fruit (1716).

Seep-boiler = Sosp-maker (1994).
Sosp-ry = Sosp-factory (1674).
Sosp-raker = One who makes sosp (1483).

Seep-maker at One who makes somp (144).

Seep-stone at A massive reprist of tale used occasionally as a soap (1651).

Seepment at (1543). One or other of the herbaceous plants bolonging to the grous Septembra which yield a sepomecous principle.

Seepy at 1610. Seeperd with Soap; containing soap (1721).

Apte does not record any usages of the word aramer for soap. We shall see shortly that the words with and the for soap-berry plant have been taken from the Amarakola (between a.D. 500 and 800).

The Kâmasûtra of Vātsyāyans (1,4; p. 48 of N. S. Press Edition, Bombay, 1900) uses the word केलक (Phenaka) in the following osssate:—

#### " निःषं सानम् । द्वितीयस्मुश्साद्वम् । ततीयसः केजसः । सर्वस्थायस्यः "

This passage is translated as follows on p. 37 of the English Translation of the Kamasistra by Dr. B. N. Basu and S. L. Ghosh, Calcutta (6th Edn. 1946):—

"He (nāgaraka or man of fashion) should bathe every day, get his limbs massaged with oil every alternate day, use SOAP (克耳塔) every third day, shave his face every fourth day, etc."

The commentator Yadodhara explains the above passage as follows:-

- " भिरामिति। ज्याँ बाजम् । जोजनश्यात् रिशेशकाः । द्विरोधकारिति । परिमानेश्वे इत्युक्तासम् तरुक्ताः दिनं जयनम्, उत्सादितीशक्तिः स्वारित्यकाः स्वादाः प्रधानतित-तित्यते । द्विरोधकः इति । द्विरोशकः ज्ञानोः प्रेतस्यो देशः स्वाद् । द्विरोजनातितः हत्यते । स्वादाः अर्थन्ते कर्मने स्वादाम् । युर्वकितितः । द्विः पक्षस्य च स्वयुक्तकस्यानि वर्षवेदिन्य-स्वादाः । " ।
- Dr. G. P. Majumdar refers to the use of *Phenaka* in the Kāmasūtra as follows on p. 97 of his *Some Aspects of Indian Civilization* (Calcutta, 1938):—
- "He shaves (ayusyam), and during his bath he uses a soap-like
- "The sales of Schrebera miet and castis fixt are to be mixed with lime from burnt shells and lixivisted with the wine of the au. The lye is then to be boiled with a definite weight of mustra oil."
  - 2. Cf. Carakatamhita I, iii :—
    " त्रिः पसस्य देशस्यभूनीयनसान् संदारयेत् "
- (see p. 301 of Surgical Intruments of the Hindus by G. Mukhopadhyaya, Vol. I, Calcutta, 1913 "Ranor and Shears. The Practice of Shaving").
- Chandra Chakraberty in his Cultural History of the Hindus (Calcutta, 1946, p. 311) renders the Kamasatra passage under reference as follows:-
- "He will take his daily bath; every second day rub the body with oil; every third day clean the body with phencha (Sosp-automapindo makeroni and Imericalian); shave his bested every fourth day."

1. It will be seen from the above renderings of the Kämpsügepausage quoted above that the yould New [Areas] yeard by Vasayāgas is understood to mens "soog" og "soog-like substance" but we kave no means of knowing the exact nature of this % two rits ingredients as Yasodhara does not explain the word. That this was produced by Yasodhara does not explain the word. That this was produced by Islather; and possessed cleansing properties will be easily granted. "It is possible to suppose that this was consisted of some mixture of Indian soap-must, producing lather with cleansing properties. In connection we have to study the references to these soap-nuts in Indian sources, Sanstrix and non-Sanstrix. I shall, therefore, record below some of these references which I could gather from the sources studied by me.

At present the following soap-nuts are used for cleansing purposes at least in the Deccan:-

- (1) Presni (Acacia concinna) common in the Konkan and Ghauts.

  The legumes are sold and used as soap (vide p. 104 of A. K. Nairne;

  Flowering Plants of Western India, 1894). Nairne calls it "chikakai."
- (2) Rest (apindus trifoliatus). There are two varieties. The fruit is used as roap and called roap-nut (see page 66 of Nairne's Flowering Plants). Nairne calls it "Ritta" common in various parts; cultivated in Bengal.

I shall now deal with the antiquity of these two plants  $\mbox{ first simple}$  and  $\mbox{ first }:=$ 

(1) বিক্রমার্ (Acacia concinna)—Mr. K. M. Vaidya in his আপানুম্ব, বা (Trichur, 1936, p. 594) identifies বিক্রমার্ with Sanskrit মাজনা and records the following information about it:—

(i) ससडा is mentioned in the अष्टांगहुन्य (Sütra-Sthāna, Chap. 6) which belongs to 8th or 9th cent. A.D.

1. The Kaimaratta (1. 4, p. 57) spain refer. to SAS in describing Class (itiner. ant tutor of fashion):-

" म्बिका-फेनक-स्थाय-मात्र परिन्छदः......पीरमर्दः । "

The above line means "having as his only furniture, a stool ( নাইক) = বৃত্যাধান্ত।, some shambooing material (কাৰ) and counciles (ৰহাৰ)." The commentator Yaio-data remarks, " সভ্যাব্যালয় উত্তৰভাৱ কৰা

2. Vide p. 101 of Paradhar's Edition of আইণিস্কৃত্বৰ (N. S. Press, 1939), verse 75 Fands :--' বুলৈন্দ্ৰভাবিত্তমাইলেব্যাস্থ্য

Arunadana (c. A.D. 1220) explains " বাসনা-দাবতা " and " জাবিটা লিকছ: " etc. Hemadri (c. A.D. 1260) explains these words like Arunadana,

The METRICAE ( स्प्रदान, Chap. VII. Verse 113]—(c. a.D. 625) contains the above Usp " पटीन प्रस्तानिक " etc. and the commendator Fq (between a.D. 700 and 1000) explains " सप्ता-पातका मोरहो.निज्य:"—Evidently the equation " सिठा—स्पातका मोरहो.निज्य:"—Evidently the equation " सिठा—स्पातका मोरहो.निज्य:"—

- (ii) The lexicon Medini (c. A.D. 1200-1275) refers to it as follows:—
  - " भय सप्तला । नवमाला चमैकवा गुन्नाबु पाटली श्वियाम् "
- (iii) Atreya refers to it :-

" सारला वर्धसाहा च बहुफेनरसा च सा । शंक्षिनी तिकला चैव यवतिकाः लिपीडकः । ते गरूम गरहहोगरूष्ट्रप्रीहो रत्नविष "

(iv) The commentator of Suśruta viz. Dallana of Kashmir (c. A.D. 110 ) refers to it as " स्तु(अद: सेदुण्यः"

Another commentator Jaijjala calls it " यवतिकाभेदः."

- (v) Dhanvantarinighanțu, a medical glossary (before Amarakośa) refers to its names and properties:—
  - —" सातला सारला सारी विदला विमलाऽमका।
    यहुफेना वर्मकपा फेना दीसा मरालिका॥"
    —" सातला शोधनी तिका कफ्रिवास्तरोपन्तः।
  - शोकोदराध्यानहरा किश्चिम्मास्तहस्रवेत्।" (vi) Rājanighaṇṭu of Narahari (c. A.D. 1150) :—

—'' सातला कफ्रिनामी लघुतिकद्ववायिका। विसर्वदम्बन्तिस्कोट्यामशोकनिकन्तनी॥''

Among vernacular names recorded by Mr. Vaidya I find सामका ' Hundustani) and Maseng (Marathi). Arabic name recorded by Vaidya is "सास." The Hindustani name RIGHT now current is also found in the Dhanvantarinighaniu (say, between A.D. 500 and 800).

has a clear antiquity of more than 1000 years. (See p. 55 of स्त्रप्रांत ed. by R. Kinjawadekar, Penna, 1940), 'Pt. Kinjawadekar in his [ट्रायम] identifies सम्मानसम्बद्धाना

1. I am thankful to Pao Bahadur K. V. Rangassami Aiyangar for the following remarks on the subject of this paper sent to me on 25-9-1946:-

"The Suppose is constitutes used to indicate a fruit (flat shaped) of a creeper (chemry) called in Tamil Serpolus. Dr. Godbale of Benares Hinds (university) is making some out of it. It is prounded or readened to render the contract of the contract of making some out of it. It is prounded or readened to render the contract of the co

The lexicon Amarakola (between A.D. 500 and 800) refers to when and its synonyms as follows :-

Kanda II ( saharbari u ) verse 143...

"क्व सरका। दिसका मातका अरिकेजा वर्तकोदयपि ॥ १४३ ॥ "

(See p. 201 of Amarahola, N. S. Press, 1905).

Rhānuii Dikaita (c. A.D. 1630) explains the above extract with the following quotations from the lexicon मेदिन :-

—'' वद समझा । दरमाता पर्मेदवा गुजास पारती कियास "

—" स्वादितका विवास। सामस्रायां सको हेरे किर्यकेशक्रियेकक "

—मरवः डेना बस्ताः ( यरिडेना )। यद्य 'सम्रज्ञायाः, ' " सीइन्द " मेरस्य चर्मपासस्य शयम्ये । ''

(Apte explains सीवण्ड as milk bedge plant).

- (2) रिडा (Sapindus trifoliatus).
- Mr. K. M. Vaidva records the following information about for: \_ (i) बारिष्टम = रिका or शिका, soap-berry, soap-nut tree, Indian filbert. (Latin :- Sapindus trifoliatus, S. Emarginaius) भरिष्ट alsomeans निव.
  - (ii) इञ्चल 'बरीडा' इति होके इति वसनः (c. A.D. 1100).
  - (iii) Narahari in his Raignichantu (c. s.p. 1450) records the names and properties of wite :-
    - —" रीता काजकरणयो गणको गण्डायकः। रीठा गुच्छकोऽरिष्टो महस्यः कुंबबीयकः।
  - वर्षायः बोमयस्य केवित्रो सम्बद्धः। —" रीठा क्रज़िल्होच्यः स्ट्रः व्ययब बातवित । **६त्यः इहरुपुत्र**स्वग्दोवशासकासहा । "

The Amarakaia (II, 4- वनी विषयमं-p. 158 of N. S. Press Edition of 1905) gives two synonyms of रिठा viz. सरिष्ठ and देनिस as follows:-" अधिकः केजिलः समी॥ ३१ ॥

Bhanuii Diksita quotes the following lines about अरिष्ट :-

- —" अरिजो क्यने निम्ने केजिले काक्क्सनोः "
- \_" जिल्लेक : " विश्वं क्षेत्राक्ष्यामाचे प्रमि स्वरते च केलिले "
- ... " व्यक्तिको तीक्याको । वेजिकं सरज्ञको बारो वेजकाववि " हे ' वरित्रस्य ' रीठा हरिस्थातस्य "
- Sarodnanda (A.D. 1159) in his commentary on the Amarakoid (T. S. Series, 1915, p. 85) explains :-
  - " वरिवार्ष वरित हति क्याते । केनवोगात केविक: ! "

Ketrasodmin (c. A.D. 1050) explains Amera's line as follows :-

" न रिष्यम्थनेन अस्ति रहाहेतुः । केनाः सन्ति सन्य केन्तिसः"।

चनाः सान्त बस्य पुत्रवतः । चन्नोरम्—" *स्वित्रस्य सम्बद्धाः स्वत्रवीतोर्श्वसायसः* ।

रक्षाचीत्रः शीतफेनः केमिलो गर्मपातनः "

(See p. 87 of Amarakofa, ed. by H. D. Sharma and N. G. Sardesai, 1941).

The Prakrit-Hindi Dictionary "TENRENEWS" by Haragovind Das (a. 884) refers to 1821 as follows:

" रिह ( रिष्ट ) फलविसेष, रीठा. "

1]sages :-(1) उत्त ३४. ४ ( उत्तराध्यवनसूत्र ),

सल ३४. ४ ( सलकोशा commentary on उचराध्ययन ).

The reference to feat (fest) in the Ustarādhyayanasūtra is important as it is the earliest reference to the soap-nut from a Prakrit source but it mentions only the colour of affere (fruit) which Jacobi calls Sapindus Detergens (S. B. E. xlv., p. 197).

The lather-producing property of five times or unser! was recognized very early as will be seen from some of its names recorded above viz. "aftered, "after," after, after, etc. In the same manner the lather-producing property of first (wife) was also recognized as we find from its name via. Withou seed by the Amarabala (between A. D. 500 and 500). So far I have not recorded any text to prove the use of first (sospin) for mothing purposes but the following evidence from the Manumpti conclusively proves the use of wiftee or wifter or first for cleansing purments:—

Manusmeti, V, 118, prescribes the use of water for cleansing corn and garments 1:-

'' अजिस्तु श्रीकृतं सीचं बहुनां चान्यवासस्याम् । प्रशासनेतः स्वस्थानामज्ञिः श्रीचं विद्योगते ॥ ११८ ॥ ''

In V, 120 the Manusmiti prescribes the use of aftes ( रिता) as follows:-

**धीफलेरबु**पशनी श्रीमानी गीरसंबंधः॥ १२

Bubler translates the verse as follows:—
 "The manner of purifying large quantities of grain and of Closk is to aprinkle them with water: but the purification of small quantities is prescribed (to take place) by washing them."

 S. B. E. Vol. XXV, 1886, p. 189-190).

2 Rubler translates this verse as follows :-

"Silk and woolen stuff with alkaling earth; blankets with pounded Arisja (fruit);
Adjounted with Bel fruit; jiopn cloth with (a paste of) yellow manad."

This verse gives us a fair idea about the use of materials used for cleansing carments of different kinds by ancient Indians. I may therefore, make some remarks on them as follows :-

(1) 39 is to be used for cleaning कांसेप and आविक garments. कीसेर is silken garment. आदिक is woollen garment (मेक्स्मिनिर्मित कम्बळं). It was also called IRE: ( रोमक्स: )-Halavudha lexicon :-

" प्रायां मारिकः मीरभ-रह्नक-उनांव-केश्लाः "

Aven or AV: is saline earth or BIFFREI. It was found near Benares in plenty at a place called बदतारदेश according to Dallana (c. A.D. 1100): -( उपक: भारमानका चारालयीमामीचे सहत्राकेनी बाहरदेन भवतीति इत्याः ).

Buhler observes about some words in the above verse as follows :-" MILE i.e. Sabindes deterems, the Sood-berry tree. MERE means according to

Gov, Nand, and Nar. "cloth made of thinned park, according to Kull, and Ragh, upper eatments for women (Sdels) made of fine cloth ( 928125 933121 )." (Thid. p. 190)

I note here some remarks of the commentators of the MausSerti on V. 120 -

- ( 1 ) नेवानिव captains स्वा: 35 " काश्वनमुद: ". He further state: that अरिष्ट बंद. are to be used to remove fatty spots on garments ( स्नेहादिकें सति उदकेन एनेए। इम्बान वर्जनंतिध्योत से.जोन्सेरनादि क्रीयम् ).
- ( २ ) मुर्वज्ञनाग्।वण explains ऋषैः as " उपप्रमद्धिः "
  - (1) इत्युक्त explains सवै: ss "शारमातिकाभि: " and आरप्टक्री: ss "अरिएन्की: "-He explains สารหนับ: as พิสุรภิสติน "
  - ( v ) कदन captains अस्तिकै: = " फेनक: " and धांपत: = " किनफत "
  - ( ' ) रायमञ् :-- अपिष: " अपिष्यञ्चारिकोरकेः "
- and mirage: = " mrmmmerates: " ( ६ ) राष्ट्रवास्ट :— सर्वः = " सारम्भिकारिकिः "
  - अरिष्टकेः = " अरिष्टक्रान्यूनैः " गीरमधीः = " प्रिटाकेनसपेश्वकातनात ( श्रदिः ) "

As regards the use of 34 (soline earth) for washing allk garments I have to invite the attention of readers to the foll-wing use of the ash of the plantain for whitening vellow silk, mentioned by Tavernier, Trusels, Vol. 11, p. 4 (London, 1889) :-

This silk of Kasimbazar is yellow ..... but the people of Kasimbazar know how to whiten their, with a lye made of the askes of a tree which is called Adam's fig (plantais) which makes it as white as the silk of Palesline."

The Editor states that the ash of plantain contains notath and sada salts as also photohesic acid and ma mesia.

On p. 6 Tavernier refers to the custom current at Barada, Broach and Navas ri of steeping crude cotton cloth in lemon juice for bleathing purposes. He also states that the people of Sabs and Abrasinia do not use SOAP. As regards Tavernier's reference to the practice of using the ask of plantain tree current at Kasimbazar I have to state that this practice is very old. Kautilya (Arthaldstra, Book II, Chap. XII) mentions the use of Tibyes for removing impurities of metal ores. A commentator explains file INT so the combination of the ask of plantain tree, apdadega (Achyranthes Aspers), barley and Sessmum, etc. (Vide f.o. 1 to p. 85 of Eng. Trans., 1929).

Hindi — लारामिश: लारव्येषिकावार calls it " क्हरनमव." वर्शगहरूप (8th or 9th cent. a.p.) सूत्रस्थान chap. 15, 23 mentions करक:—

" अवकत्तुत्वकं हिक्तु कासीसहरसैन्वरम् ।

ससिछ। जतु इच्छ्रमगुस्मभेदः इन्हारहम् ॥ २३ ॥ "

Arunadatta explains उपक as "क्पकः, कहर इति प्रसिदः" and Hemadri explains उपक as "झारमुचिका."

The Amarakota (II, I) verse 5 explains an as siregimes.

(2) আছল—Bel fruit (see p. 992 of the ছাৰ্যালয়বৰ্জন by K. M. Vaidya). Mr. Vaidya records ঘটনৰ and ছব as Hindi names of বিছল (Asgle marmelos, which is cultivated throughout India and said to be wild in the Deccan. The pulp of the fruit is much used in dysentery (see p. 48 of Nairne's Planerias Planets).

The Manusmyti prescribes the Bel fruit for cleaning \*\*\text{wave} or cloth made of himsed har is explained by commentators. According to the Pharmacoposia of India by E. G. Waring (India Office, London, 1889) p. 40) the Bel fruit contains tannic acid. Perhaps this tunnic seid of the pulp of the Bel fruit, when applied to bark garments, may have been found useful in giving proper tone to these garments.

(3) गौरसर्वप-White mustard (see p. 601 of अष्टांगह्रव्यकोस ). The

## " गीरस्त सर्पदः प्राज्ञैः भिजायं इति बय्दते "

Manusmyti states that \$\vec{v}\text{ or linen cloth is to be cleansed with mustard. The commentators say that linen is to be washed with stater mixed with pounded white mustard (situ-wireferite). In Waring's Pharmacopoesia (1868) p. 23, White Mustard (Sinapis alba) is mentioned.

It is for chemists to say what action was produced by भीकल, गीरसर्थ इप, etc. on the different textiles, for cleaning which these materials were used by ancient Indians about 2000 vers ago.

From the Manusmṛti we may now pass on to the Yajnavalhyasmṛti (Chap. I-wwwittentu). The Drawyaiuddhi-prakarapa (p. 261 of Anandahrama Edition, Vol. I, 1903) of Chap. I of this Smṛti practically repeats the verse of the Manusmṛti v. 120 with some additions' as follows:—

<sup>1.</sup> The use of com's urine ( নীমুর ) for cleansing woolen and silken garments may be noted. Dr. Neuburger (p. 175 of Technical Aru, etc.) observes :--

<sup>&</sup>quot;Its India the roots and crushed fruits of various kinds of easy tree were used. Moreover, gries, which these weakers or millers, who were the fullows of the Romans, subtends in pitchers which had been pleased feer use at the street corners served as a damleg material sfeer it had been demograced in consequence of its centent of moreover, it removed fits and also exted as a cleaning agent. This cleaning statio was thresh interested owings to the full beening porthy spended by the cameric that is soop thresh interested owings to the full beening porthy spended by the cameric that is soop to the contract of the contract of the contract of the contract that is not the contract of the contract of the contract of the contract of the contract that is not the contract of the contract of the contract of the contract of the contract that is not the contract of the

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" Albanial sanitalism :
  क्यांच्यीरंक्यई सारिष्टैः कार्य तथा ॥ १८६ ॥
  क्रिक्टी: हीर्म प्रमाणक क्रमान्य । "
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The commentator Apararka explains the words in the above massage as follows :-

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इतः = ब्रास्थिका
                ----
                बंबर्ग = वेत्रपर
(Ante's Dictionary explains 33 as "fine silken garment").
                व्यक्तिं = (१) किस्
                  (३) देनिकच्ये
                बीविषं = बोबोवर्गः प्रसरीतर्थः
                कर्ण = पार्वतीनं क्रमरोययर्थ क्रमक्रमसर्ग
                की - स्क्रीपरं का
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Apararka quotes from various texts 1 on the question of the purif. cation of carments and other materials. Those who are interested in

ma formal." On p. 115 Dr. Neuburger states that the excients were not, however, and of the chreskel action involved in the above process. H. L. Brose states (p. 176 fa.) that write was used in England upto 40 years ago for accuring cloth. Kausilye in his Arthaldron (Book II, Chap. 12, p. 85 of Eng. Trans., 1929) refers to

the use of the wine of the Com and other materials for removing the impurition of metallic ores. 1. I record here some of them partly :-

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देशतः— " स्त्रीकीशेख्यायाः बीयस्तरकत्त्राः ।
                 अरक्षीया अवस्थेते शोवनप्रोधनादिशिः ॥
                 त्मेपेपवंतप्रकार्ययोगीः सर्वः।"
     हारीत:— " सर्व स्तरतं अपनेन शक्तिः "
      महिराः— " उत्तरित-क्योक्स्पर्याचे व सर्गायक्तात ।
                  स्केतनत्त्रकाची-वर्वनैर्गक्रमाम्बीवयानाम् । "
                  ( उद्धित = Battermille : समीक्ष्मत = earth from the ent-bill ).
      विण्य:-- " न्याबे: मृगरोमिकवाय " ( न्याख = Lous seeds )
     हारीत:-- " बारोबाओ क्यांसक्तकवाना, पत्रबोक्कारिटे: बीम्बरोर्णाना, पत्रबोक्कोरिकस्क
                 मित्रनाम् ब८"
(What is प्रजीवड? The मावपडाल mentions जीवड as a Plant growing on the summit
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of the Himsleyes with a bulbous root like markic and with leaves round and long.-See p. 241 of WEITESTER)

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a≣: — " वैकानां प्र-मस्य-गोमत्र कारोदरैः "
ब्रह्मपुराम- गोमुक्कारवारि prescribed for classing
काराः—" तुम्बद्धारुप्रभू वेदनक्षीनदेशुक्तं वेतुनिर्मन्त्रक्षकादीनां वैस्तर् शीवम् ॥"
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the history of the materials employed by ancient Indians as cleansing agents may study these texts for what they are worth.

The materials mentioned by Apararka as cleansing agents on the strength of various Smrti texts may however, be briefly noted here:—

(1) awarft (hot water); (2) will or subse; (3) we or powder of we, of seq., seq., seq., seq. (4) ways; (4) ways; (5) seq.; (6) seq. (5) seq.; (6) beginning of seq., seq

The ancient Aryans had mastered the art and science of social and individual hygiene to a remarkable extent as will be seen from the above list of purificatory materials ( की-व्याप्तक) and their specific uses meterials in the Dharmadistra texts.

Our cursory study of the antiquity of soap and soap-nuts raises the question about the use of any of the above materials by professional sutherms of ancient India. We have reason to believe that these washermen must have availed themselves of some of these materials prescribed by the Smrtis for cleaning different kinds of surments.

The washerman was called TATE. He was called GATE (artist) and is mentioned as such in the following verse, which mentions the five srusts—(1) Carpenter, (2) Weaver, (3) Barber, (4) Washerman and (5) Shoe.maker:—

" तहा च तन्त्रवायस्य नापितो रजकस्त्रया।

The Yājāwalkya-Smrti (I, 187) states that the work of these artists was pure ( streets: Eft.). Aparārka explains this statement:—

. " कार: क्रिक्री रजकतन्त्रवायादि: । तदस्तकर्ते हृष्यं स्वक्रीयर्थः "

and further

.. " तेत्र रक्षक्रेयकारिभिः संस्कृतानी वचावीनी...हाचिरवसेष "

In spite of the social service of the washerman recognized by Yājāwalkya he comes up for punishment in the following verse of Yājāwalkya (II, 238):—

" वसानवीत्र्यनान्दाच्यो नेजकस्तु परोष्टुकम् । विक्रयायकपाधानपाचितेषु पनान्दसः ॥ २६८ ॥ "

In this verse fines are prescribed for the malpractices of the washerman such as ware ( suches giving clothes on hire), water ( इसमर्थ प्रत्याक्तिकेव कृत्यम् ), वाक्ति ( वाक्तिकं ), विक्रय (sale of clothes), etc.

The Manusmyti (VIII, 396) lays down the following rules sominathe maloractices of the washerman :-

" बाद्यकीच्यके सामे वेशिन्याचेषकः सनैः। त्य वार्मामि वासोभिः विदेश्य वासपेत् ॥ ३९६ ॥ "

Rühler's translation :-

"A washerman shall wash (the clothes of his employers) gently on a smooth board of Salmali wood; he shall not return the clothes for one person) for those (of another) nor allow anybody (but the owner) to wear them "

The washerman was artist ( \$15) indeed in times of yore as he is today but the two Smrtis have not prescribed any fine for the Dhobi's itch of which we hear today !

The punishments provided for the washermen by the Manusmeti and the Yainagalkyasmrts are not codified so carefully as those provided by that master legislator Kautilya in the following passage of the Arthaldstra in Book IV, which deals with Removal of Thorns ( Constitute) Chapter I (no. 228-229 of English Trans. by Shamasastry, 1929 ....

After providing rules against the offences committed by Wegner, Kautilya observes :-

"Washermen shall wash cloths either on wooden blanks or on stones of smooth surface. Washing elsewhere shall not only be punished with a fine of 6 passar but also be subjected for the payment of a compensar tion equal to the damage.

Washermen wearing clothes other than such as are stamped with the mark of a cudgel shall be fined three panas. For selling, moregaging or letting out for hire the clothes of others, a fine of 12 pages shall be imposed.

In case of substitution of clothes they shall not only be punished with a fine equal to twice the value of the clothes but also be made to restore the true ones. For keeping for more than one, two, three or four nights clothes which are to be made as white as jasmine flower, 2 or which

1. Vide Hobson-Johns (by Yule and Burnell, 1903, p. 312) Dheby's itch is a trouble-some outaneous disease supposed to be communicated by cloths from the wesh and Dhoby's sorth is a whitish grey sandy officescence, found in many places from which by boiling and the addition of quick lime an alkali of considerable strength is obtained.

2. To make the clothen "as white as jeamine flower" is well nigh impossible without the use of scap-nuts, alkaline earth, etc. referred to in the Manumyti and the other Sarth as cleaning agents.

are to attain the natural colour of their threads on washing on the surface of panes, or which are to be made whiter merely by removing their lated with a state of the made of the surface of the surfac

Trustworthy persons shall be judges in disputes regarding colour and experts shall determine the necessary wages.

For washing the best garments, the wages shall be one papa, for those of middle quality, half a papa; for those of inferior quality \(\frac{1}{2}\) of a paga.

For rough mashing on big stones, the wages shall be a of a pana.

In the first wash of red coloured clother there is a loss of \(\frac{1}{2}\) part (of the colour); in the second \(\frac{1}{2}\) part. This explains subsequent losses.

The rules pertaining to washermen are also applicable to weavers.

The foregoing rules against the malpractices of washermen clearly prove that these "artistin" have not much changed their ways in spite of the lapse of 2000 years since the time of the Arthaldstra as every one of my readers can testify by comparing these old malpractices with those of modern washermen. Even today our clothes are entirely at the mercy of these artists, who feel themselves at liberty to give them on hire, or to subject them to such malpractices as damaging, discolumire, exchanging, mortgasing or using them personally.

The Amarakola (II, Chap. 10— सूत्रक्त, verse 10) gives two synonyms for matherman in the following line:—

" मिर्वेज्यः स्वातस्यः "

It appears from the term TWE, which etymologically means "dyer" that the TWE not only dyed clothes but washed them as well. At any rate the two professions of the dyer and the washerman were combined by some persons and hence the terms PWEW (washerman) and TWE (dyer) came to be used as synonyms perhaps long before the time of the Amarakalo (between A. D. 500 and 500). The class of washerman flouriabed evidently in the towns with their aristocratic population as the villagers in ancient India washed their own clothes as they do today. Accordingly the Jatakus refer to "the Rajakawithi" the street of conknumm-dyers' in a town. Evidently this reference shows the professional of the professional continuation of the profes

<sup>1.</sup> Vide p. 213 of Pre-Buddhist India, by R. V. Mehia, Bombay, 1939—Chap, on Organization and Production. Dr. Mehia quotes Jitalia IV, p. 21 for the reference to (1988) IV, p. 21 for the reference to (1988) IV, p. 22 for the reference to (1988) IV, p. 22 for the reference to (1988) IV, p. 22 for the reference to (1988) IV, p. 24 for th

sion of Rajake in a thriving condition in an urban locality in the early centuries of the Christian era.

The following tabular statement shows at a glance the Chronology of the salient data collected in this paper:—

### CHRONITAGY.

#### REPROPER

B.C. 285 ... Theorritus, the poet of Syracuse is the first to mention the was of road for Washing.

रिह्न ( रिष्ट ) = रीख ( mentioned in वचराप्ययनस्त्र ).

सनुस्तृति mentions बरिष्ट (= शैका) for cleaning blankets. बर्चेडाच of Kautilya provides detailed punishment for matheman for their misdeeds. The सनुस्तृति and वाजव्यवन्यस्त्रि provide fines for washermen

for their misdeeds.

2nd c. A.D. ... Dioscorides mentions the use of soap mort or fuller's

herb for washing cloths and dresses.

A.D. 79 ... Pliny mentions fuller's herb under the name Struthion.

Pliny mentions soon as the invention of Gauls. He

also mentions hard and soft soaps.

A.D. 131-201 ... Gallen mentions soap for washing. He preferred

German soap to Gallic soap.

3rd c. A.D. ... Serenus Sammonicus, physician to Emperor Septimius

Severus mentions soap as means of washing.

c. A.D. 100-500 ... References to (casp-like substance or shampooing material) mentioned for the use of a man of fashion by the Kâmassit ra.

पाइयक्तरस्ति prescribes बरिष्ट (रीठा) for washingblankets (इटर).

Before A.D. 800 ... कम्बन्तरिनिकार mentions साउठा also called बहुकेना.

A.D. 500-8)0 ... Mention of আছি and ইনিক as names of soap-nut tree ( হিন্দ) in the Amarakala.

c. A.D. 625 ... Mention of सप्तका and बरिष्ट in बर्टागर्समञ्च of Vägbhata I.
A.D. 700-900 ... Mention of बरिष्ट and सप्तका in बर्टागड्य of Vägbhata II.

A.D. 1060 ... Recipe for a soap as depilatory given by Cakrapani.

c. A.D. 1100 ... वहन explains वरिष्ट as "वरीत" (soap-nut).

A.D. 1159 ... सर्वांनन्द explains जरिष्ट as "इरिट,"

A.D. 1200-1275 ... The lexicon Medini mentions सहसा ( किक्सा).

CHIEDNOLOGY	REFERENCES	

A.D. 1483-1721 ... References to soop terminology in Shorter Oxford English Dictionary.

- A.D. 1450 ... राजनिकादु of Narahari mentions सातका ( क्रिकेटाई ).
- A.D. 1469-1538 ... Guru Nanak in his Prayers refers to सपूनी (soap).
- A.D. 1590 ... Ain-I-Ahabari mentions Lowar in Berar as possessing requisites for making glass and soap.
- A D. 1644 ... Bocarro in his Report refers to Sabão (soap).

all over Bengal.

- a.D. 1599-1649 ... Marathi Poet Mukteivara refers to আৰম্ব in his songs.
  - A.D. 1773 ... सायूज prescribed against skin disease in a Poons document.
- a.D. 1788 ... "বিভাগনা বাব" (English scap) sold in Poona market.
  a.D. 1811-1812 ... Francis Buchanan's detailed description of Countryscap manufacture in Bihar. Paina scap was used
  - A.D. 1887 ... References to Country-soap manufacture at different places in India recorded in Imperial Gasetteer which refers to Soap-factories also at some places.



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## THE ORIGIN AND ANTIQUITY OF THE CASTE-NAME OF THE KARAHĀŢAKA

OR KARHĀŅĀ BRAHMINS◆

[ तुन-गूँग पारण्या शिवार श' पराजे बाइयांच्या शिवारणों कार्ये या बानेब क्या कार्येच्या दे दे विकारण होते हैं ये पुराज्या गार्थिया 'रिनेदांगं भिवीरों की सा वार्येच्या 'रिनेदांगं भिवीरों की स्वातानी दुर्व गेर्याण मीत्रायद राज्याचित्रांशंति क्यारिय क्यारिय

या शर्माच्या धार्मी विद्याल दश जगाँव निर्दाणका कार्योच सम्प्रण साहस करायि है दे प्रार्थिक के स्वित कर्म निर्देश कर स्थान करायि है दे द्वार्थिक के त्रार्थिक कर्म के दिक्त कराये के स्वत कर्म कराये के स्वत कर्म कराये क

मारळंड-सरहेकाई पराम्यांच्या इतिहास्त्रस्य व राजपूर वेपील मागवतीना इ. व. च्या वाराम्या इत्रवंत वित्यहार राजीवहन कोडी गांवाकंकी मिडाकेच्या तामक्टावरून विकाहरांच्या कळावाहून वृत्ये इ. व. च्या अकराच्या व्यवकासून बन्हाने माहावाने तळकोकात वारतम्य कवाने सत्ते विकाह

ता झार्याचा तामध्यतीय नुरायां उसा अवेस मुक्तांपरेत गोरित १ ना या राष्ट्रहर प्रकारत हुद १,३- करोत तामध्यता जाता कहीं (हो गोजवानी—" ब्रह्मस्ट प्रकृत मा (मा) हमानाम् स्वतीहरापिक व्यवदारं, ") या तामध्यत्रे पंचायात्रित्ता गोरित क्षेत्रा कर्म महिनो साहम्योत हम तिमा सहर गिराम एवं हमार मात्रायात्र्यात्राहीं, तेन स्वतान्य अस्तान्य कर्मायाः स्वतान्त्राहारं हैं तो हमें निव्हां स्वतान्त्राहार मात्राम् १,४- क्ष्राहरू सहस्त १,०- क्ष्रम साहम्य १.४- क्षरहरू समुख को नाहेग, त्यावन्य क्ष्राहरू वेरे वृद्धांच्या

<sup>\*</sup> History of the Gune Family (ed. V. T. Gune)-Appendix,

E. B. 1941 ( विकास निर्माण ) करूने महार्थण कर्मानेशा त्रीस अन्याप कर्मानिश्व की स्थित कर्मानेशा त्रीस अन्याप कर्मानेश्व कर्माने स्थाप कर्माने स्थाप कर्माने स्थाप कर्मानेश्व कर्य कर्मानेश्व कर्मा

सद्या प्रश्नरे (१९९८)च्यापत् ने झारकायानतर्थनत्यं या झार्याचा रेत्या झार्या ९०० वर्षास् सिक्स्य साहितं या निक्षति काली महो व झुमरि ५०० वर्षाची या झारीतील विद्वारत्यां परेशा राजक्य झाली आहे, वाक्तन या, मोक्या हा निकंप निहिम्मात किनी परिध्य कराये साली क्यास्त्र त्याची क्रमाना साम्या वाच्यांना वेदंत, — संराह्मक हिम्मा

In the remarks about the Karbidi Brahmins in the Bomby Genetier 'no nature that see made to trace the origin and development of this sub-caste of the Mahirāşira Brahmins on the strength of documentary or inscriptional evidence. John Wilson in his Indian Caste' devotes four pages to the Karhidi Brahmins, but I fail to find in them any historical fact about the antiquity of this caste of the practicesalleged to have been once current among them. I may note here a few noints from Wilson' tremarks:—

- (1) The Karahātakas or Karhādās received their designation from the town of Karbād near the junction of the rivers Krenā and Koyanā; about 15 miles to the South of Satara.
- (2) The Sahyādrikhanda shows a spirit of violent hostility to them.

Ville Vel. IX, pr. 1., 40° cote 8 (Kuchish), a cance of Brahmins in Grigare, modern immigratis); pp. 48, 48, 49° Cote 1. Kuchi to be thirpworked strangers. Brithenges by Paradoxine; p. 10′ (cote 3), and pp. 40°, 498—Stranger Celerant shows in K. p. 488 and fost 5 and 590—Gibbs erigin of Bratterija Kuchidals; Kuchida

<sup>2.</sup> Pub. by Times of India, Bombay, 1877, Vol. II, pp. 21-24.

<sup>3.</sup> The Subjective Recognitions was matter about the costes in the Mashitatus I was used as subdepty in sack-dispute during the 17th and 18th contraint. No attempt has, better, and the property of this source and authority pertainfing to the history of castes in the Mashitatus. No citicing edition of this work worth the team has been attempted by any one by collecting all available MS materials.

- (3) They have 10 gotras:—(1) मारहाय; (2) कीकिक; (3) वरंस; (4) कीकिकः; (5) काश्चर; (6) वसिष्ठ; (7) जमदक्षि; (8) विश्वामित्र; (9) गीतम and (10) वरि.
- (4) In the Brahmändapurāņa, (adh. xi) the Karhādā Brahmins are denounced. Wilson observes that this denunciation "is probably the production of some of the Defastha Brahmanas, whose antipathy to the Karhādās is well known."
- (5) Wilson states that the practice of human sacrifice alleged against the Karhdisis into Sadyadri-Kangda may have been a truthed one but no instance of it has been brough to the notice of the British Government since the assumption of the Pethwah's territories in 1818. This practice was probably confined to the worshippers of Sakti (Mitrikadvi) among the Karhdisa but it has been totally abanded and there is no reason to clurge the Karhdias of the present generation with the guilt of its observance.
- (a) The Karhöjüs appear in every way as respectable as their eighbours. The great Marathi post Meropant was a Karhöjü Brahmin. To thin easte belonged "one of the most learned natives who has yet appeared in Western India, the late distinguished Bija Gangidham Sastri Jambaker believe in the late of the
  - 1. Vide p. 448 of Indian Caste, Vol. I, 1877,
- Except the scandalizing gossip of the Sahyddri Khanda no evidence of a historical document has been recorded to prove that the custom of human escribes was current smoogh the Karhddis at any time of their history.
- 3. The calcutal history of Mahifettes has not here scientificatly investigated chapt spine interrigifes such an investifation new cities in our historial rendrés and MSS Liberation. The Mahifette Brahmins of all vub-castes inducing the Karhéjéte men have played a prominent religion clinic culturalistics; possible to the course of my historial indices spread works has 27 years. It have written must than 20 research played to the course of my historial indices spread works have all the men and the course of my historial religion of the course of the cours
- (2) Rághavo Apā Khāndehar of Punyastambha-Hii Works and Descendents-(From A.D. 1730 to 1942)—Ansoli (B. O. R. Institute, Poons) Vol. XXIV, pp. 27-44. Rāghava Kari una a versatile pandit. He has written works on jyahij, hala, poetry, etc. in Sankrit. He has also comonosed some good religious poems in Marathi.
- (1) Rashmaithe Gassich Nandausta ( অবলি )—Between A.D. 1600 and 1710—He was Upsichytys of the Chiphel Math of Saint Rimedias and also a great friend of the Saint. Rashmatha was a pupil of নানিই the author of হাটিখনিয়েন etc. Rashmatha was prest Sanakrit Pandisand composed নানিয়ন্ত্ৰিক, নানিয়ন্ত্ৰিক etc. After Saint Rashmatha's death in A.D. 1622. he migrates to Tongore and composed some Marshit.

The remarks of Wilson regarding the Karhādās made about 70 years ago show rather his earnestness in recording available informs. tion than his deen knowledge and first-hand atudy of the different castes of India. For a scientific study of the Indian caste-system a historical study of the different castes is absolutely necessary and for such a historical study the antiquity of the several caste-names now current needs to be studied on the strength of documentary evidence. No scholar would be justified in resorting to any kind of "kite-flying" method of research unless all the available sources are exhausted: but the popular tendency is to record a series of surmises on a given problem, which are detrimental to the historical truth and its correct perspective. All caste-names presume the existence of caste-consciousness in an intensified form and the proper approach to the historical atudy of castes in India must be made through a study of the antiquity of the caste-names now current. The antiquity of a specific castename can be determined by noting actual usages of it in documents of known chronology and when this antiquity is once established beyond challenge we are in a position to presume that the caste consciousness of a particular social group lies somewhere in the vicinity of the castename, the exact distance in time between the origin of this caste and its earliest discovered usage, being still a matter for further exploration and critical research.

To believe in the traditionel gossip about the antiquity of a historical fact is one thing, while to prove such antiquity on the strength of

works under the patronage of Queen Dipublic, the wife of Elapij Blowsie, the brother of Shirigij Blowsie, Rughandtha Schoppet to Bildais in the Sattern Dist., He was the Faith agene. [Vide my papers on this author in Jave. Benshy University, vol. X. Paper 2 (Sept. 1981), pp. 13-147, and in El. no. 11, 10 vol. XXII, pp. 23-433 and No. 11 vol. XXIII, pp. 23-433 and No. 11 vol. X

(4) Rajasenha Mahalero Ghire of Hand son: Rejapor (a.s. 1860-125). Hochestech his son: the Shattie masses as proved by his one heter this legent. The radiation of fearning in the Ghire fearly has been maintenined since a to 1000. About Rajasenha Ghire was highly religious max per son years of the Mod. Rajasenha Ghire was highly religious max the composed sons works on themse used to the Charlest Chief, Paris of the Chief, Vol. II, No. 3, (1) pp.)—and another paper on Rajasenha his chief his Paris of the Chief. Paris of the Chief. The Chief has the paris of the Chief. Dataset of the Chief.

(5) Krienskint Perskin (hetwen AD, 1600 and 1605 or co). He belonged to Purps new Backhamble, my om natice place in the Seagamentur Teals of the Rattagiff Dist. (Vide my paper on him in Annal B. O. R. Institute, Vol. XX, pp. 237–238). He was prevenied by Chartespin, Shirnji, Sambhaji and Rajeram, My friend Mr. V. S. Bendre has polithinde Kedeva's (1) (TRURPRES and C) VPRES. Kedeva's demonstrates are full at Parse subvisce the falson given by the Chartespin. documentary evidence is another. Mere verbinge written in a journalistic style for popular consumption has no historical value. It neither calightens the writer nor the readers for whom it is written. Without analysis there can be no synthesis and the greatest harm done to the advancement of knowledge can be safely attributed to the habit of gossiping, which though refreshing to the mind is positively detrimental to a serious unraised in knowledge.

The emphasis laid by me on the necessity of studying the antiquity of casts-names is not a mere academic proposition for me. To illustrate the method to be adopted in proving such antiquity I contributed to the Journal of the Bombay University' a paper on the "Antiquity of the casts-name Servi."

In this brief paper I took a survey of the available material bearing on the antiquity of the caste-name Sents and proved on inscriptional evidence that the term "Sennai" mentioned three or four times in the Pandharpur inscription illustrates the usages of the caste-name Segoi (= Senoai) in the 3rd quarter of the 13th century A.D. for the reason that the inscription in question is dated a.n. 1276.2 The usages of the term "सेगवे" and " सेगवी" in the inscriptions of the 13th century have a special value for the students of the history of Indian caste because these usages definitely establish the antiquity of this caste for more than 700 years and it can be taken back by a few centuries earlier if not more.3 It is, however, difficult to envisage conclusively the exect degree of this antiquity for want of documentary evidence of a contemporary character. My friend Rao Bahadur Talmaki, who has written a book on Sarasvat Families told me personally that, he had not discovered such early usages of the caste-name "Senti" as established by me in the small paper referred to above.

Since the publication of the above paper I have contributed another paper of the above type to the Rao Bahadur G. S. Sarderai Commemoration Volume on the antiquity of the caste-mate "Göbi." The present

Vol. VI. Part 6, pp. 152-155 (1937).

<sup>2.</sup> Vide p. 9 of मराठी मांचेनी पांड by Y. R. Date in his "महाराष्ट्रमाचाध्यास" (1936), [a the Gominata's Copperplate of Saka 1221 (= a.p. 1299) " सेमची फुंड " and " मांच मेंची" "re mentioned.

<sup>4.</sup> Vide pp. 213-222 of Sardesai Comm. Volume, 1938.

(g. A.D. 1590-1660)

accounts of this caste-name given by the members of this caste of Sebermen, living slong the Konkan Coast state that the term "Gabit" is derived from Grab or Gurab (its present form). By this explanation they try to connect the Gabits with Shivaji's navy, which consisted of gun-boats called Grab or Gurab and the men who worked on these gun. boats came to be called Grabits or Gabits. I have proved in my paper on documentary evidence that the explanation of the caste-name Gain as given by the members of this caste and incorporated in the Thanabala and the Sabdakosa and even adopted by Enthoven in his Tribes and Castes of Bombay is a pure myth. Shivaji the Great was a great bero. He had also a great navy and any association of any set of people with his great navy must make these people great but this patriotic derivation for which I have every sympathy, has no foundation in fact as it is directly contradicted by a document. This document contains the usage of the term "Gābit" in 2/3 places and also mentions a coastal settlement of these Gabits near Deogad called Gabit-mumri. a name still current as my friend the late lamented Rao Bahadur W. A. Bambardetar assured me personally. The date of the document under reference is an 1633, a year when Shivaii was in his infancy. Now to connect the antiquity of the word Gabit with Shivaii's navy when its usage is found in a duly attested document of A.D. 1633 would be sheer anachronism. Evidently the term Gähit had come into existence prior to a n 1633 and its genesis must be sought in earlier sources. Whether Maratha or Portuguese, even if we accept the derivation of the term Gabit from Grab (a gun-boat). Another way of studying the antiquity of a caste is through a study of the antiquity of a particular family, which is now known to belong to that caste. For instance, my friend

(c. A.D. 1630-1700)

(c. A.D. 1620-1660)

जनन्त ठाइर and नारायन ठाइर possibly belonged to a cousin line.

<sup>2.</sup> This is a sale deed of property in favour of राम ठाईर (dated 28th February 1633) of Jamsande near Deogad. Ram Thakur is the earliest of my ancestors who may be assigned to the period A.D. 1590 to 1660. I have proved in a senarate note that the old name of the present Gode family was Thicker and it was current unto A.D. 1800 or so. The present Thinking of lamsande and Goder are identical as they are Kothada Brahmins of Kalvana Gotra. The Gode Rakhar records EEGIE near MINRIE as the native place of नारो रायाची ठाकुर who led 19000 troops against Tulaji Angria in A.D. 1748 (Jan. to March) and demolished his fort महागढ. The Salshi Defter with the B. I. S. Mandal. Poons, contains 20 sale-deeds of properties purchased by Thalkurs of Jamsanda between A.D. 1633 and 1685. Members of the Thakur family mentioned in these sale-deeds are - TIR 2787(4.0. 1633 and 1640) - FEET 3787 (4.0. 1640, 1645, 1648, 1669, 1630 1676, 1679, 1685); जान or जानोवा ठाकुर [A.D. 1649, 1650, 1651, 1654, 1656 (he is called सीदागर), 1657, 1659, 16601; अन्त (अनन्त ) ठाक्कर (A.D. 1657); नारायण ठाकर मोदादम (a.p. 1659 and 1660) purchased a property from रोगमट गोपालभट रानदिया (रानदे). Of these persons the line of TH 3157 is clear from the documents. It is as follows:-राम राकर --- 400 बान वर जनोबा राहर ---> 400 विटल वर विरोबा राकर

Mr. G. S. Sardessi of Kolhapur has tried to establish that the history of the Sardessi family belonging to the Karhdig Benhmin caste could be traced back to about A.D. 1150, when the Silähära King Vijayirka was unding over Kolhapur. Even if the continuity of this family from A.B. 1150 to 1943 and all its varied branches is proved the history of the contenuate "Karhdigh" as applied to this family still remains

In the grant' given by Raja Bimba to Parupottama Pant Kävale in An 1299 wedon't find the caster-anne "Qure" applied to him. He sus the Rajaguru of Raja Bimba. His descendants are still living and they belong to the Delantha Sukha-yajurendiya Benhampa caste. The grant mentions the surname "Kémolé" now current among his descendants. This document of a. D. 1299 though it may establish the antiquity of the antiquame "Vicativa" can be called the thing of the strength of the surname to "Vicativa" can be called by the surper constitution of the surper constitution of the surper cannot be considered to the surpe

In the History of the Gokhale-Rätze Family' prepared by Mr. Ape letter dated Sale J110 (= A.) 1883) we find mentioned the new "Barne Reg wirster rivers." We know that the Gokhale family belongs to the Chippinn caste of the Mahadestra Berhaims. It is impossible to conclude, however, that the term "Cippinn" was actually in use in Az 1883 unless such usage of the term "Cippinn" is actually found Az 1883 unless such usage of the term "Cippinn" is actually found

It will thus be seen that though the above usages of the sur-names "Kåeale" and "Gokhale" may be found in documents of n.D. 1299 and 188 respectively, no conclusion can be arrived at on the basis of these usages as regards the antiquity of the caste-names "Delastha" and "Citadoan".

Coming now to the question of the antiquity of the caste-name "Karhāda" it may be emphasized here that an attempt to prove the antiquity of this caste through the antiquity of surnames of families now belonging to this caste can never be successful because one and the

<sup>1</sup> Vide p. 14 of सरदेसाई घराव्याचा इतिहास (पूर्वार्थ माग १।२ ). 1926.

<sup>2.</sup> Vide Appendix A (facing p. 88) to देशस्य गुक्रव बुधेदीय त्राह्मण झार्चा सरी माहिती br N. V. Vaidys Pursacure, Bombay, 1884.

<sup>.).</sup> Pt. S. Chitrac Shatri states that the expression "বিশাস স্থানিট্'' has here remoted for the fort time by King bottis, under of the KPUNLET Work was a pretize of Shirpji the Great (a.n. 1633)—Vide p. 311 of the Marathi Magazine Sammita (Omiter 1943). I shall refer later in this papers to the expression "Quan Magazine" sammangel N° good in the Provision of मिष्टिश्वतीची पश्चर composed in A.p. 1468 according to historian

<sup>4.</sup> Vide p. 227 of गोलने व गोलने -रास्ते चराच्या वा इतिहास by Govind Vinayak Apte, Poona, 1922.

accounts of this caste-name given by the members of this caste of finhermen, living along the Konkan Coast state that the term "Gabit" is derived from Grab or Gurab (its present form). By this explanation they try to connect the Gabits with Shivaji's navv. which consisted of Run-houts called Grab or Gurab and the men who worked on these Runboats came to be called Grabits or Gabits. I have proved in my paper On documentary evidence that the evaluation of the caste-name Gibbs as Riven by the members of this caste and incorporated in the Trianghola and the Sahdahola and even adonted by Enthoyen in his Tribes and Castes of Rombay is a pure myth. Shivaji the Great was a great hero. He had also a great navy and any association of any set of neonle with his great navy must make these people great but this patriotic derivation, for which I have every sympathy, has no foundation in fact as it is directly contradicted by a document. This document contains the usage of the term "Gabit" in 2/3 places and also mentions a coastal settlement of these Gabits near Deogad called Gabit-mumri, a name still current as my friend the late lamented Rao Bahadur W. A. Bambardekar assured me personally. The date of the document 2 under reference is A.D. 1633, a year when Shivaii was in his infancy. Now to connect the antiquity of the word Gabit with Shivaji's navy when its usage is found in a duly attested document of A.D. 1633 would be sheer anachronism. Evidently the term Gabit had come into existence prior to A.D. 1633 and its genesis must be sought in earlier sources, whether Maratha or Portuguese, even if we accent the derivation of the term Gabit from Grab (a gun-boat). Another way of studying the antiquity of a caste is through a study of the antiquity of a particular family, which is now known to belong to that caste. For instance, my friend

<sup>2.</sup> This is a tile deed of property in factor of UN SIRT (dated 25th Poleony 150) of Jimaholes see Though. Am. p. Table in the critical of my excentive story be assigned to the period A.D. 150 to 140. I have proceed in a separate cent that the sub-assigned to the period A.D. 150 to 140. I have proceed in a separate cent that the data man of the present Glor family war. Pathick see it was current upon A.D. 150 or so. The present Tables of Jimahole and Gloda are indentical as they are Kerhold Diminish and Gloda are indentical as they are Kerhold Diminish and Gloda are indentical as they are Kerhold Diminish and Gloda are indentical as they are Kerhold Diminish and Gloda are indentical as the same of the Table and the same of the same of the Table and the same of the Table and the same of the Table and the same of the

राम ठाकुर  $\longrightarrow$  son बात or कनोबा ठाकुर  $\longrightarrow$  son बिट्टन or बिठोबा ठाकुर (c, A.D., 1590-1660) (c, A.D., 1630-1600) (c, A.D., 1630-1700) सम्मन्त ठाकुर and नारायण ठाकुर possibly belonged so a cousin line,

Mr. G. S. Sardesai of Kolhapur has tried to establish that the history of the Sardesai family belonging to the Karhādā Brahmin caste could be traced back to about a.D. 1150, when the Slithāra King Vijayārka war rulingover Kolhapur. † Even if the continuity of this family from a.D. 1150 to 1943 and all its varied branches is proved the history of the caste-name "Karhāḍḍ" as applied to this family still remains problematical.

In the grant given by Raja Bimba to Purupottama Pant Kävale in An. 1299 we don't find the castename "Revu" applied to him the ust neame "Revu" applied to him the ust the Rajaguru of Raja Bimba. His descendants are still living and they belong to the Defaiths Sakla-yajurvediya Brühmaga caste. The grant mentions the surname "Kavalei" now current among his descendants. This document of A.D. 1299 though it may establish the entiquity of the currane "Kavale" cannot establish the antiquity of the currane "Ravale" cannot establish the antiquity of the currane "Pelestha" unless we actually get the usage of this term in admitted the document.

In the History of the Gokhale-Rätte Family\* prepared by Mr. Apte 2 letter dated Saha 1110 (= A.D. 1488) we find mentioned the name "Baraz Reg direct Rivels." We know that the Gokhale family belongs to the Chitpivan caste of the Mahārāṣṭra Brahmins. It is impossible to conclude, however, that the term "Citpivan" was actually in use in An. 1488 unless such usage of the term "Citpivan" is actually found in a dated document.

It will thus be seen that though the above usages of the sur-names "Kānoļe" and "Gokhale" may be found in documents of A.D. 1299 and 1488 respectively, no conclusion can be arrived at on the basis of these usages as regards the antiquity of the caste-names "Delastha" and "Cipādam."

Coming now to the question of the antiquity of the caste-name "Karhāda" it may be emphasized here that an attempt to prove the antiquity of this caste through the antiquity of surnames of families now belonging to this caste can never be successful because one and the

<sup>1.</sup> Vide p. 14 of सरदेसाई घराण्याचा इतिहास (पूर्वार्ध मान १।२ ). 1926.

<sup>2.</sup> Vide Appendix A (facing p. 88) to देशस्यशुक्रवडुंबेदीय ब्राह्मण श्रीची सूरी माहिती by N. V. Vaidya Purandare, Bombay, 1884.

<sup>.).</sup> Pt. S. Chitro: Shatti state that the captusion "ইয়াক স্থাবিট্' has here concled for the fact time by King. Jostis, suther of the KTW-Bigs' who was a protege of Shiviji the Great (a.n. 1653)—Vide p. 311 of the Marathi Magazine Samenta (Gamber 1903). I shall refer later in this paper to the expression "বুজিল Shawagan" (Sam Shawagan) for the protection of বিশ্ব মাৰ্থনি বিশ্ব বিশ্ব Comprised in A.p. 1648 according to historian Raisedde.

<sup>4.</sup> Vide p. 227 of गोसले व गोसले -रास्त वराज्याचा इतिहास by Govind Vineyak Apte, Pages, 1922.

mme surname may be found among the Delastha, Cithdean and Karhidi Brahmins of to-day e.g. the surname Patoardhan is found among the Cirodomu and Karhadas as well. Then again we find this our-name associated with different gotras. This makes confusion worse confounded. The method of studying the antiquity of castes on the basis of a study of sur-names requires in the first instance the compilation of an exhaustive Chronological dictionary of all sur-names, where the record of every usage of a sur-name in any document, whatsoever, of definite or approximate chropology is systematically recorded. When all available records are utilized in the preparation of such a dictionary we shall be in a position to have at a plance the earliest known usage of a particular sur-name, proving the antiquity of and also the subsequent history of the family bearing that surname. With a view to have an idea as to how such a dictionary can be compiled I have myself collected and arranged chronologically some usages of sur-names from varied records of known dates. The value of such a dictionary for a study of family history is inestimable because it is bound to furnish clues for a search of family documents, which will be useful for reconstructing the history of a particular family of any caste, whatsoever.

To reconstruct the history of known and historically celebrated families, with sufficient records in their possession is comparatively an easy task when you arrange these records in a chronological order and publish them with an exhaustive names-and-places Index; but to reconstruct the history of unknown or extinct families on the strength of casual references to them in manuscripts and other records is a very hard task and it is exactly for this task that a chronological dictionary of sur-names should be compiled. I shall now illustrate my argument hy a few examples. The sur-name "adhye" or "adhye" is a Karhada Brahmin sur-name. My friend Mr. S. B. Adbyc, now a pleader residing in Poons, cannot produce any documents to prove the antiquity of his sur-name. My dictionary will give him some help in this respect. I have recorded two names of the members of this family viz. (1) A.D. 1660-1669-17842 4141 (RK-20-284) and 41742 4141 (A.D. 1669-RK1-20-283). In the same documents where these names are found we have the name of a person having the sur-name few (A.D. 1669-RK-20-283) which is possibly identical with the surname fast now current among the Karhādā Brahmins. "बाटकर" is a Karhādā surname and Mr. Trimbak Dāmodar Tātkar of this family is now a resident of the Savantwadi State. My dictionary shows two references to " ALE ", one of A.D. 1697

RK =राजवारे (सापने-संद ).

<sup>2.</sup> My friend Ruo Bahadur Sardar M. V. Kibs, M.A., who is interested in the antiquity of his sumanne may note this usage of "Fed!" (A., 1669). The singular usages of sumannes like परिचला (for परिचल); नेवा (for देने); [Baqui (for Bah]); लेपि (for vit) are now current in Konkko. They are also found in many old documents.

(Ping. 50) and the other of a.D. 1722 (Ping. Ap. 41). These are inspance of Karbidā surrames incidentally gathered and recorded in any tenstrive chronological dictionary of surrames. I shall now record both the use of a Citylono surrame as an example to illustrate my bright. On a document dated 5th April 1076 I find the signature of surface my the serves when "1." In the Ratangir District near 1900 or have a village called "n'th surram". In the lod name of which was "effect when the surram "the old name of which was "effect when "in the surram" in the old name of which was "effect with "in the above document has something to do with "effect with with "in the above document has something to do with "effect with the old name of the place as reported to me by the above member of sist family.

The foregoing instances are sufficient to illustrate the value and importance of a Dictionary of Surmaner's as a mocessay preliming step to a closer study of the problems pertaining to the origins of step to a closer study of the problems pertaining to the origins of different castes in India. Anthropology or sociology must take count of History and hence an organized effort to investigate the historical night of every problem is absolutely necessary as a valuable correction of antifering the control of the problems in the control of the problems and the problems are the problems are the problems are the problems and the problems are the proble

Leaving specialists to study the surnames, their origin and development or extinction perhaps with the extinction of families

- 1. Ping = Pingulkar's History of the Seventwedi State (in Marethi).
- 2. Vide p. 421-2 of सरदेसाई प. इतिहास उत्तरार्थ संब २.
- 3. A Distinsory of Sureman based on contemporary documents will be able to fine the strateging of each sureman to the center of the documents y crident. If each historian of a particular family records the suages of suremans found in the sources of the strateging of the particular family records the suages of suremans family that the particular family records the sureman family of the particular family records of the particular family that the particular family of the particular family of the particular family family family property by v. V. Adalys (1993) is a letter of Skirnji dated das Marsk 1976 (ridge, 13). In this letter the particular family family family property by v. V. Adalys (1993) is a letter of Skirnji dated das Marsk 1976 (ridge, 13). In this letter the surgant "HIGHS" is recorded for the following persons: (1) Switzer can (1993) and the particular family of the particular family of the particular family of the particular family of particular

### " **डे**शवमट बाठक्ये उपाध्ये व धर्माधिकरणी तथे देव**डे**"

The Kanhada sumames in this document of A.D. 1600 are: – (1) पान्ये उपनाम गोकस्तीस्त्र, (2) प्राप्ति कर राजपृतिहत्त, (3) सदे, (4) गरे, (5) सर्दर्शाहे, (6) सरदेगङ्गकवारी. vide p. 2) of V. S. Ber der's स्पन्नती के स्थाप परिवार, B. I. S. Mandal, Poons, 1941.)

4. নাগে প্রিয়ান নামত বিশাসন্থান (বৃ. বুঁ.) — Sale 1817 (A.s. 1915) p. 26. - Vide Mr. G.K. Chandofrest' stride on the copeppaint greates of the Chilay's leigh general सीम्परीएस. These greats contain surmannes such as মুখুবাল, বিশাস, বুলাইন, নাম, বুলাইন, বিশাস, বুলাইন, বিশাস, বুলাইন, বিশাস, বুলাইন, বুলাইন,

bearing such surnames I proceed to record in this paper some dated usages of the caste-name "Karhādā" with which I am mainly concerned here: --

- (1) During the time of the Peshwas the caste-names Kohkapasihka or Cippran, Karhide, Delarkha etc. were quite common and these castes were clearly marked out. In the list' of Peshwa's clerks of Ao. 1774-75 we find inone list \$4 Kohkapastha, \$15 Karhidget, 2 Delastha while in another we have 28 Kohkapastha, \$5 Delastha, \$7 Karhidget, and Markhid.
- (2) In a letter dated 11th May 1760 the Peshwa Sadishiv Chimnaji asks Govind Ballig (Kher who was himself a Karhádi Brahmin ribo to intervene and settle up a dipute between the Citpāran and Karhádga Brahmin and Karhádga Brahmin S. The exact nature of this dispute is not known to us but usuch disputes were quite common during the Peshwa's regime as the caste-differences were quite marked out during this period.
- (3) In a letter 3 from Balakrsna Diksita dated 7th May 1751 we find names of persons with surnames as follows:—

गोविंदमर बहा, श्रामशयमर गाइतिळ, कृष्णराव धनुर्धारी, गणेश र्वाक्षित ओह, वोरेपश्मर केळकर, सदाणिवमर रंगळे, नारी महादेव मुळे. The writer also mentions "वाच मात कराहे".

(4) A letter dated 13th February 1731 addressed to Väsudeva Dikşita, possibly from Benares, mentions ঘাৰুত, কৰাইছ etc. It also refers to surnames like বহল্টৰ, লাক etc. One "ৰামুখিৰদৰ দুলি কৰাই" is mentioned in this letter as recipient of a sum of Rs. 40.

(5) In a letter<sup>1</sup> dated 20th December 1735, Nirāyana Dikṣita Patan-kar the guru of Peshwa Bājirao I complains that the Peshwa's mother Rādhāhai made unfair distribution of daḥṛjaā to Brahmins of Benares of different castes. In this letter I find the usges of such expressions as "पराणवान 'का वा 'का पार्टी पार्टी ' 'का पार्टी पार्टी ' का पार्टी ' का

(6) In a letter from Chimaji Appa to Brahmendra Swami of Dhavadshi we find the following statement:—

 Rajvode Source of Maratha History, Khopda XV, (750-1761)— "বিশেষক র কর্মার বাবা করিলা"—" কলকার্টা কা কলে স বাব "

Rajwade remarks on p. 273 (foot-note): -

"कञ्चाचे स्वरूप काम होते ते कटने तर बरेंच अञ्चासनाम होते " 3. Vide Reimede, Khanda J. p. 356, letter No. 383.

4. Ibid, p. 346, Letter No. 376.

5. Perha Daftar Selection 30, letter 147.

6. Brahmendra Cavitra by Parasnie, letter No. 145.

" विवासी देवदृश्याची मानसे जतन आहेत. "

<sup>1.</sup> Vide नेमणुक जावता ( इतिहाससंग्रह )-Nov. to Jan. 1916. Vol. VII, Parts 4 and 6, pp. 296, 298.

Perhaps the १००० Brahmin caste is referred to here. This letter is of course of a date prior to 17th December 1740, the date of Chimaji Appa's death.

- (7) Viśvanātha Gopal Joshi of Sangameshwar (Ratnagiri Dist.) who composed his dharmadāstra work Vratarāja\* in January 1736 mentions in it that he belonged to Citatāfāsan caste ( "र्षण्यापननार्वाण")
- (8) In the Koñkaṇa-Ākhyāna³ composed about A.D. 1750 there are references to the Karhādā and Citpāvan Brahmins as will be seen from the following extract:

We are informed by the author of this distyine that a Gaude Banhain from Gominatea (Gos.) composed this distyine about 175 age ago (i.e. about A.D. 1750). The author further informs us that both the Karadad Brahmins and the Gaude Brahmins of Kudila (Savantwadi Statc) are followers of one Yeda wit: the Rereda. Besiden this similarity they have some surnames with corresponding getras in common with the Karadad Brahmins. \*\*

Vide p. 9 of the Prastituana to the History of the Kudôlodela (1915).

(P. 47) — बेरावास तुर्विणाव तथा गीराइसारिकः। क्रीकणाव्य कन्दाराव्य सरावाद्य वर्षताः। केरा वाष्ट्रण बेराव देशी । तुर्गिणनाय पुत्रण देशी ॥ गीराइ पुण्ये गोर्कावराती । दश्यिक हे गीराइती १४० ॥ या त्रिक्यं कराव्याणात्व । दश्यिक त्रांत्री होगात्री । कन्दाह विद्यापात्व वर्षर्राच्या । क्ष्मात्वी दे देशनी ॥ ५३ ॥ गोर्का देश मार्च क्रांत्रण । विशेष योजने विद्यानी या

4. Ibid, p. 62-These surnames are as follows :-

Surname	Getra	Surneme	Gotra
(1) ठाष्ट्र	अत्रि	(4) गोसाबी	भारद्वात्र
(2) る1要で	गार्थ	(5) राजवाडेकर	काश्यप
(3) बॉबरे	भारद्वाज	(6) মা(সেন	सामदभ्य

<sup>1.</sup> Vide p. 3 of Marathi Riyasat (Madhyavibhtes 2), 1921.

<sup>2.</sup> Vals my stricke on the Vestersjie in the Ministain Problem, i. 44-46 (1959)—The other of the "IMPROPACE SIGNED SIGN

- (9) In the Rakhar' of Nydyalastri Panditrao composed in A.D. 1849 we find a passage about the dispute between Citpavan and Devaruh. Brahmins
- (10) In a Sammatipatra (consent letter) of A.D. 1746 from the Brahmins of Nasik and Tryambak to one Tukambhat Dharmabhat lävle Agnihotri, Palshikar we find the following endorsement of a Citadon Brahmin :-

## " ज्योतिर्विद्यनामङ चिलपावन शती नारायणस्य संमतमेतत् ',

This Narayan loshi appears to have been quite conscious of his caste "Cittandnan" in A.D. 1746. In another Sammatipatra dated 711 Pebruary 1746 [vide क्रिकासिक संकालसाहित्यसंव २ (MQ XIII) No. 63] in connection with the use of ferry at a sacrifice we find the following endorsements :--

"संमतोषमर्थः कःजोडि गागेकः ", " मण्या क-हाडि ", " हरिमट क-हाडी " Possibly the epithets 'saife', 'safife' and 'sagrat' signify the caste. name Karhādā.

- (11) In a letter dated 28th November 1733 from Mahādāji Ambāji to Panta Pradhan we find mention of "म्बाती चित्रपावन प्रमु सणवाई" of रामधेन
- (12) In a letter of Chimaji Appa to "Baba Svami" written some. time before A.D. 1740 mention is made of 'Sartian', 'Sartian', 'Sartian' ' 6-erce ' and 'देवरले ' Brahmins.
  - 1. Vide p. 12 of Bhdratavarja (Khanda 1).
    - 2. Ibid This passage reads as follows :-<sup>1</sup> कियाबन व देवरुसे यांचा फार दिवसापासन बाद चातला होता. सबब महत्स्मर पंडिताक

( made dहितराई about A. D. 1707 ) वाणी मोठमोठवा क्षेत्री सभा करून मोठमोठवा प्रयाचे आधार केंद्रत नेक्सने तांने वंस्ताम केन्द्राम राष्ट्र नार्दी वांत्रको मसिकेश फस दोप आहे. वार्याने राज वर्षत केले. जांत ज्या वंशवंकी आधार जातिले शांची जांत व विदान ग्रह्मशंच्या सहा। जाहन्या अलेक " 1. An exhaustive account of the history of this dispute appears in Chiteletters

Prakarana be R. S. Pimputher, Bombay, 1926. The appendices to this Prakarana ate historically very important as they containdated decisions of Benarcs Pandits on the dispute in question. These decisions and other documents are :-

- (1) मुक्तिबंडपोर्ताक निर्मय (Śaka 1905)-A.D. 1983. (Saka 1579)-A.D. 1657-
- (3) श्रीक्षेत्र कासी येथील बाह्यणमोजन (Sake 1605) A.D. 1687.
- (4) सर्वार वेचील निर्मयक्त (Sala 1645)-4 n 1771.
- (5) वैरुष वेयील पत्र (Sake 1696)-A.D. 1774.
- (4) Fragment of an undated old document found in the records of Mr. Madhayrao Pimoutkar of Umbarcaon
- In my papers on some Sanakrit authors of Benares I have made use of the first three documents in the above list and proved their historical character on the attenut of contemporary evidence.
  - 4. शक्स य. ब्राह्मणांची माहिती (op. 70-72).
  - 5. Vide p. 76 of पुरंदरे दमर भा. 9 (1929), Letter No. 108.
  - 6. Ibid n. 98. Letter No. 146.

- (13) An edition of Rehatedrajarasmeti was published about 1873. In this edition some verses containing a eulogy of Cittabavan Brahmins mere interpolated presumably by some Konkanasthas. These verses have no place in the original text of this Smrti (published at Calcutta). This forgery or interpolation was exposed by the late Visnu Parasurama Szerri Pandit in the issue of the newspaper Indu Prakash for 16th Tune 1873
- (14) In a Sammatibatra 2 from Benares Pandits dated Samuat 1844 or Saka 1710 ( = A.D. 1788) " safes" and other Brahmins of Bombay are referred to in the following line :-
- " मुखापुरस्य विद्वद्गरः देशस्य-चित्तपायन-कर्बाटक-गर्जर-प्रशतः बादवानप्रति अक्राजीतो भद्दोपास्पदादं भद्दातीशं नतयः "

This endorsement clearly shows the existence at Bombay of these Brahmin communities in A.D. 1788.

(15) In a document 3 dated Saka 1640 (= A.D. 1718) a " वैकाद करावा engen" of the Adilshahi regime is referred to as follows :-

. "ध्यानंतर दर्श ज्योतियी म्हणोन कराजा ब्राह्मण विज्यापराहत सरज्योतिकाल बारणास फोडचे दिलें अम्हास चालत असताच बाला " —" हवा उपनी महाकरीनामध्ये हैकार कन्द्राजा बाह्यण वास्त्रेवभट पाचे परी वतर्वध बाहरा तेथें जोतिकानी बटकर केवी " Another document 4 of Saka 1640 (A.D. 1718) refers to a dispute hetween विदल क(म)वंत सरज्योतियी and a Karhada by name मास्करमट सम 18 follows :-

"तं कराजा तुसा कराज देश बाटावर तुर्से वास्तम्य, कोक्नग्रांति बाटासाहि उद्योतिकीक कित्रकार देवें चीवार्ने महणतांच उगाच राहिका "

1. Vide o. 62 of प्रकृत य. झा. माहिती—The interpolated verses ate sandwitched between two lines of a verse (42) of बृहद्वादाश्वादस्मृति in the following manner -

" इत्येतद्भवानमार्गन्त बदनित स्वयो दिजाः ।

interpolation begins -कींद्रणास्त्रिक्तपूर्णास्त्रे जिल्लाव (नः) संब्रद्धाः ॥ ४२ ॥ बाह्यणेष च सर्वेष य (तः) स्ते उत्तमा मताः । त्रतेषां बंजजाः सर्वे विजेवा बाह्यताः स्टब्स । 🗸 ३ ॥ माप्यस्थिताल देशस्था गौरसविकार्याः । कार्णाम तैत्रबादयोपि जिलपर्णम्य बंजनाः ॥ ४४ ॥

अवधिकार पर्च हो विश्वाकार सहो अवेत । here ends the interpolation.

केचिदःयेत्यथा त्रयः (१) रूपं त्रद्यविदो विधेः ॥ ४५ ॥ " The above interpolation trying to establish the superjority of the Citators

Brohmins makes amusing reading! 2. Vide p. 26 Appendices to स(स्वती मंदल by R. B. Gunjikar, Bombay, 1884.

- 3. Vide इतिहाससंबह (गीमांतकाच्या इतिहासाची साधर्ने के. ५०).
- 4. Ibid (pp. 56, 57) ক্ট. ৭২.

The above passage of A.D. 1718 stating that the Konhidat belong to Kanddadia' († erra gur sere ve) clearly indicates the association of the Konhidat Brahmins with the profession of Kanhidat (Stataza District). Associate passage in the State of Kanhidat (Stataza District), the control of A.D. 1718 indicates the control of the control o

" मुक्तायं कार्य वात कुद्वाळ फींड व जांबोळी पंचमहाल शिवेश्वर आंकोळे वातून ने कराडे क्यून जात बाढे त्यास क्लिक्ट्रिक वेकोड्र वा देखीत नाडी. वर्षेक्ष वेकन या देखानके पहुन आतमा इतिबंधाचा उठेड करन आस्त्रास बढियोदन साफा सार्वक व्हिन्नोक्ताचा डेंबीलिया

Judging from the above passage a majority of the Karhāḍā Brahmins was residing in the Sawantwadi State at places mentioned in the document viz. কুবাত, ভাই, নাইাটা, বঁপায়াত, গ্লিইৰ and মাডাইট Perhaps the records of the Sawantwadi State may throw more light on this question.

From the Peshwa period of the Maratha history we now enter the Shivaji period. It is difficult to collect references to the Karhādā and other caste-names in the records of this period. However, I shall note here a few of them to illustrate my point.

(16) In a letter dated Sahe 1398 (A.D. 1676) we are told that Brahmins belonging to the dwee, work, Percure and vic castes were living in the territory round about nequer and favour. The writer directs mitter directs in charge of the forts Mardanged and Bhivgad to arrange for an examination of these Brahmins as directed by Chatragati (Shivaji) Svāmi and select some Brahmins for charitable endowment. The passage containing this direction reads as follows:—

ं वर्तमान व मानीदेस मंत मर्वुनगढ व मंत्र सिवगढ या प्रति मोरेश्वर पंडितराऊ नमस्कार सक ३ नळ संबद्धर, छिडिला समित्राय यैसेजे:—उमये देशामप्ये माझण आहेत.

Vide p. 35 of "The Konkas" by Nairne — Mr. Nairne observes: — Rajapur Taluka is the native place of Kankala Brahmina". Sci. Kreus Satari Talekar in his letter (published in the Indian Antiquery, Jan. 1876, Vol. V) refers to the Solydar Khanga of the Shandar Pardya in this connection. According to the secount of this Khanda—

काराष्ट्र is the home of the Karhiddi Brahmins. It is 40 Kolo between वेदावते! ( वाणो river ) on the South and कीयना on the North. This is the country known by the name कीयों at the succision की बीटनो with कीया

That the caste-name " क्-इना" in derived from the place name क-इ। ह is proved also by the analogy of the other caste-names देशस्य and को क्लास्य, which are derived from देश or महारोष्ट्र and को क्ला respectively.

<sup>2.</sup> Vide गोमांत्रहाच्या ह. साथने. ते. ३२ deted Saka 1500 (Marka radya II).

हेत्रस्त, 'कराडे, वितपायन व जोतिसी व प्रो हेत्रोपाण्य बाहेत. या सकलांची परीक्षा केव्यु उत्तम बाह्यण हानायोग्य म्हणउद्य राजधी छत्रपति स्वामीचे आहायमाणे धर्माहाये सर्वाक करन देवन प्रतिद्या केलीने ctc. "

This passage is also important as it contains the caste-names देशस्त, इसके, स्वतायम and पर्य current in A.D. 1676. It also indicates the geography of these castes, by which 1 mean the territory in which the Brahmins of these four castes were residing in A.D. 1676.

(17) 传唤中枢 电对象 ved<sup>2</sup> a court-pect of Raja Rumsing J of Jajury, who flourished at Benares between A.D. 1650 and 1700 and who seems to have been a disciple of Kamalikara bhata, the author of the flowfully ("宋天明王代祖传说") refers to himself as "伊安如何是有理" in his drama called the धुमारधान्त्रका represented by a MS in the India Office Editory, which is dated a.D. 1705.

(18) In the poems a pertaining to the Maratha King Sambhaji published by me the author refers to one 'क्वलप्रवाम' 'शिक्योपी' of कृतपुर near Sangameshwar (Ratnagiri Dist.) who went to Rāḍhā in Bēngal (between a.b. 1660 and 1690). He later attained Tāntric Sādhāi, returned to dirugt and founded a मर्की or hermitage at this place.

[19] নংগাংশা তর্থানার খাবে, a Karhājda Brahmin, the author of গুলামিলাবার অবংশিকানিকা, আর্থান, etc. was resident of Benarch, highly respected by the Brahmin community there. His consent in connection with caste-disputes of the Deccani Brahmins is wouched by the following endoy-sements on documents of A.D. 7631 and 7657:

 (i) Sammatipatra (regarding Sārasvata Brahmins) dated Samvat 1687.(

→ A.D. 1631)— " आर्डापनाम नारायणश्रहानां संगतम्"

(ii): Muktimandapa Nirnayapatra (regarding Devarukhe Brahmins) dated Saka 1579 (= A.D. 1657)—

1. The 2nd Prakarana of নিছেবিবাৰী বছৰ (ed. by Historian Rajawade) (pp. 3-62)
was composed by its outhor ইমাধাবাৰে in Saka 1370 ( ==.0. 148). This prakarana of
148 A.D. contains the following references to the Mahifiatra Brahmins .—
p. 14—11 "বসুৰ্বি মাধাবাৰিক শ্ৰম্ম ব্যৱহাৰ ব্যক্তি "

. 32—(1) पञ्चाद नारपानाइन नद् (2) ''देशस्त बाह्मण समदावे''

P. 61- " विटोबा नायक एत्र यज्ञशाको देशस्त,"

It would appear that the term "देशस्त बाह्यण" was current in A.D. 1448 if this date of the Prohozono under reference is correct.

 Vide my paper on this author in Journal B. B. R. A. Society, N. S. Vol. 17, 1941, p. 49.

3. Vide Annols (B. O. R. Institute), Vol. XIX, (1938), pp. 49-60—" शिवयोगी नाम कविद्रहाह्मणश्चित्रपावनः."

4. Vide p. 24 of Appendices to মংকেরী-সভল by R. B. Gunjiker, Bombey, 1884.

5. Vide p. 78 of বিরক্তিমই মৃহবেদ by R. S. Pimputker, Bombay, 1926,

" संमतं नारायणभट्ट आरबे इत्युपनामः "

It appears from the above dated endorsements of A.D. 1633 and 1637 in that strutures grift flourished at Benarce between A.D. 1603 and 1670 or so. One of the Baroda MSS of his quantitative was copied in A.D. 1690. His father subdivints may be safely assigned to the period A.D. 1500-1620. He appears to bave been a contemporary of Bhattoji Dikhits (c. A.D. 1564-1629).

(20) The Muktimandapa Nirnayapatra of Saka 1505 (A.D. 1583) (about the Devaruhke Brahmins) is endorsed by the leaders of the different communities of Brahmins as follows:—

" तब संगतिः । सावये गणेश दीकित महक विद्योक्षणे बक्को कम्मार महक कन्हारे दोव कम्मार दित महक सहाराष्ट्र गोर्थामर महक्ष शुक्रैर विद्यानिवास महाचार्य मुख्य गीह स्वराणि उपाचाण सम्ब मैक्सकः "

It is clear from the above endorsement of a n. 1583 of gwmq web that he was the lacest (xqq) of swq Brahmins as Benares say between a.D. 1590 and 1600. The presence of the Karbida Brahmin settlement at Benares is not only proved by the above endocrement but allow the history of the wife authors proved by me in my paper on these authors already referred to by me. It appears that Benares is true authors already referred to by me. It appears that Benares strend many scholars from different parts of India from very early times and perhaps we may be able to trace some Karbidga Brahmin authors and great the scholars even before a.D. 1500. Owing to the absence of the use case of Brahmins they belonged to and how they migrated to Benares and settled there are all the settlements and settled there are a settlement and settled there.

(21) We have seen already that a document of A.D. 1718 contained the statement "d «τιπ εm των ξαι." This statement records a belief about 250 years ago at the beginning of the Peshwa period that the Kenhájda Brahmins belonged to Kenhájd. My friend Mr. V. R. Oughte in his very informative and critical monograph on «τιπ state that this place is referred to in ancient inscriptions and works as \*\*TURX, \*\*TURX\*\*, \*\*T

1. Vide p. 77 of বিবেশাই ঘটনে (1926) — Appendix 1, dated a.p. 1583. I note here some usages in this document of exptensions and remnanct:—

Cartename: — (1) देवर्षि जालाण ( = देवदक्के ); (2) वियोक्तमे ( = चिरवावन ); (3) कन्हाफे; (4) महाराष्ट्र ( = देवस्य ? ); (5) गुर्वर; (6) गोव ; (7) तैतस्तुष्ठ.

Smanus — (1) परिष्टाः (2) गटनपढे (3) तिरे (र) खासगायकरः (5) आर्थकरः (6) विदेशकरः (7) सम्बन्धः (8) मानवे (विचीनने); (9) पुराणिकः (10) निरादे (11) वसने (क्योनने); (12) देश (सहराप्ता); (13) वेदे (ति प्राप्ताने (5) स्थानिकः

2. Vide p. 3 of 4-(16 by Y. R. Gupte, B.A., M.R.A.S., (2nd cdn.), 1929, (B. I. S. Mandel, Poots).

MANAMATAN according to which Sahadras conquered WITEN. He usets that in a Rigitable cooperplate grant of A.o. 753 the form express has been used. In another grant of the Rigitables we have also the form WITE which is mentioned as the place of residence of a Brahmic Called WITEN. This grant is dated 22rd April 810. Mr. Guptamin and the comment of the street of the

(22) In a Sanskrit letter? of the Sankarācārya of Sringeri dated Saka 1608 (Māgha Suddha 15) = A.D. 1685, which refers to an assembly of Brahmins we find a mention of the Mattree Brahmins and of the grant Rahmins as follows:—

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1. Ibid, p. 25—सभापर्व अ. ३२ (महदेव-दक्तिणदिम्बिजय )
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" नगरी संस्वनती च पावणं करहारकम् । स्वीतंत्र को जले कर नेतानराधान ॥ ५२ ॥ "

 Ibid, p. 27—Sămangad (Kolhapur) Grant of Dantidurge II of the Răşţrakûţa family.

 1bid — " या बेळेपासून क-हाडास राहाणाऱ्या ब्राह्मणास करहर ब्राह्मण सिंवा क-बाडे हाळण ब्राह्मण्याचा परिपाठ पडला असेल."

4. As the antiquity of the place-name "Korkāgā" is linked up with that of the unloname "Karkāgā" I note here some facts about the former which recently came to my notice :—
(1) Mr. Y. R. Gupte has quoted references to Korkāgā in inacriptions (between

Ac. 200 and A.D. (20). He also states that some references to Karthid are found in indicate inscription which according to him one be dated observed as , 220 and 200. (2) My friend Dr. V. S. Agrawala recently published a translation (Journal of U.P. Hist. Section, NY, P. E., 20p. 34-25) of Prof. S. Levi's article (Journal distinct, 185) on the text of Maddandysiri. a Buddhist Charm for protection against areporat. The anticolive of his text is clear from its Chinest translations dated. Ap., 217-22, 49

Less identifies करहाटक of this text with modern Karlag. He uses that करहाटक is referred to in the सभावनंत्र (31, 71) between करवासी and पाण्यम and सोमेदेव refers to करहाटक in in applicable कर्याटक in his applicable कर्याटक क्षांत्र कर्याटक माने क्षांत्र कर्याटक कर्याटक होता अवस्थात होती विश्वकर्यात अवस्थात स्थापन कर्याटक स्थापन स्यापन स्थापन स्थापन

- 5. Vide इतिहाससंब्रह् (गो. ६. साघर्ने-ले. ६ ) pages 9-10.
- " कात्रोपनामक विश्वनायमह तथा वाद्यवोपनामक पुरुषोक्तममहत्रमुखान् कराहाटक-

1-1-c.R. (vii)-2

As बाने is a Karhada surname and as विश्वनायमह बाने is mentioned as a STIRES and in the above extract the equation "STIRES EIGH" "STEEL BIRD" is proved by this document of a p. 1685. This letter refers to the TE Brahmins as follows :-

## " <del>डोडेडरोपनायक वटा डाडवानानीय ग</del>

and again refers to the Karahataka Brahmins :-

" करकारकारीनं वस्थियोचे समाविदं कियपि वाधिपारं जानितः"

(23) In a document 1 dated April-May 1630 A.D. the caste-names देशस्य, चित्रपादन, वर्गाटक, पूर्वर have been recorded as follows :-

" ग्रंडाचरस्य देशस्य चित्तपायन कर्नाटक गर्जर प्रमृतिक वादवान् प्रति "

The communities bearing these caste-names were residing in Bombay

in A.D. 1630. The signatories to the above document bear the following surnames :-

मह, वर्माधिकारी, क्षेत्र, जबी, पुन्पस्तंम, क्षेत्र्य, देव, तार, वसपुत्र, वीराणिक, ज्योति-विंद, कहर, बचाचित, ब्रिस्टोडि,

This letter is addressed to the Brahmins of Bombay but I don't find in it the caste-name sand or series. Mr. R. B. Guniikar in his book on the Brahmin castes of Mahārāstra called the सरस्वतीयंडण (Bombay, 1884) devotes nn. 161-175 (Chan. 5) to the said alam. About the Karhodd settlement in Bombay he observes :-

"Perhans the Karkada Brahmins may have migrated to Bombay before the Cittoman Brahmins. However they have come to Bombay in large numbers during the last 50 years (i.e. c. A.D. 1830 onwards)."

Students interested in the history of the Karhada settlement in Bombay should pursue the question further.

(24) There is a reference to the STRICS Brahmins in a MS acquired by Sir R. G. Bhandarkar in 1883-84 and noticed by him in his Report.3 This MS consists of a curious work called the बारिजाअबरित represented to be the Uttara or the 3rd Kanda of a work entitled प्रजानक्यरचनिका. According to Dr. Bhandarkar this work does not seem to be very old. पारिवास was the name of an avatara of Visnu different from Rama or Krma. He belonged to the family of कींद्र सारस्वत Brahmins. वारिकास held a सत्र or sacrificial session for 12 years (folio 85). Many people gathered for this Satra. Their names are also recorded in the work (folio 85 ff). These names appear to be modern. They are भवानेव्सरस्वती,

<sup>1.</sup> Vide pp. 2-3 of B. I. S. Mondal Traindaika (March 1935)-Article on सारस्वतांचे ब्राह्मणत्व by D. V. Apte. The date of the letter is "शाहिबाहन हाडे १५५२ प्रमोदकानी वैशासमास "

<sup>2.</sup> See MS No. 467 of 1883-84 in the Covt. MSS Library at the B. O. R. Institute Poops, folios 255, vide pp. 45 ff. of Report on Search of Sanskrit MSS, 1883-84.

भिषानंत्रसरस्याँ, पुणानंत्रसरस्यती. ' All these yatis belonged to the Gaudasiramata caste of Brahmins. There were yatis of मृषिष caste also. The Activas' of the Gauda caste present at the Satra are:— (1) महेश्वराचार्य, (2) साम्याचार्य, (3) रामण्याचार्य, (4) कैशायार्थ, etc.

Seven wittes Brahmina of the names wigs, wine, wit, etc. had rrived to attend the Satra but they were not admitted. Then follows as abusive account of the Karahājahar. The writer a Ganda Starmata pour vile abuse on rival sects and castes like the follower of Madhav. Dr. Bhandarkar observes: "The real author of the work must have ben a man of the Ganda-Sárarnata caste living among Karhājā Brahminsbetween whom and his caste there was not, as there is not present, a good understanding. wifeste must have been some local driv."

Bandariar has already emphasized the modern character of the enterwelfen though ph does not attempt to indicate any definite time limit for it. In any opinion the work is deter then a.o. 1637, in which properties and undergreated (same at their name-ables mentioned in this work) have signed a Samenipatra about the Sarantatar and the Saranta and Saranta (Saranta Saranta). The Saranta Saranta Bandaria. The Karladig Benhimian are mentioned in this work as for the saranta saranta (Saranta Saranta) and saranta (Saranta Saranta).

From the foregoing evidence of documents we get the following chronology for the caste-names क-वार्ड, विकासवन (क्योटने), देशस्य or केमच:-

- (1) A.D. 1583—" দিখানল " (used with reference to a Benares settlement of these Brahmins).
- A.D. 1630—"विषयावन ( मुख्यायुरस्य—Bombay Citpāvan settlement).
  (2) A.D. 1583—"क-दावे" (Benares settlement of Karhādā Brahmins).
- (2) A.D. 1348—"ব্যাংক" and "ব্যাংখ দাছত মনুহাৰ" mentioned in the দহিকাৰবাৰী ৰক্ষঃ
- Leaving aside the antiquity of "देशस" and "दिलायन" caste-names I resume my discussion regarding the caste-name "क्हारे."
- (25) Recently I have had occasion to study some texts of the surgame literature in Marathi published at Nagpur and elsewhere.
- In a Sammatipatra from the Benares Brahmins regarding the Sărasvata Brahmins, dated Samoul 1687 (= A.o. 1611) we find the following endorsements (vide pp. 12-24 of Gwn)ikar's Sarasvati Mandala, Appendix 2)
  - " भवानंदसरस्वतीसंगतम् "; " काशीपुरीवासिपूर्णान् दसरस्वतीसंगतम् ."

I don't find বিধান'ব্যংঘৰাৰী inthis ঘদসিপস of A.D. 1631 buthe may be taken to be a contemporary of সম্বান্ত্ৰ্যেবৰ্বা and ব্যান্ত্ৰ্যেব্যংঘৰা. As these your were living in A.D. 1631 and as they are mentioned in ঘাইৰোগৰাইৰ পৰ may conclude the the account of the TR signs in this work is later than A.D. 1631.

2. These Adryas should be identified as it is possible to suppose that they were historical persons, contemporar with মধানত and ব্যানত of a.p. 1631.

Mr. Rajwade' sasigns this literature to a period of 100 or 150 year before A.D. 100. Mears H. N. Nene and N. B. Bhavalkar assign the Mahhashbea works published by them to the time of the Yādava kings of Devagiri or Dustababdi e. the 13th enterty A.D. I am concerned in this article with the Mahhashbea work called the strawgith. The work constains a record of episodes or anecdotes pertaining to the life of wavet the founder of the Mahhashbea sect. The work is not if removed from the time of the Yadawar of Devagiri who flourished in the life of the Yadawar of Devagiri who flourished to the following lines which describe the Sradeho of king Mahhases of Devagiri or Devagiri -

करडी महानेव रायाचे बाप ... इंडमटः करकासि तेलेः महानेरायाचे आध होत होते: यटः इंडमटः सक्य पीतरीया केलेः तिस तिस वास बानासि आदिया ॥ १० ॥ "

King Mahideva flourished between a.D. 1250-71 and as the Yadaw Kingdom was finally destroyed by the Mahommedian in a.D. 1318 is may be possible to conclude that the wife under reference was performed between a.D. 1271 and 1316 or so and that a reference to this been recorded within living memory of the person recording it. The been recorded within living memory of the person recording it. The considerations coupled with the old Marathi language found in the considerations coupled with the lod Marathi language found in the considerations of an expense. In this very

"से रोक्षण्यमः ॥ ॥ एक्केशली कर्यादं या ताह्यपूर्ण यां सरकार स्वीर्धाण" The above reference to a Karhāḍā Brahmin of Phaljon (Satra Dist) occurring in a work of the 13th century is very important as it takes us over a period of 20 years from the Benares Brahmins of a. D. 133 belonging to Karhāḍa custe, and their leader "पहण्य के स्थाप्य मुख कर्यादं".
In fact this reference is the earliest reference to the Karhāḍā Brahmin yet found by me in Marsthi records or literature.

In the Encyclopacities of Religion and Ethics by Hastings a reference is made to an article of Sir. R. G. Bhandarkar published in the Times of India of 1902, in which he stated that wave the founder of the Modification of the

<sup>1.</sup> Vide p. 3% of Aitibdrik Pravdoand (B. I. S. Mandal, Poons, 1928).

<sup>2.</sup> Vidan. 90 of सीळाचरित्र. पर्वार्थ संब २.

<sup>3.</sup> Ibid. সাল ৭ লা-एডাড--Saks 1858 (1936).

known by the name " ওন্টে নায়ল" which is now current. As কৰ্ষ is not very far removed from ক্ষতন on the map the statement of the Lilacatina appears to me to have a definite reference to the caste-name "কুন্ট ৰাজ্য" made about 650 years so.

(26) I have recorded in this article evidence to prove that the expression "SECTES MARNE MARN" of today. This equation is proved by the letter of Sri Sahkaricirys of A.D. 1695. I shall now give the evidence of an inscription of the 100d century o

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360 — Karnāṭaka Brahmins.
300 — Brahmins of the Kanna-Sābhā
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240 2— হর্ষ্টেছ মাছলঃ ("apparently those now known as Karbādā Brahmins in Mahārāṣṭra" observes Rao Br. Dikshit p. 104 of Eoi. Ind.).

72 - Brahmins of Catuscarana.

28 — Sahasranāmāmnāya Brahmins (common to the thousand).

Total 1000

The difference in time between this Rāṣṭṭrakūṭa Grant of A.D. 930 [referring to करकृत्य काष्ट्रण 3] and the earlier grant of the Rāṣṭrakūṭa King Dantidurga II dated 23rd Apṛil 810 (mentioning the name "करवर") for क्यूका 9 is only 120 years. The करकृत्य Brahmins appear to have been in

Vide p. 107 of Epigraphia India: Pert IV (Vol., XXIII) October 1935—Rao Bahdut K. N. Dikshit: "Three Copper-plate Inscriptions from Gaouti"—Line 11 of A Fragametery Great of Editraktic Successoryte (Govinda IV)—Sake 851 = Sunday, 17th Jamesry 300 (according to Rao Bahadur Dikshit).

<sup>2.</sup> Line 11 of the Inscription—
" करहाटक प्रमुख आ (आ)क्रणानां करवारिश्वविकं शतहयं "

I note here a few usages of the place-name ক'ৰাৰ from Marathi documents of the 16th century as found on pp. 13, 14, 15 of the বুলীৰ জীনসৰ-বৃত্তী of the B. I. S. Mandal, Poose, Saks 137 (1915) --

<sup>&#</sup>x27;' কস্থাৰ'' — A.D. 1907—Letter No. 1 of Śoke 1429 reproduced by V.K. Rejawade:-'' কুনুৰাগী কথাৰ কস্বাৰ''

the good grace of the Raigrakola King Govinda IV as they have been well provided for in his Grant of A. 0, 300 i.e. in the ratio of 2016 1000. We may compare this ratio with the ratio of the provision of the Karhaidi Brahmins by the Peshwai n. a., 1774-75 in his services. This ratio stands as (1) 15 Karhāidās in a total of 72 Brahmins in one place, while elsewhere it is (27 Karhāidās in total of 12 Brahmins in one place,

- (27) Mr. R. B. Gunjikar in his Seramati Maggala! refers to a Sansiri text-called the entangements by one strust, who is said to have hailed from the Raipsur Province. In the maggalacerana the authorisates that this work was composed in Sada 1672 (a.n. 1890). He gives absuive accounts of the genes in of the Powers, were and other Brahmias. He gives fanciful derivations of caste-names as follows:
  - ( 1 ) " विचयुद्धिः इता तेन ( परयुरामेन ) तस्माचे चित्तपादनः "
  - (२) " चित्तपावनशातिस्यो मेर्बेय गृतीयवः।
    - " किल्बेतस्त विदेयः सोपि नियः प्रकीर्तितः ॥ १८ ॥ "
  - (3) Madhavagives a rational derivation of the steres castename from its association with stere:—
    - " करहाटामिथे क्षेत्रे रूप्जातीरे गता यतः। भिन्ना जातिभेवत वै करहाटामिधानतः॥ ७॥ "
    - " करबाटे त सरक्षेत्रे वासामु करबाटकाः।

पूर्व वे द्विषिया त्रोकाः प्रधारमाः करहाटकाः ॥ १९ ॥ " Mādhava states that the करहाटक Brahmins attained पदक्मीविकार in Saka 915

(A.D. 93). Gunjilar expresses his inability to understand the exit significance of his statement. If Midshav's statement has any historical value it may be connected with the Karhhigās of the Rēṣṭrable Grant out, where they had some infinence as proved by the Rēṣṭrable Grant of A.D. 930. The verse containing the chronogram for Soko 915 reads as follows:—

1, Vide pp. 150-157 of বাংকবাসকল (Bombay, 1884)—The colophons of the portions quoted by Mr. Guajikar from the মারমুসকবেদারিকা are as follows:—

- (1) 19 orres ending with श्रीत श्रीकामप्रकारमञ्जालो किल्लावनक्रिक्टेंत सम्बरी विभागीतमः "
- (2) 15 omer ending with इति श्रीमाचवहृत सत्तम्बद्धस्यस्यानां जातिविवेदे करहाटपचोत्पति प्रश्नः सप्तमः"
- (3) 18 omus ending with '' इति °ठतायां काहारजातिस्य देवदस शापकारणप्रश्लो नवमः ''

<sup>&</sup>quot; करहर " — a.o. 1557 — Letter No. J of Soho 1479 :—
— " औष्टरमानि पा। करहर "
— " कान्द्रोमी बारव देशां पा। करहर "
— Seal containing " पा। कराव, "

# पंस्वतंत्रप्रमिते ज्ञालिबाहत्त्रस्मतः।

करहाटाश्रामविष्यम्बटकमस्वाधिकारिणः ॥ १० ॥

If the date Saka 915 (A.D. 993) in Madhava's statement of A.D. 1690 has any historical basis it shows that the antiquity of the Karahāṭakas upto the 10th century A.D. was a recognized fact in the 17th century. I have tried to establish in this article such antiquity on the strength of inscriptional and literary evidence of a contemporary character.

(28) Mr. V. V. Athalye in his History of the Athalye Family has reproduced a copperplate grant of A.D. 1191 given by king Bhoja of the Silahara line to Govindabhatta Gurjara alias Pattavardhana. According to this grant the grantee " गोविंद्भह पृष्टवर्थन " describes as " काश्यपा-बासारमेश्वेतित्रिप्रवरीपेत नैशुवगोत्रीत्पच गुर्जर समुपामिश्वान " received the dharmadhikara rights as also some snam land in the village described as "राजापुरोपसिक्ष कुंतापुरमाने " i.e. modern कांतापुर in the Rajapur Taluka of the Ratnagiri District. This grant shows the patronage given by the Silāhāra king Bhojadeva to the Karhādā grantee गोविद्मह प्रवर्धन alias गुजर. A copy of this grant was made by the editor's uncle from the original in the possession of Mahāmahopādhyāya Gopal Pādhye Gurjar. This grant also indicates the migration from Karahataka of the Karhada grantee and his settlement in Konkan in the 12th century A.D. under the natronage of the Silaharas.

According to Mr. V. V. Athalve the Athalye family also migrated from the village आरोडी in the पारण Taluka near Karhad.

In the Kolhapur Town Hall Inscriptions of Bhoja II of Saka 1112, 1113, 1114 = A.D. 1190, 1191, 1192 respectively we have a record describing a grant made for the purpose of feeding सहवासी Brahmins. The trustees for the grant are four Brahmins : two सहवासी Brahmins and two stere Brahmins. Dr. A. S. Altekar' observes that the expression STETES MIRT "would probably show that the term Karhade Brahmanas of the modern times originally denoted Brahmanas from Karhad."

<sup>1.</sup> आठल्पे पराण्याचा इतिहास, प्रयमसंह, Poons, (B. I. S. Mandal, No. 36) 1939, no. 9-11.

<sup>1</sup>bid p. 292.

<sup>3.</sup> The Athalyes are Karhada Brahmins of काश्यपनीत्र आससायनसत्र. A Sanad dated Itt July 1695 from Rajaram Chatrapati describes the grantee of this Sanad as follows :- " बेदमूर्ति त्रिमसभटाचे पुत्र महादेवभट आठले काञ्चपगोत्र आस्वलायेन सत्र वास्तव्य इसने देवळे " (vide p. 31 of आठले घ. इतिहास ).

<sup>4.</sup> Vide Rei, Indica, Vol. III. p. 215. 5. Vide p. 429 of Indian Culture, Vol. II, No. 3 (Jan. 1936)-Dealing with "Religious condition" under the Silaharas of Western India Dr. Altekar states :- " सहदासी Brehmanas, now more popularly known as सद्याचेड in Kolhapur-Satara territory. are referred to in our records. Now they are regarded as slightly inferior in status to ordinary Brdhmanas and several stories are current to account for the lower status that is given to them. In our period (the Silghars period) no such ideas prevailed in society."

Benares, etc.

I believe this remark of Dr. Altekar has been amply corroborated by the volume of evidence gathered and recorded in this article.

- (29) I have already referred in this article to the account of the Kendrigh Brahmins given by Mr. R. B. Gunjijiat; in his pioneer work Sensenui-monfade (Bombay, 1884), Chap. V. This account was published? years after Wilson's account of the Kendright in his Indian Caste. I note here a few facts from Mr. Gunjikar's Chapter on the Kendright Rehmins (no. 161-173).
- (1) Perhaps the Karhildi Brahmins migrated to Bombay earlier than the Chitghwan Brahmins. They migrated in large numbers about a.p. 1830 onwards. The कान्ने and मासकोणकर families were the first to arrive in Bombay.
- (2) The town of কৰাৰ including the adjoining territory was the native habitat of the Karhādās. From thence they migrated to বাৰাত্ব province 300/400 years ago.¹
- (3) মামৰ in his লক্ষ-বৰ্ষদলনা states that নহীব্ৰ in Konkan was the native place of the Karhādās:—
  - '' क्षेत्रे वरबुरामान्ये क्षेत्रं नदीपुराभिध

बाह्मणाः सन्ति तत्वेत्रे श्रीतस्मार्केकियापराः ॥ १ ॥ " From नवीपर they migrated to करहार :---

" करहाटाभिषे क्षेत्रे कृष्णातीरे गता यत:। भिष्मा क्रांतिमंत्रत वे करहाटाधिसाततः॥ ०॥ "

- Mr. Gunjikar expresses his inability to identify ∓€₹ in the above extract. At present the Karhådds are spread over different 1-laces such sa Ratangiri, Rajapur, Malvan, Savantwadi, Goa, Shahpur, Belgum, Khanapur, Ajra, Kolhapur, as also Satara, Wai, Karhad, Mabaji, Pooca, Sholapur, Nagaur, Baroda, Indore. Huderabad, Ihansi, Gwalior.
- (4) Originally the Karhāḍā Brahmins were মহাবাত or ইয়াক Brahmins.
- (5) According to মাথৰ (লগেল-কংগভলা) the Karhādās obtained বহুমানিকাৰ in Saka 915 (= A.D. 993). Mr. Gunjikar is unable to explain this statement.
- (6) The Karhādās are both sanī and चेणला. The चेणला group is of নাপৰাল. The family deities of the Karhādās are বৈথা. In ভবাৰ বিধ they had a goddess called পাতৃতা. At present the Karhādās above the Ghats and on the side of Rajapur are devotees of the goddess খবদাৰ (তে ৰাহাৰক্ষী) of Kolhapur. The Karhādās who migrated to Gos during
- 1. Śliśbire Bhojadova's grant of A.D. 1191 to a সুক্তিপুত্তির (Karhada) Brehmin of Kanpur (Rajapur Taluka) shows that the Korkidds migrated to Konkan about 850 year

the last 200 years or so have become the devotees of the goddesses क्षांतादगाँ, महाख्या, महाख्या, भवाख्यां, भवाख्यां, भवाख्यां, भवाख्यां,

(7) All Karhāḍās are Rgoedī Brahmins of the জাত্তনায়ক্ষ্ম, লাভত-লাকা. They have 24 gotras as follows:—

श्रात्र, श्रंथिरस, उपभन्तु, काश्यन, कुरस, कोडिम्य, कीशिक, वार्ल्य, गौतस, बासदम्य, मैशुव, वार्थिय, बादरायण, आर्गय, आरहाज, सुद्रक, कोहितास, कस, बासिह, देश्य, दिवामित्र, सांविदय, सालाक्ष.

#### (8) Surnames of Karhādā Brahmins :-

अये. अध्यापक, अधिकारी, असूते, अयश्वित, आगत्ये, आगत्वे, आश्वोरं, आर्थे, आरस्ये, बाजां बाळवणी, उंबरे, एकांडे, श्रोखरे, श्रोधे, श्रोपें, कर्पें, कमळाकर, क्याळ, करेरे. ब्यावंत, कर्ते, कतके, कात्रे, कानहे, कापडी, कापळे, काळे, काळेले. किसिंगे, किसे किराणे. क्षेत्रे बहुबचे, कोटिभास्कर, कोले, बीबाई, सेर, गगनप्रास, गाणपते, गर्दे, गलगक्ये, व्यक्ति तकते तोहे तोरे तोसादी, पन्ते, पत्रे, विक्रते, विभेष्ठे विक्रते, विहे, प्रधार, प्रदर्धे अम्बे आयहे जोशी, दिंबे, टॅनशे, टेंबे, टीळ, टीळवे, उकार, बगढवे, बांग्वे. विके. बेनशे. क्रांती, इबके, ढॉकरे, डोरे, डोस्पे, डोकर, ताटके, तांचे, तुळमुले, तोताहे, तोपसाने, वसे, ताले. दक्षिण, दास, दीक्षित, दबळे, दमाळे, दवेचे, देवधर, देवभक्त, देवस्थळी, हेसाई, प्रश्न, रकसले, भाकरस, धोंटे, धोंदर्श, नवरे, नवाध्ये, नाईड, नासरे, नारस्ये. नानले. नापने नारगर्थकी, मारिगे, जिक्तन, निसाहे, निवाळे, पसंहे, पटवर्धन, पश्की, परांहते, पाटीस, प्राणी, लने विते, विवळते, प्राणिक, प्रोहित, पंहित, फ्रेंग्रे, फणही, बखले, बेर्जे, बहुतले, बाखरे, बोट्टे, बिजीवाले, बुगे, बंदें, बोकाडे, बॉदरें, बंदरें, भट, सबसडे, भागवत, माट्टें, प्राप्त मारवहेकर, भारते, भगोडवे, भारते, सहयो, सस्ते, सहाज्ञणी, माडी सिराली, सब्दे, सक्कारे, मुख्ये, मंदस्ये, सेमणे, मोचे, मंदलिक, युक्ते, योगी, रावते, रिंगे, रेडे, लघारे, लखित, तहत है, लोड़े, संवहरे, बळामे, बासले, बास्वरे, बाळवे, बांपचे, विझे, बैच. mein होडहे. क्षीके. ब्रीलंडे, ब्रोजी, पाण्वली, सप्ते, सपे, सब्टेवे, सांक्ये, सास्त्रे, सावस्त्रे, सारमांडडे, errateales, हवमीव, हवें, हवसे, हक्ये, हक्ये etc. Besides these about 300/400 surnames are derived from place-names such as ather witer etc.

Some surnames have three gotras, for instance चाँगी, चाँहे, समाने, सांब्ये; होराने has four gotras; आखे has fire gotras; उत्त्वर has sia gotras; यटचर्यन has three gotras and सायायत has seven gotras. Mr. Gunjikar says that he is unable to account for these facts.

(9) Speaking of the professions of the Karhādās Mr. Gunjikar notes the following professions:-

<sup>1.</sup> One " कोवाई वाह्नदेवमह" lived at Benares between say A.D. 1600 and 1675 of so His endorsements appear as follows on two documents drawn up at Benares :--

<sup>(1)</sup> A.D. 1631—समितिवन्न regarding सारस्वत Brahmins (vide p. 24 of Appendices to R. B. Gunjihar's सरस्वतीमंडल )—" कोवाई वासुदेवमस्टर संमतम् ."

<sup>(2)</sup> A.D. 1657—मुक्तिमंदपनिर्णयपत्र regarding देवर्षि Brahmins (vide p. 79 of चितलेमर प्रकरण by R. S. Pimputter, 1926)—" समते कावाई बास्ट्रेयरप्, "

Priesthood; Clerical work; Holding offices of swarff, emf and bearing Ruling states like Jhamsi formed by Govindpant Bundele and his descendants, Sagar, Jahoa, Gularai, etc. in Northern Indis. Moncy-lending; Agriculture; working as Haridasas, Purdpikas and Saturia.

- (10) Speaking of celebrities, authors, poets, etc. belonging to the Karhādā caste Mr. Guniikar notes the following:-
  - (1) Govindpant Rundele (killed at Paninat in A.D. 1761).
  - Lakşmibāi, the Rāni of Jhansi who died a heroic death in the rebellion of A.D. 1857.
  - (3) Raburgo Raramatikar of Bārāmati.
    - (4) Learned men like वाज्युईस्यह and his pupil कृष्णेयह बावर्षे, and his pupils विद्वजीपारने वेहरपुरकर, कृष्णाचार्य वेहरपुरकर and जीपरवाचार्य हज्याकिर, etc.
  - (5) Kāiinātha Pādhye, author of valling.
  - (6) Ananta Sastri Pendharkar of Poona.
  - (7) Raghunātha Šāstri Taļekar and his son Šrīkriņa Šāstri.
  - (8) Gopála Śáśri Ghája, author of the Marathi translation of the Rāmāyaņa.
  - Kāiīnātha Šāstri Pādhye Goļvalkar of Bombay, the Vaiyyākarana (Grammarian).
  - (10) Rajarama Ramahrma Sastri Bhaeavata.
  - (11) Padhye family of Rajapuris noted for its learning.
  - (12) Moropant (Parädkar) the renowned Marathi poet, who was proficient in both Sanskrit and Marathi poetic composition.
  - (13) Bål Gangdalan Sauri Jámskeler was a thorough gentleman and a perfect scholar. He was proficient in Marathi, Sanskrit, English and Latin, besides having knowledge of Hindustani, Gujarsti, Bengali, Chanarese and Persian languages. He is the author of many works in Marathi. He died a premature death. He was the editor of the first newspaper in Mahirisptra, called twin in which English writings were also published. He was also the editor of the first Marathi monthly called Prewar.
  - (14) Govind Vişthal alias Bhdu Mahājan, the learned friend of Bāļ Sāstri Jāmbhekar. He conducted for some years the Marathi newspapers মদাকা and মুমকুর.
  - (15) Learned men in high position like विनायक जनाईन कीसेने, नीलकंड जनाईन कीसेने, गजानम हत्या भारतबेकर, केशम वामन कीसेने in the Gaikwad State Service.

- (16) Ŝripād Bābāji Thākūr, I.C.S., then serving as Asst. Judge at Thana.
- (17) Dr. B. K. Bhatawadehar, the most popular doctor at Baroda; Bhāskar Hari Bhagawat, Judge Small Cause Court, etc.
- (18) Mr. Y. V. Athalye (the editor of Tarkasamgraha in the B. S. Series) and Mr. J. H. Athalye the editor of वणन्मित्र (Marathi newspaper).
- (19) Sankara Sastri Devasthali of Savantwadi, a Sanskritist well versed in Marathi and English.
- (20) Among the families who practised Sāvakāri mention may be made of the will family of Palaspe near Pannel, ইবাৰ family of Baroda now considered as ব্যাহৰ Brahmins and the কিই family of Indore.

The foregoing points from Mr. Guniikar's account of the Karhada Brahmins recorded 60 years ago will be useful for those who desire to make a historical study of the Deccani Brahmin castes. I am unable to verify Mr. Gunjikar's statements regarding the surnames and potras of the Karhadas recorded by him. A complete census of all Karhada Brahmin families of different surnames should be undertaken by some central Karhādā Sangha and on the basis of this census a preliminary hand-book should be accurately compiled with a view to get exhaustive information about each family recorded therein. Such a hand-book should contain accurate information on such topics as-sotra, Veda, Sakha, family deities, surname, native place of the family, present place of residence, profession, average annual income, information about family records of a historical nature, brief history of the family as known to the oldest member of the family, information about illustrious persons in the family, general educational progress of the family, intermarriages with other Brahmin castes in or outside Maharastra, intercaste marriages, if any, and such other items. A special form should be prepared and its copies broadcast to all Karhada families and as soon as sufficient material is forth-coming it should be published in fascicules with a view to encourage collection of information from unknown sources. When the survey is complete an exhaustive index of places, persons etc. should be compiled and published. This will of course be a tentative hand-book regarding the Karhada Brahmins of to-day but its value to all serious students of social history will be inestimable. It will also be of some use to ethnologists.

My present study is confined to the record of data bearing on the origin and antiquity of the caste-name Karhágáa. This term has a geographical origin from the country of Karahájaka and its antiquity at least for one thousand years, if not more, has been established in this paper. It is too early to deduce any conclusions from this

antiquity as regards the exact time of the origin of this term. I must. therefore, close this long article by recording below the chronology of the data gathered from varied sources, both epigraphic and literary, to enable other scholars to probe the whole question deeper than I have done with my scanty knowledge of the history of castes in India. I shall teel thankful if the managing bodies of the different Karhada Sanehas take more active interest in the problems created by this paper and try to do their bit in solving them at least partially at a time when the joint-family system is totally disannearing and consequently the family history is petting obliterated to such an extent that some neonle do not even know their great-grand-fathers, much less their early genealogy or history. We are living in times when a revival of historical sense is dominant in the minds of the educated masses and many schemes of national histories are being formulated. No national histories can be perfect without a knowledge of the history of the families. which once made and unmade history as we know from the heroic endeavours of some of our past heroes. It is our duty to keen their memory green not only by a casual reference in a national history but by recording detailed history of the families which produced these heroes. A hero is both the creature and creator of the times he lives in, as said by Carlyle, and let the posterity know the full account of his kith and kin, the family he adorned and the circumstances which produced him.

#### REFERENCES

A.D.	'' करहाटक '' mentioned in the महामारत (समापर्व ) as cor quered by सहदेव.
	Between 200 B.C. and A.D. 100—References to Karha in inscriptions quoted by Mr. Y. R. Gupte.

250-300 ... References to Karhād in Barhut inscriptions quoted by Mr. Gupte.

Before 317 ... "करहाटक" mentioned in the महामायुरी text translated

into Chinese from A.D. 317 onwards.
753 ... "Stree" mentioned in a Raptrakūja copperplate

grant. 810 ... "करक " mentioned as the place of residence of a Brahmin व्यासमह in a Rastrakuta grant. Mr. Gupte

thinks that the expression "ভংগুর নায়াল" = ভ-পুট লায়াল (of to-day). 930 ... "ভংগুৰেক লায়াল s" numbering 240 (in a total of 1000)

have been provided for in a Rājţrakūļa grant of a village वर्षांच्या donated for feeding 1000 Brahmins.
" बरहार " mentioned by सीमोद्द in his व्यक्तिकडचेंदू.

CHRONOLOGY	References
993	काहार Brahmins attained पर्कमाधिकार according to सतपञ्चकपत्रका of माधव composed in A D. 1690.
1191	Bhojadeva of the Silāhāra dynasty gave some land to मोबिन्मह गुर्कर-पहरूपीन, a Karhāḍā Brahmin of नैपहरू गोत्र (at Rajapur).
1191-1192	" काहारक" and सहचासी Brahmins mentioned as trustees for a grant made by Bhoja 11 (of the Silāhāra line) for feeding " सहचासी" Brahmins.
	"क-हाडे ब्राह्मण" of फ्लेटाम (or फलटम) associated with चक्रपर the founder of the महानुसाम sect in the स्राह्मचरित्र.
1299	Grant of Raja Bimba to पुरुषोत्तम कावळे. a Brahmin of श्रुक्त यतुर्वेदाय माझण caste.
1448	" वेशस्त माझण समुदाय " and " वेशस्त्र " persons mentioned in महिकावताची बखर.
	Reference to " शैयाहिसंड " on p. 59 of मोहेकावर्ताची वन्दर.
1488	The Citpatan surname " गोवले " recorded in a letter,
g. 1450-1600	The भाव (वियोजने) family of Benarcs flourished. भावा रामकृष्ण → भावा विश्वनाय → भावा गणेश (A.D. 1583).
1556-1592	भवकार्यक प्रशिद्धान (or miretare) describes his patron king एमा प्रश्न के of Reva in his panegyric राषण्युश्यातक्ष्य (Bikaner MS). In this work we find रामण्य des- cribed by the epithets "स्वयु अर्थभीष्यक्षय" "अद्भाष्ट्य-प्रश्नीवित्यक्षय", "This is a reference to स्वाध in the Satara Dist. by a Central Indian poet of Akbar's Court.
1583	" भावये गवेश दाक्षित प्रमुख चिपोलने (= क्यावन) signs a निर्मयपत्र drawn up at Benares. "बखले हज्जभट्ट प्रमुख कन्दावे " of Benaresand "शेष हज्जमट्ट-
	पंडित प्रमुख महाराष्ट्र " also sign this निर्णयपत्र.
1630	'' देवास्थ, चिरुपायन, इनीटक'' and '' तुर्जर '' Brahmins of Bombay are mentioned in a letter.
1631-1657	Signatures of नारायण रूक्तीचर जारहे a Karhāḍā author on documents drawn up at Benares. Signatures of "कोलाई शाहरेचनह" another Karhāḍā Pandit on these documents.

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CHRONOLOGY			

After 1631 ... References to কাষ্ট্ৰাক Brahmins in বাহিজায়বালৈ (B. O. R. Institute – Govt. MS No. 467 of 1884-87) which mentions surgames like মাসাম আমান বাবে

c. 1660 ... "विकायनवातीय" author विवनाय महायेव राजवे composed some works for Ramsing I of Jaipur.

1676 ... "र्वस्त, कराडे, विक्यायन, पर्वे" castes of मर्चनगढ and निवगढ mentioned.

c. 1690 ... References to ভাষাতে and বিল্লাবন Brahmins by নামৰ in his লক্ষ-ব্যৱস্থানা.

c. 1680 ... "विकायन विश्वपेती" of बुंतारपुर (Ratnagiri Dist.) goes

1685 ... " बराहारक बाह्मजान् " mentioned by श्रेकराचार्य of शृंगेर्स.

1718 ... A " are scill sien" referred to.

The statement " বুঁ কথাৱা বুলা কথাত ব্যা " mentioned in a document, which also refers to the Karhājā settlement at হুমাত, কটাই, নাৰীভাগ, ব্যাহাত, দ্বিবিধ্, পাৰ্থাত, "কথাত নাম " oftheseplacesis mentioned.

1733 ... "न्यानी फिलपायन प्रमु सम्बाई" of रामक्षेत्र referred to in a letter to Peshwa.

1735 ... Reference to "ৰাজ্যালয়" and "কাৰ্যে" woman by Narayan Dikyita Patapitar, who complains to the Peshwa that the Peshwa's mother made unfair distribution of dakṣiṇā to different Brahmins at Benares.

1736 ... बतराज composed by a " क्लिपावन जातीय " author. 1740 ... "क्लिपावन " " क्लाडे" " क्लाटक", "'वेवस्ते" mentioned

in Cimāji Appa's letter. 1746 ... "विकाशन वाती" signatory to a "संमतिपत्र" from Nasik Brahmins. Usages of "कन्होबी". "कन्हाबी" in

another समितिपत्र. c. 1750 ... ''ভ-ৰাছাঃ'' mentioned in ভাঁছত সাংখ্যাৰ.

1751 ... Reference to "करावे" Brahmins by Bälkṛṣṇa Dikṣita.

Reference to क-बादे वासुरेवमट सुने by Vāsudeva
Dikṣita.

1760 ... Dispute between कन्हांडे and क्लियायन—Peshwa Sadashiv Rao asks Govindpant Kher to settle it.

1775 ... Sent Brahmin Clerks in Peshwa service (15 Karhādās among 72; 7 Karhādās among 41).

1788 ... "देसस्य, विकायन, कहाँटक पुनर्र:" Brahmins of Bombay addressed to by Benares Pandits.

1848 ... क्लिपावन and वेवरुसे Brahmins mentioned in पंडितराव बसर.

Since drafting this paper I have received the following information about the Karhādās from Shrimant Balasaheb Pant Pratinidhi, B.A., Rajesaheb of Aundh, communicated to me in his letter of 11th November 1943:—

"There are some Karada families in our District, with historical mislions; but they all date from the 18th century. They are the Mahdjani (Diwan) and Fadnis families. There are also Bhiguest and Tambes, who prospected during the times of Shabu under the protection of Brahmendra Swami. Near about Karad proper there are no Karada families with historical traditions. It is true that round about Karad families with historical traditions. It is true that round about Karad families with own lands but their lands have been acquired mostly in the later Maratha period either by gift or by purchase.

I feel that it is a mistake to regard the Karadas as Brahmins reiding in the Karanatas territory. At one time the Karadas were not looked upon as Brahmins. A manuscript referred to by R. G. Bhandrakra states how when two or three Karada Brahmins entered a water the other Brahmins considered it a pollution and left the place. It appears to me that the Karadas were first recognised as Brahmins that the Karada Stahmins.

Most Karada families trace their origin in the Gos territory. Their imily goddesis usually in the Gos territory. They are the priests while the Gauda Sărasvata are the lay gentry. Even today the real Karada Centre is in Gomantaka. It is obvious that the first recognition of their Brabminhood took place at the Court of the Shilahara Kings of Karada. Latera Kolsapur under the patronage of the Shilahara Kings of Sarada. Latera Kolsapur under the patronage of the Shilahara Kings of Sarada. Latera Kolsapur under the patronage of the Shilahara Kings of Karada. Latera Newscape in the Karada prospected and many Karada families can be found in and round bout Kollapur. Everywhere, however, these persons were fooked beared and the same Karada Sarada (Khandekar) of whom we hear during the last century, came to Saraf from Konlan side during very modern times. In fact the name Kerada does not suggest that these Ershmins resided in Karad territory.

I am very much thankful to the Rājisāsheb of Aundh for his kindly sending me the above information. The Gode or Takkhir family of Karhājā Brahmins to which I belong has been associated with the Partinidhis since a. D. 1748, when my anceston Niva (Rējaji Tahkur led a successful expedition on behalf of the Pratinidhis signisar Tulaji or Tulaji (Regional Proposition of the Pratinidhis signisar Tulaji ground. Narso Rawii obtained two villases as Kehit John viz. Devada

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v and likedhambe as the foot of the Vishelgad fort. These villages are still with a see pic of our association with the house of the Pratinith with us are relic of our association with the mount of another of Vishelped. It is a happy coincidence that a descendant of Nero Reysji Thakur (or Gode) should be associated with the illustrious Nero Reyaji Thakur (or Gode) mound be associated but on the descendent of the Pretinidhi family not on the battle-field but on the descendent of the Pratingen tamily not an interest the Bhandarkar field of Oriental learning since April 1919, when the Bhandarkar Rold of Oriental learning some apen too. The Critical Edition Orienal Research Institute commences us work on the Critical Edition of the Mahibhinus with the munificent support of the Rajasaheb of of the Muhibilities with the munificent support of the Kajāsāheb of Muhibilities with the service of this Institute as its Curator.

### 2. SOME KARHADE BRAHMIN FAMILIES AT BENARES Retween A D. 1550 AND A D. 1660°

In the Nirapsypatra' drawn up at Makinandapa in Benares in D. 1838 (She 1850) we find the signature of one Bahale Kryabhatja who calls himself "Pramakha Karhāda" or leader of the Karhāda Brahmins, obviously resident of Benares. It is clear from the reference that a few Karhāda' Brahmins had settled at Benares in Abbar's time, if not somewhat earlier. To corroborate this inference we must try to record some evidence about the families of Karhāda Brahmins shat were resident of Benares in the latter half of the locentury and the first half of the 17th century. I propose in this paper to point out that telest tyou more Karhāda families with the surrames Karāt (wwt) and Ārada (wwt) respectively were resident of Benares during the above period as will be seen from the following references—

- 1. Mr. V. V. Athalye in his History of the Karhāde Brahmins, Poons, 1947, records 16 families of Karhādā Brahmins of Gautama outer (p. 48) among which we find a family of the surrame: "STUR."
- 2. The Anup Sanskiri Library, Bikaner, contains a Ms of Asterrypropulse written at swift or Benares in Sement 1639 (= n.b. 1582) by
  one "ভাগাৰ বিষয়ত "(Ms No. 33, p. 34 of-the Catalogue of this Library
  by K. M. K. Sarma and C. K. Raja, Bikaner, 1944). Evidently
  'ভাগাৰ বিষয়ে" was a Karhādi Brahmin, contemporary with ৰখনী
  gumag (A.b. 1583) referred to above as the leader of Karhāde Brahmins.
  The start of the Bakhala [amilt] is suraye.
- 3. Further evidence about the existence of the will family at Benares is forthcoming from the Sammatipatra\* of A.D. 1031 (Saka 1687 of Vikrama Era) drawn up at Benares. This document contains the following endorsements:—
  - (1) "बार्देषि नामक नारायणभद्दानां क्षेत्रतम्"
  - (२) '' कोवाइ वासरेवसहस्य संस्तुस्
  - \* Journal of Kalinga Historical Research Society, Vol. 11, No. 2, pp. 111-114.
- 1. Vide pp. 76-77 of Chiefekhaffe Prakerose by R. S. Emputat, Bonday, 1926. Thin Nirapayapara is signed by মাৰথী নগাঁৱ বিচিত্ৰ who calls himself মুদ্ধ বিশালনী or leader of the Cippian Brahmins. I have identified this মান্ত্ৰী নগাঁৱ বিশিল্প with मান্ত্ৰী নাৰ্বিষ্কা pupil of Vijildankikys, the celebrated philmopher of Benares (vide Adyar Libery Bullein Feb. 1944, pp. 20-28).
- 2. On the antiquity of the aste-name "Kandlaha" or Karhaje Brahmins see my paper in the History of Gunys Family by V. T. Gune, Poons, 1944, Appendix II, pp. 1.53, 3, Vide R. B. Gunjikar's Sarsaveti-Magdal, Bombay, 1884, Appendix pp. 22-24.
  Mr. Gunjikar in his list of [Karhajde sutrammes (p. 165) mentions Mrs. Olutis, etc. but

According to Mr. V. V. Athalye (History of Karhādā Brahmins p. 5)) there is a Karhādā family of the surname ''करफेक्स '' alias ''आरव्ये' of अल्हास्त्रकोषः आरव्ये is identical with आर्थे. Evidently नारायणक्ष सार्थे of 1637 A.D. belonged to this family and बाह्यदेश्वह, his contemporary, belonged to the क्षेत्रण family

- 4. The two Pandits of Benares viz. (1) πτιπτατικ πττ and (2) τα πτιξτα πτ ε referred to above in the document of a.D. 16/3 were living in A.D. 1637 because they have signed another document, which is a Nirrapapheta, drawn up at Mathimandph in Benares in A.D. 1657 (vide p. 79 of Fenders upwer effected to above). Their endorsements on this document are a follows:
  - " संमतं डोवाइ वासदेवस्य । "
  - " संवतं वारायणमह भारते इत्युपनाम्नः । "

It is clear from the above endorsements that these two Karhāgā Panditi inved at Bennares say between a Dn. 1625 and 1690. They were contemporaries of other co-signatories, some of whom bear Mahārāṣṭra sunames such as कर्फे, ठक्कां, एकपुत, विद्यास, प्रशास, कंगरे, महारायं, महारायं, स्वाद्यास, विद्यास, प्रशास, कंगरे, महारायं, म

- 5. As two members of the আঁঘা (amily viz. (1) কৈম্মের of A.D. 1824 and (2) খায়ুখি মার (A.D. 1631, 1657) are referred to in three different documents between A.D. 1822 and 1657 we have reason to believe that this Koedi family was resident of Benares say between A.D. 1850 and 1660. Perhaps व्याद्धिमाई भाग्य may have been lether the son or the nephew of संपन्ध कंगार. It remains to be proved if these two Pandits of the Koedi family produced any literary works.
- 6. The Argé family, however, produced some authors as 1 have shown in my paper "Some Authors of the Argé Family and their Chrosslogy—between A.D. 1600 and 1823" (Journal of the Bombay University, September 1943, Vol. XII, part 2, pp. 63-69). National and in Superar to have lived at Benares between A.D. 1600 and 1670 and composed such works as \*quintures\*, etc. He mentions in his \*quintures\*, or Mos of A.D. 1727 the name of his father viz. «eq4ivit, who must have lived between say A.D. 1550 and 1620. He may be looked upon as contemporary of \*avent \*evide\* (A.D. 1823).
- 7. Since the publication of my papers on Arde authors Mr. S. L. Katre of the Scindia Oriental Institute, Ujjain, has published an excellent paper on "Nariayagabhatte Arde, His Works and Date (vide pp. 74-86 of Bhāratīya Vidyā, Bombay, March-April 1945). The following points from this paper may be noted here:—

- (i) The Arde family belongs to the भारहा बगोत्र.
- (ii) This family has its basic residence in some villages near  $S_a$  wantwadi and Goa in Konkan.
- (iii) Two branches of this family migrated to Benares (U. P.) and Saugor (C. P.) respectively.
- (iv) The Saugor branch is still there but the Benares branch is extinct-
- (v) The daughter of the last male member of the Benores Ārde family was married in the Pādhye-Gurjar family a hundred years ago. Her son inherited the estates of the Ārde family. His descendants still flourish at Bentres.
- (vi) The Baroda Ms of γημέθεπητ by «πυπνατε νατά is dated An 1690 as 1 have already pointed out (vide page 27 of my paper on Karhádá caste-name in the History of the Compte Fomily). There are three Mso of this work in the Library of the Scindial Oriental Institute, Ujjain. One of these Mso (No. 5642) bears the exact date of composition of this work which is "April 1640" (Castra of Sandeat 1697). This work was completed by its author at "πιπατιτ" which is possibly identical with Hyderabad (Deccan).
- (vii) Nărăyanabhaţu\* a gurfiteuru (A.D. 1640) mentions thrice hit own metaturu of which a rac Ma belongs to Mr. S. I. Katre's family, Mr. Katre records a list of the numerous works and authors referred to in the stream by Nărâyanabhaţu. In this work the author states that be composed the surgentra at the instance of one states (sm) differ who may be a resident of Bhāgānagar or Benard.
- (viii) Aufrecht records a Ms of Nārāyaṇabhaṭṭa's संस्कारसागर (C. C. 1, 682).
- (x) Nārāyaṇabhaṭṭa refers to his व्यक्तिस्सागर (in his प्रासागर) but no Ms of this work has yet been traced.
- (xi) Nārāyaṇabhaṭṭa refers to his श्रीम (सागर?) in his प्यासागर (सप्रकारस्तु होमे वक्षते). Perhaps he had projected some such work as शोमसागर. No Ms under this title has been traced.

- (xiii) Nārāyaṇabhaṭṭa's বিত্যবিদ্যক is represented by Ms No. 5345 in the Library of the Scindia Oriental Institute.
- (xiv) Aufrecht records some Mss of Nārāyaṇabhaṭṭa's আৰ্থন্ট
- (xv) অনুষ্টামভাবিভা of Nārāyaṇabhaṭṭa mentioned by H. P. Sāstri (Notices, Second series, Vol. 111, 1907, p. 171) seems to be an extract from some major compilation of this author.
- (xvi) Nārāyaṇabhaṭṭa has been quoted as authority by a subsequent author Nārāyaṇa Kumbhari.
- The gotras of three different Karhāde Brahmin families resident at Benares between c. A.D. 1550 and 1660 are as follows:—
  - वसले—काइयप्रगोत्र
  - २. बारडे or बारडवे—भारडाञ्चगोत्र
  - २. **कोवाई**—गौतम गोत्र

I cannot say if these families had any inter-relation by marriage among their members, though there is every possibility of such relations owing to the limited number of the Karhāde families at Benares during the period A.D. 1550-1660.

## THE ANTIQUITY OF THE CASTE-NAMES SĂLI AND PADMASĂLI\*

In the Mahārāṣṭṣṇya Jāāṇaahafa' we find an article on the Salt catte which is based on the information supplied to the Editors of this Encyclopaedia by a member of this caste. But this information is not substantiated by reliable documentary evidence. Even if we presund it to be reliable in material particulars it is difficult to use this mixture of fact and belief for any historical studies about this caste. We must, therefore, verify the information from available records and try to linkup at least a portion of these data with authentic history, social or solitical.

It is difficult to assess the exact historical value of the Māhāmyac and the Paurāna and consequently it is difficult to say anything with certainty about the genuineness or otherwise of the Sālīmāhātmya Paurāna. In view of this difficulty we must study the antiquity and history of this caste on the strength of external evidence. For this purpose we must record evidence about the antiquity of the castenate and the same of the same of

- 2. I have published the following papers on the caste-names current in the Decean:-
  - (1) The antiquity of the caste-name "Senvi" (The Bombay University Journal,
    - (2) Caste-name Gabit (Sardesai Commemoration Volume, 1938, pp. 213-222).
- Vide Indian Caste by John Wilson, Vol. I, 1877. On page 40 we find a table of
  castes as mentioned in the Brahmo-Vaivanta Purdas, in which \$100-76 or weaver is said
  to have Vidvakarma as his father and a \$0dra woman as mother. Wilson refers to
  4 lists of Castes as follows:—
  - (1) Lists given in the Manu-Smrti.
  - (2) Lists presented to the British Government by the Poons Brohmins (pp. 65-70),

<sup>.</sup> Journal of G. Tha Research Institute, Vol. II, Part I. pp. 59-68.

<sup>1.</sup> pp Dr. S. V. Kedars, Vol. XXI, (¶ Voul). This strict records information about the sub-casts Scohola 5311. The members of his casts number bood 50000 and they are scattered over Mahristra. Berar, Nagour and Karajaka. There are six sub-casts of the Soxobola 5241 casts, "(.) 1928 (¶ 197, (.) 2) 3% (¶ 197, (.) 1984 (¶ 197, (.)

The Bombay Gazettes<sup>1</sup> shows the presence of the people of the Salt caste in the different districts of the Bombay Presidency. In view of this fact we are naturally curious to know the history of this caste and its sub-divisions during the course of the evolution of the Hindu Society as it exists today.

The Marathi lexicons do not record any historical usages of the term Sdit. I shall, therefore, try to record a few such usages found by me in works of the 17th century. The Mahārāṣṭra Saint Tukārām refers to a man of the Sdit caste in the following lines in his Gathi:—

## " व्यवस्य सकी चेटा। नव्हें सासी कोडी कोटा."

Here साली is contrasted with कोटा. The कोटी is explained by Molesworth as a spinner and weaver but he further states that the men of the कोटी caste agree with the men of the साली caste in occupation but differ in caste. This explanation agrees with Tukārāma's remarks viz.

# " नम्हे साछी कोही कोहा."

- (1) List by Colebrooke ( Asiatic Researches, Vol. V ).
- (4) List found in the Ministerka.
- Wilson states that noncol these lists slongether agree with one another. This fact satablishes the fictional character of the caste arrangements, especially of the Mixed dates.
  - In List No. 2 mentioned above we find the SdlI and Kosti.
  - "14-Shambara-Sall Wenver" born of Midde and ad.
  - 75.Kwaeinda-Kettl Weaver and Spinner born of आवर्तक and कुन्दुन्ट.
- Vide Index to the Bonday Genetice 1904, p. 326—"531; a caste of vestorin Renagrid district, XI, 13; in Fhase district, XII, 13; in Anadequage district, XVI, 31; and Anadequage district, XVI, 10; and Anadequage district, XVII, 10; and Salage district, XXII, 10; in Belgame district, XXII, 10; in Belgame district, XXII, 10; in Belgame district, XXIII, 17:-59; in Kellagen State, XXIV, 85; in Passes
   125; in Belgame district, XXIII, 37:-59; in Kellagen State, XXIV, 85; in Passes
   126; in Salagen district, XXIII, 37:-59; in Vestoria Color, XXIV, 85; in Passes
   127; in Salagen district, XXIII, 37:-59; in Vestoria Color, XXIV, 85; in Passes
- 2. Molesworth (Marathi-English Dictionary, Bombay, 1857) explains the word साले a class of weavers (in cotton or silk) or an individual of it :—Proverb ''सालयानी गाय सालयान वासतर' used where things wanted are gathered from all quarters.
- 3. A few smarks about the Stift from the Sanday Guastiers may be noted here-they claim descent from Vastradisth, the robsame of the gods, whom the gods ecompanied on earth in the form of useful tools. Their family gods are Babirobs of Seart in Almedengar, Previ of Tulpaper in the Nisant's country, and Khandebs of Jojari in Foons. They belong to four divisions (1) Sadas/ (2) Nobal for Lokal), 1) Pedam and (O (Chaelahdy, Salik). Sadal Salits are the pure descendents of the founder of the caste. Laksh are bustreds, Pedam are Telengs and Chândabder are obtained to the caster. Laksh are bustreds, Pedam are Telengs and Chândabder are obtained to the caster. Laksh are bustreds, Pedam are Telengs and Chândabder are obtained to the caster of the caster. Laksh are have a term energy with the other three divisions. Lakshir They worship all Brohomsical and other gods and large all Hinde facts and fence. Their practice is calling Joshim.— They have no religious teacher. \_\_ They have a teste conneil. They but to their deed and mourn ton days. (See pp. 130-131 of S. Gue-XVII, Ahmedengar).
  - 4. Tubbrama's Githe, ad. by R. V. Madasonkar, Bombay, 1886. Abbanea No. 277.

Another reference to the Sāli' and the Koffi is found in the work Kyasthadharma-Pradīpa of Gūgābhaṭṭa who officiated at the coronation of Shivāji the Great in A.D. 1674. In this work Gūgābhaṭṭa gives us the definitions of several caste-names current in his time and also indicates their vernacular equivalents as the following extract will show:—

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" संतता वेन विकार करियेन वहा रहः।
तरमां तारंवधित्यनः दुव रोक्ट संततः।
स शीनस्वर-व्यातियः: दुविवामो विचायकः।
धर्व साली दुवि आयार्वासदः।
स शीर कुनकृत्यम्यं वो जातः सीवीरसंब हः।
स कृत्योकसरीजां च वस्तान्यारावसुच्चे।।
स्वर्दर्शायायो जातो तिलक्षिको स कप्तवे।
कीसार हुत्वे संगावहेषामार्वासदः॥ "
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1. Sardar G. N. Mujimdar has published a list of stricles of greecry pertaining to Sheigly's times, i.e., 17th century (R. 1. S. M. Quarterly, May 1969, Vol XX, No. 1969, V

It is difficult to say how far Gigabhasta's definition of the term Sdll is correct
historically. At the best he has only recorded the Shästric view of the term Sdll and
its verification on the atrenth of historical evidence needs to be attempted by the
students of history and sociology as well.

In the জানিবিশ্বন্ধন্য of a work called the ব্যানিষ্টানেল by স্থানালে (MS No. 347 of 1887-91) we find definitions of several castes (jails), On folio 196 of the above MS the definition of কৃষ্ণিই or weaver is recorded and the vernacular term মানা for কৃষ্ণিই is also noted:—

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" तृतीये दिवते गत्वा श्रहो मोहाइयस्ततो ।
यं पुत्रं जनयेसीज क्रेबिद इति कोर्तितः ॥
कुर्यान्त्रतनक्क्षाणि जीवेसद्विकयेण वः।
टेजसेवा सदा कर्याकाय कार्य्ययाजिता ॥ कविदः । सातो । "
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No chronology of the 단단대통령과 has been given by Prof. Kane (vide pp. 670 and 688 of History of Dharma. I, 1930). Its author 환자자의 was a king of Mahárfarta. On folio 12 the definition of Histor) ir recorded as follows.

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'' संगता केन बनिता बर्सकेन यदा रहः ।
तस्य शावरकाभिक्यः पुत्रो सीलोक विश्वतः ॥
स ब्रोनसंस्य प्रतिभयः शुविवाशो विभायकः ।
वेन बनितेति । आवर्तको वैष्णको गायको प्राह्मणबेति ॥
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Before recording usages of the term Sill or Padma-Sill earlier than Gagibhatta's time, i.e. say before A.D. 1650 or so I shall record here some remarks on the Sale caste of weavers in the Mysore State by Nanjundayya and Iyer.\(^1\) Speaking of the origin and tradition of this caste these authors inform us as follows:

- (1) The term sāle is a general term applied to a group of castes who have adopted weaving as their profession.
- (2) The term Sāle comes from the Sanskrit Sālika<sup>2</sup> (weaver) and its Kannada equivalent is neyige.
- (3) The account of the origin of the Sale caste as it is given out tells us that "in order to clothe the nakedness of people in the world Siva commissioned Mirkandeya to perform a sacrifice and one Bhavana Rgi came out of the holy fire, holding a lotte stower (padma) in his hand. He married two wives Prasamenesi and Bhadrinati, daughters of Sarya (the Sun) and had a hundred and one sons, all of whom took to weaving cloth out of the fibre of the lotus flower for men to wear and became the progenitors of the one hundred and one gotras of this caste. God Sarya, being pleased with what they did, gave them a fifth Veda called Padma Vada. And so men of this caste give out that they belong to Padma Sakhá and Markandrya Sútra, analogous to Sākhár, Sátras and outras of the Etchmana."

"They profess to have followed rites prescribed for Brahmans till at the beginning of the Kali age one of their castemen named Padmaliya declined to reveal the virtues of a miraculous game which Brahma had given to their caste, to Ganapasti, who sought to learn the secret, which they had been enjoined to keep and who, on his wish not being gratified, cursed them to fall from their high status. It is asid, however, that one Parabrahmanjarii born of Strisma Agrahära pleased Ganapati by his tapas and got the curse removed, so that after 5000 years of the Kaliyuga they should regain their lost position. This Parabrahmanjarii totherwise known as Padmahhadheadirja, it is said, redistributed into ninety-six getras arranged in eight groups and established four Maghas and gusus for them."

We are also told that "the age and origin of this story cannot be ascertained." In view of this express statement of Messrs. Nanjun-

- Mysore Tribes and Castes, Vol. IV, by H. V. Nanjundayya and L. K. Anantakrishna Iyer. Mysore, 1931, pp. 559 ff.
  - 2. There is no such word as Salika found in Senskrit Dictionaries.

days and Iyer this story! has no evidential value in proving the antiquity of the term Sālī or Padmazālī. In the same manner Mr. Stuart's note regarding the origin of this caste, which refers to the migration of the Sālīyas from their Andhra home to the territory under the jurisdiction of Rājarāja I, needs verification on the strength of contemporary historical evidence. At any rate no such evidence has been recorded by the above authors in biet pook under reference.

The principal groups of the Sale caste are as follows :-

(1) Padmasāle. (2) Pattūsāle (silk). (3) Sakunsāle.

Here again we are told that the origin of there subdivisions is not clear. The Padmasiled division is, however, more important than the other two divisions. According to tradition current among the Sile coatse the members of this caste emigrated from Vijayangara territory in particular from Hampe during the time of Kempe Gaudi. If this tradition is correct the migration of the Siles from the Vijayangara territory can be said to have taken place about the middle of the 16th century as Kempe Gaudi of Bengaluru flourished about A.D. 1558, E. While dealing with the textile industries during the period of the third dynasty of Vijayangara Frof. Ramanaya? gives us some valuable information about the Siles. Three references from this information may be noted here as they are of historical value:—

- An inscription of Andirāju Kodūr mentions two classes of looms, togāta maggas and Sāle-maggas.
- (2) According to the Amuktamālyada® of Kṛṣṇadevarāya (4-35) the weaver caste had divisions of the names: Padmasāles, Sāles, Tāndyas, etc.
- (3) The Atthavana Tantram divides the weavers into two classes;
   (i) Kuruhas and (ii) Sāles.
- Vide footnote on p. 560 of Myrore Tribes and Cases where Mr. Stuart's remarks regarding the origin of the Salit caste are reproduced as follows:—
- "They claim to be the descendants of the sage name Mrikands, the weaver of the gods. Their original home appears to have been the Andhra country from whence a section of the Saliyas was invited by the Chola king Rajaraja I after the union of the Bastern Chalutya and Chola dynastics"—Census Report of Madras for 1001 p. 285.
- 2. B A. Salstore, Vijayamagara Empire, Vol. I. p. 320—"A prominent example of a chieftain being punjshed is that of Kempe Gauga of Bengallou. This chief is about A. D. 1558 was imprisoned by Râma Râja for exceeding the powers of a feudal lord and ceinine Bhree. Dava. Peachas."
- Studies in the History of the Third Dynasty of Vijayanagara, by Prof. N. V. Ramanayya, Madra., 1935, p. 304.
  - 4. Local Records by C. P. Brown I, pp. 11-13,
  - 5. This "sublime poem" was composed by Kispadevaraya himself (see p. 434 of Third Dynasty).
- 6. 1he Atthonous Tostre is a work on revenue administration—thid p. 111. (Machanis Mensurght 15-6-8-According to eithernee Teatre all affair connected with the revenue of the state were under the jurisdiction of the Atthorouse or Standard 1.

The occasion for the above grant of A.D. 1541 as detailed in the inscription itself and summarised by Mr. M. R. Kavi is as follows:—

"A contest took place between the Padmaiālā and Jandra castes whether which of the two castes were descendants of the family in which the Goddess Laksmi was born. Tiruvengālanātha, the donee. took the leaders of the two castes to Tirucanur and before the whole congregation induced Goddess Padmävati herself to declare that Padmatalas descended from the family of her parents and the charities of the Tandra neonle could not have greater claim over those of the Padmatala caste. This service of Tiruvengalanatha the donee, had to be rewarded by the gifts mentioned above....... The Padmaiālā weavers having heen admitted as possessors of superior rights and duties in the charities to be made for God Visnu and his consort Lakami were pleased to make the grants." Mr. Kavi further tells us that the same matter with the same donors and donee as in the above inscription is noted in an inscription recorded in Mackenzie collection Vol. No. 15-4-18, p. 57 and in its copy-Local Records Vol. 48, p. 443 in the Govt. Ori. MSS Library, Madras. The occasion for the above grant was also a contest between the Padmaiālās and Jandras. The above inscription is dated Saka 1493 = A.D. 1571. It extols the weaving skill of the Padmasalas, which extends to the spinning and weaving of the threads of the divine lotus which adorns the navel of God Visnu out of which they supplied the divine clothes to various gods in Hindu nantheon. Other points of interest bearing on the ancestry and tradition of the Padmafalas noted by Mr. Kavi from the inscription may be briefly noted here :-

 The Padmaśālās are descended from Bhāvanamaharţi who sprang from the homakuşda of sage Mārkandeya.

<sup>1.</sup> Vol. I, Part I, March 1940, pp. 89 ff., Copper-plate Inscription of Tallapaka Tiruvengalanatha issued from Tirucanur,

(2) Pafica-rsi was a brother of Rhavana, who seems to have merried the daughter of sun (probably virgin Rhadravati mentioned in line 88 of the Inscription).

(3) Certain members of the caste achieved some heroic acts and thus procured titles for the whole caste.

Mr. Kavi informs us further that "these weavers are said to reside

in every town, particularly in-

Tirupati, Candragiri, Srirangam, Conjeevaram, Trichinopoly, Chennanatna (Madras), Kalahasti, Venkatagiri, Vellore, Nellore, Podili, Udavagiri, Golkonda, Penugonda, Inugonda (in Guntur district?). Kandanum, Jagannatha, Derhi, Aurangabad, Rayadurg, Avaku (in Kurnool district), Gurrambakonda, Gooty, Kondyidu, Bhallapura (in Rellary ?), Srirangapatam, Ahmednagar, Bangalore, Cuddanah, Siddha, vatam. Raiamundry, Chirala, Perala, Mangalagiri, etc.

My object in collecting together the foregoing information in detail is mainly to provide data to the historians of caste in India and also to record documentary evidence regarding the antiquity of caste-names Sali and Padmasali now current in the Bombay Presidency and outside.

The following table will give at a glance the chronology of the usages of these caste-names :-

A.D.	Source	Caste-name	Remarks
1509-1530	Āmuktamālyada of Kṛṣṇadevarāya	Padmasāles, Sāles, Jaņdras	
1541	Copperplate inscrip- tion of Tiruvenga- lanātha	Padmašāl <b>ā</b> , Jāņģra	Cf. tradition about the migration of Sāles from Vijayanagara in Kempe Gauda's time
1571	Mackenzie Collec- tion Inscription	Padmašālā, Jāņģra	(c. 1558 a.d.)
	Tukārāma's Gāthā	Sālī, Koşţā	i
c. 1674	Gāgābhaṭṭa's Kāyas- thadharma Pradipa	Sālī, Kolaţā	Sanskrit "Sanilaka" a term current in Bengal according to Gägäbhaṭṭa

<sup>1.</sup> Though the caste-names are included in Dictionaries of different vernaculars it is necessary to prepare a special Dictionary of Caste-names with a view to help historical and sociological study of Indian castes. In the same manner a Dictionary of Surnamer current in India is also a desideratum to facilitate an accurate exploitation of all availsble sources bearing on Indian Sociology. Even the usages of the term "Upandme" (e Strasme), which is comparatively a modern product, have not been recorded in any responsible publication. In the absence of such helpful, though mechanical work, the study of an individual problem becomes a herculean task.

#### 4. CASTE-NAME "GABIT" \*

In November 1937 my friend Rao Bahadur Wasudev Anant Bambardekar of Bandra (Bombay) requested me to throw some light on the history of the caste-name "gelikt." Being interested in the antiquity of caste-names now current in India and particularly those current in the Deccan and having already written a short note? on the antiquity of the caste name. "Jepsit," I could not resist the temptation going a little deeper in the history of this casten-name, though by habit and training I can hardly call myself either a philologist or a historian qualified to undertake a complicated problem of a historical study of Indian caste-names. I was, however, convinced that for a true understanding of these caste-names a systematic record of the actual usages' of these names in definitely dated historical documents was an essential preliminary before any attempts are made to interpret them. In short textual criticism should be the terra firma on which all interpretative criticism should be based.

Let us now turn to some of the explanations of the term "gābīt" as are found recorded in the Marathi dictionaries.

The Mahārāṣṭra Śabdakaia that is being published by the Mahārāṣṭra Kośamandal, Poona, explains the word as follows:—

GÄBĪT or GÄBDĪ—(Masc.), (Rajapur), GĀBĪT; GRĀBĪT; KHĀRVĪ; KOĻĪ; a fisher-man; a Konkan caste; (vide Itāna-kośa. p. GA—101).

Sardesai Commemoratian Volume, 1938, pp 213-222,

<sup>1.</sup> Vide Caster and Tribes of Bombay by R. E. Enthoven, Vol. I, Bombay, 1920, pp. 347-350. Gabits-number 24233 (11569 males, 12664 females) reside on the Sea Coast-Ratnieiri, Kanara, Savantvadi-a few families at Suret, Kolaba, Thana and Janjira - call themselves Konkani Marathas - descendants of Marathas who manned Shivaji's nevy-Some of them are still called Gurabilandels-they are chiefly fishermen and sailors-in some places they have getras,-probable Maratha origin of the Caste-God, the original home of Gabin-During Portuguese insurrection they fled to Ratnagiri and Kanara-those who remained in Gos: were converted to Christianity-their acress according to some accounts:-Atri, Babhra, va. Bharadvais, Gargya, Kapila, Kateana Kausita, Sandllys, Vasieths, Vates-According to other account the whole caste has only one gotra Kdiyapa-family stocks: Bhosale, Jadhav, Ghorpade, Dabhade, Dhamale, Shinde, Chaven, Kubel, Tawade, More, Nikam-Polygamy is allowed and practised but polyandry is unknown .- Widow re-marriage, permitted-Gabits follow the Hindu law of inheritance and belong to Hindu religion-Samkaracarva of Sankeshwar is their spiritual guide-Their priests are Chitpavan or Karhada Brahmina-The dead are gither burnt or buried-Staddha is performed annually.

<sup>2.</sup> Jour. Bomb. Uni. May, 1937, pp. 152-155.

Such record of chronological usages will be found in such works as Hobson-Johns (second edn. by Crooks, London, 1903) and other scientifically compiled lexicome as the Oxford Eng. Dict.

<sup>4.</sup> Mahd. Sabda, Poops, 1934, Part III. p. 978.

Arabic—Ghurāb-Grāb (Gurāb)—an Arabic shipping vessel. The Maratha warriors who manned such a ship were called GRĀBTI or GĀBTI. This word became current in the time of the great Maratha king Shivaii.

Proverb.-"Gāvdyās gurūń, gurākhyās tārūń."

GRÄBTIN-fisher-woman.

- I have rendered into English the extract from the Śabdakoja without disturbing its sense with a view to investigate the problems it raises, viz.—
  - 1. That the word "gabit" is a caste-name.
  - That it is derived from the Arabic name: GHURAB, grāb or gurāb, meaning a vessel.
  - 3. That the word became current in Shivaii's time.

According to the information recorded in the Mahārāstra Thānahola! the total population of the GABTI caste in 1911 was 24.818. Men of this caste generally reside on the sea-coast and are found in the districts of Ratnagiri, Kanara and Savantwadi State. The origin of the word GABTI (GABIT or GRABTI) is tradionally explained by its reference to the Arabic word GRAB which means a 'gunboat'. The Konkani Marathas who manned these gun-boats were called GRABTI or GABTI. "The word GABIT is not the true word" but it is only used in the Census Reports. The ancestors of the Gabti caste people of the present day were formerly employed by Shivaji in his navy, and consequently men of this caste are found in large numbers in seaside places like laitapur. Vijavadurga, Devgad, Malvan, Vengurle, which were formerly the bases of the navy. After the abolition of the Maratha fleet at the close of the Peshva period of the Maratha history the Gabits took to fishing, having lost their war-like occupation. (Vide Census of India, Vol. VII-Information supplied by Mr. K. V. Kubal), 3

The investigation of the several problems connected with the foregoing jumbled mass of tradition, history, philology and the pride of pedigree is quite beyond the scope of the present paper. I would, therefore, combat only some definite statements made in the foregoing explanations, on the strength of documentary evidence.

It is said in the above information recorded in the Jāānakośa that "the word GĀBIT is not the true word" but that it is a term used in

<sup>1.</sup> Maha, Jilanakoia, Part XII, Ga. 102.

<sup>2.</sup> Ibid.

See Bombay Gusetteer, under Gobit, a caste of Fishermen. in Ratnagiri District, X, 127, 155, 171; in Savantvadi State, X, 406, 415; in Kolaba District, XI, 68; in Kanara District, XV, Pt. 1, 305, in the Belgaum District, XXI, 156.

the Census reports. This statement is definitely wrong. The following documentary evidence shows that the term GABIT is three hundred years old, being used in definitely dated documents of AD. 1633 and 1723. The oldest forms of this caste-name if they vary from the form GABIT current in AD. 1633 will have to be proved by textual evidence. In AD. 1723 slave the form current was GABIT as I shall show below. I shall be happy to know any variations from this form recorded in early documents?

- (1) 項相 P.D. 40 (46) c. 1747 r.o.; P.D. 34 (\*) 1737 (項相目); P.D. 34 (80) 1739; P.D. 34 (110) c. 1738 (reference to "資明市市局" or telescope used for avail remonsitions); P.D. 34 (100) 1731; P.D. 33 (10) 1731; P.D.
- 33 (14 and 22) 1733; (2) 祝祖孝一 P.D. 40 (45) 1742; P.D. 40 (63) 1750; PD. 34 (80) 1737 (pl. 代祖宗);
- P.D. 33 (63) 1733 (स्थितार्थी ); (3) नरांबी — P.D. 40 (63) 1730; P.D. 34 (9, 1737 (नरांबे); P.D. 33 (14) 1733;
- 4) **महानिर्श** P.D. 40 (63) 1750 (महानिन्या pl.); P.D. 34 (61) 1737; P.D. 33 (14) 1733 (मार्हेनिर्श, माहनिर्श); P.D. 33 (17) 1733; P.D. 33 (22) 1733 (मार्हेनिन्या); P.D. 33 (51) 1733 (मार्हिनिर्श);
  - P.D. 33 (45) 1733 (নাছাদি-বা); (5) বজৰৰ – P.D. 34 (9) 1737; P.D. 33 (10) 1733 and many times.
- (6) (18) P.D. 34 (31) 1737;
- (7) पड़न्या P.D. 34 (34) 1738; P.D. 34 (\*1) 1737; P.D. 34 (99) 1738; P.D. 34 (120) 1737;
- (8) फतेमारी— P.D. 34 (42) 1737 : (9) करी ( = इच्छी जहाज); P.D. 34 (57) 1738 ;
- (1º) फरवॉर्स P.D. 34 (61) 1737; P.D. 34 (99) 1738; P.D. 34 (120; 1738;
- (11) मचरे— P.D. 34 (80) 1737;
- (12) 3813 P.D. 34 (81) 1737; P.D. 34 (146) 1730;
- P.D. 33 (63) 1733 ( স্বার্টার ); P.D. 33 (65) 1733 ( সার্টার );
- (13) सारव P.D. 34 (85) 1737;
- (14) पाड-, P.D. 34 (120) 1738;
- (15) ৰাম্বা P.D. 34 (61) 1737 ( পাঁৰল বাম্বা!). Men employed to work on these vessels were Kelir, Bhandaris, Christians, Muhammedans (P.D. 34 (61) 1737) as also Arabi (P.D. 34 (60) 1737) as also Arabi (P.D. 34 (60) 1737). The following references to allied terms may be found interest.

<sup>1.</sup> Though such strip documents (excetally before 2.0. 1000) are quite rare in the Marnha records there are got many of them in the Perken D flow citied by Rae Babdurt C. S. Sardessi. Not only men of the GdMt casts were recruited in the Marnha nay but also men form other seaf-aring easies were a visitle of A. A third of these cases and their history is yet a desidentum inspite of the information about them recorded in the Gazetters. Now that the Martala. Navy as such has created to estite it is worth while putting on recred the nostical terminology that became current during the rigorous street of this Navy but some of which has sone become obselvating the rigorous street of this Navy but come of which has now become obselvating the rigorous orderials such a study in present I shall record below as a specimen blind of ships and boats as the first recommend.

The other statement made in the information supplied by the Saba-Kośa and Jāñan-Kośa referred to already is that the term beame current in Shivaji's time. My evidence shows that this statement also is not true to history. The use of the word GABIT in a document dated a.D. 1633, when Shivaji was three years old and hence too young to think of a navy or the allied question of employing Konhin Marathas on his gunboats (or Grabb' or Gurzba or Ghurzba) definitely proves the fixity of the form Gabit in the Marathi language not only in a.D. 1633 but much earlier. At any rate one cannot exploit Shivaji's navy, of which I am equally proud along with my fellow-countrymen, for explaining the term GABIT. My evidence easily

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াৰু: "বাছৰি বৰাই", P.D. 34 (35) 7291; বাছৰ e Small gane (दीन पंत्रको हात्रत्त कांच कुं के धर्मा द हिता ते कांच ); P.D. 34 (35) 7292; T. वाहब e Small gane (दीन पंत्रको हात्र्य देवा ) है P.D. 34 (36) 7292; Farts of expigement of a finest (satte देवे देवाणी कांक्टर्सेट देवाणी ) P.D. 34 (46) 7272; Farts of expigement of a finest finest control of the f
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- Vide article on GR\B in Hobson-Jobson (1903) pp. 391-392). The term is now obsolete. Vide also Bombay Granteer ziii, pt. 1, 349. The proper Arabic word for Grab is ghorib, adapted into Marithi and Konkani as gurdb. Chronological usages of the word.—
  - (1) A.D. 1181 "a ghurab from Tripoli" (Arabic letter of Archbishop of
    - (2) c. 1200 "Ghurab" Cornix, Corvus. gales.
    - (3) 1343-"Gharáb" (Ibn Batuts iv. 59).
  - (4) 1905 "Gabra" = "gordb" (Vocabulary of Pedro de Alcala).
    (5) 1554 "Ghurāba" (Sidi'Ali Kapudan in the narrative of his fight with
  - Portuguese).

    (6) 1-10 "Gourabe" (Pyr.rd de Laval Hak. Soc. i. 312).
  - (7) 1660- "Ghrdb" (Muhammed M'asum, in Elliot. i. 250).
  - (8) 1679- "Grob" (Hedges, Diary, Hak. Soc. ii, Ct xxxiv).
    (9) 1690- "Ghorab" (Hyde, Note on Peristol, in Synt. Dissertt, i. 97).
  - (10) 1673- "Grob" [Tryer, 153).
  - (11) 1727- "Grabs of war" (A. Hamilton, i. 250, ed. 1744, ii. 253).
  - (12) 1753-52- "Goerable". (13) 1754- "Grab".
  - (14) 1760- "Grab".
  - (15) 1763 "Grab"
  - (16) 1810- "Grab". (17) 1820- "Ghorab".
  - (18) 1872 "Ghurab" (Burton, Sind Revisited).

The Mahdrdstra Sahdahota, Vol. III, p. 1906 records under "Gurdb" the following line from the Mahibhérata (in Marathi verse) by the celebrated Mehdrikstra poet Moropant (a.b. 1729 to 1794): -

''सर्विष्टि मंडरीच्या भवांसधूतील वा गुराबा उवा।'' (Udyoga, p. 13, 173).

The above usage of the word gurdb for purposes of poetical imagery shows the extent to which it had become naturalised in the Marathi language inspite of its Arabic criefin. pushes back the antiquity of the term to about A.D. 1550 allowing a period of about half a century for it to be naturalised in the country of its adoption, even supposing that the term GABIT was derived from a fureign word.

To come now to the usage of the term GABIT recorded in documents. In a bundle of papers kindly lent to me for reference by the Bharata Itihas Samshodhaki Mandala, Poona, and designated by then as Salshi Daftar I find the following document in which the term GABIT is used no less than three times:

- No. 27 This is a sule-deed dated Sationham Saha 1555, Caitre
  Sul Praipladd Brassphord: corresponding to Thursday,
  28th February 1633. It contains at the top a square seal
  in Persian as also three lines in Persian covering a pace
  6 in \* I ji n. There is also a circular seal in the righthand margin, in Persian characters. The document totains the names of about 15 witnesses. The parties to
  the document together with the witnesses had assembled
  at Dabbole\* (Dabbole grime) where this duly attention of the document was drawn up. In this document the following users of the word GABIT are recorded:—
  - (1) line 3 from the top-"Mokam GABÎT MUMRÎ tape Sâlsî."
  - (2) Name of a witness in the margin followed by his designation "mokādam GĀRĪT MIMRĪ."
  - (3) name of witness No. 9 at the bottom recorded as follows:— "Märte räut bin Sekhu raut GÄBÎT MIIMRÎ.—
- 1. The Marathi lexicons must record Chronological usages of the term GABİT in the manner of Hobson-job son hefore an attempt is made by them to connect it with the word GRAB and its phonetical systations. Perhaps the Portuguese records may throw some light on the derivation of the word GABIT.
- My friend Prof. B. D. Varma has kindly given me the following translation of these lines though he cannot read the contents of the Seal as they are rather smeared with ink and hence illegible:—
- "In the Court of the noble religious law it was recorded that on 20th Zil-qua deb Shary year Salsa... wa...... Malik Mir Husain Miranchi the former Mokasa holder of the village of Dibbole, tapis memioned above, presented himself and said on outh and willingly and he acknowledged, as also the witnesses about the order given below in Hindawi lenguase."
- "Hindawi"— This term has been used in a grant dated s.o. 1299 made by Raja Bimba to Purushottampant Kavale ("Mutäbik 1221 Hindaus") Vide Appendix A in the History of Sakla Yaimrediyo Brokmins by N. V. Vaides, Bombay, 1884.
- This Dabbole is identical with village Dabbole shown in the Map (No. 47 H— Ratosgiri). It is about 2 miles from Jamesande and 4 miles from Devaged. About 4 miles from Dabbole we find on the map a village called Mithumsbri.

The word GABIT in all the three usages given above is always coupled with the word MUMRI, the exact meaning of which will have to be determined. Curiously enough the expression GABIT MUMRI current in a.D. 1723 also as will be seen from the following letter of Kanboij Angria, which uses the word GABIT coupled with the word MUMRI only once where it signifies the name of a place GABIT MUMRI in the vicinity of the village JAMSADE? (near Devagad). At three other places in the same letter

 This Gibit Meant near jamasde ("বাদ্ধির মুদেই বাহন্দই") spects on be consected with Mijhamambri ( गीट सुन्दे ) shown on the Map at a distance of about e miles from jamasde. In a document ( মাইলফ) slowly lect to me by Mr. Y. N. Krifar and dated a. p. 1780 (বাহানিশ্ব বাব ব একছে) (room the Pauba are find the followine villages in order — মাননই, সুকৰ্মশ্ব, মাইল্মেই (নুমান্ত্র, ইন্
retillages in order — মাননই, সুকৰ্মশ্ব, মাইল্মেই (নুমান্ত্র, ইন)

Roo Bahador Bumbardekar in a private communication dated 15th Jeanury 1389 writes to me that a firind of his, Mr. Kuble who belongs to Giblt caste was not aware that the term Gibbl is as old as 1633 A.D. It appears from the old documents in the present of the Charlest Communication of the Charlest Charleston of the C

I have no documentary evidence to prove the antiquity of the term "Mith Mumri" orier to A.p. 1780.

The Selahl Dafter contains more than 20 documents which are sele-deeds of preperties in favour of the ancestors of the Thakurs of Jamesde. The years of these documents and the names of the ancestors of the Thakurs mentioned in them are

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noted below :-
. .
1633- Ram Thakur
                                         1660- Sale-deed by Rogbhat bin Gopel-
1640- Vitthal Thakur and Ram Thakur
                                               bhat Ranadiya (Ranade) in favour
1645- Vitthel Thekur
                                               of Isn Thekur bin Rem Thekur-
1649- Jan Thakur
                                               property of Natavan Theirar
1650- tenohe Thakur
                                               mentioned
1651- Jan Thakur
                                         1660- Isn Thakur
                                         1668 - Vitthal Thakur bin Jan Thakur
1654- ... Do...
1657- Do... Saudžeat
                                         1669- Vithal Thakur
1656_ Do Do
                                         1659- Jan Thakur
1656- Isn Thekur and Ram Thekur
                                         1659_
                                                 Da
                                        1670
1676
1679
1657- Apt Thakur and Ian Thakur
                                               Vital Theku
1659- Narayan Thakur Mahidam
1659- Jan Thakur, Narayan Thakur
                                         1685- Vithobs Thakur
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There is also in this Dafter a letter of Kanoji Raje Frabhāreilātes (addressed to Nario Theise) with his seal and merich. The writer of this paper is a direct descendent of Naro Rayji Thatur who led the Maddiged appelition of 1176 Jan., against Taliji Angria (Vide Bomkay University Journal Vol. V, Part IV, pp. 31 a54). The direct willage of Naro Rayji was Hadejoi about 15 miles from Jannade. The Thekurs of Januade and the Thakura of Hadgid are identical as they have the same gaze of Januade such the Saketer (Kathāga Ernhalina), same Sargane (Thakur) and same

the term GABIT caste occurs. As Kanhoji Angria's letter uses the word in two different contexts thereby distinguishing the meanings of the expression GABIT MUMRI and the term GABIT in one and the same letter I am reproducing it below from a copy 'available to me:—

" बनवेष्ट राज्यमंद्रेशया विधानतियं राज्याने वाज्योजी जांगरे सार्थ्य तो। सीच वां। नाक्यम्ब राज्ये चा मार्थालपुमये जामरावे पुस्त ल स्वास्त सार्यात अया व महारू, विश्वं बम्पण्य वेशीते पुत्रा वेजन को केश वो करीन सार्थिय कैशायहन जाते रेपूर्णाच्या धारारियाने मानते व होति होनी वाज्य वसारिय केशी बार् होती स्पूर्णाच्या धारारियाने मानते व होति होनी वाज्य वसारिय केशी बार् होता स्पूर्णाच्या कियानियाने काला काला काला काला काला काला केशी काला वाद्य व्यातिक सी वारण बावण्याहून गांवीत चीनगांक्यम वेजन वेहूंन स्थानेन मार्थ केशा वायावस्य प्रकार हे सम्प्रेयण बार्य केशा मार्थ काला केशा मार्थीय वाज्यति प्रकार करता असारी होनार गार्थी, रीज्यामा महत्र बायून होती चालती होने से करते, बायरे मार्थ करते करते.

In the above letter Kanboji Angria Surkhel assures an applicant freedom from molestation to men of the CABIT casts whom the applicant intends to bring from Malvan with a view to man his two boats plying at see under the protection of the fort of Janjira Devadurga. The applicant wanted to bring about 4/5 men of the GABIT casts who were evidently experts in manning the boats. Apparently

family acty (Mahilish ml.). The said deads mattimed above analist us to reconsequent the geneslogy of the Junach Taksiers for three generations (from a. D. 1812 to 1835) vis. Run Taksier Jen or Jundo Taksier Vithat or Vithete Taksier. As Jan Thakor it celled. "Smalley" is appear he was merchant currying on trade in concounts and allied products as all the proporties purchased by the Taksiers are concount garden. Narsam Taksier modelmen general to be being as on some lines expected from the line of Run Taksier, his oon and grandom very early 1.e. before a.D. 1890. Navo Raysji Taksier possibly belonged to this line.

Kanbij Angria as the Head of the Maratha navy exercised strict control over maritime shipping encouraging at the amen time all legitimate efforts of seafarers. In the case of the present applicant he promises remission of the tax on his boat for one year by way of stimulus to his occupation. The expression "Hall Vasti (WI) GABIT MURRI, Jamsade." may mean "now stationed at GABIT MURRI in the vicinity of Jamsade." This expression clarifies to a certain extent the meaning of the expression GABIT MUMRI used three times in the sale-deed of A.D. 1633. I am inclined to hold the view that the men of the Gabit caste resided in groups at different places on the coast. The places of their residence may have been termed "GABIT MUMRI" though the exact meaning of the word MUMRI I cannot make out at present.

The evidence recorded in the present paper from unpublished sources clearly proves the existence of the word GABIT prior to An 1633 and 1 await more light on the problem of the antiquity and definite origin of this term 1 from interested men of this caste as also from philologists and historians.

<sup>1.</sup> Among Mahi Kantha State (See Bow. Car. V, 427) we find a state of the name Gabat. The Garcticer takes that the Chief of the State is a Makevez Kell. The The Garcticer takes that the Chief of the State is a Makevez Kell. The Three stee Hinde Corevetts from Makesan tribe of Begiots or Gar. Rp. sli., p. 115, 176; vol. 17, p. 115, An account of Mahi Kantha Makwans Marken St. Begiots or Gar. And the State mensure of the State m

Since this paper was written Kao Bahndur Bambardekar has drawn my attention to the heroic role played by a person of the Gabbit Caste by name Gappi Tagoli in saving the life of the Maratha Kinr Shiwaji the Great. The incident occurred at Binde, a willige now included within the jurisdiction of the Savantwadi State and an account of it is swen in the Chiragapta Bakhar (pp. 123-124) published by Mr. Sine in the Katystikhot-Santersha.

Rây nikhor-Smirraka.

Gaspil Todal in Gasha Tart originally biotogul as the village Bande. His

Gaspil Todal in Gasha Tart originally biotogul to the village Bande. His

Gaspil Todal in Gasha I in the Gasha Gas

# 5. THE ANTIQUITY OF THE CASTE-NAME SENAVI\*

The Bombay Gazetteer describes the 'Senguis' as a caste of Brahmins in Guiarat, also called Sarasvats, said to have been shipwrecked strangers purified with fire by Parashurama." It further states that the term 'Senart' is a "name of doubtful meaning" (Vol. XVIII, pt. i. pp. 175-180) and that the Sengois also call themselves Saraspats and Gauda Brahmins. The Gazetteer also states that the origin of the name Sengol is disputed. According to one account it is "Shahdaan" or ninety-six from the number of the families of the original settlers. A second account derives the name from Send, an army, because many Senauls were warriors. A third account derives it from "Shahanbhog" which we are told is the Canarese term for village accountant. Of these three accounts the last seems to find favour with the well-informed. The Separts had great influence at Scindia's court about 1797 A.D.4 The Gazetteer further states that the Districtof Senavis coincides with the Konkan.5 One of the special traits of the Senavis recorded by the Gazetteer is that they "eat fish and mutton" even though Brahmins. In the Marathachronicle called the Sabhasad Bakhar

Journal of the University of Bomboy, Vol. V, pt. 6, pp. 152-155.

Benhof Gantine Vol. IX, pt. i. pp. 416, 418. Further information about Shapeon in the different district on the Bombay Presidency will be found in the following references:—Benegoti Dis. X, 116; Peculiarities in the district of Sharani, X, 118, not 6; S. economal/State X, 411; Kalebo Dis. XX, 116, 54; Penne Dist. XIII, 85; Nash Dis. XVI, 41; Abandanger Dis. XVII, 53, 64; Penne Dist. XVIII, 57, 117-160; Sattory-Dist. XIX, 54; Salespor Dist. XX, 34-60; Belgeam Dist. XXI, 90-92; Kalhapus State, XXIV, 61; Dharwar Dist. XXIII, 98; Sijaper Dist. XXIII, 99; Kasere Dist. XVI, 81; Dharwar Dist. XXIII, 98; Sijaper Dist. XXIII,

<sup>2.</sup> Bombay Ganettem, Vol. XVIII, pt. i, p. 175-foot note 1.

<sup>3.</sup> The Prikra form for Sendpair is Sendoai (Guijug) see Pródyta Groman by Pischel § 72 (line?). This form has been used in the Micchelegish (101, 21). I am indebted to Dr. V. S. Sudrhelas for this reference. Sir R. G. Bhanderlar in his Wilese Philalogical Letters (R. G. B. Works Vol. IV, p. 419) has the following serve reporting Sensor!—

<sup>&</sup>quot;M. = Maraihi श्रेष्वई or य name of a Caste, Pr. (Prakita) सेणावई Skr. (Bandrit) केमायति".

One बाढाओ हेल्यों was Sidi's Sardar who was killed in A.p. 1736 in the battle of Charbai (see Pakes Dates Salettion, No. 3 letter No. 192 dated 2nd May 1736).

<sup>4.</sup> Ibid, Vol. XVIII, pt. ii, 276,

<sup>5.</sup> Ibid, Vol. I, pt. ii, p. 10 (Introduction to the History of Konkan).

See Šina Caritrapradīja (pub. by Bharsta Rihass Sans. Mandal, Poons, 1915)
 ad. by D. V. Apte and M. S. Divekar, p. 71. The date of composition of the Sabhāsad
 Bakhār is Saka 1619 (= 1977 a.p.) see extract from this Bakhar on p. 128 of Shiniji

composed in A.D. 1697, Pitamber Spapet, the administrator of the hen chief of the Savantwell state is styled as "THERRITY MERN."
This reference proves that the fish-eating habit was common with the Segards in Shivaji's time and that the name "Segard" was also the current. This reference, therefore, pushes back the antiquity of the name Segard to about A.D. 1600.\* The question may now be asked regarding the exact antiquity of the usage of the name Segard and its variations. This question is difficult to answer successfully for want of records prior to Shivaji's time. I intend to record in this note the references I have been able to collect about the actual usage of the name Segard and its phonetical variations.

Mr. Bhave' in his History of Marathi Literature called the "Maddaffir Saferaneti" mentions certain work called 'Maratha' or 'systems of account' as explained by him in the same context. He calls it 'likhana-padahati' also. Hemšdri, the author of the Cautrarga Chimana; was reputed to be the father of this padahati. Subsequent writers modelled their mersakar on Hemšdri's work. One Govind Kavi composed a work called 'dwardq 'qax' and Mr. Bhave states that the contents of this work are identical with the mersakar actribed to Hemādri. We are concerned in this reference with the term "dwardf" which is a phonetic variation of the term "dwardf" which is a phonetic variation of the term "dwardf" which is a phonetic variation of the term "dwardf" which is a chancelled "dwardf" probably because the Separis had something to do with accounting as indicated by the name things the work of the wor

bagtsphical societa given on p. 184 of this book the following information about Planker Spreat in recorded:—He was the Kothkier of the Savant of Kuddi deptude to agents with Shireji in A.D. 1559. In 1570 A.D., Shireji captured Kolsvap and demanded the right of 'Custhii' from the Portuguess of Gos. In this connection Shireji had appointed Plathner Sensyi but Pitimbar died in 1678 A.D., before his ministon was completed."

See document No. 41 (Sources of the History of Gomantak published in Irihāta Sanigrāka by Parasnia) dated Saka 1616 = A.D. 1694. The following Senavis are mentioned in this document: —

हुम्म सेनवी, नाव सेनवी, मान सेनवी, (६८ सेनवी, शाहुम्म सेमवी, कोन सेनवी, कहा सेनवी, बात सेनवी, मान सेनवी, Documen No. 12 mbich is dated Sale 1617=1.0. 1805 contains the following name: अशिस सेनवी सार, देश में समाची, हुईद सेमवी होत्ते हैं, स्मान सेमवी, सुस्टामबर, दो! सेमवी सुस्टामबर, राम सेनवी मिला, रामाजी सेमबी जातके कार्य क्रिकार.

<sup>3.</sup> Mahārājira Sārasvata. Poonu, 1919, pp. 33-34.

<sup>4.</sup> S. S. Telmski in his "Saramat Families," Part I, Bombay, 1935, makes the following remarks about the efficiency of these shankhages:-

<sup>&</sup>quot;If an Independent testimony of the quality of work done by these Shanshoger was required, we may quote here the work of Major Munro who carried on the work of Survey Settlement in Kunner. Writing in 1800 about the accounts kept by these Shanshoger he says that they were in such a state of perfection and preservation as to furnish a complete abstract of land-rest during a period of more than 400 versr."

after Hemādri's mestakas it must have been composed some time ufter A.D. 1270 about which time Hemādri wrote his Caturvarga Cintāmaņi.

The meanings of the term 'Senavi' not recorded by the Bombay Gasetteer are supplemented by Rao Bahadur S. S. Talmaki in his excellent monograph on the Saraswat Families. These are :- (1) The name Sengol is derived from the word Sreni in Northern India: (2) Its origin is also ascribed to Sarman or Sarman Arva; (3) It is derived from Sahāna' which in the Konkani has the form 'Shano' and means learned, and from which arose the forms 'Shane' (plural of Shane) Shanei Shenai and Shenni Mr. Talmaki states further that the term 'Shengi' is used as an affix to names as a mark of respectability e.g., Shama Shenai, Vinayak Shenai, Vithoba Shenai and so on. According, to him Shanbhor in Kanarese has the same meaning as Shengi in Konkani and it may therefore be presumed that the former was derived from the latter. "The province of Goa had been under Kanarese rulers for about 1200 years and the word 'Shanavai' assumed that shape during their regime and may have been carried thence to other regions governed by them outside Goa."

It is not the purpose of this note to hold a brief for any of the forms of the term 'Segari' recorded above but to record data which might prove useful for the solution of the problem.

It appears from the inscriptional evidence recorded below that the term 'daw' was current in the 13th century in Mahirāṣra. Mr. K. A. Padhye of Bombay has reproduced at the end of his Life of Pandharpur which bears dates Saka 1195 to 1198, i.e. A.D. 1273-76. This inscription records numerous names of donors who donated some money for the construction of a part of the temple buildings. Among the names of these donors the following names are found:

Page 36—" मां बोलियाबा सेनवे "
Page 38—" सालियं यादो सेनवे एं "
Page 40—" बॉबडे ग 1 मजरस्त सेनवे "

Page 42—" बामरसा सेजवे जादेएं "

Page 46-" लाब इरिवेचें "

In the first four entries recorded above the affix 'केणी' has been added to the personal name and this use is analogous to that pointed out by Mr. Talmaki as in the names 'Shama Shenai', 'Vinayak Shenai' etc. where the term 'Shenai' is used as a mark of respectability. It seems probable that in the 13th century the term 'and may have

<sup>1.</sup> P. V. Kane: History of Dharmalastra Vol. I. p. 354.

<sup>2.</sup> Sărawat Familier, Part I. Bombay, 1935, pp. 19-20.

<sup>3.</sup> Hemādri Caritra by K. A. Padhye (in Marathi) Bombay 1931.

been used as a caste-name than as a mark of respectability. It appears to me that it may have been used exactly in the same sense in which the term draft is used at present as a caste-name. The fifth entry from the inscription quoted above, contains the surname "eve" which is now current amone the Scanous:

In view of the inscriptional evidence recorded above the antiquity of the term that has been amply proved and though its exact genesis is yet a matter for investigation we may expect even earlier usages' of this term with or without variations of form in inscriptions or elsewhere.

<sup>1.</sup> One such extiler unge is upplied to me by Res Bhabdur Wanadew Annet Benhardsken Bendra in a private communication dated 211-1397. In the Keigle Copporplate great of Saks 1113 (m.n. 113) we find the endorsement "Bendra Research (Regidt | 1746 A Proceedings of the Bharsta Union Mondal for Saks 1835 (m.n. 1913), p. 239). Res Bahadur Benhardakur thinks that the term "Regidt" in the above

## 6. THE TESTIMONIALS OF GOOD CONDUCT TO WARREN HASTINGS

BY THE BENARES PANDITS-A.D. 1796.

In the Testimonials of the British and Native Inhabitants of India relative to the character and conduct of Warren Hastings published in 1797 A.D. we find some very interesting testimonials from the Inhabitants of Benares. In the history of mankind occasions, when a Vicerov needs a testimonial from his humble subjects, are few and far between, Rarer still are the occasions when such testimonials find place in official archives or private publications. The writer of the Preface of the big volume containing the testimonials referred to above hopes "that when the deatined hour of his (of Warren Hastings) corporeal extinction arrives he shall not wholly die : but still in the hearts of many, and his name be transmitted with respect to generations yet unborn, through the protecting care of those, who stood forth to do it honour while its possessor was living." Verily the generations that were born since 1796 have come up to the expectations expressed in the foregoing remarks in the matter of keeping alive the memory of Warren Hastings and his celebrated trial.

Addresses of congratulation were sent by the principal inhabitant of the city of Benares to Mr. Hastinga through the Government of Bengal with a letter from their Secretary dated 19th December 1795Of these addresses one was in Persian and the other two were Sanshrit. Mr. Wilkins 1 rendered the Sanshrit addresses into English and these English translations have been published on pages 755-768 of the Debtets of the House of Lord (1797). London 1 referred to above.

The first of these two Sanskrit addresses ends with the following endorsement:—

"This writing is dated the 7th of the light fortnight of the moon of Phalgoona, in the year 1852 of the Samyat." 3

The address contains the seals and signatures of the following persons:-

 Kasi-natha, Professor of general knowledge. (Seal) ornament of logic and among Panditas called the chief of Science.

<sup>.</sup> Journal of the Tenjore S. M. Library, Vol. II, No. 1 pp. 10-14.

D-bases of the Hour of Lards on the Evidence delivered in the trial of Watten Hastins. Equiric; Proceedings of the East Indis Company in consequence of an sequintal: and Textinonials of the British and Native Inhabitants of India, Relative to his characte; and omedict while he was Governor General of Fort William, in Bergal, London, MDCC, XCVIII, pp. 326.

<sup>2.</sup> Vide p. 745 of Debater etc. where Mr. Wilkins is called "very learned and feemious friend" of Mr. Hastions.

<sup>3. =</sup> A.D. 1796.

- (2) Rama-chandra Sarma surpamed Tara. (3) Vidva-nanda Sarma surnamed Bhatta. (4) Ganga rama Sarma. (5) Seena trasada Serma. (6) Anooba-narayana Deva Sarma. (7) Salagrama Treepathee. (8) Reeshee-raja Meesra. (9) Deeksheeta Haree-rama Sarma. (10) Sooka-deva, Astronomer (11) Manoo-jee Josee (12) Deeksheeta Doorlabha-iee (13) Rama-prasada Sarma. (14) Lakshmee-patee, Astronomer (15) Kasee natha. Treenatthee (16) Krishnanand Sarma (17) Soodha-kara Sarma surnamed Tara (13) Dhana-patee Sarma (19) Mano-ratha Sarma (20) Kevala-rama Sarma (21) Soodha-kara Sarma, Surnamed Tara (22) Kevala-rama Meesra (23) Deeksheeta Tata Sankara, Professor of the Rik, veda (24) Sookla-markandayeswara, Professor of the Sama-yeda (25) Krishna-deeksheeta Deva Sarma (26) Haree-deva Sarma
  - (27) Doorga-charna Sarma (28) Heera-manee Surnamed Sesha
  - (30) Gowree-prasada Sarma
  - (31) (32) four names in the Malabar character not known
  - (33) \$
  - (35) Jayarama Bhattha, Professor of the Yajurveda
  - (36) Mownee-raja, Professor of the Atharvaveda
  - (37) Bbyrava-chandra Sarma (38) Ramananda Sarma (39) Rameswara-bhattha Gahwara (40) Goveenda-bhattha
  - (41) Manee Sarma (42) Babanoo Sarma (43) Cheta Sarma

Almost all the signatories to the above-mentioned address in Sanskrit appear to be Brahmin Pandits of Benares. This number includes a professor of General Knowledge (No. 1), a professor of Rgweda (No. 24), a professor of Samaveda (No. 24), a professor of Tajurveda (No. 35), a professor of Atharraveda (No. 36) and an Astronomer (No. 10). What designations the other Pandits had we are unable to say. They were apparently some of the principal in-babitants of the Hindu Bathmin community of Benares.

The second address in Sanshri is "Dated, Friday the seventh of the light fortnight of the month of Visakha in the year 1853 of the Samvat." It begins as under:—"We, a number of your industrious Servants, Brabmans, and other Hindoos, Yavanas (Mussalmans) and other foreigners, whose constant residence is here on the delightful, beautiful, and for ever full-flowing stream; where, by conquering

<sup>1. =</sup> A.D. 1797.

aundry evils, we are become pure, and where we enjoy at ease abundant happiness flowing from the profits derived from our several exertions. humbly address you, the illustrious Navoh Amaduddowla, Governor Hastings Bahadur Jaladat Jang."

This address was originally intended for persons, Hindu and Mussalman, but no Mussalman signatures were attached to it as the Mussalmans had "subscribed a separate address for themselves." Some of the Hindu signatories have endorsed their signatures embodied in verses or prose passages, translations of which have been published in the volume under reference. We reproduce here a specimen passage in verse :-

(Page 767)-"May the good wishes, abundantly offered up by Sree Neevasa Pathak, the son of the astrologer Paramananda affect him.

By the pleasure of Veeswa Natha, may treasures of good wishes be the prize of victory to the ..... Hastings,

Sovereign of the land of truth ! "

The signatories of the above address are the following:-

- (1) Haree Bhadra Pandeeta (2) Veeswambhara Seeva Bhadra
- (3) Rama Bhadra Pandeeta
- (4) Rama-chandra, surnamed Kotakara
- (5) Dadam Bhattha Sarma, surnamed Bhatta
- (6) Sesha Haree Rama Panta
- (7) Neela Kanta Sarma, surnamed Rajeem Bhatta
- (8) Haree Rama Sarma
- (9) Poonya Stambha Mookoonda
- (10) Seeva Rama, called Dasa Pootra (11) Venee Agra Rama Dasa Pootra
- (12) Raja Rama Sarma Surnamed Jatthee
- (13) Vasoo deva Gooriaras (14) Mookoonda Deva
- (15) Lakahmana Pandeeta, Surnamed Dasa Pootra
- (16) Lakshmana Sarma, Surnamed Bandhava-kara (17) Jagannatha Sarma
- (18) Veeswa Roopa Nathoo Bhattha
- (19) Kripa Krishna Sarma Surnamed Yaineeka (20) Bacham Bhattha Sarma, Surnamed Mownee
- (21) Astrologer Java Rama (22) Nanha Surnamed Gooriara
- (23) Vaksha Yadava (24) Toondha Raja Deeksheeta
- (25) Bhairava Deeksheeta, Surnamed Palanerkara
- (26) Narayana Bhattha, Surnamed Powraneeka (27) Cheenta Manee, Surnamed Kaarlakar
- (28) Rama Krishna Nabata
- (29) Bhairava Bhattha, Surnamed Ghoola
- (30) Bala Krishna Deeksheeta, Surnamed Avacheeta
- (31) Sakharam Bhattha, Surnamed Laghatya

Rameswar

- (32) Seeva Rama Bhattha, Surnamed Katree
- (33) Ganga Rama Bhattha, Surnamed Monhee (34) Yaineswara (35) Rama Krishna Deeksheeta, Surnamed Teelaka
- (36) Jagannath (37) Sada Seeva Sarma, Surnamed Ambhonakara
- (38) Rama Chandra Pant Sarma
- (39) Raja Rama Surnamed Ardha Mana
- (40) Valam Bhattha, of the race of Bharadwaia
- (41) Veeswaroopa, Surnamed Dhoondee
- (42) Krishna Bhattha (43) Anta Rama Surnamed Patanardhan
- (44) Bala Mookoonda (45) Bhawnee Sankara Sarma Surnamed Thakoora
- (46) Treepatee Janakee Natha Sarma (47) Seeva Lal
- (48) Rama Krishna, Surnamed Ghoola (49) Loka Natha Deva
- (50) Jagannath Bhattha Marathee (51) Krishna Bhattha Lalla
- (52) Okabalaha Sarma (53) Sakha Rama, Surnamed Tara (54) Manee Rama, Surnamed Maha Janee, son of the astronomer
- (55) Cheentamanee Deeksheeta, Surnamed Karnataka (56) Doodhee Raia Bhattha, Surnamed Pharaka
- (57) Jagannath, Surnamed Ghoola
- (58) Bapoo Deeksheeta, Surnamed Drona
- (59) Rama Chandra Deva
- (60) Bhaskara Bhattha, Surnamed Laghata
- (61) Sree Neevasa Pathaka, the son of the astrologer Paramananda
- (63) Seeva Bhadra Pathaka (62) Maha Deva Detra (65) Adeetya Rama Pataka (64) Seeva Rama Ghose
- (66) Vyasa Vinavaka
- (67) Radha Charana of the court of justice established in the city of Varanasee (Benares).

"The remaining signatures, between ninety and a hundred containing nothing but mere names, are here omitted."

We have reproduced the names of the signatories to the two Sanskrit addresses to Warren Hastings without any changes in their spellings. These names are very important to the students of history, in general and of the history of the city of Benares in particular, if any such comes to be written in a thoroughly scientific manner re-

<sup>1.</sup> Dr. A. S. Altekar has stready attempted an outline of such a history, which I am sure he will enlarge in the years to come. (Vide Journal of the Benares Hindu University, Vol. I-pp. 47 to 76 deal with Pre-historic Period, pp. 57-75 deal with the period from C. 1000 to C. 1200 A.D., pp. 743 to 255 deal with the periodof Muslim Rule 1194 to 1707 A.D., pp. 256-270 deal with the Modern Period, 1767 to 1937 A.D. British rule was established in Renarcs in 1794. In 1796 the British decided to transfer the Nawab of Audh Nazir Ali, from Benares to Calcutta, On 14th January 1797 Mr. Cherry the British Resident was assessinated by Nazir Ali, whose insurrection was put down by the English and he was sent as a prisoner to Vellore.

cording every reference to Benares and its contribution to India, Calture and Raligion through centuries. From times immemorial Benares has been a meeting place of Pandits from all provinces of India and a glance at the summames recorded in the above lists of signatories will show that these signatories hailed from different parts of India. The families represented by some of them had possibly made Benares their permanent residence.

The addresses presented to Warren Hastings remind me of similar addresses presented to Kayindrācārya by contemporary Benares scholars during the reign of the Mughal Emperor Shah Jehan (A.D. 1628 to a.D. 1658). The nilcrim tax at Benares was abolished by Shah Jahan at the request of KayIndrācārya. 1 It was a day of rejoicing for the Hindus and congratulations poured in from all quarters. Titles of Kanindra Vidvanidhi and Acarva were conferred on this Sanvasin who was originally an inhabitant of the Mahārāstra but who became the head of the Pandits of Benares on account of his niety and learning A perusal of the Kanindra-Candrodaya will convince any one of the apontaneous feelings of admiration and gratitude which prompted the authors of the addresses presented to Kavindracarva but how far the addresses presented to Warren Hastings are a genuine expression of the feelings of their signatories I am unable to say as in such types of addresses the hand of the officialdom is often at work sometimes suppressing the likes and dislikes of the recole, whose voice they are supposed to represent.

<sup>1.</sup> Vide my poort on "Bernier and Kavindracarya Saraavasi at the Mushal Com!" of Assaid (S. V. O'l. Institute, Trupts) Vol. 1 pt. 4 pp. 1 to 16. Institute from the Object of the White Chief of Berster Funditer' (mentioned by Bernier in his Troccid) with Kavindracarya Saraavasi, to whom addresses were presented by the Bernier in his Troccid with Kavindracarya Saraavasi, to whom addresses were presented in the Kavindracass declays of click by H. D. Saatras M. M., Patter Foron, 1979, in this above paper 1 have recorded the ansates of signatures to the addresses given to Warren Hastings which contain meap December (2) against the Article of the Chief Chief (1) and (2) against the Article of the Chief (2) against (3) against (4) away, (15) again, (4) away, (15) again, (4) away, (15) again, (4) away, (15) again, (4) against (4)

## GLIMPSES INTO THE ECONOMIC, INDUSTRIAL AND SOCIAL LIFE OF BENGAL AS GIVEN BY A MAHARASTRA BRAHMIN OF THE SEVENTEENTH CENTURY\*

In 1938 my friend Prof. N. B. Roy published his article on 'Glimpses into the History of Bengal'-(the fourteenth and early fifteenth century) in the Sardesai Commemoration Volume (pp. 153-160). In this article Prof. Roy observes: 'The medicval history of Bengal is shrouded in utter obscurity'. He then records the remarks of Ibn Batuta, the African traveller, about Bencal. Batuta mentions the flourishing agriculture of Bengal and the cheap prices of the necessaries of life, not to say the abundance of rice for which Bengal was then famous as it is today. 'The smiling villages and gardens of Bengal'. enchanted the traveller, who incorporated into his account a list of the current cheap prices of the necessaries of life which include fowls. milch cow, pigeons, ram, piece of cotton of finest quality measuring 30 cubits, a beautiful girl (for one gold dinara), rice, naddy, syrun sugar, sesame oil, ghee, etc. This plenty and prosperity of Bengal was, however, counterbalanced by the severity of its climate so that men of Khorasan called Bengal 'a hell crammed with blessings' (dozak pur nigimut).1

From Batuta's account of Bengal of c. n. 1330 we are led by Prof. Roy to the account of a Chinese, Mahaun', an interpreter attached to a Chinese embassy that visited Bengal about 1406 c. n. Mahaun bringse to light for the first time the dress, manufactures, chief products and anusements of the Bengali people. I note below some items from Mahaun's account:—

- Bengal, an extensive country, with abundant products and population.
- (2) Flourishing trade, commercial intercourse with foreign nations.

Indian Culture, XII, pp. 47-56.

<sup>1.</sup> Cl. Indian Companion (by C. H. Khanddar, Foona. 1894), pp. 66-58-Bengel Printinger, "Minnels: coal, time, alth, "Products", Leurusine cel vegetation in Bengal is 65 unpassed, perhaps in any part of the world,"—may be called "one encommon griden.—"cise, where their grains, popies, indian, no., 36s, control, supersants, coupersants, coup

<sup>2,</sup> Sardesai Comm. Vol. pp. 159-160,

- (3) Paople were Muhammadans with dark skin—some light complexioned persons were also seen.
- (4) Costume—Shaved heads and white turbans, long loose robe with a broad coloured handkerchief round waist.
- (5) Manufactures.—Fine cotton fabrics of many varieties,—six varieties described—silk industry—handkerchiefs, caps embroidered with gold, painted ware, basins, cups, steel, guos, knives and scissors, paper-manufacture from the bark of a
- (6) Corn and fruits.—Abundance of rice, wheat, sesamum, all kinds of pulse, millet, ginger, mustard, onions, hemp, quash, brinials, and many kinds of vecetables.
  - Pruits.—Plantains, jack fruits, mangoes, pomegranates, sugarcane, white sugar, granulated sugar, various candied and preserved fruits. Betel nut was offered to the guests.
- (7) Amusements.—Feasts and entertainments, music and dance—conjurers—display of man fighting with tiger given in the streets.
- (8) Character.—People were open and straightforward in their dealines.

Let us now see how this affluence of Bengal continued to enchant not only foreigners but even people from other provinces of India, In this connection I record below a very detailed picture of Bengal incidentally recorded in a Sanskrit grammatical work composed between A.D. 1690 and 1710 or so. This work is called the Giroanabadamailiari' by Dhundiraia, son of Śrirangabhatta. This author appears to have been a Maharastra Brahmin of Madhya sect. He composed this work at Benares. The work is a Sanskrit conversational grammar in which the subject of conversation is the daily life of a Benares Brahmin from morn till eve. This Brahmin invites a Sannvasin for dinner. The guest is assured that his host is a Mahārāştra Brahmin by caste (inditi). He is further informed that the host was born in Gaudadeia, i.e. Bengal. His father also was born in Bengal. The education of both the father and son took place in Bengal. After a sumptuous dinner the Sannyasin inquired why his host stayed in Bengal for long. The host replied that his stay in Bengal was with a view to study Tarka (logic) in which his father was proficient. His own study. however, was not as deep as his father's. Nevertheless he had studied

There are three MSS, of this work in the Govt. MSS. Library, at the B. O. R. Institute, Pown. This work refers to the Siege of Giages (A.D. 1993-1988) Health and the son of Assalbhin as an event of fresh occurrence (vide my paper on Assalbhin as an event of fresh occurrence (vide my paper on Assalbhin Commandial Ward. etc., contributed to the Modras Session of the Indian History Congress, 1941). According to my evidence Dlougistist, the suther of the work, Sourhish observed. AD, 1959 and 1710 or no.

Paficatrakaranas, Cintamani, Siromani, Mathuranathi, and other works. The quest observed that the Brahmins of Bengal were Vedahahya (excluded from the study of the Vedas). The host replied that the statement was correct as these Brahmins are guided in their conduct by the authority of the Smrti. The guest questioned if it was a fact that the Brahmins in Bengal were fish-eaters. The host confirmed the statement and observed that it was a duracara or evil custom. Then followed a long discussion on the evil customs of different provinces like the Deccan, Andhra, Karnātaka, Dravida, Kerala, Konkana, Guriara, North India, Gauda deśa, Kānvakubia, Utkala, Parvata, Maithila, Magadha, Candravati, and Kashmir, About the Kashmir Brahmins the host observed that they were practically Yavanas and that there was no limit to their duracaras ("काइमीरदेशीया द्विजा: के इल यवनप्राया: सल तेवा दुराचाराणां गणना नैवारित।"). According to him only the Maharastra Brahmins were free from duracaras and even among them those belonging to Madhua sect were completely free from evil customs. The guest then inquired about the number of tirthas or holy places in Beneal. The host mentioned the following tirthas :-

(1) Gangāsāgaratīrtha; (2) Kumārikā Kītīra with Kumārikā goddess, (3) Brahmaputra, (4) Kāmarūpēivara with Kāmākji goddess and many other holy places and temples.

The Sannyāsin inquired if any other special things are produced in Bengal. The host replied as follows:—

Folios 13-18 of MS, No. 21 of 1919-1924 :-

''प्रमुद्दर्जाणि बहुमीरशानि तत्र सर्वति । श्रीरोड्स्संज्ञानि दुक्लानि समीचीना बायते । कन्यानिप रेहमसंभवानि समीचीनानि बहुविचित्राणि सर्वति । स्वामिनः रेहमोश्यचिः श्रीध-न्योक्तरीय जायते । अन्यति तलजानि वस्त्राणि अति सहमाणि सर्वति ।'

क्षप्त सर्वानि भाग्यानि तत्र अर्वनि । श्रीक्ष्मी अर्वनि । श्रीक्ष्माः अर्वनि पद्माः अन्य क्षमाः मर्वन श्रावण्यो [ह्वातीनि अर्वनि । श्रावः [ह्वातीयाः अर्वनि । हृहः। मसूराः। राक्षमामाः बृद्धियाः। वेदाः तिक्षाः। हृहःतीचाः। अस्यः। अर्वनि । विविद्याः पूर्वन्ति। स्वित्याः पूर्वन्ति। स्व वीवाराः हमानावाः अर्वन्दः। कार्यनः श्रिविशाः भर्वनि । सुपुषः व्यतिसार्वानी आपते। सः

> पूथुकाः किरतन्त्ह्यीतस्त्रस्मीक्रकमञ्जैरपनीतः । ययसाः शर्करयाः समयेतः क्षेति कस्य जनस्य न चेतः ।

<sup>1.</sup> Jinoprathaudri refers to "ব্ৰাধান্ত্ৰীৰ্থ" in hi, বিবিধনীৰ্থকৰে (p. 92 of. বি নী. বৃষ্ণ ed. by Jinavijaya, 1934). Jinaprabha was a contemporary of Batuta, the African Itaveller.

Vide Hobson Johnn (1903), p. 85-article on Bengal-A.D. 1498-'Rengala:in this kingdom are many Moors, and few Christians and the King is a Moor......... in
this land are many cotton cloth, and silk cloths and much silver; it is 40 days with fair
wind from Calicut'-(Roteiro de V. de Gama. 2nd ed., p. 110).

<sup>3.</sup> Vide Hobson-Johnon, p. 863 (sugar)—'In the reign of Taitsung (627-650) a man was sent to Gangetic India to learn the art of sugar-making'.

क्वारकः कियरकस्त्रवेष भवति । शर्करा अति स्रोभना जायंते । सितापि सवति। गुको सवति । इन्बं समीचीनं बायते । दथि सवति । क्षीत्रो भवति । प्रतं अतिसमीचीनं वर्तते । त्रैकान्ति बहुविचानि सर्वति । तिस्तैसं । सर्वपतैसं । अतसीतैसं । पेरंबतैसं । कुसंबर्धसं बापरे । बाबादिशादि सरांक्रीकार्ति मर्वति । गानाविशानि सरांश सर्वाण सर्वति । वहविशाः ज्ञासाः मर्वति । बह्रविधा ब्रह्माः संति । बाज्यस्थाः पनसब्धाः वर्तते । नारकेश्वतस्यः । इसकाः। वक्रविचाः कक्रडीतरवद्य संति । वदरीवसाः । जेवक्रडतरवः । वादिमीवश्राः । क्रवंववसाः। बक्कमकाः सन्ति । पारिवाततस्यः । चंपकत्रकाः त्रितिचाः संति । बहविचा निवतस्यः संति । विकार स्वारं स्वारं नामरं गण्डमा वर्तते । शीतायस्य गासिनः । इति ध्वसाः । देवदीगस्याः संवि । समीवसाः । भार्तावसाः । विविश्वीतस्यः । कृतेवगुरुमाः वर्तते । अपलक्षागुरुमाः विदेति । देवदास्तरवः संति । चंदनदक्षाः । रक्तचंदनतरवः । ब्रास्कावस्तरचः । स्व्यागस्तरवः । स्वयाग्रस् वकाः संति । अवस्यवृक्षाः । जीदंवरवृक्षाः वर्तते । शास्त्रकीतस्यः । कंचनवृक्षाः संति । विश्व-बकाः वृति । मधुद्रवद्याः । स्रोहेस्साः । दर्मग्रह्यः । तमावत्रवः । तालवधाः । वालवद्याः । बाबप्रक्रमणाः। सरस्रवदः। पंत्रागवधाः। सर्जनवद्याः संति। बदरीवधाः। विकिता केदरबक्षा विश्वते । वदस्रदिरवद्दश्यकाः प्रशासरदः । विभीतस्वक्षाः । महातस्वक्षाः। मजैतरवः । अमयावश्चाः संति । कीचकाः विद्यंते । चेतसाः संति । करंजवश्चाः । गुरग्रहवृद्धाः । वर्णसम्बद्धस्थ्रकंदाः संति । बारवृक्षाः । अगस्तिवृक्षाः । प्रक्षतरवः । बचनागतरवः ।

बनस्यतयः बहुविधाः संति। वयामार्गगुस्माः। शावश्यारं जायते। स्ंगरावनृष्कं। हृत्योगुस्माः सर्वति। वर्षवपूर्णस्मा द्विपयानि सर्वति। सुदुईस्। तुल्ली वर्षती। साही। सुती। दुर्णे द्विषयानि सर्वति। अपराधितास्ति। दुवनेदा वर्तते। विजया गुस्माः। स्वंती। साध्यानि स्थिते।

चय स्त्राधियेयः । याण्यीकता । मारकी । व्याप्तप्यक्ती । मारीयकताः । पिण्यीकताः । पुण्यो मारमकता । देवाका । नागावी । वेदेविका पुत्रमाः । वादेविका । केदुण्यानी । स्वत्यपुत्रमाति । केदुण्याणी । अस्तिपुत्रमाति । महिक्यपुर्वाति । महिक्यपुर्वाति । वेदिका पुर्वमाति । पंप्रयुक्तानि । त्रिप्तपुत्रमाति । मार्गिकुम्बानि । तुक्तीपुत्रमाः सर्वति । दसनपुत्रमाः सरक् पुत्रमाः मदीति । त्रुवाने वर्षति । सम्प्राप्तिका मदीति । कुमा विदेवे । समार विदेवे । विद्यानि । विद्यानि । विद्यानिकान्यमति । स्वोप्तिकाः चन्नविविधीय वद्यविकारिः

पूर्वसमुद्रोस्ति । आगीरपी वर्तते । अन्यति बहुविधानि सर्वासे विश्वते । युक्तिया संति । ताबु बहुवानि सरोवराति मर्वात । सत्यवानि स्ति । इंतरहानि मर्वति अन्यति मुक्ति बहुविधानि अर्थते । तम् बहुविधा रहित्तात्वाः संति । वीरावनिष्यः संति । इंतरः विश्वते क्षेत्रः विश्वते । स्वयत्ताः तिर्धते । विश्वतः विश्वते । स्वयत्तः संति । व्यवस्थाः संति । संवत्ताः संति । हुवाः विश्वते । सार्वतः विश्वते । स्वते । स्वत्ताः संति । स्ववस्थाः संति । स्वयत्त्वः स्ति । स्वयत्त्वः संति । स्वयत्तः संति । स्वयः संति । स्वयत्तः संति । स्वयत्तः संति । स्वयत्तः संति । स्वयत्त्वः संति । स्वयत्तः संति । स्वयः संति । स्वयत्तः संति । स्वयत्वः संति । स्वयत्तः संति । स्वयत्वः संति । स्वयत्वः संति । स्वयत्तः संति । स्वयत्वः संति । स्वयतः संति । स्वयत्वः

तथा बहुषिचानि श्वाएस्ति विशेते। स्वाप्ताः संति। वनसहिपाः संति। युकाः अंबुकाः गोजान्यः। सन्नयुना बरेते। युनाः संति। वर्णयवः संति। मददुकाः संति। वर्णयाः संति। सामः संति। सनिजनं संति। ाँ प्रेचेर घारप्रप्रायः। गायः संति। सहप्यः संति। सत्राः संति। एकाः संति। सेवाः संति। र्यद्वाः संति। स्थाः संति। केवराणि संति। रासमाः संति। स्वानाः स्वीः प्रमुख्यः संति। नकुषाः संति। स्वाः विश्वते। मेकाः संति। प्रपृष्ट्यपैक्काः। स्वतः। स्वानाः स्वीक्षः प्रस्यः संति। कृष्टिकः। स्वेते। सर्वकः। संति। मचकाः संति। स्वान्यः स

्रिमंत्र अळजेतेवः। बहुविधा सरस्याः संति। शक्यः संति। ह्याः विश्वते। क्याः प्रमेत्रे , क्यां स्वितः अरुविश्वतः संति। अरुवर्वतः विश्वते। अरुवाः संति। अरु-स्वकृत् संवि । अरुसपुर्वाः संति। पृथ्यो बहु अरुसंत्वस्त्वाति।

हुंगान क्षित्र निवास कर सित । भीचारिया बहुइसका विषये। देवरंकाः बहुवः सीत। स्विक्तां स्वर्धः सीत। भीचारिया बहुइसका विषये। देवरंकाः बहुवः सीत। स्विक्तां सीते। स्वर्धाः सीते। साम्यर्धाः सीते। स्वर्धाः सीते। स्वर्धः स्वर्धः सीते। स्वर्धः सीत

जिटलाः सर्वते । जांच्याः सीत् । वैदागिलः सीत् । वैदानेशास् (स र ) काः सीत् । वर्षः ज्ञानं काः सीत् । कुलाः सत्ते । वेरुप्येचाविकः सर्वतः । व्यवसायिनो वर्ष्याच्यांकां विकाः सूर्वो नर्वते । वैष्यः सीत् । व्यक्तिर्दः सीत् । आविक्यः सीत् । द्विष्यः सर्वे ज्ञालोपनात्वास्त्र वर्षातः । वर्षातिनः सूरि कि वर्षात्र पृथिकाः वर्षात्वं वर्षेते वर्षः स्वतं । वर्षातिनः स्वति । वर्षातिनः स्वतः वर्षात्र । वर्षः वर्षः वर्षः वर्षः । तर्षः वर्षः वर्षः वर्षः । वर्षः वर्षः वर्षः वर्षः । तर्षः वर्षः वर्षः । तर्षः वर्षः वर्षः । तर्षः वर्षः वर्षः । वर्षः वर्षः । वर्षः वर्षः । वर्षः वर्षः वर्षः । वर्षः । वर्षः वर्षः वर्षः । वर्ष

<sup>2.</sup> This has reference to alfial; (barbers), tasi : (washermen), etc. It is a social irony that these useful professions should be considered as an affinition great

<sup>\* 1971</sup> Febenher he're may mean Muhammadans or foreigners in general like the Dagan, Bottoh Forniquene, etc., who are mentioned by Bernier as settlers in Bengal in the middle of the seventeenth conture.

The foregoing picture of the flora and fauna of Bengal as also its composite society consisting of settlers from other parts of India is very important because we rarely meet with such detailed descriptions of our provinces in Indian sources. Generally we are required to depend on the testimony of foreign observers in reconstructing the history of our Indian provinces. In the above description of Bental of the seventeenth century we find that Maharastras and Cittantornas are mentioned as residents of Bengal. The term 'Mahardstra' is possibly used here to denote the Delastha Brahmins. It is curious to note that even Cittatelpanas had gone to Bengal and resided there in the seventeenth century according to Dhundiraia's testimony. In this connection. I may note here that a Cittabavana from Konkon (Sragleon) in the Sangameshwar Taluks of the Ratnagiri district of the Bombay Precidency) hearing of the Tantric attainments of a Siddha of Radha in Bengal went there and served the Siddha as his pupil. This Cittaparana was called Sirayogi. He attained siddhi, returned to Sragirpur in Konkon and there founded a Mathi as will be seen from the following extracts from Poems pertaining to the Maratha King Sambhaji, published by me in the Annals (B. O. R. Institute), Vol. XIX (1938), (nn. 58\_60).

—'' किश्योगी नाम क्षित्र नाम्यक्रियणाच्याः ।

विकास करा सिद्धार परिते रहमातुम्यः ॥ ३३ ॥
दिशा क्षीत्रमक्षे देशे ते हेशे स्त्रापिकाः ।

गुक्रेणाञ्च ते सिदं नरपासस्य सुम्रतः ॥ ३० ॥ "'

—''व्योक्षाद्वित्योः परितितवाः यावयास्त्रम्यातं ।

दश्यक्रेणाचि नामारस्यव्यतिः वरेश्योगंतं कीः ।

क्षेत्रमा गुमार्युर्वे वरणस्य समित्रको स्रोते ।

क्षेत्रमा गुमार्युर्वे वरणस्य समित्रको स्रोते ।

क्षार्वे भीति विकासस्यक्षणाक्षं विकास व्यागः ।''

The description of Radha in Bengal, the town of residence of the gury of विश्वयोगी is described as follows in the above poems:—

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दयरको इन्यतमा राहा नाम महादुरी। वाचारवीरवाकीनी वाचादुर्विवसाद्वका। २ ॥ व्योक्तवीर्मिनिका वहादुर्वच्छ्यदेः। ईवाचारोवामकीमैनडवाकोरकोन्तिः॥ ३ ॥ ईवीः ररमहंसेस बावकिर्यः समावृता। गत्रवेदित्ववृता सिहस्याध्ययगादिनिः॥ ४ ॥ गत्रवेदावृत्ता सिहस्याध्ययगादिनिः॥ ४ ॥

The references to Citiophoesus and Mohintepres in Gauda data are found in the three MSS, of the Gredespadametries at the B. O. R. Institute, viz.—(1) No. 248 # 1892-95 (10) (2), (2) No. 13 # 1892-95 (10). (2), and (3) No. 13 of 1892-94 (10). 16).

- कुक्कीतिः विश्वतः बाराउपण्यकाङ्का ११ ५॥ सुनामाक्षिकावारिकार्यव्यक्तार्थः। इ। स्वर्गारमाक्ष्यक्रीविराम्डकं मैतिवर्यकः। इ। इंजान्यक्रीविराम्डकं मैतिवर्यकः। संगीत्राम्बक्कारार्थः कंड्रविरः ॥ ॥ सर्ग्यक्रामाक्ष्यिमी राष्ट्रविर्वेद्वविरः ॥ ॥ सर्वेद्वविद्याच्यक्षयः स्वरामामाङ्गिरीः ॥ ८।। सर्वेदेद्शिक्षयः सर्वामान्त्रवेद्याः। इ। सर्वेदेद्शिक्षयः सर्वामान्त्रवेद्याः। १। ॥ सर्वावद्यव्यक्षयः सर्वावद्याः। इत्यव्यक्षिः। । १।। प्रकारवेदरामान्त्रवेद्याः। सर्वावद्याः। सर्वद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वावद्याः। सर्वद्याः। सर्ववद्याः। सर्ववद

तस्यां महासिश्चियरः सर्वसिङ्कप्रियः॥ ११॥

....

a 41 . 1

The above description of the town of Rāḍhā' in Bengal belongs to the seventeenth century as the Cittapāous Sivayogī was associated with the reign of King Sambhaji, son of Shivaji. Another feature of the description is that it is recorded by a Mahārāṣṭra Brahmin like Dhuṇḍirāis, the author of the Citrahanadamamāira.

With a view to test the factual character of Dhundirija's account of Bengal of the seventeenth century I note below some items from Bernier's glowing account of 'the fertility, mealth and beauty of the Kingdom of Bengale' as recorded in his Travelz (1656-1668 A.D.) pages 374-446 (Constable. 1871):

- (1) 'Pre-eminence ascribed to Egypt is rather due to Bengal.'
- (2) Bengal rice produced in abundance and sent to remote States by sea and land.—Sent to Ceylon, Maldives also.
- (3) Bengal sugar produced in abundance and sent to Golkonda,
  Karnatic. Arabia. Mesopotamia. Persia.
  - (4) Bengal sweetmeats produced in places inhabited by the Portuguese, who are skilful in preparing them.
- \_ (5) Fruits.—Large citrons preserved—a certain delicate root shout the length of sarsaparilla—Ambā, ananas, myrobalans, limes and ginger.
- (6) B. yields not so much teheat as Egypt—rice used normally—cheap sea-biscuits, supplied to European, English, Dutch and Portuguese ships.

Vide p. 164 of Geographical Dictionary by Nandalal Dey, 1927—article on Radha—that part of Bengal which lies to the west of the Ganges including Tambul, Midnapur, and the districts of Hughli and Burdwan. In the Mahdingelboro tentra the temples of Täraksiyara and Siddhinatha are mentioned to be situated in Radha.

- (7) Food of common people—3/4 sorts of vegetables with rice and butter, purchased for the merest trible.
- (8) Non-osgetarian dist.—Fowls (20 or more for one rupes), geess, ducks, geats, sheep, pigs, fish of every species,—sbundance of the necessaries of life is the cause of foreign settlements in Bengal by Portuguess. Half-cautes. Christians (about 35,000).
- (9) Women.—'The rich eruberance of the country, together with the beauty and amiable disposition of the native momen has given rise to a process in common use among the Portuguate English, and Dutch that the Kingdom of Bengale has a hundred state one for extraces but one for description.'
- (10) Commerce.—Variety of commodities.—sugar a valuable commodity—Bengal, a commo storebuse of cation and silk—cotton cloths, fine, coarse, white and coloured, which see exported by Hollanders alone to Japan and Europe—silk stuffs also exported—B. supplies all these stuffs to the Mogal Empire as far as Labore and Kabul and to foreign nations—silks, not so fine as those of Persia, Syria, Soyd and Barat but are of much lower price.—The silk factor of the Dutch at Kassem-Bengar (700-800 natives employed)—English and other merchants employ a proportious number.—Bengal, principal emporium of Saltpater—Dutch and English export it to Indias and Europts.—B. produces best loc., opium, max, civet, long pepper and various drugs.—Butter in plenty exported.
- (11) Climate. Seldom salubrious-great mortality.
- (12) Geography.—Endless number of channels to the sea—merchandise conveyed by water-towns and villages on the banks of these channels thickly populated with Gentiles-Fields, extensive, produce rice, sugar, corn, 3/4 sorts of vegetables, mustard, stame oil, mulberry tress (food for silkworms)—lea.MRDs, extremely fertile, produce fruittress and pins-apple-long walks arched with trees-danger of pirates—natelopes, hogs, wild fowls, tigers, a great danger—lunar ralmbows—Bersier feels more bappy than ancients who according to Aristotle had observed no lunar rainbows—storms and down pour of rain experienced by Bernier in his nine days' voyage in the islands and channels.
- I shall now give a summary of the description of Bengal in Sanskrit as recorded in Dhundirija's work :-
  - (1) Bengal produces :-
    - (i) Costly पर्यकानि (fine or coloured cloths).
    - (ii) (very fine silk garments or garments in general).

- (jii) coloured কৈন (silk) fabrics— কৈন is produced in Bengal alone.
- (iv) Cotton fabrics of a very fine variety (विश्वक्यांक).
- (2) Bengal produces corn of all varieties :-
  - Rice, wheat, up (barley), www (gram), www (a kind of pulse) of two varieties, and (beans)  and (lent) or pulse); untained a variety of beans), and (lent) or pulse), where (beans) of two varieties, were (beans), and (beans),
- This type of flattened rice is available only in Bengal. Beautiful, where sugar and molasses are produced in Bengal, as also good milk, seuds, hone; (will), ghee of good quality. Among oils mention should be made of sesamum oil, mustard oil, linseed oil, castor oil, sugarder (aufflower or saffron oil), and all varieties of scented oils (gdwdwnt) and easunce (gdwwwth) and easunce (gdwwwth).
  - (3) Bengal produces all types of Sikhis ("WER, i.s. regutables or berbs) and many varieties of trees like mango tree, jackfruit tree, cocanut tree, betel-nut tree, plantin trees (many varieties), jujube trees, the rose-apple trees, pomegranate tree, Kadamba trees, Bakula trees, Părijlăte trees, Campaba trees (three varieties), lime trees (many varieties), Picumanda ("Nimba—Apris Dict.) trees, thickets of orange trees, Staiphala ("astiphalas = the custard-apple) trees, the woodapple (Kapitha) trees, thickets of Kataki plants, Sami trees, Dhätri ("Amalaba) trees, thamind trees, thickets of Karoanda plants, pine trees, andal trees, reds arolat trees, mite agerus (gazillachum) trees, andal trees, reds arolat trees, mite agerus (gazillachum) trees,

<sup>1.</sup> Saint Ramedias of Mahirture (died 1818 A.D.) meetlons Studyhale plates in Ragglycheves. In the Behav-place (Vision and Bernell, 1903), p. 24 we are told that the natural expell was introduced from South America and spread over India design the 16th contarty. The references to Canad-apple,, on p. 66 of Biochaman's man, of the Alia-Adheri (A.D. 1979) is doubtful as the original test contains the word angload (Iratine-perioni). The Holmes-Judear content references to this fruit from foreign neutree dated A.D. 1872, 1998 (Origine—They (Hindus) feed likewise upmanapples, such 1913 and 1872. Origine—Tedges' reference to Contard-apples are.), 130 and 1872. Origine's reference to Contard-apples are.), 130 and 1872. Origine's reference to Contard-apple and the history of Jedina plates from Indian sources.

black agere trees, basyan trees, abeathe (hol) få) trees, admindre trees, idimali (silk cotton) trees, Khacaaa trees, Bilme trees, Khacaaa trees, Khacaaa trees, Elime trees, Madhaba trees, Karmare (« Karmare bamboo) trees, Tamila trees, Tala (planyra) trees, Såla trees, Sala-phala trees, Sranla (turpentine) trees, Prainage (automorgo or algadelma) trees, Arabia trees, Tellas tr

- (4) Bengal produces many forest-plants such as Aghantra (Actyranthis Afpra) thickets, Naguketra (Mesua Rosburghi) plants, Bhrigeorija grass, thickets of Brhast or the egg-plants, thickets of drhas (sun-plant) and Dhattrauc (white thorn-aps) of two varieties, Mucakunda Tulest, Barbart (- Barburt Marathi www.) Brhasth, Munghi (- Mungdo or Munghirah), Dibred (panie grass) of two varieties, Aparajită, Punarame, thickets of Yisiwa (Benn). Rudanti and Vacarbett.
- (3) Beggal produces Crepters like Maddrei (= Maddnei, Mellet (kind of ismine), Adalenalli (Amoracia, a parasitical plant), Mörica, Pippati (long pepper), Guydaci (= Guedici = Queculus, Cortifolisia), Magadama, Gunja, Nagagama (continues) (siper betel), clusters of Senantial, Vistantial, Kagadopuppāŋ (flowers of bulbous planta), Assan Ghwers, Maddrai (corni tures) flowers, Jafft (jasmine) flowers, Maddici (motters, Gutters of Tulari, Danasa (= Danasata), Maru, Sugar-case (Irin), Apmanfar-kips, Kaja (sacred grass), Kaja (grass), Sara (a kind of white reed or grass), white Dūrod grass, Vijas Krahaf grass.

Many more forest-plants besides those mentioned above exist in Bengal.

- (6) Bengal possesses the Eastern Ocean and the river Bhagtrath, besides many lakes and pools, full of lotuses, like the blue lotuses and varieties of red lotuses.
- (7) Bengal possesses many kinds of Birds such as aquatio birds (or otters), swam, herons, crows, cuckoos, peacocks, etdadbirds, cahrenda birds, Khaijana or wag-tails, Parrots, strik birds, Cahron (e Greek particle), birds, water-fowla, lap-wings (or white cranes), gallinules (or water-crown), Könnda (ducht) birds, vultures, chief (blue iws), Pishadak

- (small owls), Haritah (kind of pigeons), Bhritgarðjah (large bess), Parðoptah (= Pārdoptah = pigeons), Sárasáh (cranes or swans), owls. Váeurasvah (wild (owls ?), Titibha birde.
- (8) Bengal possesses many kinds of wild-beatts such as tigers, wild buffalces, wolves, jackals, gomdyavah (jackals), Khadgamṛgdh (thinoceros), deer, Carmayavah, bears, monkeys, dogs, mṛṣṇah ( = ?) antelooes).
- (9) Bengal possesses domesticated animats like cows, bufsloes, goats, wild goats, sheep, camels, elephants, horses, mules, asses, cate, rate, mongooses, anakes, frogs, musk-rats, chameleons, house-lizards, scorpions, flies, mosquitose, bugs, bees or wasps, moths (or locusts or grass-hoppers), black-bees, ants.
- Besides these Bengal possesses many other varieties of
- (10) Among the numerous aquatic animals of Bengal mention may be made of varieties of fish, small glittering fish, tortoises, crocodiles, water-snakes, prawns, water-crabs, leeches, water-rats, and mermen (ialamanusváh)
- (11) Bengal possesses boats of different types in plenty. The sailors of Bengal are expert in the art of navigation. There are numerous fishermen as also numerous men engaged in shipping industry in Bengal.
- (12) The population of Bengal is of varied type, consisting of Brahmins, Ksatriyas, Vaityas, Sudras. There are in Bengal Gurjaras (Gujaratis), Andhras, Karnatahas, Dravidas, Mahārāstras, Cittapāvanas, Kānapāvas, Mādhyandinas, Jainas, Kānyahubjas, Sārasvatas, Māthuras, Pātcātyas (Westerners), Marujas (people from Marwar), Magadhiyas (from Bihar), Maithilas (from Mithila), Parvatiyas (people from the hills = hill tribes?), Trihūtajas (from Tirhut)-all these reside in Gaudadeia. There are also in Bengal people from Utkala, Kāfi. Guardians of Gavā and Pravāga (Gavāpālakas and Prayāgapālakas) go there, as also Gangāputras (Brahmins who conduct pilgrims to the Ganges). There are people of inferior caste in Bengal like the barbers, washermen, potters, artisans, painters, jantupālas (=? tantuvāvas = weavers), gold-smiths, iron-smiths, merchants, Patukaras ( = Patoekari in Marathi), Magadhas (bards or panegyrists). and many other people who live by trading. There are also in Bengal the Yavanas (Muhammadana or foreignera). Candalas, Vamia-Sphotakas (= Bamboo workers?), fishermen. woodmen, hunters, flower-sellers,

There are also in Bengal accetics with matted hair, hermits, ascetics who have subdued all their passions and desires and those who are devotees of god Bhairswij, besides the the actors and dancers, women of profligate, character (Kulaith), persons living on the earnings of the prostitues. There are many business men, rich men, physiciaus, astrologers, conjurers.—In this manner there are people of all kinds in Bengel.

In short, whatever things on this earth are considered excellent are all found in Bengal.

On hearing this description of Bengal the Sannyāsin observed that it was fine country and jurther expressed his desire to visit it once. The host requested the Sannyāsin to do so and then to take his bath at the Gangaisgara (i.e. the place where the Ganges enters the ocean). Later he should visit God Puruputama and see all things for, himself.

The foregoing description of Bengal of the seventeenth century is quite a Gazetteer description of Bengal textiles, agricultural products, forest produce, flora and fauna in detail, geography, zoology, shipping and navigation, population of varied sort including foreign settlers, ariatocracy, merchants and people of all professions, high or low. This description is more specific than the description of Bengal by Batuta (fourteenth century), by Mahaun (early fifteenth century) and by Bernier (a.b. 1656-1667). For want of space-I centure into the details of the description which my Bengali friends will be better able to verify than myself. I shall feel happy if my of my readers would point out any such description of Bengal from Indian sources, Sanskrit or vernacular, prior to A.D. 1700. the students of the history of Maharastra the migration of Maharastra Brahmins, Sarasvata Brahmins and Cittabavana Brahmins to Bengal for educational or other purposes would be of special interest especially because this migration pertains to the seventeenth century. Benares was the abode of many Sarawatas, Maharageras, and Cittapavanas between A.D. 1550 and 1700 but the evidence recorded in this paper shows that some of them had further migrated to Gaudadeia or Bengal. My friend Mr. N. G. Chapekar who has made a special study of the history of the Cittabarana Brahmins informs me under date 17-10-1944 that he has no material to prove the migration of any Cittapayana to Bengal. In view of this statement he would be interested in Dhunditaja's reference to Cittapavanas in the Gaudadeia population and the migration of the Cittapavana Sivayogi from Konkon to the town of Radha for Tantric study during the reign of Chatrapati Sambhaji (A.D. 1680-1659). I await further light on this Cittapavana migration to Bengal from the students of the Maratha and Bengal history.

<sup>1.</sup> Dr. D. C. Geogule in his very substair critics on Facility Dele 1 fed. Bits Quentry, MX (von. 1941), pp. 251-317] remained (i) Brahamatich and Buddhir newers, 3) Chiese newers, (i) Median newers and (e) Burdhers newers on Benjal newers, (ii) Chiese newers of the Chiese 
# 8. SOME PROVINCIAL BOCIAL CUSTOMS AND MANNERS MENTIONED AS DURĂCARAS

VARADARAJA (A PUPIL OF BHATTOJI

DIKSITA')-(C. A. D. 1600-1660)\*

Varadarija\*, a pupil of Bhatoji Dilajia lived between a.p. 1660 and 1660. In his work called the Girodpapadamatjari, which is a sart of conversational grammar for Sanskrit, there is a discourse on the involvation or evil practices current in the different provinces of Index. The text of this discourse as found in MS 395 of 1899-1975 of this work in the Govt. MSB Library at the B. O. R. Institute, Poons, reads as follows:

Folio 14—Here there is a dialogue after dinner between a Banarus Brahmin! and his Sannyasi guest.

The Sannyari asks his host :-

	"सवती देवी रजस्वछ।पडीदनः ब्राह्मणः भुज्यते (कड सत्ये वा।"
The bast replies	:— "स्वामिनः न मुज्यते समीयीवै।"
Sannyāsi :-	''तर्हि बसमीचीनैः भुज्यते वा"
Host :-	"वर्दरै:। सप्रामाणिकैस । इङवाहकैः रवस्तकारकोहनः सुन्वरे <sup>क</sup>
Sannyāsi :-	'तै: सह संबंधो वर्तते न वा सःधं वर्षतु। वहि मिण्या वर्ष भवता परलोको नहपति।''
Host:-	"स्वामिनः। इस्मिन्देशे एवं चेद्। दुराचाराः व संकि सर्वत्र दुराचाराः संस्वेव। तथादि।
D' (1)	दक्षिणदेशे क्ली मातुलकम्यावरणं दुराचारः
D (2) D (3)	बाह्मिणात्येषु वर्षवतुष्टवाध्माक् कन्यायाः विवाहः बुराबारः। आनुभूवेषी इस्तवहं बुराबारः।
D (4)	कर्नाटके देशे स्नानं विमा मीवनं दुशचारः।
(5)	माहाराष्ट्रे उध्छिष्टभक्षणं ज्वेष्टं परित्यज्य कविहस्य विवाहकरणं कवित्सीकर्यवद्याच दुराचारः।
D (6)	क्रिक्के अनेक्रकोः सर्वेशे बकारमेनं दरासारः।

Bharativa Vides, VI. pp. 27-30

<sup>1.</sup> Vide my paper on Varadaraja in Festschrift P. V. Kane. pp. 188-199.

<sup>2.</sup> The name of this Brahmin as introduced in the work on follo 3 is "বালাই বুজভালাইবুহিং নেরভাগর ব্যাহারী," In the subsequent portion of the text he is briefly recented as আইবুটি from European de musical from European de musical from 18

<sup>3.</sup> He is represented as belonging to বিধাননং (fol. 4) as a bouseholder ("ৰামাৰ্থ মুখিন বিধাননং"). He gives a long list of the wealth of Vidyanagara ( m Vijayanagar) is seconomic and other products, its flore, its lakes and rivers, its boly places (firther)

<sup>4.</sup> D'Indicates that this deractra has been mentioned by Dhupdirala in be

74	TODIES IN INDIAN CULTURAL HISTORY
D (7)	केरक्रवेसे उपरिद्वातं दुराचारः।
D (8)	<b>ोंडवे 'वृक्षारोहनं दुराचारः ।</b>
D (9)	गुर्जाररेसे व मेरिस्पानं पृतीयदिवे स्वस्थकास्थानं व हुतका।
D (10)	उत्तरहेशे क्वी मांसमझनं दुराचारः।
D (11)	प्रवेतरेशे क्रिक्की देवरेन मुतोरवित्रंशकारः।
D (12)	व्रीविस्ताीदरेशे सरा तैक्केपनं दुराचारः।
D (13)	तीक्रके वेदरवागी दराचारः ।
D (14)	काम्यकुरप्रदेशे पन्यक्तपक्षमञ्जले विवाहादी बोक्स्कर्त परस्परस्पर्वेत दुराचारः।
(15)	उत्कल्के सुर्व ! सुर्व सुरतं दुराचारः ।
D (16)	गीरद्राविरकेरछ उरकलेषु पक कमतंत्रकोदनमोवर्व दुसकाः।
D (17)	
Guest (samyāsī)—	"वित समीचीनं जातं। अतःपरं मचा मठे गंतस्यसपुराक्यमं वातः।"

The above dialogue between a খামবর্থা of Kinyakubja and a Sanajali wood formerly belonged to Vidyanagara (Vijeyanagar), though introduced for providing some theme for conversation in Sanajarit, postesses some historical and cultural interest. It may, therefore, be rendered into English 's follows:—

(Vajapeyi = V and Sannyasi = S)

8—Is it a fact that in your country (or province) viz. Kinyshubi in Madbyadeśa the Brahmins eat rice cooked by women in menses?

V-Sir, good persons don't eat it.

8-May I take it that bad persons eat it?

—"बहुप्रजा दूखरेहाः शीलाबारक्विज्ञाः ।

मुबेमगाः कियो राष्ट्रमाकियम्ति युगक्करे ॥"

Michaelle explains :-

"मुखे मगाः वियो वारेषु प्रसिद्धाः । प्रथमं मुखेनैयं मगवार्यं इता पुस्ततः व्यमपुरीमयन्यः । बायन्तं रतार्थसात् "

(Vide p. 169 of Sukshanker Memorial Edition, Vol. I, 1944).

2. In giring this English readering I may have missed the erest significance of an original text at orderin places owing to my ignorance of the social life of the different provinces of India as it entired in the 17th control or as it exists usedy. It was be maded to solited date regarding the practices recorded by Vergderijk from spin quantum provinces.

<sup>1.</sup> This is possibly a misrcading for "Ja" Cf. Mahabharata Bombay Rikim,
3. 188, 41 (m.B. O. R. I. Critical Edition 3. 186.35)

- V—Rice cooked by women in menses is eaten by charkets (? people, by dishonest people and by ploughmen.
- S-Do women in menses keep (sexual) contact with these people? Please tell me the truth. If you tell me a falsehood you will not get heaven.
- V—Sir, what country is free from such practices? The evil customs are found everywhere, for instance—
- In the Southern country the practice of marrying a maternal uncle's daughter' as it prevails in the Kali age may be considered an evil practice (durācāra).
- (2) Among the Southerners the practice of getting one's daughter married before she had completed her fourth year is an evil practice.
- (3) In the Andhradeia or the country of Andhras hala-vaham<sup>a</sup> (the practice of carrying a plough) is current. It is an evil practice.
- (4) The practice of taking one's meals without a bath current in the Karnātaka country is an evil practice.
- (5) In the Mahārāṣṭra the following practices are current:—
  (i) Eating the leavings of another man's food.
  - (ii) Celebrating the marriage of a younger member of the family before that of the elder one on the ground of practical convenience.
  - These are, however, improper practices.

(1. 5. 101) states :-

Hards secured as your programmes of a page of the Bridge o

Yido p. 459 of Kane (Hist. of Dh. II). "Marriage with one's maternal
muler's daughter or paternal auxist's dupther was in vegus in the south (below the
Narbadd probably) long before the Beauthyone Dhérma Stire (II. o. several centuries
before the Christian Brs) and start North India' did not go in for vuch marriages and
that orthodort Stire writers like Guessen and Beauthyone reproducte such practices.
Messa facibles unturneringes (XII. 172-173).

<sup>2.</sup> Vide Kans, History of Dharmaldure II, p. 445 (Barly marriage for girls). The rule that Brishmans girls were to be married between 8 to 10 years became general from about the 6th or 7th century A.D. and continued to modern times. Marrie (quoted to ATRECHIEV 1, 2 p. 177) said that choosing a bride who was fee years old was been warmed and arrange security at Maria 1, and first year of Maragaraga warmer at Maria 1, and first year of Maragaraga are 11 ")

<sup>3.</sup> Bridently agriculture as an occupation for Brithmagas about which there are conflicting views. (Vide Kane H. D. II. 125). The Vedic literature does not consequent agriculture. Kane discusses several views aboving how agriculture was viewed at different times by different writers, from different points of views. Beauthypeas

<sup>&</sup>quot;देत्: ছবিৰিলান্তাৰ কুৰিবিৰিলান্তালী। জডিমানুমৰ্ব ভূমীবৃহত্তন্ত কুৰি দক্তব্ ॥" Harta declares "the plough-share carries with it destruction of life, therefore it is not

- (6) The practice of leaving the breasts uncovered i current among the ladies of the Dravida and Kerala countries is a evil practice.
- (7) The mode of sexual enjoyment called the upari-surage current in the country of Kerala is an evil practice.
- (9) The practice of climbing the trees current in Konhan' is an
  - (9) The following practices current in Gujaratare evil practices
     (i) Drinking liquor (Medika = Madaka = liquor used for
    - distillation).

      (ii) Women in menses taking a bath on the third day of the menstrual period.
  - (10) The practice of eating flesh current in the Northern country in the Kali age is an evil practice.
- 1, Vide p. 385 of C. V. Valdya's Makhhharata Upunohhira, Poona, 1922. Mr. Valdya's thinks that the practice of wearing a bodice was not current during the Makharah period. Bern now the Madrasi women go without a bodice. Compare Rimsonaria remarks to this commerciary (a.p. 1851) on quantum period. G.O. Saries, Bernoda 1923) p. 60. Saries, Bernoda 1923 p. 61.
- "हस्ते सञ्जीनका वासस्तिहानायासरामां प्रमान्य पूर्वमानीवासिरामाने, स्वा वास्त्रात्र्या वाहुक्कनमरिक्यः। तदा वास्त्रिक्षात्रीस्त्रेषु कञ्चकरात्मानारः। वकञ्चकाति रह्याप्रकृतः व्यक्तित्व । स्वेवां निषयां रष्ट्रा वस्त्रक्षात्रमानरेद् हति अश्विरस्त्रयननविददः। वदो न विविद्य-स्वा
- 2, Upori-Sereta may be the sporttake mode (also called ছিপ্(বিন্ত) which is described in the Solda Kalpadrana as follows:—

"करावेक्यदं कृता द्वितीयं स्कंपसंस्थितं । नारी कमकते कमी बंधः स्यादिपरीतकः ॥"

Ages eater that this mode is "also called (Reyther,") Damoiars (1980, p. 130).

Ages eater that this mode is "also called (Reyther,") Damoiars (1980, p. 130).

(Augustians (C. 175 A.D.) Sanza 375) refers to (Reyther; bor Mr. Tripoth, the

Allow, quarte, Mydriter with gardlen ("regul-Privat gravifich" Grewtheren,").

The Almosine (p. 182 of N. 3. Press, Eds. 1990) refers to (Reyther, as follows:

"Why They'd requested;").

- 3. A. a native of Kochan (Sangameshour Tabaka of Ratagairi Distring) I as would the correlating of this observation. The Kochan shounds in tail final trees like the many, the jack, the bestinat tree, the consensu tree etc. Not only children as disch but also women or in the habit of climbing the trees for gathering from on which includes the contract of the con
- 4. Cf. Trivitrams (c. a.p. 915) in his Nalacompa (1885-N. S. P. Bombay) p. 25!
  (7th (Uabelas) Description of marriage dinner given to the stmy—
  "स्क्री द करनावी अस्पार्थित(उन्हर्य) एक्ट्यमार्थ्यक्या (सरस्वका), मोस्तुके व सामान्त । विरक्षा कह वृश्चिकालयेषु सांवातम्मव्यवद्वारः । तत्रावर्णातां मो नैपृष्ठा etc."

The atmy was served with सास्त्री दत, विश्वदिनि, सास्त्री ते, इक्षुत्य etc. a purely reposition most to the chaptin of Northerners,

- (11) The practice occasionally resorted to by the people of the Paroata country, allowing the begetting of sons on a woman by her husband's brother, is an evil custom.
- (12) The practice of constant smearing of one's body with oil current in Maithila and Gauda countries is an evil custom.
- (1.) Abandonment of the Vedas current in the Gauda desa is an evil custom.
- (14) The following practices current among the people of the Kānyakubja country are evil practices:—
  - (i) Eating food cooked in ghee purchased in the market.
     (ii) Touching each other at the time of marriage and other feasts.
- (15) The mukha-surata mode of sexual enjoyment current in the Uthala country is an evil practice.
- (16) In the Gauda, Drāvida, Kerala and Utkala countries the people cat cooked rice prepared from the un-busked grains of the Kalama rice ripened in the field.
  - (17) The practice of eating tâmbûla (betel-nut) in the street current in all provinces is an evil practice.

The foregoing list of evil practices (or duracaras) recorded by Varadaraja, a pupil of the great grammarian Bhattoji Diksita. will be found useful by all students of the history of Indian customs and manners as they prevailed in different centuries. Varadaraja, though a southerner, had settled at Benares and there studied under Bhattoil like many other southerners. Benares was the centre of learning for many centuries where people from all parts of India gathered together and carried on their literary pursuits. In the social concourse of these learned preceptors and their pupils occasional discussions on the provincial customs and manners must have taken place and the present list of duracaras as given to us incidentally by Varadaraja may be taken to be a summary of such discussions incorporated in the Growth padamanjuri for literary embellishment. If we value the accounts of our manners and customs recorded by foreign travellers from the earliest to the last for the reconstruction of the history of our culture. we have every reason to value Varadarāja's list of durācāras or evilpractices so called. These practices were obviously current in the different provinces of India in the 17th century. Even to the modern's taste all these practices are not evil practices. To Varadalia altothey did not appear as duracaras as will be seen from the remark "F

<sup>1.</sup> This custom is identical with the Niyage of the Dharmaldare texts. Mr. C. V. V. Wiles thinks that the Niyage was current in India mong the Arysan in very andfess; this but it was not current in the Mashkharat, these (Vide pp. 38-316 of Miller, Committee of Miller, Miller, Miller of Miller, Committee of Miller, Miller, Miller of Miller, 
the Bruhain host in the dialogue: "www gruwr; stife qw". Every social group has its own manners and customs. It is generally the outsiders that have a tendency to criticize the customs and manners of groups other than their own. To a student of Indian history and culture all these manners and customs as also their criticism recorded in literature, whether constemporary or subsequent, are very valuable as they give him a better terra firms to stand upon and cast his glanc towards the past than the mere imaginary accounts of our accient culture which at times fall the pages of our histories without any embetratum of facts.

The entire hody of the dharmadistra literature though a reflection of Hindu customs and manners current at different periods of the seolution of Hindu Society, cannot prove the existence of certain customs and manners in specific periods of history as the tendency of the writers of the works on dharmadistra is to quote previous works on the subject to justify or condemn certain customs and manners. We cannot, therefore, say definitely from the statements of these works if these customs or manners were all of them actually current in society when these works were composed. For a correct history of these customs we must collect the testimonia of foreign and Indian observers who may have incidentally or purposely left some accounts of these customs. Such testimonia are very useful correctives to the rosy pictures of our culture draws sometimes on the strength of a fea-statements from dharmadistra works gathered at random by amateurs in Indology.

Not having travelled in different parts of India I am unable to wrify if any of the durdebra mentioned by Varndaräja are now current in the apacific provinces mentioned by him. I must, therefore, leave this work of verification to my readers in these provinces-Varndaräja's work has been imitated by Dhundiräja, son of Sriranga-bhatya. He was a Mahiräyn: Brahmin of the Mädhva sect as I harpoved elsewhere. His work also is called the Girndappladmandjuri. It was composed sometime after a.n. 1700. Dhundiräja has incorporated some new natter in his work, though he has kept the form and spile of his work identical with the form and style of Varadarāja's work also contains a list of durdedras of different provinces, which I have examined in a separate papera with a view to see how far he has added to Varadarāja's list or improved upon it in the light of his own experience and knowledge during his stay at Banacara towards the close of the 17th century.

Vide my papers on (1) "An Echo of the siege of Jieft in a Sanskeit Grammelites.
Whe has," contributed to the Indian Bistory Congress, Madras, 1944 and (2) "Glimpson idan the Secondri Industriel and Social is of Bergal as given by a Mahdraipra Brahmin of the 17th Cruitary" (Indian Culture, Calcuta).

<sup>2.</sup> NIA. VII. pp. 136-139.

# 9. ANTIQUITY OF THE CUSTOM OF HOLDING GRASS IN THE MOUTH AS A SIGN OF SURRE DER IN THE LIGHT OF A REFERENCE TO IT IN THE MAHABHĀRATA\*

During the course of my studies pertaining to the literary and cultural history of India for over three decades. I was constantly faced with the necessity of studying the history of Indian proverbe. Though I could not divert my attention to this very fascinating field of research in the history of our proverbs owing to other commitments I tried to satisfy my desire in this respect by writing out one or two papers with a view to examining the possibilities of original research in this line. One of these papers deals with the history of the proverb: "To hold grass in the mouth" (treabhaksana-nyaya) current in Sanakrit and Prakrit languages. To hold grass in the mouth means to surrender. The practice of holding grass in the mouth as a sign of surrender is a very old practice not only in India but in Europe as the Roman historian Pliny refers to it as I have proved in my paper. The following table gives at a glance the chronology and Reography of this practice as recorded by me in my paper with full egidence :-

Chronology	Geography	Source of Evidence	Remarks
A. D. 23-79	Italy	Pliny (Netural History)	Latin phrase: "To give grass" meaning "to acknowledge oneself vanquished."
A. D. 630	North India	Bāņa (Harşa- Carita)	Cowards holding gress in the mouths as a sign of sur- render.
A. D. 1305	Gujarat	Merutunga (Prabandha Cintāmaņi)	Two references to grass in the mouth as a sign of surrender.
A. D. 850-950	Kanouj	Kąemiśvara (Capdakauśika)	Stage direction to put grass on Harifeandra's bend when he wishes to sell himself as a slave.

<sup>·</sup> Chatrika Abhinandan Grantha, pp. 1-4.

Vide pp. 21-24 of Gerahale-patriké (Asidha, Somest 2007-July 1990), where a Hindi rendering of my paper has been published. The original English paper will appear in the Indian Culture (Calcutta) in the volume in honour of the late Dr. B. Mr.: Ranus.

Chronology	Geography	Source of Evidence	Remarks.
A. D. 1483–1530	Afghanistan	Baber (Memoirs)	Alghans holding grass be- tween the teeth as a sign of surrender. 2010
At D. 1596		Rudrekavi (Rastraudh-a vemša- mahākāvyā)	King of Jaybar "with great in mouth and an are on his neck" surrenders to the king of Baglan.
A D. 1650	Andhra	Venkaţādhvari (Viávaguņādarāa)	Reference to holding gram
A. D. 1695	Maharashtra	Sabhasad-Bakhar	Enemy surrendering with
o , a li aco que do base ben armanor	Burope	Liebrecht (Glossary of Indian Terms)	of holding grass in the mouth in Europe
	England	Tawney (Notes on Prabandha Cintamani)	Persons holding stress mouths indicating their wish to be hired as fall witnesses.
"estero or so	Scotland	Campbell (Tales of Western Highlands)	Custom of taking straw in the mouth to:show one; s wil ingness to take service.
eds ac to the	Maheraehtra	Acworth (Maratha Ballada)	Reference to putting gree in the mouth:
C. A. D. 1790	Mysore	Fresco in Tippu's Palace	Col. Bailey shown with grat between the teeth.
ati 34±1. Noruga ⊩	8:5: :	Meadows Taylor (S ets)	Reference to prisoners put ing grass in their mout and crying for quarter.

and the state of the castom of holding grass in the mouth as a sign of surrender in Europe, Afghanistan and India as wouched by the evidence seconded by me in my previous paper on this, subject needs to be accounted for by linguists and ethnologists. In the typic gives to be accounted for by linguists and ethnologists. In the typic gives above it have shown the antiquity of this custom; in India up 10 Joput ann. 60). It is possible to the this antiquity, backwards by at Joseph 500 years as I have traced a reference to this custom in the

Nilakanthabhatta' in this Nitimoyākha (Gujarati Printing Press, Bombay, 1921, p. 106) deals with the topic of dharmayuddha or right-cous war. He quotes many authorities for the guidance of warriors. Among the authorities quoted we find the following were from the Rājadharma section of the Sāmiṭparran of the Mahābhārata in which we find a list of auadhya (not to be killed) persons:—

Page 106—"राजधर्मेपः—

#### " हुद्दो बालो न हम्सन्यः नैव स्त्रो नैव च द्विजः। तणपूर्णमस्त्रवेव तवास्मीति च यो बदेता।"

(One should not kill (on the battlefield) an old man, a child, a wann, a brahmin and a person, who with his mouth full of grass says: "I am yours.")

The above verse from the Rājadharma as quoted by Nilakanţhabhai is exactly identical with that found in the Bombay edition of Ganpat Krishnaji (198-49) but in the critical edition of the Rājadharma by Dr. S. K. Belvalkar the constituted text for this verse (verse 47 of Adhvära 92, p. 460) is civen as follows:

# " वृद्धं बलं " न इन्तम्यं नैव स्त्री न च वै द्वितः।

नृणपूर्णमुख्येव तवास्मीति च यो वदेत्॥"॥ ४७ ॥

The star mark on "\*\*\* indicates that it is an emendation of the reading by the Editor. On p. 671 the editor gives the following note bearing on this emendation:—

"47) न्द्रं "बर्च 'a fighting force cut off from the main army'. द्वर-बारी and षद्मार्थ are cylindry [act. ].ac. and, in the battle, the question of killing them cannot arise. In the case of the स्था and the द्विय as represented by शिलांग्य and होण the question stands on a different footing"

scholars interested in textual criticism should satisfy themselves about the validity or otherwise of the above remarks. I am inclined to accept the text of the verse as quoted by Nilakanthabhatta and confirmed by the Ganpat Krishanji's clittion referred to above. The reference to holding grass in the mouth (२००२०/१९६) in the second line of the verse remains unchanged in the constituted text and heavirants a conclusion that the custom of holding grass in the mouth as a sign of surrender was current at the time when the text of the Rajadharma section of the Mahāhhārata was composed, or even earlier. If this conclusion is accepted the antiquity of this custom will go back to the first few centuries of the Christian era. Students of the Mahāhārata are requested to point out any other references to this custom traced by them in the voluminous text of the great Epic.

<sup>... 1.</sup> Nilskanghabhan; (C. A. D. 1610-1645) was the grandson of the celebrated Nikryymphan; of Benares. He composed an encyclopaedie work on Dhamadatra called the Bhagacouste Bhāshara in 12 Mayūkhas (1878) of which Missacyākha is one.

### 10. NOTES ON THE HISTORY OF GLASS-VESSELS AND GLASS-BANGLES IN INDIA, SOUTH-ARABIA AND CENTRAL-ASIA\*

Some time ago I published a paper 1 on the use of Kāca (glaus) Vessels in Indian Pharmacy, in which I recorded references to Kāca vessels in the works on alchemy (raso-oidya) from C. A.D. 1100 on-wards. Since this paper was published Dr. M. M. Patkar of the Deccan College Research Institute, Poons, has published his critical edition of the lexicon Anakārshā Tilaha of Mahipa (Deccan College R. Institute, Poons, 1947). According to Dr. Patkar this lexicon was composed between "A.D. 1175 and 1434." This lexicon contains the following references to Kāca :---

हाच (II, 43, 261, 359); हाच-इल्ल (III, 192); and हाच-इन्य (IV, 61).

The texts of these references are as follows :-

Page 10-(II, 43) "काच: शिक्ये मधी वृक्षे नेत्ररोगे सरीप्यते"

Page 29-(II, 261) "रानं उत्कृष्ट-कास्त्रयोः"

Page 359--(II, 359) ''मोझे झारो रसे काचे गुडे च खवजादियुं'

Page 56—(III, 192) "मुने नरे कडे बारवाः वल्लियः साहगोपुरे । काचस्य कल्ले। इन्ने वरक्षः धुरिकाकडे ॥ १९२ ॥"

Page 71-(IV, 61) "कटबावक इरवेप कासकरमे च सावके"

Among the different meanings of Kdca terms recorded above I am concerned in this paper with those expressive of Kdca vessels viz. the following:—

- (1) पश्चिम = डायड्डम्स or डायड्डम्स (Mr. Apte in his Sanskrit-English Dictionary explains पश्चिम as "A glass-vessel, pitcher.")
- (২) কলোৰ্ড = ভাজ্যান (Apte explains কলোৰ্ড 28 "2 glass-vessel,

<sup>.</sup> Journal of Oriental Studies (Pardi), I, pp. 9-16,

<sup>1.</sup> Vide on, 147-160 of Blarettys Vided (November 1946).

Nysimhtärama (c.a.D. 1550-1600) the guru of Bhestoji Dikeita refera to Kdasmild (possibly a string of glas-beads) in the following verse in his Bhedathikhire (Beneres Seno. Series 1994, p. 119):—

<sup>&</sup>quot;गुरुवरणस्थासात् इतते निर्गतं तद्विगुणमञ्जूणं वा वीस्ततौ तत्स्वमारमा ।

जि विद्याति इक्टिका बमाकावमत्ता एतयक्यणिमार्जा शारदाकाशक्याम् ॥ १३ ॥

Niritealings comments—

<sup>&</sup>quot;स्व्यक्तिम्बर्गक्रमिन्द्रवेशाल्यं क्षित्रविवार्यं काष्ट्रमध्याका प्रान्त्या स्वर्गते अपि नैतारता हा प्राप्तेः अवेतरा स्वर्कः"

In my previous paper I have already recorded the terms for Kāca vessels such as :-

ভাষ্থ্য, ভাষ্মাত, ভাষ্থাৰ, ভাষ্থৰ, ভাষ্থাই, ভাষ্থাইয়, ভাষ্যাইয়, ভাষ্থাইয়, 
In the Vaitya-varga of the lexicon Trikāndateta of Purunottamadeva (before 150 A.D.-Keith) we find the following references to Kāra-vesaris:—

Verse 63 of vaityavarga (हाद्स-कोस संग्रह, Benares, 1873)—

(Apte in his Dictionary explains "বিষ্ণাত" as glass-vessel). The Medinikola (C.A.D. 1200-1275) also mentions "বিষ্ণাত" in the following line—

## "शिंघाणं कासपात्रे व लोहनासिक्योमेंहे"

The Sabdaratna-Samanvaya-Koia (G. O. Series, Baroda, 1932) of king Shahaji of Tanjore (A.D. 1684-17i2) contains the following references to Kāca-vessels—

Page 47- "... कटखादकः। सार्वे काचकलशे"

Page 70- "... पलिघो गोपुरे मतः। प्राकारे काचकलशे..."

Page 116— "... सिङ्गाणं काचपात्रे स्यात् ..."

Page 192- "... कुन्नानं( छ )स्याद काचपात्रे"

It appears from these specific names for glass-vessels viz .-

इटलाइड, पनिच, सि (सि )क्याण and क्यान (क) that Kāca or glass-vessels of different sizes were used in India from C.A.D. 1100 onwards. These names, however, do not help us to visualise the glass-vessels indicated by them.

The lexicon Amarakoia (C.A.D. 500-800) mentions the word harm in the following line-

Kāṇḍa Vaiiyavarga 9, verse 98), Page 385 of Amarakoia (N. S. Press, Bombay, 1905):—

"अथ मण्दूरं शिक्षाणमपि तन्मले ॥ ९८ ॥"

<sup>1.</sup> King Bhoje (A.D. 1050) in his Yuktikelpateru (ed. by Iévars Candra Satri, Calouts, 1917, p. 78) mentions several kinds of cups (Cojecker) in the ব্যক্তিয় among which we find হয় টিব and ভাব cups (হয়াহিত ভাষ্ট্ৰ ব). Very probably ভাব বৰ্ষত menta bets a glau-cup.

Bhinuji Dikşita (c.a.d. 1630) says that सम्बर्ध and शिक्षाण are synonyms for कार्यक (rust of iron). It remains to be seen how the term begun of Amara came to be applied to कायराज or glass-vessel. Amara numbers mentions कायराज.

The Rājanyanahāra-Koia (Poona, 1880) of Raghunātha Paṇḍita (about A.D. 1676) explains मीना as काचसार, and सफाप as काच in the following line—

Page 5 (कार्यस्थानवर्ग)-"काससारस्त मीना स्थाद सफापः काच देशितः॥ ५३ ॥"

The Marathi Dictionary Šabdakoia (by Date and Karve, Poons, p. 2279) mentions the term पिछारे in the sense of a superior kind of glass-The Rājaroyavakāra-koja (p. 5) explains this term as स्परिक in the following line— "कियोर स्परिक भवेश ॥ ५१ ॥"

The term tent is also applied to a kind of bangle used by ladies.

In the Bhogyavarga of his R. Koia Raghunātha Paṇḍita refers to

Page 8— "प्यास्ता त चक्को शेषः बीस्ता नाम भवेत क्वी" ॥ ८८ ॥

The foregoing references to glass-vessels found in the different lexicons between C.A.D. 1000 and 1700 naturally raise the question about the manufacture of this glass-ware in India or outside and its chronology. In this connection we have to consider the history of the west of glass-bangles by Indian ladies now current in different parts of India. I, therefore, record below some notes which may supplement the data already recorted by me in my reviews opener on this subject:—

(1) The Rājavyavahāra-Koia (c.A.D. 1676) referred to above mentions a bracelet in the following line:—

#### Verse 53- "इस्तकडे स्वाद इस्तकक्रणम् "

It also mentions Kāsāra as the man who prepares the bracelets— Verse 380— "ব্যাব ভ্ৰমক: ভাষোত্ত

At present the Kāsāra sells glass-bangles and I presume in the 17th Century he did so. It is not however, clear from the above references if he manufactured glass-bangles as such.

(2) Bangles of green glass were in use on the Coromandel coast between A.D. 16:9 and 16:79 as will be seen from the following reference:—

Thomas Bowrey in his Geographical Account of the Countries round the Bay of Bengal (1669-1679) (tlak. Society, Cambridge, 1905) speaking of the Mallabars (of Choromandel) observes:

Page 35— "The wealthiest sort have sheekles (shackles) of silver upon their Arms, neare Soe high as the Elbow, from the wrist upwards, others of brass or copper and some have them of green-glasse, with great brass rings upon their tows."

Page 34— "The Banjans and Gentues wear in their noses a ring or pendant of gold or silver". At present glass-bangles and nose-ring are used by married Hindu ladies as signs of married bliss. Widows are prohibited from using these signs of Saubhägya (married bliss).

(3) Glass-bangles (b\u00e4\u00e4gad\u00e4) appear to have been manufactured at Vasit (Bombay Presidency) about Ao. 1821 as proved by letter No. 108 dated 22nd December 1821 (Page 1011 of Vol. VII. (1943) of Historical Selections. Broods). This letter is a "Permit to the bangle-dealer to the Palace exempting him from duty on bangles worth Rs. 300/- that he was importing from Nasik.

#### ("सत्ताराम कासार नि ॥ सरकार हा देसी वांगक्या आणावयास नाशकास जाती")

This is a clear reference to defi bāngdyā (indigenous bangles) taken to Baroda for palace use. Very probably they were made of glsss.

(4) The Ain-i-Akbari (A.D. 1590) Vol. I (Trans. by Gladwin, Calcutta, 1897) refers to glass-manufacture in Behar and in the Soobah of Agra:—

Page 318 - Soobah of Behar.

"Behar is famous for parrots and goats-gilded glass is manufactured here".

Page 325- Soobah of Owdh.

 articles imported from northern mountains include "glass toys".

Page 329- Soobah of Agra.

"Allore has considerable manufactures of woolen carpets and glass".

(5) The Bombay Gazetteer (Dharwar) Vol. XXII refers to bangledealers and bangles:—

Page 233—"Bangarbaray or Bangle-makers a branch of Manyart are like them descended from local Kāds converts who are said to have embraced Islam during the time of Aurangzeb (1688–1707). They make Waz-bracelest and sell Chiester glast-hangles which they buy from whole-sale Vāgi dealers who bring them from Bombay... They sell both to Hindus and Musulamats.

Page 235— Manyars or glass-bangle makers are the descendants of local Hindu kāsārs (converted during the reign of Aurangzeb)". Chinese Competition has forced the Manyars to give up their old craft of wax and plass bangle-making."

- "hdidr means a bangle-maker": may suggest a reference not only to the manufacture of metallic bangles but also to max (or rather lac) and glass-bangles as well.
- (7) The Probanchacintomogi (n. D. 1305) of the Jain author Mentalis records a story about the physician Vighbata Vaidya-Vighbata-probancha) in which we get a reference to a kind-imposis (glass-bottle) and its breaking by dashing on the ground (pages 314-317) of Probanchacintomogi ed. by Ramachandra Sastri, Bombay, 1888, Sarga 5 "Grand sarangh applications of the Santalist Sastri, Bombay, 1888, Sarga 5 "Grand sarangh applications of the Santalist Sastri, Bombay, 1888, Sarga 5 "Grand sarangh applications of the Santalist Sastri, Bombay, 1888, Sarga 5 "Grand sarangh applications of the Santalist Sastri, Bombay, 1888, Sarga 5 "Grand sarangh applications of the Santalist Sastri, Bombay, 1888, Sarga 5 "Grand sarangh applications of the Santalist Sastri, Bombay, 1889, Sarga 5 "Grand sarangh applications of the Santalist Sastri, Bombay, 1889, Sarga 5 "Grand sarangh applications of the Santalist Sastri, Bombay, 1889, Sarga 5 "Grand sarangh applications of the Santalist Sastri, Bombay, 1889, Sarga 5 "Grand sarangh applications of the Santalist Sastri, Bombay, 1889, Sarga 5 "Grand sarangh applications of the Santalist Sastri, Bombay, 1889, Sarga 5 "Grand sarangh applications of the Sastri, Bombay, 1889, Sarga 5 "Grand sarangh applications of the Sastri, Bombay, 1889, Sarga 5 "Grand sarangh applications of the Sastri, Bombay, 1889, Sarga 5 "Grand sarangh applications of the Sastri, Bombay, 1889, Sastri, Bombay, 1889
- (8) Prof. V. R. R. Dikshitar in his article on "Southern India and China" (Journal of Sino-Indian studies, Calcutta, October 1946-January 1947, Vol. 11, pp. 157 ff.) refers to three embassies sent by the Chola monarchs to China in the 17th Cent. A. D. An account of these embassies has been recorded in the Chinese annals, especially Chus Parkus. The dates of these embassies are as follows:—

Page 170- A.D. 1015- Embassy sent during the reign of Rajaraja I.
A.D. 1033- Embassy sent by Rajendra I.

A.D. 1033— Embassy sent by Kajendra I.

A.D. 1077— Embassy sent by Kulottanga I was most

A.D. 10/7— Embassy sent by Kulottanga I was most notable and a detailed account of this embassy is available as follows:—

"The embassy sent by Kulottunga consisted of as many as Seventy-two men. They carried with them as tributes—

- Glass, (2) Camphor, (3) brocades, (4) rhinoceros' horns,
   ivory, (6) incense, (7) rose-mater, (8) putchuk, (9) borax, (10) Cloves
   tc. In return the embassy received 81,800 strings of Copper cash, each to the value of a dollar.
- Was the glass taken to China in A.D. 1077 manufactured in India or outside?
- (9) Arthur Lane and R. B. Sergeant in their article on "Pottery and Glass Fragments from the Aden Littorel, with Historical Notes" (J. R. A. S. 1948, parts 3 and 4, pp. 108-131) make some historical remarks on "Arab Glass in the Far Batt-" (pp. 117-119). The following points in these remarks are noteworthy in connection with our inquiry about the history of glass in India :—
  - (1) Hirth and Rockhill (p. 16 of Chu-fan-Chin on the Arab and Chinese Trads in the Teelifs and Thirtsenth Centuries, St. Petersburg, 1911) quote a Chinese Source written prior to A.D. 572, dealing with the period A.D. 37-556 which states that the following articles were either imported or made known by the Persians to the Chinese, "Coral, amber, Cornelians, pearls glass both tranparent and opaque" etc. all of which are products, characteristic of the South Arabian coast. Describing the markets of pre-Islamic Arabs Kalkashandi save that in Sand, Cavila of the Yemen Arab.

merchants used to buy Kharax (glass beads or trinkets). These Indications suggest that glass may have been manufactured in southern Arabia before Islam.

(II) Writing in A.D. 1178 Chou Kiifei says, "The products of Ma-li-Pa (the Hadramawt Coast of Arabia, probably including the whole of the Southern Coast and the Fort of Aden) are—

Frankincente, ambergiis, pearls, opaque glass, rhinoceros horas, wory, coral putchuk, myrrh, dragona-blood, asafoetida, liquid storax, oak-galls and rose-souter, to trade in all of which the Countries of Ta-shi recort to the place. "This passage seems to be fairly tound evidence of the manufacture of glass on the South Arabiam Coast and though rose-sater is not mentioned by the Arab geographers as an export of South Arabia, Tome' Pires (A.D. 1512-15) speaks of rose-mater of Şanā and says that Aden exports rose-souter".

Articles common to the (1) Chinese source mentioning the items of tribute sent by the Chola King in a.b. 1077 to the Chinese emperor and (2) the Chinese source mentioning the products of the Southern Coast Arabis in a.b. 1178 are (1) Glass; (2) rhineceros horas; (3) isony, (9) iscense, (5) rose-souter, (6) putchask. Very probably the glast taken to China in a.b. 1077 from Southern India was a product of Southern Arabis. This probability is confirmed by the Arab geographer Idriai (c.a. b. 1154) who "Cites Aden as the point of departure for ships destined for Sind. India and Chine" (P. 113 of 118 AS. 1948).

- (III) Arab glass was carried to the Far East in or before the 8th Cent. A.D., for several pieces of it are preserved in the Shoshoin at Nara in Jana where they were denosited in A.D. 750.
- (IV) During the 16th century there was a cessation of the glassmonufacture of the Arabian coasts owing to the Portuguese blockade of the Muslim world.
- (V) According to Tome' Pires (a.D. 1512-15) articles of Venetian glass were brought to Cairo and thence taken to the Far East. He also gives the route by which merchandise was carried to India. This route is as follows:—
- Venics Alexandria Caire-Tor-Macca Jidda-Aden Comboy-Goa Alabar-Bengal-Pegu-Siam. In view of the above history of jests from Southern Arabia prior to A.D. 1500 and the import of Venetian glass into India after A.D. 1500 we may reasonably conclude that glass-vessels used in Indian Pharmacy prior to A.D. 1500 were possibly of Arabic were of Venetian origin as the glass-manufacture of the Arabia cossus suffered a dissater after the Portuguese blockade of the Muslim world during the 16th Century.
- (VI) Arthur Lane and R. B. Serjeant have collected some useful information about plass-bangles found in Aden Littorel (region along

the shore). In view of the commercial contact of Aden during medieval times this information has a possible bearing on the history of glass-bangles in India. I, therefore, note below a few points from this information:—

- (a) Numerous momen's bangles of glass were found at Kand ansaila ("The Dune of the Flood Course") an isolated mound on the Adan-Lahajyama road. They were very elaborate in construction and of white, red, yellow, blue colours. Possibly they are relies of a local factory for these ornaments.
- (b) Two complete coloured bangles in the Victoria and Albert Museum are said to have come from Persia and two fairly simple ones were found on the 4th Cent. site of Samarra in Mesobatamia.
- (c) At Al-Mina in North Syria some glass-bangles triangular in section and mostly of plain green glass were found in graves of 5th to 6th Cent. A.D.
  - (d) Elaborate bangles of coloured glass were found in the areas fringing the Red Sea. Arabian pulf and Persian pulf as far as India.
  - (e) The type of the above bangles, presumably current in the Near Bast before Islam, reached the greatest elaboration after 9th Cent. A.D. and before the 75th Cent. (when Aidhāb was destroyed). There must have been factories of these bangles in South Arabia.
  - (f) The technique of using polychrome opaque glass goes back to the XIIth Dynasty in Egypt and perhaps earlier. It is found in the Roman "milleflori" bowls and the Islamic "milleflori" panels at Samarrs and in the Vention class of the Renaissance.
  - (g) Theophilus (= monk Roger of Helmershansen near Paderborn-died A.D. 1720 describes the moding of glass bracelets with bands and sport of different colours in his technical treatise Diversarum arism schedula, Book II, chapter 31 (A translation of this text will be found in C. Winston's An inquiry into the difference of styles observable in ancient glass paintings; London, 1867, p. 380.
  - An against the possibility of the introduction of glass-bangles from South-Arobian factories into India in pre-Islamic and post-Islamic periods we have to consider their introduction into India from Central Asia as indicated in a letter dated 20th November 1947 which I received from Dr. V. S. Agrawals, Superintendent, Central Asian Antiquities Museum, New Delhi. Dr. Agrawals writes:—
    "I have not come across any definite reference in Sanskrit Litera"I have not come across any definite reference in Sanskrit Litera-
- ture to the use of glast-hangles but, I think that they began to be used measine about \$M-94h cetury i.e. in the early medieval period. Their use seems to have been brought by the foreign tribes like the Husas and Gurfares coming from central Asias. Six Aurel Stein found some specimens of glast-hangles, slightly thated in various shades of pale places that the stein shades of the ste

#### THE USE OF KACA OR GLASS IN INDIAN PHARMACY\*

( Between C. A. D. 1100 and 1800 )

Before we prove the history of glass (Kāca) in India we must collect and put on record all references to sign in Sanskrit and non-Sanskrit sources. The term sig is now applied to glass but in Sanskrit literature it has other meanings such as crystal, an eyedisease, alkaline salt, wax etc. as explained in Apte's Dictionary. In the present paper I shall first record some references to SIT and its utensils found in the Rasaratnākara of Nitvanāthasiddha, as available to me in the published edition of its two Khandas अधिकाण and वाहिकान (ed. by I. K. Shastri, Gondal, 1940). As the Rasaratnakara is assigned by scholars to the 13th century 2 the references to are in it have some historical value. In fact the use of Tautensils mentioned in Indian medical works or in works on alchemy needs to be proved historically with a view to clarifying the problem of the history of glass in India. which is at present in a nebulous state. With these remarks I note below the references to SIR in I. K. Shastri's Edition of the Pasaratnābara :-

#### Page 42—"रसकं घोषताम् च कार्च श्रेतं नृकेशकम्। यस्त्रानि पंच पंचैव प्रत्येकं चूर्णयेशपुथक

- Bhāratīya Vidyā VII, pp. 147-160.
- To understand the history of glass in India we must know its history in outside countries. In this connection see remarks on Glass in "Ancient Egyption Materials and Industries" by Lucas (Edward Arnold and Co. London, 1934) pp. 115-127. I note some points from these remarks:—
  - The Chemical Composition of ancient Egyptian glass and glass is essentially the same but glass was applied to the surfice. Glass was not a separate discovery from glazs.
  - (ii) Production of also objects on a large scale dates from aboutthe beginning of the XVIII Dynasty (I. C. 1580-159)—piece of glass with inserigation bearing the name of Amenghia in Ashmolean Museum at Oxford-Class objects from Profransia period from the Amenghia in Ashmolean Museum at Oxford-Class objects from Profransia period from Arr Hators hered, Brade, Urst eyes, Mosaic, Blue glas waset etc.—Pliny's sportsphal Story of the discovery of plans (XXXVII. 58) in not to fensionic, as prosecutors;
  - (iii) Alexandria, one of the greatest glass-manufacturing centres of antiquity as vouched by Straha—References to Egyptian glass in Roman literature— Emperor Aurelian fixed a tar on glass from Egypt, imported into Rome.
- 2. Vide जायुर्वेद नो इतिहास by D. K. Shastri, 1942, pp. 202-203. Prof. Devasthali sasigns स्वर्त्यावर to the "later hall of the tenth century at the latest" (Vide p. 90 of Book I of his Catalogue of Bomboy University Sassibia and Profits MSS.. 1944)
- 3. This edition is based on a MS, of the Resoratedkera dated Sembal 166. = A, p. 1576 (See p. 184).

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STITLES IN INDIAN CULTURAL HISTORY
    P. 46—"काचकृष्यन्तरे झिपवा ताककार्यं ततः क्रिपेत"
             "कासक या सर्व दीपतरं साहेन देहदेत।
              बवडा कासकीलेज रुवा सहयणेन च।
              कविका व स्वा केच्य सर्वत्राङ्ग्डमात्रकम् ।"
    P. 50-"पार्च परदन्यामां कान्तं टक्टवर्क क्रिपेत "
    P. 51-"तं बाढं सोधवेश्यबात चेतटक्रणकाचकैः"
    P. 55-"सीबीरं टक्क्ज कार्च दरवा दरवा धमेद स्टम्"
    P. 58—"क्लोरं बोच्येलबास्सितकाचेन टक्कीः"
    P. 64-"चेत्राचे ध्रोतकाले च टंक्न शंसपीयका"
         —''नेतार्थ क्षेत्रकालं व विवर्शेषवटकणम् ''
    P. 70-"तहरी: काचकप्यांत: क्षिपवा कृपीं स्वा विपेत्"
P. 72-''ट्रंडर्ज ओलकान्तं च दर्श्व दरवा निरोधयेत "
         -"कार्च टंक्नडं दरवा मुपायां चांधितं धमेत "
         -''सर्वं दिनत्रयं मधं काचकुर्यां निवेश्वयेत्।
            सम्बद्ध सहस्रक्षितायां सुशुष्कायां पचेत्रतः।
            सच्छित्रे वालुकायंत्रे कूच्यामारोपितं पचेत् "
   P. 73-"स्वांगवीतं समुद्राय स्कोटयेत्काचकृपिकाम् "
         —"सृष्टिशकाचकुर्यातः क्षिपवा तस्यो क्षिपेरपुनः"
        —"वृर्ववद् वासुकायंत्रे कृषिकामष्टवामकम "
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—"दिनमेरंदतैक्षेत्र मध्ये कृप्यां निवेशयेत् " P. 76-"स्वर्णेतुक्यं सितं काचं वयवा नृक्पालक्ष्य् " —"समुदुरय पुनर्देयं कास्त्रं वा नृड्पाल्डम् " P. 96-"पटें पार्व श्रदं काचकुर्यंतरे क्षिपेत् " P. 97-"किप्पना तत्र मुलं रुप्ता स्दा कूर्पी च क्षेपवेत " P. 98-"तरबोर्ट टंक्जै: काचै: सोधयेहै पमन्धमन् "

P. 104-"खुवमीनं पवलारं कास्विपण्याकस्राणम् " P. 106-"गृटिकां काञ्चकुप्यंतः क्षिण्या तां काञ्चकुपिकाम् " "सर्वतागुरुमानेन वस्त्रमृश्विदया लिपेत् "

P. 107-"स्वांगकीतं समुद्रत्य भिस्वा कूर्पी समाहरेत्" P. 125-"काचकुप्यां प्रयत्नेन गंधनामन्तिस्तिवयम् "

P. 129-" वयातः शुद्धसूतस्य काचकृष्यां गतस्य व" P. 143-"दिवित्वातम्खेः समं चान्याम्मदं रदम् । सर्ववेशिनमेकं त काचकुच्यां निवेशवेत्।

नरकेसैर्जुलं द्रव्या कृषिको छेपयेन्स्ट्रदा।"

P. 159-"विकियम्बानतः स्रीतं काचकप्यां सरक्षयेत् "

- P. 160-"वृत्तक्वंद्वयं तस्याः काखकृष्यां विविश्विषेत्" —"कावकृष्यां रिवतेत्रांवैः सर्वमेतःसुकोक्वेष्
- P. 161—"प्रोक्तानि रंगद्रक्यानि काचकूर्या पृषक् पृषक् ।
  स्त्रविश्वा प्रयत्नेन प्राप्ते कार्वे नियोजवेद् ॥"

  —"कानवान्त्रे नियताः श्लोरवाः क्रायार्था दिनमात्रकम्"
- काचपात्र स्थताः सार्थाः काचपा प्रभावन्यः

  P. 163- "कृश्वाय सण्डतः क्षिप्रवा काचकुर्या निरुप्य व ।
  वस्त्रक्षिक्या सम्यक् काचकुर्यो प्रष्टेरवेत्"
- P. 167—"तस्त्रीतलं काचणाचे क्रिपदा तस्योपरि क्रिपेत्"
- P. 10/—"तब्छीतल काचपात्र क्षिपदा तस्वापार क्षिपत्" P. 170—"मरवात्रे धारवेद धर्मे रम्वे वा काचमाजने"
- P. 173-"तत्तक्यं टंक्लं कालम्प्वीयस्तस्य वापवेत् "
- P. 175\_"क्लिक्शियाल अमेरवबात कान्यं कार्योगतः"

The foregoing wealth of references to www and its utensils such a stweets, summers amply show the wide-spread use 1 of www at the time when Nityanitha Siddha composed his Rasarataikara. The experiences "siddha experiences" (p. 73) and "fixert (we'll we'll" (p. 107) obviously refer to the breaking of glass-bottles. It is, therefore, reasonable to suppose that about the 13th century, if not earlier, glass apparatus was actually used in Indian Pharmaceutical preparations. If this suggestion is accepted, we have to prove whether these glass researches and the suppose that should be supposed to the suppose of the suppo

In another medical treatise called the unsuccities by Sarngadhara, son of Dāmodara (ed. Poona, 1917 with Marathi Trans. by Dr. P. L. Vaidya), who is supposed to belong to the 14th century, I find the following references to Sary exessle:—

In these references I don't find any mention of glass or qqu used for laboratory appearatus. Monoranjan Ghosh in his article on the Use of Game in Anieri India (pp. 194-201 of Jon. of Bahar and Orisine Res. Society, Vol. X) gives two quotations magging (Cal. 1885. by Kavistans and Gupte, pp. 346 and 39) referring to STRVINY in which food abough to prove the same of the province of the same and the same of the s

In the History of Aryan Medical Science (London, 1896) the Thakore Sahib of Gondal refers to the medical use of glass as follows:—

P. 65-"The use of Steel or glass vessels cures Chlorosis, jaundice, and intumesonce" (Utansils for food).

P. 136—Refiner are principal and Secondary. Among the Secondary Stones may be mentioned/ মুর্বভানে, ব্যাহত্যানে হৃদ্যতিভ (Crystal), ভাষ (glais) etc.

P. 114- As 研究程度 or substitutes for surgical instruments, may be employed shapp pieces of bamboo bark, or pointed crystal, glass or Kuroinda..

Pages 167-168-(Khanda II. chap. 12)

—"बारकुर्या निविधित हो व ब्रह्कहुरुगः॥ ६८॥ विधित्य वरितो क्ले हुम्मा स्वाप वर्णस्यः। यात्रः सम्बद्धारेशीन्ये कुर्यो विशेषसेयः॥ ६९॥ विद्यासहस्याहेर्यः च कुर्यिकायक्यः। विदेश पुरास हर्यः इत्याहीह क्लैः की :॥ ००॥ स्वाप्टेडीयमोतार्थात कर्याने गांव्य वर्णस्य

P. 179-"राव्हे बुम्बवे पात्रे कालुके वावचेद्ववेत् "

P. 199—"कासपांडे तत: स्वास्यां कासकर्ती निवेसयेत".

The foretoing references to "areascati", "agth", "aftwarman," ("and the procession of the procession o

The Raidrawa, a work on alchemy of the 12th century AD. according to Sir P. C. Ray who has edited it in the Bibliotheca Indica (Calcutta, 1910), contains the following references to STO:—

क्रच (A sort of salt called विद्व छवज) pp. 64, 66 etc.

काचिक = काव्यक. Excretion of mica mixed with saline earth Beng.

काञ्च्यी = Glass-bottle p. 184 :-

See p. 32 of Catalogue of Venetian Cains in Madras Govt. Museum by T. G Anymouthen, Madras, 1938. Possibly the glass apparatus used by Indians in their alghemy was of Venetian origin. Speaking of the Commercial intercourse between India and libri Mr. Arramouthan observes:—

<sup>&</sup>quot;The Ship in which Therenot embrated at Bases for the Indies in 1885 carried Some great Venction looking glasses". About 1875 glass was dear at Surst 'and sarresly purchaseable unless by may of Stamboul, or Constantinople, from the Ventions", through some oitiems had obtained from the Venctions 'Some passe of Painted dam in substitutions".

<sup>2.</sup> Wide p. 11 of Supplementary Calendar of India office Documents by Sir William Feeler, Indian 1824-Documen No. 40 dated in December 1926 is an Invoice of goods Sent to Abmodulubed which include Looking-glaim, Furniss glasses, glasses, Algenter the Federa state: "Surely to August contract to the Case", "Document No. 330 dated 220d System's 1926 from Sorate to Ajuncture control "the Silver Algenter the Federa state: "Surely to August control for Agent and the Caset", "Document No. 330 dated 220d System's 1936 from Sorate to Ajuncture control "the Silver of Caset and Cas

#### "तां हति पातवेत पाचे सीवीरटकणान्तिते ।

काचकुष्यास मध्ये तु सनैहं स्वापवेशिये ॥ १७३ ॥"

The above references have been recorded by Sir P. C. Ray in the glossary at the end of his Edition of रसामीच (Pages 12-13 of Index with glossary).

Yasodhara of Jirnagadha (Junāgadh), who is supposed to have lived in the 13th century A.D., composed his \*\*energame\*\* (ed. by J. K. Shastri, Gondal, 1940). In this work I find the following reference the state of the contract of the contr

Page 14-"अइमपात्रेऽथ लोहस्य पात्रे काखमधेऽयवा"

P. 18-"काचचूर्ण ततो द्रवा चान्धमृवागतं धमेत्"

P. 21—''तान्रेण रककाचेन रकसँधवकेन चः'
P. 28—"काचटक्रणभावितं तं च गोलकम्।''

P. 35—"एकैकेनीपधेनैवं कालकप्यां निवेशय"

P. 36—"मध्ये त काचघटिका सुरापूर्ण निवेशयेत"

P. 30—''मध्ये तु काचघाटका सुरापूणा निवसयत्' P. 39—''क्षिरकाचघटीविनिवेशितो

सिकतयंत्रवरेण हि दिनत्रयम्''
P. 40—''तदन काचार्जी विनिवेहय वै

P. 40—''तदनु काचघटा । बानवश्य व मिक्तयंत्रवरेण हि पाचितः''

—''तदनुसूतवरस्य तु कजली रुविस्कासगरे विनिवेशय ॥''

P. '2-"स्यालीमुखे चूर्णघटी निवेश्य"

P. 57-"सहवे इडतरं पिष्ट्वा काचकृष्यां निवेशयेत्"

P. 55 - "काचरंकणगुज्याज्यसारधैः शोधयेध्वलु"

P. 72—"संगाल्य यत्नतो वस्नात्स्थापवेत्कूपिकान्तरे"

P. 78-"ववाभा गृटिका कार्या शुप्का कुप्या निधाय च"

P. 82-"धटीमध्ये पयः क्षिपवा मुखे वस्त्रं प्रबंधयेत्"

P. 83-"विद्रतः पतते गंधी बिंदुशःकाचभाजने"

P. 96-"निर्भारं व पीतकाचाभियुक्त गोमेदं चेदीदशं नो वरिष्ठम्"

P. 109-"कृष्यां संविनिवेश्य चिक्रणमृदा संखेषितायो पचेत्"

P. 112—"सद्देमजेथ किल काचमये सुधार्यं सम्रासकासभववातकृतेतिसारे"

P. 114—"ग्रुडं विषं पलमितं रसमेक्काणं चूर्णीइतं तदनु काचराराष्ट्रिसम्" —"संवेक्सयेत्तरनु काचमये सुपात्रे" P. 116—"इत्वा क्लं कासकूयां निधाय वर्षि क्लाइएकाक्ये द्वियासम् "

P. 129-"इवैंडेन विवेश कजलिमं काचस्य कृप्यां क्षिपेत्"

P. 137-"कम्याद्वावैमंद्वेदेकवामं वृजं कृत्वा काचकृष्यां निवेश्य। कृषीं वापि प्रवेशिमगुवृजेमुंदां दरवा कोव्येत्तरप्रयानात''

P. 141-"पन्नारक्षेप्प काचकृत्यां समस्तं कृपीवक्त्रं ताम्रपत्रेण रूपात्"

P. 153-Chapter X (dealing with about 39 Yantras).

"बब बन्त्राणि वस्यभ्ते पारहो येन यन्त्र्यते ।

कृपीयम्त्रं राष्टिकास्यं दीपिकायम्त्रकं तथा"

P. 169—"प्रबाद् ६वे कासमये कृषे दात्रिशयामकम् । बालुकाप्रि प्रदश्यस्य स्रोगशीतं समुदरेत्।"

P. 175—"च्र्लं इत्वा निक्षिपेत्का चकूप्याम् वापुर्यान्ते से रतिः साक्ष्मेवा । "

P. 175-"कासकूयां क्षिपेःसर्वं कूपीं वालुकायम्बर्के "

P. 179—"कासक्यां निश्वायाय वृद्धि कुर्यारमयःनतः" —"बतसीतिकतैहेन कासकृष्यां निश्वाययेत्"

—"कृपीतलस्यितं सत्त्वं मार्कं केशवरं सदा"

P. 187—"क्यामारोपवेश्सर्व मुखं ताल्रेण रुंधवेत् ''
—"क्योम्ब्रे तु वहमं सन्तं माई प्रवश्नतः"

In the above extracts from Yaiodhara's ব্যৱহালয়খনত the reference to উফ or glass-vestel of different types are clearly indicated by the expressions and words like "কুণ্ডান্ত", "কুমান্ত", "কুমান্ত কুমান্ত", "কুমান্ত কুমান্ত", "কুমান্ত কুমান্ত", "কুমান্ত কুমান্ত", "কুমান্ত কুমান্ত কুম

In the expressions "sweep" (pp. 28, 65) and "sweep" (p. 18) see means "A sort of salt called 'fexeum' referred to by Sir P. C. Ray in his Glossary at the end of his Edition of Rasianasa. I cannot say if 'fexeum (p. 69) means "yellow glass" or some kind of salt like "fewer (in the vertex) explained by P. C. Ray as "Black Salt or sweepa"—p. 42 of glossary).

The Rassarana Samuccaya of Vāghhata, which P. C. Ray places "between the 11th and 14th centuries A.D." (vide p. 1i, of History of Hindu Chemistry, Vol. 1, Calcutta, 1902, Introduction) contains a chapter on the Laboratory or textient (Book VII). The apparatus apscified by Vāghhata includes "retorts made of glass" (p. 65) referred to in the following line:—

''কাআআইব্ধয়েলা কৃষিতা বৰ্তাদি ব''
(Vide p. 34 of extracts at the end of Ray's book).

In Book IX which deals with 4FRs or apparatus the 4FRS is described as follows:--

""INTERVENT (Sand bath): a glass fiast (wivered) with long neck containing mercurials is wrapped with several folds of cloth smeared with clay and then dried in the sun. The fiask is buried up to three-fourths of its length in sand and placed in an earthen por whilst snother pot is inverted over it, the rims of both being luted with clay. Heat is now spiled till a straw placed on its top gets burnt" (no. 69).

In a rare treatise on cosmetics and perfumery called the Gandhacoda with Marathi commentary represented by a single MS. in the
Raddi collection of the B. O. R. Institute, Poona, we find the following references to savgurg and savgues:

Folio 34—"काचकुपिये देवित्रे"

Fol. 40-"काचपादि"

In my paper on this work I have tried to prove that this treatise and its commentary may have been composed between A.D. 1350 and 1550

In the Dhātukalpa (from the Rudrayāmala tantra) dealing with Dhātus or metals I have traced some references to witw or glass vessels, These references are noted below from MS. No. 1145 of 1885—92 (υπιστευ υπρακη) in the Government MSS. Library at the B. O. R. Institute. Poona:—

This MS. begins :- "ॐ नमः शिवाय ॥ पार्वस्यवाच ॥

बयानंतर देवेश बृहि धातोत्र संस्कृति। वेज विचानमानेण साधवेजातमंत्रती॥ १॥"

The MS, ends on folio 90:-

"इति चीठत्यामले बनामहेचरसंवादे चातुकत्यं सुवर्णमसंता समाप्ता ॥ हुनमस्तु॥" भी देग्ये सम: (This is followed by a line in Persian).

The following references in this MS, would be found useful in determining the probable date of its composition:

Folio 5-"सोमरूं" (referred to as "विषं वातविनासवं").

Folio 8—The स्थानs or places which produce different metals are mentioned. Among these places we find "केडवेस", "किश्तराक्वेस" and "स्थानेस" and "स्थान्येस" (folio 11).

Folio 22—Use of a vessel from foreign country (ইটাজ) is referred to in the following line :--

"क्दाव्स्वरंदे कर्त्तां सामतं कारवेचादि ।

तदा सुरक्षेछवेदास्यं भांदं वक्कसैत्वर्वः॥ १२ ॥

<sup>1.</sup> Vide New Indian Antiquary, Vol. VII, pages 185-193.

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Folio 26—"कुहरि" or an earthen pot is referred to in the line
"उदायो कहरीमध्ये रसं तिष्ठति मध्यमं ॥ ७ ॥"
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(cf. "\$हविका" (fol. 37)

Folio 71—Pieces of paper (कायवस्य संकान्) are referred to in the following lines:—

"मध्यदेशे समा भूमि थोलथोटन कारवेत्। मध्ये तु दाववेश्वंदान् कागन्स्य ग्रुभोदितान्॥ २४॥ मायाव्यक्षं कृते ते च कागन्तेशास्त्रोकतः।

बाक्कोम्यंतरमे केचित् छेप्या सस्यारदायितं ॥ २५ ॥"

The word "smq" is used in a Marathi document of A.D. 1305 and in a MS. (half on palm-leaf and half on paper) of squadevalve dated A.D. 1396 (vide my paper on Migration of Paper etc. p. 215 of Paper making (1944).

Folio 23—''काचस्य संभूतत्रियामे इडसंभवे''

—''काचकुर्व्या प्रदातस्यं कमादक्षि प्रतापयेत् '' —''कर्व्यां स्कोटन निःकस्य प्रनः सस्ये निषापयेत ''

Folio 24-"वुनः कृष्यां प्रदातम्य रेणुयंत्रे निधापयेत् "

Folio 26—"गरिको कारवरवेव जिज्ञाकागळमध्यमा"

(Here शिक्षका is possibly a Glass bottle Cf. शिक्षा (Marathi) = glass bottle).

Folio 27-"तम्मध्ये दापयेत्कुर्वी (Sec "लोहश्चिष्ये" on folio 28)

Folio 29-अधानंतर बीरेण साधिता कटिकृपिका" --- "क्रिया रसवती इरवा स्वालिने कटिकपिका"

— "किया रसवता इत्या त्यालम काटकूरियका Folio 30—"क्तंस्वा केन कर्मेण लोहंत्रा कटिकपिका"

—"कटिक्पिकिया दिन्या" —"पर्ल सार्व समर्योदा तलस्ये कटिकपिका"

—"पेल साब सुमयादा तलस्य काटकापका Folio 35—"काचकव्ये प्रदातस्य विश्वनंतुक्रयंत्रमा"

Folio 52—"नीले काचोत्रवं शिक्ये दाववेद्यानवर्वकः

—"बासुकापंत्रमध्ये तु दापवेदिससिका श्रुभा"

—"बाबा कुर्फंच ते सर्व काचकृत्यां विनिश्चिषेत्"

Folio 55-"तत्सर्व रक्षयेत्पात्रे काचस्ये देवरूपिणं"

Folio 56—"द्विमुद्दर्श इठे वडी शिक्ष्ये वालुक्यंत्रने" Folio 57—"सम्बद्धतं सर्वे काचपात्रे निधापयेत "

—"नीलकाचोडवे कृष्या चोलवंत्रेण पाचवेत्"

Folio 58-"उक कासोजुदे पात्रे वालूर्यत्रे प्रपाचवेत् "

Folio 59-"काचपात्रे सुनाववेद " and "सुवाकिता व शिशिका"

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Falia 60-"विभाव्य पिंडीक्रतशब्दशीयाँ
            किश्चित्य शहे इतिकालपाने ।"
Folio 68-"पुनस्ते भावनादने काचकप्यां विनिश्चिपन "
Folio 74-" करिकचि (वि )का"
 Folio 75—"कटिक्पिका"
         —''तहोश्यो कटिकृप्यास्तु उन्नता संगुङद्वया
 Falia 77—"अतंत्रवा कटिकप्यस्ति"
          —' डाङ्गेत्कटिकर्पेण''
          -"अथवा कटिकूट्यी च जायते नात्र संशयः"
  Falia 78-"संक्षिप्येन सुवाते च रजः कृश्वा शनैः शनैः।
              जायते कटिकुर्यास्त् कोणत्रयसमन्त्रतः"
           -"विदे गोधुमने क्षिपदा रक्षिता कटिकपिका"
   Folio 82-"सहैवं वंचमं ते च मिलिते रसकपिकं"
   Folio 83—''साधवेद्रसकंपिका''
            - "जायते कंपिका दिव्या धनसामव्यदायका"
    Folio 84-"आयते निर्मलं स्वर्ण उदितं चैव क्रिके"
    Folio 86-"गालवेदारनपूर्वेण भर्तस्या कटिकृपिका"
    Folio 87—"वश्राले काचयरमेन पात्रेणीय ते दावयेत "
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—"दिहायों मध्ये के देवं तरेते स्वतीश्वाँ"
—"धायाद्वाध्येन संत्राते कासकृष्यों दिनिश्चित्र्"
In the above extracts the terms for glass-vessels are कास्कृती,
कासवात. The terms विश्वत्, तिराधित्र, तिराधित्र, mean "bottles", either of
glass or metal (cf.: "संदेशींगाई "on fol. 28). I have not excelly under-

stood the meanings of the terms "কহিত্বিকা", "কহিত্বিকাল, "কহিত্বিকাল

The references to  $K\bar{a}ca$  vessels made in several Sanskrit works from the 12th century to the end of the 17th century A.D., as recorded in the foregoing pages, raise the following questions:—

(1) Were these Kāca or glass-vessels manufactured in India or in foreign countries in commercial relations with India?

8.1.C.H. (vii).-7

<sup>1.</sup> Vide pp. 139-143 of Colcutta Oriental Journal, Vol. 1, 1934 (my article on the date of আনুৰ্বিশ্বনায় ).

(2) If these Kāca vessels were products of Indian glass industry, what were the centres of glass manufacture in India between say A.D. 1150 and 1700?

Presuming that these vessels were imported from foreign countries into India we have to examine the history of glass manufacture outside India. In this connection I have to note below some facts from the article on glass in the Encyclopaedia Britannica, vol. 10, 1929, no. 400 fi.:—

#### Antiquity and the Early Mediaeval Period :

- We cannot state with any certainty when and where glass was invented. Probably it originated in Egypt.
- (2) The invention of glass-blowing did not take place till about the beginning of the Christian Era in the time of the Emperor Augustus at Sidon, the Phoenician city.
- (3) Greece produced no glass.
- (4) There were glass-works in Italy, Spain, Portugal, France, Belgium and Rhineland from 2nd to 4th century A.D. producing glass of high artistic quality.
- (5) Glass works were introduced into Britain from Gaul.
- (6) All important technical processes of glass-manufacture were already mastered in antiquity.
- (7) Alexandria was the home of ancient artistic glass-work-the onyx glass with exquisite designs cut in relief.
- (8) In the 5th cent. A.D. a powerful artistic and technical decay set in the glass-works of Gaul, Germany and Britain.

#### Glass in the East :

- We know little of ancient glass-work in the East throughout the Middle Ages.
- (2) A few ornamented howls can be traced to Byzantine workahoos.
- (3) There are some specimens of early mediaeval Egyptian work during the 11th and 12th centuries.
- (4) Some glasses were taken to Europe during the crusades between 12th and 14th century. Most of them were made in Mesopotamia and Iraq.
- (5) The mosque lamps came from Syrian workshops of the 14th century—There are Persian designs (hunters, polo-players, musicians etc) on some pieces of glass.
- (6) Persia from the 16th to the 18th century produced peculiarly shaped pots and bottles of glass usually blue or green and these also influenced the glass-makers of Southern Spain.

#### Glass work in Europe :

- (1) Venica—The earliest knowledge of the Venetion plast dates as far back as the 11th cent. A.D. As early as A.D. 129 the glass ovens were removed to the island of Murano and penalities were provided for glass-workers taking the secret of the process abroad. The 16th century was the great period of Venetian glass, which reached technical and reliable periods on and had no coulai in the whole of the world.
- (2) In the 18th century the predominance of Venetian glass was destroyed by the Bohemian and Silesian cut-glass.
- From A.D. 1490 onwards colourless transparent glass predominates.
- (4) Glass-works on Venetian lines were founded all over Europe in the 16th and 17th centuries by renegade Venetian glassblowers, in 1550 at Antwerp, in 1662 at Brussels at Ansignatum (1597), at Vienna (as early as 1428), at Hall in Tirol (1534).

# Glass-work in Spain, France and Netherlands :

- (1) In Spain the principal centre was Almeria noted for its artistic glassware as early as the 13th century. Here we find a mingling of indegenous and Oriental motifs and ornament. In and around Barcelona in addition to native forms there was a marked Venetian influence.
- (2) In France the Italian glass-workers migrated as early as the 15th century. There were also native glass-works in Normandy and Lorraine.
- (3) In Netherland in the 16th and 17th centuries there were many glass-factories.

# English glass 1 :

- (1) Crystal glass, plate glass and bottlesare produced by British factories, but of these, crystal or flint-glass is best known.
- (2) Flint-glass was introduced about A.D. 1675. Before this time glass for table service had been made in England, but it was rately Venetian, light in weight and of fragile material, made by Italian glass-makers or their English pupils.
- (3) In A.D. 1570 Italian glass-makers appeared in London, and in 1575 Elizabeth granted a monopoly for Venetian glass to a Venetian Jacob Verzellini.

<sup>1.</sup> Care. Edward Alons in his. Numerica of Operations (London, 1741), 26st edecgo Buglish alessons in the Poson marktes as follows. "The City (Poson) is vary peall
to Buglish alessons in the state of 
- (4) In 1592 the glass monopoly was transferred to Sir Jeroms Bowes. About 1660 Italian glass-makers were brought over to London and with the belp of them George Ravenscroft evolved the famous fine-plass about 1675.
- (5) From about 1700 there followed a period of simple table-ware for about 25 years.
- (6) From 1747 to 1760 all kinds of glass were made simultaneously. First Glass Excise Act was passed in 1745 and the second in 1777, which taxed enamel glass, put the glasses out of use.
- (7) Glass-cutting was introdued about 1719 with the help of Bohemian glass-cutters. After 1750 the art of glass-cutting spread to other parts of the country.

It will be seen from the above notes on the history of glass-manufacture outside India and the references to the use of Kāca or glassvessels in Indian alchemy or pharmacy is almost simultaneous with the development of the Venetian glass centre from Ilth century onwards and the tremendous influence exercised by it on subsequent centres of glass-manufacture in Europe.

About the importation of foreign glass into India I have recorded already in this paper the following references:—

- Between A. D. 1563 and 1581 a Venetian merchant Caesar Fredricke travelled all the East Indies with a few glasses as his only stock.
- (2) In A.D. 1592 in the goods that came from Goathere were "Venice Glasses".
- (3) In A. D. 1616 the goods sent to Ahmedabad from Surat included "looking glasses, Venetian glasses, glass-bottles, window glass, etc.".
- (4) In A.D. 1616 (22nd September) there was "slow sale of their glass-ware" at Ajmere by reason of "a Venetian's store sold to Alsoph Chan" writes a factor from Surat.
- (5) In A.D. 1665 the ship in which Thevenot embarked at Bssra for the Indies carried "some great Venetian looking glasses".
- (6) In A.D. 1675 glass was dear at Surat "and scarcely purchaseable unless by way of Stamboul or Constantinople from the Venetians", though some citizens had from the Venetians "tome panes of painted plass in sash-windows".

These references clearly show the importation of foreign European glass into India from A.D. 1550 onwards. The present paper shows the use of Kāca or glass vessels in Indian pharmacy prior to A.D. 1550. It remains to be seen if glass-ware was imported into India

prior to A.D. 1550 from non-European centres of glass-manufacture viz. Byzantine, Egypt 1, Mesopotamia, Iraq, Syria and Persia.

In concluding these notes on the use of Kéta or glass vessels in Indian pharmacy between C. A. D. 1100 and 1800, I have to request other scholars to note all references to Kéta vessels prior to A.D. 1100 from Indian sources. No systematic exploitation of these sources have been carried out with a view to reconstructing the history of the Technical Arts and Sciences of Ancient India and consequently there is a complete gap in our knowledge of these arts and sciences, especially those for which no special Iteraties have come down to us.

Vide Technical Arts and Sciences of the Assients by Albert Neuburger (Bag. Trans. by Heary L. Brose, Methuen and Co. London, 1970). Pages 152-164 deal with Jages (Origin of Glass, Egyptian Glass Manufacture, Phoenicians se glass workers, the Greeks, the Glass-work of the Romans and Artificial Stones). The following points was be noted there from Neuburger's Chaster on Glass:—

<sup>(1)</sup> Pliny's mention that Phoenieians were inventors of Glass is incorrect. (2) Payotians made varied objects of glass for ornamental purposes. (3) An Experian bead of green glass found in a pre-historic grave is 5400 years old. (4) In the Berlin Museum there is a glass rod with the name Amenembat III (about 1830 B.C.). (5) In the Berlin Museum there are pieces of Glass from the Glass factory of Tel-el-Amerna (about 1370 B.C.) as also coloured glass sticks and vessels. (6) From 1st Cent. B.C. Coloured place went out of fashion. (7) The Glazier's art was at its Zenith in the neriod 1550-1200 B.C. (8) Scsostris had a Status cast in glass about 1663 B.C. (9) Glass-blowing was an invention of the Phoenicians made between 20 B.C. and 20A.D. et Sidon, (10) Phoenicians learnt glass, making from the Egyptians and anread it over the Orient. (11) The Egyptians produced glass-eyes for their mummies. (12) In Serie and Judges there was no glass-industry until the time of the Roman Runira (13) There is only one reference in the Bible to Glass (Job XXVIII, 17). (14) In Mesopotamia glass seems to have been imported. (15) It is doubtful whether glass was known in Greece between 450 and 385 a.c. (16) A year of potessium glass (of 1600 to 1200 s.c.) was discovered in Pylos in Greece. (17) Glass-work attained excellence among the Romans but their knowledge is of Egyptian origin,

<sup>——</sup>Some further references to encient glass may be recorded here:—Legon 5 gpp1 (ed. S. R. C. Glavelli, C. Orford, 94%) p. 12, 132-44, show Egyptian gainst \$2 gpp1 (ed. S. R. C. Glavelli, C. Orford, 94%) p. 12, 132-44, show Egyptian gainst his property of the state o

### 12. SOME NOTES ON THE INVENTION OF SPECTACLES AND THE HISTORY OF SPECTACLES IN INDIA RETWEEN A. D. 1500 & 1800 \*

Recently a friend of mine, who is interested in the cultural history of India, pressed me to write an article on the introduction of shectacles into India. I promised him to study this problem with a view to clearing up some wild notions about this problem which prevail even among learned men in this country, some of whom believe that our ancestors used some sort of spectacles to get over the deficiencies of eve-sight. In my search for facts bearing on the history of spectacles in India I began to study their history in foreign sources to enable me to give the proper historical perspective to the subject of my study as the use of spectacles is now current in all civilized nations of today. The reading habit of the average educated man in these nations has received added benefit from the use of spectacles, and last but not least the use of spectacles has enriched the eve-specialists, no less than their brothers, viz. the manufacturers of spectacles and the sellers of spectacles. In spite of the acknowledged benefit from the use of spectacles. a noor man in this country tries to post pone his visit to the eyespecialist and the optician as long as possible, as he cannot afford to nay their heavy charges. This is a sorry spectacle indeed !

Let me now begin my narration about the history of spectacles in general and of their history in India in particular :-

(1) In the Shorter Oxford English Dictionary (p. 1962) the word "Spectacle" is explained to mean "A device for assisting defective eye-sight or for protecting the eyes from dust, light, etc. consisting of two glass lenses set in a frame which is supported on the nose and frequently kept in place by 'legs' nassing over the ears."

The usages of this word and its derivations as recorded in this Dictionary are as follows :-

A. D. 1640-"Reading much, yet never used spectacles or other belp.

I this evening did buy me a pair of green spectacles."-Pepve'.

B. I. S. Mandal Quarterly, XXVIII, pp. 32-46.

1. In the Reader's Hand-book by E. C. Brewer, London, 1911, p. 824,we get the following note on Prpys's Diary :-"Perys died in 101, but his Diary was not published till 1825. It is in short-hand, and is a recordof his personal doings and sayings from January 1600 to May

- A. D. 1507—' Spectacled''.—Provided with or wearing Spectacles. It would appear from the above references that the use of spectacles had become current in England some time before A.D. 1600.
- (2) In the Supplementary Calendar of Documents in the India Office.

  (An.1600-1604) by Sir William Foster, London, 1928, we find many documents which specify the goods imported by the East India Company into India since the grant of the charter to the Company by Queen Elizabeth on 37st December 1600. From Document No. 259 [dated 23rd Pabruary 1616 we learn that William Biddulph was appointed by the Company to be the Chief of their factories at Agra and Ajmer. Ajmere was seat of the court at this time. In Document No. 330 dated 22rd September 1616 addressed to Biddulph by Kerridge, Barker and Mitt-ford at Surst, Biddulph is advised to consult Asia Khan as to the goods most likely to be in demand at the court, because Biddulph had reported in three earlier letters "the slow sale of their glass-ware, strong waters, Spectacles, prospective glasses etc. and depreated any further supply by reason of a Venetians Store sold to Alsoph Chan (Amf Khan)."
- It is clear from the above Document that Spectacles were introduced by the agents of the East India Company into Rajputana as early as A.D. 1616 within 16 years since the grant of the charter to this Company by Queen Elizabethon 371 December 1600. It is for Hindi stoblarator record any references to spectacles in Hindi literature in Jehangir's time. Some references to spectacles are likely to be found in Persian sources of this period and I trust that scholars conversant with these sources will record them, if they feel interested in the subject of the present study.
- (3) Before I record references to the use of Spectacles in Sanskrit and Marathi sources both before and after A. D. 1600, I would like to invite theattention of my readers to the following remarks of Dr. Albert Neuburger on pp. 163-164 of his "Technical Arts and Sciences of the Ancients" (Eng. Trans. by H. L. Brose, Methuen & Co., London, 1920):—
- In his account of the Glass-work of the Romans Neuburger observes :--
- "Specialist were not known in antiquity; indeed, the effects of concave and convex glass lenses had not apparently been observed or they were not made use of. The only report derived from antiquity concerning the use of an arrangement resembling specialist comes from Pliny who relates that Emperor Nero used a polished emerald to observe the contests of the gladiators. From this it has been concluded that Emperor Nero was short-sighted and that he used a sort of

logmon or monocle. "Lesses" which have been found (in the rulus of Tyre, a graws at Nola, Pompeii, Troy, and to forth) served as ornaments for leather beltsand similar objects but not as magnifying passes. On the other hand, the Greeks and Romans were familiar with the magnifying power of glass: "Spheres" (or globes filled with water, used by who-makers for concentrating the lamid. [ich: "

(4) There are references in Sanskrit literature to the Süryadana or Sun-attone, also called Süryamani (sun-gem) and Dipotpala (chining stone). The Sanskrit literature also refers to Candrakānta or Candranapior moon-atone or moon-gem. The Süryakānta is also called Agninami (see Apt'e Sictionary). Kālidās refers to the Süryakānta is also man the following stanza in his drama Sākuntala (Act II, verse 41 on. 74 of Monier Williami, 76 tition. Oxford. 1876):—

"समयपानेषु करोपनेषु गृर्व हि बाहारमकमस्ति क्षेत्रः। रक्षांनुकुका हव सूर्यकान्ता-सम्बन्धनेत्रोऽसम्बनसम्बन्धः। ४२॥॥

Monier Williams translates the above stanza as follows :-

"In sacetics with whom quietism is predominant there lies concealed a consuming energy (fire). That (energy) like sum-crystals, grateful (cool) to the touch, they put forth from the opposing influence of other forces."

Monier Williams observes: — A crystal lens (1617 yakhnta), however, cool to the touch nite natural state will emit a burning heat, when acted upon by the rays of the sun...... It may be gathered from this passage that its (of sun-stone), properties resembled those of a glass lens, which instrument may possibly have been known to the Hindus at the time when this play was written. The following parallel sentiment is from Bharthari ii. 30:—

" बद्चेतनोऽपि पादैः स्पृष्टः प्रज्वलति सवितुरिनकान्तः ! तचेत्रस्वी पुरुषः परकृत-निकृतं कयं सहते॥"

(Translation: - "Since even the lifeless (store) beloved of the sum, when touched by its rays, burns; how then can the man of spirit put up with an injury inflicted by another?"!

We may compare the use of the sunstone for concentrating sun's rays (to a burning heat) to the use of glass globes filled with water"

<sup>1.</sup> I may note here the following verses about the Süryukánta and Somakánta stoma recorded in মুলাছিলংকাল্যভালান (N. S. Press, Bombay, 1911, page 224) compiled by R. P. Parbi :—

used by Roman and Greek shoe-makers for concentrating the lamp-

In the Attangahrdaya of Vagbhata II (8th or 9th century A.D.) verse 42 of Chapter 30 of sutrasthana refers to सूर्यकीत :-

" स्वग्दाहोवर्तिगोदस्तसर्यकारतवारादिभिः॥ "

Here स्पेकील is mentioned as means for producing ज्यादा or heating of the skin for therapeutic purposes. Hemādri explains स्पेकील as

In the लगालहर्यकोश (by K. M. Vaidya, Trichur, 1936) the following verses about सर्वकाल are recorded :—

(1) Anonymous:-

... " शुद्धःस्निःधो निर्वतो निस्तुपोग्तः योनिष्टो स्योमनैर्मस्यमेति।

यः सूर्योग्रस्पर्शनिष्ट्यतविहः जात्यः सोवं इत्यते सूर्यकान्तः ॥"

(2) Rajanighantu of Narahari (c. A. p. 14:0) :-

" वय भवति सूर्यकान्तस्तपनमणिस्तपनव रविकाश्तः। वीमोपलोऽप्रियमौ उन्तलनाइमाऽकोपलव वसनामा॥"

गुणाः--सूर्यकास्तो भवेदुक्जो निर्मेटब्र रसावनः। वातश्रेपमहरो मेश्यः यजनाववितरिदः॥"

"सोमकान्तो मणिः स्वच्यः सर्वकान्तस्तवा न किम्।

नद्वारे तु विशेषोऽस्ति तयोरमृतवह्नयः ॥६६॥ म्रपाकरकरस्वादि हिर्देवति सर्वतः।

वंदकान्तमणेस्तेन मृदुलं लोकविधृतम् ॥६७॥

सूर्यकात is called " आमेयप्रावा" (Fire-stone) in the following lines on p. 82.

" मयुक्तैरश्रान्तं तपति यदि देशे दिनकरः ।

किमामेयप्राचा निकृत इब तेशंति बमति ॥२०॥ "

 Hemsenodra in his Abhidhan-Cintimage refers to सूर्यकात in the सूमिकाण्य (Vetse 133-"। सूर्यकारतः सूर्यमाल: सुर्वात्ता रहेनोरतः)
 He mentions the following classification of स्कृटिक according to व्यायस्थितः —



Though the use of the Surva-Kanta for concentrating sun's mys for producing fire or heat for therapeutic purposes is clear from the above texts, one cannot get a comprehensive idea about its use by our ancestors, unless one puts together representative references to it from Sanakrit and non-Sanakrit sources. The Sūrva-Kānta does not appear to me to be a fabulous stone as some scholars believe though fabulous properties may have been ascribed to it. If this view is accepted we have to inquire if any specimens of the Surva-Kanta have been discovered by archaeologists in Indian excavations. The study of the Surva-Kanta is allied to the study of crystal or glass beads which are occasionally found in large numbers in some of the archeological excavations of ancient sites and I strongly hope that some scholar will undertake a quest for the Surva-Kanta with a view to correlating the literary evidence about it with the archæological evidence, if any, based on an examination of the ancient crystal heads solerical or otherwise

(5) I have already recorded evidence to prove the importation and alse of foreign apectacles at Aimer in Rajputans in A. D. 1616, by the agents of the East India Company. Let us now see if Spectacles were introduced into India prier to A. D. 1616. In this connection I record the following evidence which clearly proves the use of spectacles at Vijayanagar 100 years earlier than A. D. 1616, when foreign aspectacles were sold at Aimer:—

Somanitha Kavi was a contemporary of Vyázaráya the great Madhra pontifi (h. 1444-1539). Somanitha composed a biography of Vyňaráya called the Vyázaya-i-Carist celited by B. Venkoba Rao, M. Bangalore, 1526). In his very learned and critical Introduction, (p. CXX) Mr. Venkoba Rao refers to the use of "xvel-writes" by Vyázarfya for manufaria ya manuscript about A. D. 1520:—

"When at the time of the abhighen in about 1520 A. D., as will be shown later, Srt Vyšasrāya entered Srt Rypadevarāyu's court he was an old man. He must have been 74 then. Somaniths describes that Srt Vyšasrāya then was looking at the lines of a book and wore spectacles, from which great age could be inferred, 'meaning that otherwise he was atmore for his age:—

- " इस्तम्हम्बुरचोरिक्शयासिय पुरतकविमागरेसाया निमृतिविक्षसच्छ्रवं नासिक-नाकमागरिकिकिनेद नयमयुगक्षेन स्वच्छतरोयकोचनगोळकेन अनुस्थितवार्घकद्शातिकवं॥ (See p. 72 of Vyāsayogicarsta)'.
- I am very much indebted to my friend and neighbour Mr. S. T. Pappu, n.a., for drawing my attention to the reference to the use of aqca) aqr by Υγρίαστέγα and take this coportunity of thanking him for his great interest in this problem.

In the above Sanakrit passage we have the earliest mention of the und Spectceller at Visiyanagar Court about A. D. 1520. The term with the size at Visiyanagar court about A. D. 1520. The term connect eye-elisases. There is no word for "Spectacles" with onnect eye-elisases. There is no word for "Spectacles" assaukrit as spectacles as such were unknown in India prior to the Portuguese contect. We can postulate this tentative 'conclusion till some scholar points out a reference to the use of "Spectacles" prior to say A. D. 1400.

As regards the question about the source of the spectacles (TWOWN sizes) used by Visiariya about A.D. 7520 II may suggest that they were perhaps presented to this influential pontiff by the Portuguese along with numerous other presents which are referred to by Somanitha in the following extract on p. 65 of the warenfruêtes (See p.LXVI of Venbak Rao's Introduction):

"59. The Portuguese knew Srī Vyāsarāya very well. Their ambassadors and principal men appeared before Srī Vyāsarāya with presents many times."

क्षीक्षांतरमूपालसंत्रेविजनभा नपुरुपैरसङ्गत् समर्प्यमाणानि बहुविघोपहारपुरनानि च " (a. 65.)

In view of the above direct contact of Vyāsarāya with the Portuguese, we may be justified in presuming that the spectacles used by Vyāsarāya were imported into India by the Portuguese about A.D. 1520, if not a few years earlier.

(6) We are now in a position to consider the origin and history of spectacles in Europe as recorded in the Encyclopadia Britannica (14th Edition, Vol. 13, p. 920). The following points from this account are noteworth:—

- (i) Pliny and others refer to glass spheres filled with water, used as burning glasses.
- (ii) E. Wilde (Geschichte der Optik, 1838-43) denies all knowledge of spectacle lenses to the ancients.
- (iii) The first authentic mention of lenses is that by Meissner (A. D. 1260-80) who expressly states that old people derive advantage from spectacles.
- (iv) Nicolas Bullet, a priest, in A. D. 1282 used spectacles in signing an agreement.
- (v) The first picture in which spectacles are shown is of A. D. 1360 in Church of San Nicolo in Treviso.
- (vi) In a Sermon on 23rd February, 1305 Giordino da Rivalto stated that it was only twenty years since the art of making spectacles was discovered."

- (vii) The use of spectacles dates from a little prior to A.D.
- (viii) Processes of making lenses were in use about A. D. 1585.

If spectacles originated about a. D. 1250 in Europe and were in use there since this time, we can easily account for the use of spectacles by Vyšasrky at Vijayanggar about a. D. 1520 as he was in contact with the Portuguese, who must have presented these spectacles to this guru of Kranadevardw as a novelty from Europe.

(7) I have already recorded evidence to prove the sale of foreign "apertacles" at A jmer in A.D. 1616 and the use of "Upalocane-golden" (spectacles) at Vijayanagar about A. D. 7520. I shall now record some evidence from the Marathi literature to prove the use of spectacles in the Deccan in the 17th Century.

At present the name winefi is current for "spectacles" in the Marathi language. In the Marathi Dictionary viz. Sabdahota (by Date and Karve, p. 1180) this word is explained as follows:—

चाळसी-ची, चाळिसी-ची—(1) Weakness of eyesight developed at the age of forty.

- (2) Age of 40 years.
- (3) Tem or spectacles.

Usage:—Saint Rāmadāsa (A. D. 1608-1682) refers! to पाळली in his Dāsabodha, Dašaka 3, Samāsa 6 as follows:—

> " नेत्री होति राज्यवाहिया। साजसी लागे प्रक्रिया।

या नीव बार्यासिक ॥ १९॥"

We have no means of knowing what kinds of spectacles (or manh) were known to Saint Rämsdiss in the 17th Century. Elsewhere in the Databedha i.e. in his section कियादिवापिकराण (Databa 19, Samäss 1) he instructs us to write manuscripts in middle-sized characters because manuscripts written in every small characters in one's youth will be of no use to one, in old age (owing to weak eye-sight developed with the advance of rears).

If spectacles were available in Rāmadāsa's time, why should be ask us to write in middle-sized characters? Perhaps the spectacles of his age were not of the perfect variety to suit all kinds of short sight.

- 1. See p. 49 of रामदास समझमेष, Poons, 1906.
- 2. Ibid, p. 291-

"बहु बारीक तरुगपणी । कामा नये म्हातारपणी ।

मण्यम तिक्ष्याची घरणी । केती पाहिजे ॥१०॥"

(8) Corresponding to the expression "वरणेषणीएख" (spectacles) used by Somaniths Kavi about a. D. 1520 we have the term "अर्थ" now current in the Deccan. This term for "spectacles" was also current in the 17th and 18th Centuries as will be seen from the following quotations recorded in the Sabdabala (n. 1939).

The Marathi poet Vāmanafaņdita (A. p. 1636-1695) states that "the spectacles can see what the eyes cannot see."

## "केंन देखती नेत्र। तें देखती उपनेत्र" —(यदार्थदीपिका ४.३३२)

Another Marathi poet Moropant (A. D. 1729-1794) refers to उपनेत्र (spectacles) in the following line:—

'' होय भला इष्टार्थप्रह उपनेजिब की भला बुबळे।"

In our search for the history of spectacles in India we have recorded references between A.D. 1:00 std 1800. Any scholar can supplement these references by seconding more seferences from the sources studied by him.

(9) In a recent book "Feathers and Stones" by Pattabhi Sitaramayn (Padma Publications, Bombay, 1546) the following remarks' about thectacles are recorded:—

"Rolled-gold spectacles and multi-coloured vulcanite or ebonite firmes are the modern reminders of Preshypia and also Myopia, and not seldom of modern artistic taste claimed by the eyes and the nose and through them the face. But Preshypia is as ancient as man. Our elders had excellent pebbles cut into double convex lenses to serve the long sight that people generally suffer from after forty. In Mabarshira it is known as Chalensi (40) and the Uris Chalesia (40). In Gujarati it is known as 'Betalan' (42) and in Andhrs Chatsear (4th decade)."

Though Preshpopia or Myopia may be as ancient as man it is doubtful whether in the history of any country of the world the use of spectacles in any form was known prior to their discovery in Europe about A.D. 1250. I would be extremely glad if any scholar brings to light any conclusive evidence to provide the use of spectacles in India prior to about A.D. 1400.

<sup>1.</sup> I am thankful to Mr. S. N. Savadi, B A. (Hons.), my Senior Cataloguing Assistant at the B. O. R. Institute, for drawing my attention to these remarks.

<sup>2.</sup> Preibyepia : Long-sightedness due to old age,

<sup>3.</sup> Myobia: Short-sightedness.

(10) In the Imperial Gazetteer of India, Vol. XIII, p. 462 the manufacture of spectacles from quartz crystals is referred to as follows:

"Vallam Vadākusetti, Town in Tanjore Taluka, 7 miles from Tanjore,—Captured by the British under Joseph Smith in 1771—"The quartz crystals (pebbles) found here are made into spectacles of which the natives think highly."

This is really an indigenous manufacture of spectacles in India current about A. D. 1886 when the Imperial Gazetteer was published but what is the history of this manufacture? I hope some South Indias scholar will enlighten me on this point.

- (11) In the India Office Document of A. D. 1616 mentioned by me at the beginning of this paper reference is made to "prospective elasses" sold at Aimer by the agents of the East India Company. In the Peshwa Daftar selection No. 34, Letter No. 110, dated about A.D. 1733 there is a reference "वबीन नलां" or telescope used for naval reconnoitring. In P. D. selection No. 32 there are references to telescopes, watches, cups and saucers and other fancy articles imported from Europe. P. D. 32 (Letter 106) refers to a crude photographic camera bought from the English ("सावली पाइन तसबीर कादावयाची पेटी tumetie"). Letter No. 105 dated 5-4-1773 refers to "gala" or telescope. Letter No. 74 of 19-12-1766 refers to the use of a small telescope (दर्बीन छहान ) by the Peshwa. All these references prove the importation of European articles in which lenses were used from A.D. 1600 onwards. These references together with the reference to spectacles about A.D. 1520 by Somanatha at Vijayanagar leads me to conclude that spectscles were unknown in India before the Portuguese advent in the 15th century
- (12) In the *History of Medicine* by Douglas Guthrie (Thomas Nelson and Sons, London etc. 1946) we get the following information about "nectaclet":
  - Page 114—Bernard de Gordon (c. 1285), another student or teacher of Montpellier, contributed to the garden of medicine by writing the Lilium Medicine, which still exists in rare manuscript form. It contains the first description of a truss and the first mention of spectacles. Some historians have presumed, on account of his name, that Bernard was a Sox but it is now generally believed that he was a mative of the French Town of Gourdon' (See L. Thorndike, A. History of Magic and Experimental Science, 6 Vols. New York, 1923-1941; Vol. ii. p. 483).

## Page 121-Roger Bacon (1214-94).

""......" Being a man of means he was able to spend large sums of money on experiments, and he has been credited, rightly or wrongly, with the invention of the telescope, the microscope the diving bell, spectacles and gunpouder, and with the forestelling of aviation and mechanical transport." (See R. Steele "Roger Bacon and the state of Science in the Thirteenth century in Singer's studies in History and Method of Science" 1921, Vol. ii., 733.

Pages 188-189—"The Early Microscopists—The microscope, which enabled Malpighi to complete the work of Harvey, when we have ancients, although the evidence is inconclusive. In its earliest form it consisted of a simple bi-convex lens. Roger Bacon first suggested the use of lense as specialcements. Bacon facts suggested the use of lense as specialcements, and a simple lens was used by Malpighi and also by Loeuwenhock. It was Zacharias Jansen a specialcemaker of Middelburg in Holland, who, about the year 1609 accidentally discovered the principle of the telescope and microscope by placing two lenses together in a tube. Galileo turned this invention to practical use, but the instrument remained merely a top for some years."

- (13) In November 1946 I had some correspondence about the history of spectacles with my friend Mr. A. N. Gulati, M.Sc. of the Technological Laboratory (Matunga, Bombay). I record here gratefully the following notes from Mr. Gulatia letters:—
  - Dr. G. M. Findlay has published an article on "the Debt of Medicine to Microscopy" in the Journal of the Royal Microscopical Society, March and June 1940, pp. 36-40. Dr. Findlay's observations are as follows:—
    - (a) "Lenses were first used even if they were not primarily invented. for a purely medical purpose—to overcome myopia.
    - (b) Roger Bacon (A. D. 1214-94) suggested the useof such glasser for aiding defective vision. His suggestion was quickly put into effect for Bernard de Gordon during his residence as a physician at Montpellier from 1285-1367 refers to Spectacles as aculus brellinus.
      - Findlay refers to magnifying segments of glass spheres which were known to Arabian Physicist Alhazan of Basra (965-1038 A.D.)
      - (11) In an article entitled "Our Racial Superiority" by Ethel J. Alpenfel published in the Reader's Digest (September 1946) the author quotes T. T. Waterman (Essays on Anthropology,

University of California Press, 1936) as having pointed out that we are indebted to the Chinese for spectacles too among thing like porcelain, gan-powder, printing press, marine's compass and paper money.

- (III) Sensea, the tutor of Nero, the Roman Emperor knew the magnifying power of hollow glass-sphere filled with water.
- (IV) The earliest lens found so far is from the ruins of the Palace of Nimrod of the City of Babel.
- (14) Another friend Dr. H. Goetz, Curator, Baroda Museum and Ficture Gallery reported to me on 10.11-196 that in the Jahangir Albam published by Dr. Goetz and Dr. Kuhnel, an artist of Albar's later raign is reproduced searing specialets. Subsequently on 23.11-1346 Dr. Goetz not only for the trouble taken by him in this matter but also for his appreciation of many of my research papers bearing on the history of Indian culture and allied subjects.

## is, History of Tin-Coating of Metallic Utensils in India

( Between A. D. 1300 and 1900 )\*

Side by side with my studies in Indian dietetics I have been trying to study the history of Indian cooking utensils and other domestic restels used in Indian homes. In this connection I was told by many friends that the practice of tin-coating (kalhar) of copper and brassessels are subject to chemical action caused by sour or acid food placed in them. This action is lessened, if not prevented, by the throating applied to the vessels. Persons who have made tin-coating a profession are called Kalhariwallas. Some of these have regular shops in cities, while others move about from house to house, doing the work of the coating on the spot with the help of instruments and materials which they carry with them. The rate for tinning vessels of ordinary size is generally quoted for 100 vessels of assorted size.

I have not come across any Sanskrit word for kalhai but Prof. K. P. Kulkarni in his Marathi Etymological Dictionary (Marathi Vyutpattkoia, Bombay, 1946) p. 146 makes the following entry about kalhai --kalhai = kathiiā-ā mulāmā etc

-Tinning, the wash of tin given to culinary utensils.

Can any Sanskrit or Prakrit scholar prove historically the connection of the Arabic Kalhai with Sanskrit kaladhauta and Prakrit Kalahoya as suggested by Prof. Kulkarni? On p. 133 of his Dictionary, Prof. Kulkarni makes another entry for kathii (= Tin).

The Marathi Dictionary Sabdakoja by Date and Karve (p. 629 of Vol. II) derives the word kalhai from Arabic kalhai = Kathil and records a usage of the word from Rajwade's Sources of Maratha History (in Marathi) Rhanda 12, No. 142.

In this usage the word Kalhai does not mean tin-coating but the coating of mercury (pārā) applied to mirrors. The Sabdakola records the words: Kalhaikar or Kalhaigār for persons who carry on the

<sup>•</sup> Prof. C. S. Srinicatachari 61st Birthdax Celebration Volume, pp. 93-97.
1. The Bombay Gaa-ttere contains notes on halaiger, a caste of Muslim tin.amiths, in the districts of Ahmadangar, Poona, Satara, Sholapur, Belgaum, Dharwar, Bijapur and Nasik—See Index to the Bombay Gaatteer. Bombay 1904 (p. 180).

In the stricle on Calsy in the Habson-Johan (by Yule and Burnell, London, 1901, pages 145.146) there are references to Tis from c.a.D. 92t to 1795 but they don't mention tin.coating. The names for Tin mentioned in these references are:—al-baist, colum, palaps, caleys, cales, cales, college, colais, balls, calis.

profession of tin-coating of domestic utensils. It also records the word bathil (p. 572) and connects it with Sanskrit Kastira and Apabhrands Katthila (= Kalbil).

The Rājadharmakola (C.A.D. 1676) (Poona, 1880) records the words kathila and kalbaltara as follows:—

Page 5-kathilam vangamucvate

Page 31-kalhaikarah Sisakaro (61. 378).

I cannot say why kalbalkara is called sleakara in the above line. Perhaps the Kalbalvalas of Shivaji's time not only practised the art of time conting but of lead-contine also.

The lexicon Pārasibhāṇānstāsana (a lexicon of Persian terms) of Vikramasimha (Bsfore Samera 1600, i.e. a.d. 1544, according to the editor Dr. Banarasidas Jain) was published in 1545. In this lexicon I find the word kalaiya (tin) mentioned in verse 4 of Prakarapa II (Page 13).

This is the earliest reference to the word halaiya traced by me in Indian sources. However the word means tin and not tin-coating with the history of which I am concerned in this naper.

The reference to "Kalhaikara" (the person who practised the art of tin-costing) in the Kājarysenāhraksia proves clearly how tin-costing had become current in India in the 17th century. To support this conclusion we get the following additional evidence of Sanskrit and non-Sanskrit sources.—

The Sinotatinerstanklers, an encyclopsedic cultural Sanskrit metrical work by Keladi Basava, king of Ikkeri (a.D. 1698-1715), was published by B. M. Nath & Co. at Madras in 1927. This work mentions "Kallaya-lepa" or tin-coating in the chapter on supatiativa (cookery)— Kallade FJ. Tarashus 18. Versi 13:—

Page 235-Kalāva-lepite pātre etc.

The use of a utensil with tin-coating for cooking purposes is clearly laid down in this verse. The word "Kalaya" used in the verse is not a Sanskrit word but it is an Arabic word for tin slightly Sanskritized by Keladi Basaya.

The Hindi poet Sürdäs refers to Kalaī as I am informed by my lightly triend Dr. Siddheswar Varma\* of Nagpur in his letter of 26-8-49 which reads as follows:—

The Marchi por Moropani (a.p. 11.8-139) mentions hathil in his Bhimoparia.
11-47 (caused on p. 572 of Sabda-Reis by Drag and Karre, Poons, Vol. II, 1933).

"Regarding Kalhal the only material immediately available is a line from Sürdüs, quoted by Hinds Sabda Sügar, Vol. I (1916), sub voce kalat. The line stands as follows:—

"Ai udhari priţı kalai etc."

The lexicon renders kalai as rangā which Bhargava's Standard Illustrated Dictionary of the Hindee language renders as "tin", while it renders kalai as thin coat of tin on an object."

Abul Fazl makes detailed remarks in his Ātin-i-Akbari(c.A.D. 1890) on the kitchen of Emperor Akbar (pages 49-51 of Gladesin's Eng. Transl. Vol. 1, Calcutta, 1897). Food was served at Akbar's tuble in dishes of gold, silteer, stone, capper and china. Tin-casting of copper unensils in the kitchen is referred to in the following concluding pers of the remarks on the kitchen (p. 51):—

"The copper utensils for His Majesty's use are tinned twice in a month and those of the princes and the Harem only once in that time, Whatever copper utensils are broken, are given to the braziers, who make new ones."

- In the seventeenth century the East India Company carried on regular sale of tin through their agents in India as vouched by the following contemporary references:—
  - John Marshall in India (A.D. 1668-1672) Oxford, 1927, p. 22— "selling of a consignment of tin.
  - (2) Supplementary Calondar to India Office Documents by Sir William Foster (A.D. 1600-1640), London 1928.
    December 1614—Notes on the trade at Surat—commodities in demand include "guns (a few tin)" etc.
  - P. 69-A.D. 1616-Tin a profitable commodity.
  - P. 141-tin taken to Peraia.
  - P. 104-A.D. 1616-tin of Pilak (Perak) better than English ton.

In the seventeenth century a vast quantity of English tin was consumed in parts of Asia and also Persia and Arabia, where tin-coating of dishes was current as youched by Tavernier in the following extract:—

"The money of the king of Cheda (a port upon the Malaya coast, 45 miles south of Junk Seilon) and Pera. This money is of tim..... Formerly the English brought it (tim) out of England and furnished great part of Asia where they consumed a vast quantity; they carried it also into Persia and Arabia; for all their dishes are of copper, which

<sup>4.</sup> I take this opportunity for expressing my deep sense of gratitude to Dr. Varma not only for this reference but for his constant and prompt replies to my quarias pertaining to my studiets.

they cause to be tinned every month." [This extract is quoted in footnote 3 on p. 281 of Countries round Bay of Bengal (a.D. 1679) by Thomas Bowrey (Hakluyt Society, Cambridge, 1905)—Tavernier, Vol. 1 Part ii, p. 6].

Tavernier further refers to the use of tin for tinning cooking uteasils, etc., in the following extract on pages 162-163 of his Trovels (Vol. II, London, 1889, Chap. XXV):—

"Some years ago very rich mines of tin were discovered at Delegors, Sangors, Bordslom, and Bata; this has done some injury to the English, because there is no longer need of their tin as formerly, sufficient being now produced in Asia. Tin is only used in this country to the cooling both, stelles, and other cooler utensils."

In our search for the history of tim-coating in India we have gone up to about An. 1500 on the strength of literary evidence recorded above. This literary evidence is further corroborated by archaeological swience, vis., the discovery of a capper container with tim-coating both on its interior and exterior found at Kolhapur (in the excavations at PAMmappers). I am thankful to my friends Dr. H. D. Sankalis and Dr. M. G. Dikshit for drawing my attention to this tinned container. Dr. M. G. Dikshit, Curator of the Deccan College Post-Graduate and Research Institute, sent to me on 26th September 1949 the following porticulars about the tinsed container.

(1) A photograph of (A) a copper bowl and (B) a copper container... The copper bowl is not tinned but the copper container has a coating of tin both on its interior and exterior.

(2) According to Dr. Dikshit both the above vessels are associated with Bahmani coins and therefore, belong to the Bahmani period (a.n. 1347-1500).

(3) The tinned copper container has been described on p. 7 of the Marathi Guide to the excavated Finds from Brahmapuri, an exhibition of which was held at the Deccan College Research Institute on 25th January 1948.

The foregoing archaeological evidence is very important for the present inquirys at itakes the history of tin-conting of copper useasile in India up to C.A.D. 1300. The practice of giving a sin-coating to both the interior and exterior of a copper or a brass vessel is typically a Muslim practice current even to-day. Non-Muslims, however, and especially the Hindous, give tim-coating only to the interior of a vessel, perhaps on economic grounds. The use of solid tin-vessels (instead of cia-coated vessels) now current in some parts of India appears to have been current in India prior to the advent of the practice of tin-coating order to the theory of the coated was from the Muslims. This oresumpton is warranted by the

following reference to dining-plates of gold, rilver, copper, bronze, clay, tis and lead quoted from Bodhāyana by Vidyāraņya or Sāyaņa (c.A.D. 1375):—

Vidyāranya quotes the following verses from Bodhāyana in his Jicanmuktiviceka (Vidvatsamnydsa prakarana) — p. 159 of Adyar Edition. 1935. with English translation:—

"Svayamāhṛtaparṇeṣu...... .....trapu-sīsayoḥ" (Eng. Translation on p. 216)—

"He fascetic) should eat on leaves plucked with his own hands or sere ones shed of their own accord, but never use the leaf of the Banyan or the holy fig or the karañja. Even when reduced to the narrowest statist should he never eat off a former plate—for, one esting off a braze plate verily eats filth, nor off a plate of gold, nilver, copper, clay, visual rad,—"

If the above quotation is traced in the works of Bodhlyons (C. 250 AC.), the author of the Dharmastira which goes by his name, the antiquity of solid tin-vessels for more than 2000 years would be conclusively proved. As the quotation stands at present it is earlier than An. 1300, i.e. prior to the history of tin-coating recorded in this paper, A study of the antiquity of grapp (tin) and its several uses in Indian cultural history needs to be undertaken by some scholar interested in the nonliem.

In concluding this paper I have to request my readers to record some references to tin-coating in Sanskrit and non-Sanskrit sources prior to A.D. 1300. In this connection I record most gratefully the remarks of my friend Shri K. N. Dave of Nagpur communicated to me on 318-1994 brough Dr. S. Varma:—

"Although iin (= trophs) was known to Atharvaveda\* I have not come across its use for tinning copper of brass pots. On the other hand in the Mānasollāss (c.a.b. 1130), Vol. 2, pp. 116 and 131 refer to gain and meat being cooked in plain copper pans (trhātī). Evidently the art of tinning was introduced into India by the Muslims. I know of no Sanskrit or Hindi word for the process of tinning pots and pans. Hindi "Kalai Karnā" is clearly from Arabic "Calai".

<sup>5.</sup> Sir P. C. Ray in his History of Hisda Chemistry, Vol. 1 (Calonta 1902), p. 8, points out the metals mentioned in the White Tegimeds (XVIII, 13), viz. invol. 19, 8, points out the metal mentioned in the Chindegro Uposised (iv, 17. A), viz. glid, aliver, TIN (repsp.), gold and silver and in the Chindegro Uposised (iv, 17. A), viz. and use of its (p. 24), as also Vighbars (p. 30). The Radrygue and the Ramoratea-nessays also deal with firs (p. 46, 62).

# 14. THE MOSQUITO-NET IN EGYPT (c. B. c. 500) AND THE MOSQUITO-CURTAIN IN INDIA (BETWEEN B. C. 500 & A. D. 1800 )\*

In the Bodhdyam-Dharmasitra, which is assigned by Prof. P.V. Kane to the period—500 s.c. to 200 s.c., rules for the life of a odna-prastha are laid down. One of these rules prescribes that he should sail fill pasts or masquitose (dashia. maishah). This statement clearly proves not only the existence of grants or masquitoses in Indian forests 2500 years ago but also the dominance of the doctrine of non-violence (ashiash) that was being develoced into a fine art at that early veriod.

Apart from the violent way of dealing with the mosquitoes there is also a non-violent way, viz. the use of the mosquito-curtain, as we use it to-day. Whether such a contrivance was used by ancient Indians in the time of Bodhiyana to protect themselves against the bites of mosquitoes remains to be investigated.

L-taing in his Record (A. D. 071-050) Takakusu's Eng. Trans, Oxford, 1896, Chapter XXII, deals with the Rules of sleeping and restring as current among the monks of the Nalanda monastery in Bihar in the 7th Century A. D. He refers to bed (each of 2 cubits length = 3 ft.), chairs, mats, utensils, bed-steads' etc. and then observes:—

"There is no such custom as screening one's bed with a cloth (as in China). For if a man is unfit to sleep in the same apartment with others, he should not do so. And if all are equally qualified why

"Bhardray Fides. VIII. pp. 275-288.

1. Vide p. 313 of Bodhdya andharmasútra (Mysore, 1907) III, lii, 19.

न इक्केरंड्यडकान् दिमबान् तापसी मनेत्।

बन्धतिष्ठास्त्रदृष्ट्योरनमैयलप्रियः ॥१०॥ The commentator Govindesvēmin explains :--

ibo commentator Govindesvemin explains :— इंस्सिरिकानामपि हिंसी नानरेत् , दृहविचीसामी वर्तते ।

Apto in his Sanskrit-English Dictionary explains र्शाः m gad-fly and स्वाहः...

The word मेशक is found in the following verse of the Yegordsissia ( निर्वाण-मुद्दाय-उत्तरार्थ-Serge 59—Page 4795 of the addition published in the सम्बाह्य Magazina, Benarce, ज्येष्ट-सापाद number 1947),

पुराष्ट्ररादि मसका क्रुशोदुम्बरहुने।

फलानि रसपूर्णानि पूर्णमानानि मास्तैः ॥५०॥

When the fruits of the *Udembara* tree are ripe awarms of metakas hover round them to suck up their awagt julce.

2. See Callacases, VIII. 1, 4.

should one screen oneself from others? In using the bed which is the possession of the Brotherhood (Samgha) one should put something between the body and the bed, and it is for this purpose that the mat (Wishdam) is used."

In the above passage I-taing distinguishes between (1) the clash cross for the bed's and (2) the bed-sheet, which was a map to between the body and the bed. He contrasts the absence of cloth bed-cress; in the Nilsands monastery with their use in China. It is for Chinese scholars to say if the bed-screens used in China in I-taing's time were made of acts like our mosquivo-curtains. Though the mocks may not their use by house-holders in India, but we cannot say if these screens were made of cloth nettine.

The lexicon Amarakola (between a.b. 500 and 800) records many words pertaining to different textile products but among these words

1. The Brhatushila of Verstambins (c. A. D. 500) contains a chapter (No. 79)

- on bed-steads etc. (বাবোধনতাপন) in 39 verses. No reference to a menguitecurtain is found in this chapter. The chapter deals in detail with the different kinds of timber for the bed-steads.
- Vide p. 191 of I-tsing's Record (Arrangement of Affairs after the Death of Monks)—"Things such as NETS are made into net-cork for windows"—Were these nest belonging to monks made of desh of metal?
- Vide Amarakola, N. S. Press, Bombsy 1905, pp. 276-279i Kanda II. Manuya-orga 6, verses 111.120. I note the textile terms given by Amara for ready reference:—
  - (१) फाल, कार्पास, बादर—कार्पासक्कस्य (According to Bhinuil Dilaite = a)
  - (२) कौशेयम्—पीतांबरादेः (३)
  - ( १ ) रा**ह**वम्—ऊर्णादः (»)
  - ( ४ ) अनाहत. निष्पवाणि. तन्मक. नवाम्बर—छेदमोगक्षातनरहितकसम् (a)
  - (५) तहमनीयम् धीतवस्ययगस्य (३)
  - (६) पत्रोर्णमः भौतकोशेयम-भौतकोशेयस्य प्रकालितकोशेयस्य (३)
  - ( ७ ) क्षामम् , दुक्तम्—पहतकस्य (३)
  - ( ८ ) निवीतम् , प्रावृतम् प्रावृतवद्वस्य (३)
  - ( ९ ) दशाः, वस्तिः —वस्त्रावयवानाम् (३)
- (10) दैर्घम् , आयामः-बन्नादेः दैर्घास्य (1)
- (११) परिणाहः, विशान्ता—विस्तारस्य, ' १नहा " इति स्थातस्य (३)
- (१२) नकतः, कर्पटः-प्रस्वेदादिमार्जनार्य-इस्तवस्रखण्डस्य (B) Nepkin
- (१३) वसं, बान्सादनं, वासस. चेलं, वसनं, अंग्रुकं-वसस्य (३)
- (१४) सर्वेलकः, पटः-शोभनवसस्य (३)
- (१५) बराशिः, स्यूलशाटकः—स्यूल्पटस्य (३)-a coarse eleth

I do not find any word for mosquito-curtain as such. Amera mentiom three words for curtains, viz. (1) মহিনায়, (2) বছৰিছা, and (3) হৈছেবাৰী, but I am not sure if any of these words were in use for mosquito-curtain specifically.

The Shorter Onjord English Dictionary (p. 1283) records the word Manquine - a gas of several different species (n. D. 1583). AD. 1655—"Muskibe or Craits pestered us extremely". This Dictionary further excords the words M. nesting, M. canopy, M. curstain and M. Nerr ( \* a net (of face, gauze etc.) to keep oft mosquitoes) but no usages of these moderates of the control of the cont

In the Hobson-Johson (London, 1901, p. 590) we find an articleon Maquilo with usages of this word from A. D. 1539 onwards. Among the extracts quoted I do not find any reference to the maquilonat or curtain. The only extract in which we find a reference to an attempt made to drive away maquilous reads as follows:

- (1६) विचामः प्रकट्पटः —गीनकशावरणस्टरः, ०० क्रीपिधानपटस्य "दुरका" इति स्थातस्य ०० "येन तत्काव्यादि प्रन्वायदो तस्य (क्षीरस्वामी) (०)
- (1u) (5) (5)
- (१८) ब्रन्तरीयं, तर्ज्यस्थानं परिचानं, ब्राजीशक-परिधानवसस्य (३)
- (१९) प्रावारः, उत्तरासंगः, नृद्वतिका, संस्थानं, उत्तरीयं—उपरिवक्कस्य (३)
- (२०) बोत:, कुपांसक:-आपपदीनकश्चकस्य (दश्चतियास्यस्य-Kitrast-åmi) (8)
- (२१) नीशारः—प्रावरणस्य (३)
- (२२) अर्थोरुं, स्वातं "छइंगा " इति अयातस्य (cf. Marathi प्रकर) (s)
- (२३) आप्रपदीनं—पादाप्रपर्यन्तलम्बमानवसस्य (B)
- (२४) वितानं, उम्रोयः—वितानस्य "चंडचाण इति स्थातस्य (३)
- (२५) बूप्पम—बक्रगेहस्य (a)
- (२६) प्रतिसीरा, जबनिका (<sup>५.1</sup>. यमनिका), तिरस्करिणी—व्यवचानप्रद्याः "कनात" इति क्यानामाः (॥)
- 1. This article is as follows:-

MOSQUITO—S. A great is so-celled in the tropics. The word is Spanish and Pav. (dim of motes, a fly) and probably came into familiar English use from the East Indies, though the earlier quotations show that it was first plought from S. Amprica. A fixing annotates here: "Arctic maquitoes are worst of all and the Norfelk ones (in Broads) best Calcutt !"

It is related of a young Scotch lady of a former generation, who on her voyage to India had heard formidable but vague accounts of this terror of the night, that on secting an elephant for the first time, she asked; "Will you be what is called a Manquettag?"

Usages-A. D. 1539 (masquitor), 1582 (mushiror), 1584 (mushitar), 1616 1673 (ase article on chint), 1662 (muscisten), 1673 (Masquito), 1690 (Mushetosr) 1740 (Muscaten), 1764 (Masquito), 1883 (Masquito),

A. D. 1690-"(The Governor) carries along with him a Poon or servant to fan him, and drive away the busic flies and troublesome Musketoes. This is done with the Hair of a Horse's Tail"

-Ovington, 227-28.

The Marathi Dictionary Sobdahofa (by Karve and Date, p. 2402) records the "अध्यत्याणी(ली)" for mosquito-curtain but does not record any usage of this word. Similarly the Vyuthattihofa' (by K. P. Kulkarni, Bombay, 1946) records the words समझ (mosquito) and अध्यत्याली (mosquito-curtain) without any usages.

In the article on Mosquito in the Encyclopaedia Britannical no historical information either about mosquito or mosquito-curtain is recorded. Among the control measures against mosquitoes the following are mentioned:—

- (i) "Living in mosquito-proof dwellings or by utilizing mosquito-curtains while sleeping."
- (ii) applying certain substances to exposed parts.

The use of mosquito curtains and the application of certain substances to exposed parts need not be looked upon as a modern invention. They were already known to the ancient Egyptians about B.C. 500, if not earlier, as will be seen from the evidence to be recorded in this paper.

In the Mānasollāsa\* of King Someśwara (c. A. D. 1130) there is a chapter on King\*s bēds' (सच्यागंत्र) which describes the different kinds of beds and their accessories. No reference to "mosquito-curtain" is found in this otherwise very informative chapter.

The Sabdakalpadruma (Vol. III, Calcutta, p. 648) refers to mosquito-curtain in the following entries:—

"महाइरी: ची. (मधं मधं हरतीति। ह+" इरतेरत्वसमेः च्" शशेश। इति अप्। वियां बीप्।) मधकिमवारकशवश्यविशेषः। महारि इति भाषा॥ चतन्त्री १। इति जटाधरः॥

मञ्चर. न चावणारा बारीक कीटक. A mosquite or gost

सि. मराकः मत्सरः पा. सन्द्रहोः प्रा. सन्द्रहः सन्द्रहः

तां, मच्छरः, सि. मच्छरः, पा. मच्छरदानी = विख्नमादरीत डासांचे प्रतिबंधक आदरणः, याकाम मच्छरः (सं. मस्तरः प्रा. मच्छर) हा शब्द निराद्या

- 2. Vide pp. 845-846 of Vol. XV (14th Rdition, 1929).
- 3. Vide pp. 142-144 of Manorollasa (G. O. Series, Baroda, Vol. II).

<sup>1.</sup> Vide p. 574 of Vyutpattikola-

From the above entries we get two words in Sanskrit, viz. (1) August and (2) agast for the mosquito-curtain. About agast we get the following entry in the Sabdakalbadruma (Vol. II, p. 422):—

"चतुष्की—मदाहरी। मदारि हति माचा॥ प्रव्यक्तिमेदः। इति मेदिनी। के। ८०॥"

Medini (Calcutta, 1872, p. 10 — ভাইৰজন) mentions both the words ব্যক্তী and নক্ষৰণী for morquito-curtain as follows:—

' वतुष्की यञ्चकद्वयां प्रकरिन्यन्तरेऽपि च।''

As Main is assigned by me to the period-A. D. 1200-1275 and as be refers to way in the sense of www.ff (monquito-curtain) we may conclude that some sort of contrivance for protection against mosqitoes was current in India about 100 years ago, if not earlier. The lexicon Piinterphakia (A. D. 1111) also refers to was 100 years ago, if not earlier. The lexicon Edition of 1011 as follows —

" चतुष्की सहावेदस्यां चतुष्की चहिकास्तरे ॥"

The lexicon Vitralocanakota by the Jaina author Sridharasena (between A. D. 1300 and 1600) is possibly copying the earlier lexicons in the following line (o. 14 of the N. S. Press Edition. 1912):—

" क्लुकी ससक्दर्या वश्चिम वेदसमेदयी: ।"

The editor explains the word जानी in Hindi as follows :-

" चतुष्की--मसैरी पढंगपर ताननेकी

-- पडपडारका परवर (सी.)''

The lexicon Vaijayanti (C.A.D. 1050) is the earliest lexicon so far discovered by me to refer to a compa (mosquito-curtain) in the following verse (p. 168 of G. Oppert's Edition, Madras, 1893):—

" मसकारी त कतप्की सिरसि सिग्फीपमधी स्थात ।

कान्वपटस्स्याव्यटी प्रतिसारा <sup>३</sup>वयनिका तिरस्करिणी ॥१२७॥ "

 Vide my article on the Date of Medini in New Indian Antiquary, Vol. VII, pp. 171-175.

 Vide my article on the Date of the Viscolecanakola in Kornātak Historical Review, Vol. III, pp. 15-20.

3. Cf. Rajanyonaharakala (C.A.D. 1676) by Ragbunatha Pandita (Poone, 1880, p. 10) verse 106-107) :-

" पडदा स्याजवनिका बाढं कान्डपर्ट विदुः ॥१०६॥

व्रतिसीरा सिराचा स्पात् इछंत्री मध्यमञ्जपः।"

This glossery records terms about dress (verses 56-76) such as :-

मुंबाने, हमा, मंदीन, डमर्चरा, विवाद, बादर, दृत, दगता, फत्, , इब्दूरी, थिरमा, प्रमोरार, हरूबरी, म्याना, किनारा, तस्यी, नरदी, पटेदार, मंत्ररी, क्षेपोस्तर्नी, झार, तोष, दुर्मा, सब्बाद, बच्च्यू सम्प्रता, बोनेरोनिकस, परेरोनिकस्या, छोट, बुटेशरनिकस्य, विकटीक्षी, झारा, बिसा, दुस्टा, पासेसी, Oppert explains with "mosquito curtain" in the Index of words at the end of his edition of the Vaijayanti of Yhdavaprakkka. Vaijayanti's reference to wrash a very important for the following reasons:—

- (a) Vaijayanti (c.A.D. 1050) mentions ব্যক্ত and ন্যাকাশে among terms about costume or more broadly among textile products. We see, therefore, warranted in understanding ব্যক্ত as a textile accessory.
- (b) Vaijayanti further mentions অনুত্ৰা and ম্বাকহণা as distinct from সনিবাদে, ৰাবাৰ্কহা, and নিবহুকাণো which are mentioned by Amars. বহিষ্যাগ of Vaijayanti is obviously identical with মনিবাদ of Amars.
- The lexicon Nāmārhārīpaca-Samākpāpa of Kefavasvāmin is assigned to 12th or 13th Century A.D.! In this work we find a reference to τησεί, which is explained as a kind of ταθετατί or curtain. We are further told that πατεξί was used by the rich (παπατική) according to the lexicographer ανατ. The pertinent verse reads as follows on p. Ill of Nāmārhārīpaca-Samākṣpā (ed. by Gapapati Sāstri, Trivandrum, 1913):—

### " इत्यय सी चतुष्की स्थात् स्थाते ययनिकान्तरे । आक्रमानां महासद्दरी त्यजयस्याह शब्दवित "॥ ७३१ ॥

--(Kāṇḍa II-म्बझरकाण्ड-नानाविज्ञाच्याच )

If the lexicographer wave mentioned by Keśavasvām iis identical with wavever, who is quoted by Sarvānanda (A.D. 1159) and by the author of Gagaratnamahodadhi (A.D. 1140)\* we may safely infer that the use of the mosquito-curtain (www.ii) was confined to the rich (www.ii) somewhat earlier than n.D. 1100. Accordingly we get a reference to want in the Vaijayanti of Yadana-prakita (c.A.D. 1050). Evidently in thetimeof Vaijayantif the use of the Mosquito-curtain may not have been very common. It must have been confined to the rich only as excressly stated by waw.

In the Sabdaratnasamanwaya composed by king Sabaji of Tanjore (A.D. 1683-1/11) we find the word agrest used to indicate (1) mosquito-curtain

तारी, तो हर्षर, चोती, यटार्ष, मुक्टा, गोरोच, दुस्ता, कगीत, वृष्ट्या, तोसदान, संस्क, सामर, कुमारा, तमाय, सक्टर्दन, बेटारी, गयुन्त्र, तृष्ट, अर्थ, क्रफानम, तस, रेश, पुरन, वेबेर्यी, क्सली, दुरा, सोहन, क्षमत, दौर, शब्दा, तस्ता, क्या, चीन, नेक, मोटा, सारिक, नरम, पतंमयोग, नमीना, स्क्रम्य, क्यी, सोहना, सब्जा

Many of these terms are current in the Marathi Language at present,

- Vide p. XXXIX of Intro. to Kalpadrukola by Ramaretara Sarma (Vol. I, G. O. Series, Beroda, 1928).
  - 2. Ibid, pp. XXIX-XXX.

#### "स्तुच्डी सक्वहरूनां स्तुच्डी वटिकान्तरे । स्तुच्डी सरस्वदायां स्यात प्रकरिन्यस्तरेऽपि च॥"

I have so far recorded the evidence of lexicons to prove the, existence in India of word or wwwft, which appears to have been some rectangular contrivance of cloth-curtains used for keeping away mosquitoes. Perhaps it was a net like our modern mosquito-net. This surmise can be allowed in view of the use of the word words to indicate a fulfulg net ("word necessarile can file light for the control of the light for the control of the light for the control of the light forture.

In view of the testimony about "med or " wwwf from A. D. 1000 owards found continuously in lexicons we must try to find out the usages of these terms for a mosquito-curtain in literary compositions. I hope that scholars interested in the cultural history of India will help me in tracing such usages in course of time not only in texts composed after A.D. 1000.

As regards the history of the marquito-curtain in India before AD. 1000, I note below the following reference noticed by me on p. 501 of the Englith Translation of Manasara by P. K. Acharya (Footnote 1):—

"Carpets, rugs, pillows, and curtains etc. are also mentioned...
(Mahdeagga V, 10.3); pillows of the size of man's head and body;
bolsters are of five kinds as stuffed with wool, cotton, bark, grass;
leaves; floor-cloth, MORGOTTO-CURTAIN\*, bandkerchief, spittoon, are also
mentioned."

The reference to mosquito curtain mentioned above has been traced by me in the Translation of Cultecagg (V. 1), 3) by Rhyb Davids and Oldenberg. The original word for this contrivance against morquitoes is "makasaksipik" (Sans. wasspēra, explained by the commentator Buddhaghage (c.n. 25) as Croya-Kujikd (West-Seri) i.e., a faut, the

<sup>1.</sup> The ancient Egyptiens (C. E. C. 200) used not for fishing by day and for taping swap manquines from their bots at sight, a swoulded by Hardensu (pp. 131-154 of Book II of Hardens, edited by Ravelinon, London, 1875). Hardens, the Creek historian and the father of history, as Johnson Hallettensun Durks at the Carlot of history, as Johnson Hallettensun Durks at the Carlot of 
<sup>2.</sup> Vide p. 102 of Callocogga (S. B. E. Vol, XX, 1885) V, 13, 3 (On the Daily Life of the Bhibbbu):

<sup>&</sup>quot;Now at that time (while engaged in building) the Bhikks were troubled with mosquitors.

They told this matter to the Blessed One.

<sup>&</sup>quot;I allow, O Bhikkhus, the use of MOSQUITO CURTAINS"

Fectante ←" महस-कृटिका ति नीवश्कृटिका" (बुद्धमोप ) Literally a 'mos,

malls of which are to be of cloth. This is evidently the Caturki (क्युक्त) or Malahahari (क्युक्त) referred to in Sanskrit lexicons from C.A.D. 1000 owards as we have seen above.

The Cullavagga' also refers to the use of fans against mosquitoes which is also mentioned in early texts like the Sutrutaenhitā. In the Sutrutaenhitā (N. S. Press, Bombay, 1938, p. 490) we find a reference to the use of soft bed and seat while taking rest, in cerse 81 of the Chiterathies on soft lower.

> " बमानिकहरं कृष्यं पुष्टिनिदाधतिप्रदम् । सन्दं शस्यासनं दःसं विषरीतगणं सतस "॥८१॥

Dallana explains :-

" सर्व शय्यासनं विस्तृतमारतीण सृदगण्डोपधानादियक्तम "

Here there is no reference to any bed-screen or curtain to protect the aleeper against flies or mosquitoes. On the contrary in the verse that follows Suiruta prescribes the use of fan (ৰাজ্যক্ষক) to keep away flies etc. from the bed. This verse reads:—

" बालस्यजनमौत्रस्यं मक्षिकादीन् अपोहति । शोवबाद्यसम्बदेगस्काँमो स्यजनानिष्ठः" ॥८२॥

Dallana explains :-

" बालव्यक्षनं चामराख्यव्यजनम् । व्यक्षमानिलः तास्कृत्त-वायः"।

The use of west-ward or what (chowrie) for driving away flies etc. referred to by Suiruta appears to have had a long continuity. Ovington (a.D. 1690) refers to a Governor carrying with him a Peon to fan him and drive away flies and mosquitoes with the hair of horse's tail (Vide strile on Mosquitor) in Hobson, 7-fabon, 0. 500 of 1903 Edition).

<sup>1.</sup> Vide Cullangera (V. 23. 1)-pp. 131.13. (S. B. E. XX):-

<sup>23. &</sup>quot;1. Now at thattime a merquite-fan had come into the possession of the Sameha.

They told this matter to the Blessed One,

<sup>&#</sup>x27; I allow you. O Bhikkhus, the use of mosquite-fans'.

A camara (a tail of the Bos Gruniens or Tibetsn ox mounted on a stick, to be used by an attendent to whish off flies) had come into the consession of the Samesia.

They told this matter to the Blessed One.

<sup>&#</sup>x27;You are not, O Bhikkhus, to make use of a cdmara. Whoever does so shall be justy of a dukkaja. I allow you, O Bhikkhus, three kinds of fly-whisku-those made of bark, those made of Ustra grass, and those made of peaceck's toils.

It is curious to note that while Leadingone prohibited the killing of mosquitoes by a rdnep athe, Buddha allowed the use of neugage (mosquito-but) and three kinds of mosquito-loud or the conject of his Bhibhau, though he was against the use of a comora perhaps because it was snappanage of corelies.

At what time bed-terent; came to be used in India cannot be definitely determined at present. I have proved in this paper the use of water or wave? (mosquito-curtain) from c.a.D. 1650. In this connection I have further to state that King Bhoja (c.a.D. 1650) in this connection I have further to state that King Bhoja (c.a.D. 1650) in this connection I have further to state that King Bhoja (c.a.D. 1650) in this yakihalptataru refers to a bedstead (t. www.) as "evuqua" (with covern curtains) Dr. G. P. Majumdar states that "from the expression "www."...it appears that each bed-ateed used to be provided with curtain pole;". About king's bedstead referred to in the Yushihalpt. taru. Dr. Majumdar observes (p. 120 of Same Aspects of Indian Civilization).

"The King's bedstead is known as बीसबैमहला i.e., conferor of all good; if it be provided with a covering above it is known as सर्ववचा i.e. bringer of all victories (394-395)."

If bedsteads with curtains were known to Bhoja (c.a.D. 1050) its no wonder that the lexicon Vaijayant (c.a.D. 1050) should refer to any or away (mosquito-curtain). The references, however, do not ealighten us about the use of bed curtains or screens<sup>2</sup> in India prior to AD. 1000.

Having recorded the evidence of Sanskrit lexicons about the use and continuity of the mosquito-curtain from c.a.D. 1000 onwards, we are now in a position to consider the question: What is the antiquity of the mosquito-curtain in human civalization? In this connection 1 record below the testimony of the Greek historian HEMOROTUS\* about

- 1. Vide p. 121 of Some Aspects of Indian Civilization, Coloutte, 1938.
- 2. As present was use for our doors and windows chiki curtains made by finely gibt bamboo kees with briefs and older painted on the state; A. Accordings Behave-Jahoss (London, 1910, p. 193), article no cottex) these curtains may possible see ones in with the Margeli for res die in Kornel-Lift's Margel Dirt. (1911) "Takis, w. Nater." The Air (i, 129) has Chigh. Chick are now made in 'London, as well as Margeli of the Chick are down made in 'London, as well as "Nater." The Air (i, 129) has Chigh. Chick are now made in 'London, as well as "Nater." The Air (i, 120) has Chigh. Chick are now made in 'London', as well as "Nater." The Air (i, 120) has Chigh. Chick are now made in 'London', as well as "Nater." The Air (i, 120) has Chick are now made in 'London', as well as "London' and the tents of 'London' and 'London' a
- Des the Sanakri word "[eft fa [eft]" indicite any kind of chik currial.

  The nord भी प्रिट्स word in Site patiented (V. 22) is explained in April o Sanakri-S
- If the chik curtains have a Mongol origin as suggested in Hobon-Johnon, when were they introduced in India?
- .... 4. Vide pp. 152-154 of History of Herodotsu, Vol. II, ed. by George Rawlinson, London, 1875.—Book II, chapters 94 and 95.

the use of mosquisto-net by ancient Egyptians. Speaking of the conprisoness against gnats used by the marshmen of Egypt Herodotus observes:—

- "94. The Egyptians who live in the marshes use for the anoining of their bodies an oil made from the fruit of Sillicyprium (existor
  oil plant Ricinus Communis), which is known among them by the
  mane of "Kiki". To obtain this they plant the Sillicyprium (which
  gows wild in Greece) along the banks of the rivers and by the sides
  of the lakes, where it produces fruit in great abundance, but with a
  very disagreeable smell. This fruit is gathered, and then bruised and
  pressed, or else boiled down after roasting: the liquid which comes
  from it is collected and is found to be unctuous, and as well suited as
  olive oil for langes, only that it gives out unpleasant odour.
- 95. The contrivances which they use against gnast, where with the country swarms, are the following:— In the parts of Egypt above the marshes the inhabitants pass the night upon lofty towers which are of great service, as the gnats are unable to By to any height on account of the winds. In the marshountry, where there are no towers, such man possesses a net instead. By day it serves him to catch fish, whilete night he spreads it over the bed in which he is to rest, and
- 1. Videp. 300 of Flowering Plants of Western India by A. K. Neitre London, 1894.—Castor-oil (mageh) is probably indigeness in Africa. The Carakanthita (Sitra-aldre, Ch. 27, verse 289) records the properties of Casar-oil (সুংগুইনার) as follows:—
  বিষয়ারী অন্য নাড-স্মানিকাশিন।

## बातासमान्यहरोगजीर्गस्यरं परम ॥२८९॥

The Sulrulaismhiku (Suiraishäna, ch. 45) refers to castor oil es follows:— स्पार्यकें मुश्युष्णं तीर्णं दीवनं कह क्यायातुरसं स्ट्रमं झोतोविद्योधनं श्वष्यं वृत्यं मुश्रियार्कं कान्याननं योनिष्ठकविद्योधनमारोध्यमेधाकान्तिरसृतिबरुकां वातकप्रद्रस्थोभागदीषद्दं व ॥१९४॥

- 2. I may here record the replies received by me from friends in response to my joquiry about the mosquito.net indifferent parts of India :-
- Shri A. S. P. Ayyar, M.A., L.C.S. (District and Sessions Judge, Vellore, South India) writes on 8-11-1947 :--
- "As for mosquibo-curtain, the Tomis never heard of it till the Britishers to mee round. The you de to over themselves thoroughly, including their bed-sheets, in terribly malarist regions like Anamainis, and sleepnear the fire, which was supposed out a spain Basquiss, to keep mosquitose from screeding the limits! Adne and smarrie gooder were smeared over the body and were supposed to be a kind of Swarrie D.D. T. productive the keep he peaks way, though nobody claimed that this pooder little the peak. A horribly evil-staining oil, called poweaks ail, was she used to wate off the mosquines but its small keep every friends extreme more simply and the peaks. A horribly evil-staining oil, called poweaks ail, was she used to wate of the mosquines but its small keep every fired octor of the peaks of the peak
- Dr. Sadgopal D.Sc., F.R.I.C., F.R.H.S. of the Benares Hindu University

creeping in, goes to sleep underneath. The gnats, which, if he rolles himself up in his dress or in a piece of muslin, are sure to bite through the covering, do not so much as attempt to pass the net."

It is clear from the above evidence of Herodotus that the moquition-set was used by the Egyptians living in marshes. According to Rawlinson "the intimate acquaintance of Herodotus with the inhabitants of the marsh-region is probably owing to the important position occupied by that region in the revolt of Inaros, which the Athenian whom Herodotus probably accompanied, sens to assist." In view of this statement we have reason to believe that Herodotus had first-hand knowledge of the marsh-men of Egypt and his reference to the mosquish saft used by these men was based on actual observation. Even if we suppose that the reference was based on his friend's report it has sufficient evidential value for our orsent injoury.

That the Egyptians prepared very fine nets is vouched by Pliny<sup>1</sup> the Roman historian (died 79 A.D.). We can, therefore, easily surmise that the nets by which Egyptians of the 15th Century B.C. caugh fish by day and prevented mosquitoes biting them in their beds at night must have been very fine ones, somewhat like modern mosquito-nets.

<sup>&</sup>quot;Regarding monopuls-curtains in India I have no specific information. But this I have of interest in this someocition is that a mixture of the fact of it assesses and an escential oil mixture of Citrosolia and Eucolipsus in a well known and popular raneady in the form of a Sightid astro to keep any monopilors from attacking any part of the body when applied with it. This recipe is being banded down from generation even to the most caucifur and illustrate people in South India, Copies and that reight and the second in the copies are also available from mother Nature, Personally I fast that the Innovation of the movelule-curtain is a latter development."

<sup>1.</sup> Vide footnote 6 on p. 152 of Rawlinson's Herodotus Vol. II.

<sup>2.</sup> Ibid p. M. foot note by Ravilison on the testure of Egyptian lines, which was the finest and equal to the finest now made. A pice found new Hemphis (in the presention of Ravilison) was far superior to say of modern manufacture. "It has it as it a

<sup>3.</sup> Vide foot-note 8 on p. 153 of Rawlinson's Herodotus, Vol. 11. Speaking of the use of lofty towers for sleeping upon Rawlinson states :--

<sup>&</sup>quot;A similar practice is found in the valley of the Indus. Sir Alexander Barnes in his Memoir on that river" (Geograph, Jour, Vol. iii, p. 113 et seq?), says:
"The people bordering on this part of Indus—between Bubber and Mittuer Kers—lived during the swell in houses elevated eight at ten feet from the ground to avoid thedemy and isseets which it occusions... These bumpsions are settered by a ledder" (o. 137).

<sup>[</sup>The exacts of electing on the flat roofs of their bouses is still common in Berryt; and the real tower riving above the roof is found in the representations of room

The evidence about the use of the mosquito-curtain so far recorded by me may now be represented chronologically as follows:—

Chronology	Reference
c. B. C. 500	Herodotus (Born B. C. 484) mentions the use of mosquito-nets used by Egyptians living in marshy regions of Egypt.
e. 250 B. C.	—Cullavagga of Vinayapitaka or the Pali canon mentions सरूसकुटिका (= मसक्कृटिका) allowed by Buddha for the Bhikkhus.
c. 425 A. D.	—Buddhaghosa in his commentary on the Cullavagga explains মকন্ত্ৰিতা as পাঁবক্তেত (cloth-but) against mosquitoes.
c. 1050 A. D.	—The lexicon Vaijayanti of Yādavaprakāša mentions ব্যুক্তা (caturki) and মহাক্র্যা (majakahari) in the sense of a mosquito-curtain.
1111 A. D.	-Vistoakosa mentions चतुष्की and सशक्त्री.
Before 1140 A. D.	—Ajayakoia states "आकानां मशकहरी" i.e. mosquito curtain is for the rich.
Between 1150 } and 1300 A. D. }	
c. 1250 A. D.	-Medini lexicon mentions क्तुव्की and मझक्हरी.
Between 1200 and 1400 A. D.}	Śridharasena in his Vitvalocanakota mentions बतुच्छी and सहारुष्ट्री.
1683-1711 A. D.	—King Shahaji of Tanjore mentions <b>चतुच्छी and</b> मशकहरी as synonyms. He also mentions <b>चतुच्छी</b> in the sense of a fishing net (मश्स्यहारी)

astient house in the sculptures. The common fushing net would be a very inefficient protection against the gnats of modern Egypt, through a det doubled will often exclude film— "

1. "Dole to my inquiry about the use of the mosquito curtain in ancient Rome or

It roofs to my inquiry about the use of the mosquito curtain in societs Rome or its representations in Indian or Muslim paintings Dr. Goetz, Curstor, Baroda Museum and Art Gallery, writes on 1.11.1947 .—

<sup>&</sup>quot;I cannot trace any Indian or Muslim representation of it. Whether it was used in the Mediterranean area outside Egypt, I cannot say. The depopulation of the vast areas of the Roman Empire, even of the Campania around Rome, by Maloria in imperial times apasks against the probability of its use. The concection between Maleria (bud air) and the mosquito is a discovery of the last executory",

a.t.C.w. (vii)-9

It will be clear from the above table that the maquato-curtain of some sort was known to Indians asy from B. C. 500 onwards. Its ute may not have been very common and was possibly confined to the rich classof society. Ancient Indians were not behind their conferes in Egypt in devising a contrivance against mosquitoes some centuries before the Christian era. The impression of some of my friends that the mosquito-net for curtain jis a modern contrivance is contradicted by the evidence recorded in this paper. We must now try to get more literary references to the mosquito-curtain in Indian sources and I hope that Indologists in India and outside will record such references it they feel interested in this problem of great cultural interests.

## NOTES ON THE HISTORY OF ROPE-MANUFACTURE IN INDIA

40

(BETWEEN B. C. 300 & A. D. 1900)\*

In the article on COIR in the Hobson-Jobson by Yule and Burnell (London, 1903, pp. 233-234) we get the following information:-

- (1) Coir means the fibre of the coco-nut husk from which rope is made.
- (2) Both the fibre and the rope appear to have been exported to Europe in the middle of the 16th century.
- (3) The Arabic word for coir used by early writers is Kānbar or Kanbār. The Portuguese adopted the word in the form Cairo. The form coir seems to have been introduced by the English in the 18th century.
- (4) References to coir in datable sources are as follows :-
- c.s.v. 1030—Al-Birúni explains "Kanbār" as the "Cord plaited from the fibre of the coco-tree with which they stitch their ships together."
- c.a.D. 1346—Kanbar is "the fibrous husk of the coco-nut—Planks of ships are stitched together by the twine made from it— Cordage from it is exported to China, India and Yomen— Ibn Batuta iv. 121.
- A.D. 1510 "Coir" used by Governor Alboquerque for the preparation of cables and rigging for the whole fleet—trade of coir in Maldive Islands.—Correa. ii. 129-30.
- A.D. 1516 "Cavro"-Cordage of palm trees-Barbosa, 4.16.
- CAR. 1530-"Coir" (Correa, by Stanley, 133).
- A.D. 1553 "Cairo" used in place of nails in ship-building-De Barros
- A.D. 1563 "Cairo" cord used for rigging of vessels. Gracia f.67 v.
- A.D. 1582—"Cairo" used for ships instead of nails. —Castaneda.
- A.D. 1610 "Cairo" = Cord of coco-tree. -Pyrard de Laval.
- 4.D. 1673 "Cair-yarn" made of the cocoe. -Fryer, 121
- O.A.D. 1690-"Cairo" -Rumphius, i, 7.
  - Frie, Kamerker Commemeration Vol. pp. 19-30.

All these references to Coir from C.A.D. 1090 to 1773 refer to Ceir ropes used for hisp-building purposes. At what time the use of Ceir ropes for ship-building purposes examenced in India needs to be proved by historical evidence. In this connection I have to invite the attention of readers to the specimens of coir rope discovered at Aritamedia (Vide p. 104 of Ancient India No. 2, July 1946). Aritameda was an Indo-Roman Trading Station in "late 1st century B.C. or sarly Intentity A.D. In the excavations at this place some parts of coir rope of this period have been found. These are described as follows in the detailed article on Aritamedu in the above issue of "Ancient India."

- 'pieces of palm-shell and rope all in the pre-Arretine layers (the first century B.C. or early 1st cent. A.D.)'.
- (2) "of the numerous pieces of rate the longest' had a length of about 9 inches and a diameter of about one inch. Like all other pieces it was made of three strands of cocounut twisted together."

In view of these specimens of Coir rope found at an Indo-Roman Indiag Station it in possible to suppose that they were used for shipping purposes about 2000 years ago. The Coir ropes found at Arikameds appear to be very small as compared with the rope used for controlling an elephant described in the Mānasolikins. (C.A. I.130) of king Sometwan (Vide p. 48 of Mānasolikins, Vol. I., G. O. Særies, Baroda. 1925). The werse describint this rope is as follows:

## " वास्तिकेराञ्चलोव् मृतवस्क्वनितवाञ्चकम् । विद्वदृत्तासु (व) तं स्वीस्त्रे प्रकोहसमतां गतम् ॥२ १३॥"

Here the rope described is that of Coconout fibre, 60 hands long and as ing as the forestm (with). A hand is equal to about 1½ fit. The distincter of an average fore-arm would be about 3 inches. The measurements of the rope would, therefore, be (1) about 50 feet length and (2) a dismater of 3 inches. Such a big rope was capable of controlling an elembant as stated in the distinctable section of the Minauclinia.

<sup>1.</sup> A photograph of this longest piece of tope is given in Plate XXXVII.

B (Rope, pre-Arreline) in Assignt India No. 2 (July 1946).

The Rajavyavahārakoša' (C.A.D. 1676) by Raghunātha Pandita contains no reference to Coir ropes used for ship-building purposes.

There are many Subhāṣitas\* in Sanskrit pertaining to the Cocoanut-tree (nārikela). It remains to be seen if any of them refer to the

ropes made from its fibres.

1 Printed in Shivaji Press, Poona, 1880. In the Janapadavarga of this lexicon

1 stress 32-355 deal with navel terms (p. 29):-

" वर्षा समुद्रः कवितः टोक्स स्वासयो हो।।१५२॥ पट्टोक्स-इमीर्क स उद्दुपादाय ईरितः माइजै जरूवानानि नीका स्वामावसंहिका।।१५६॥ १८७: किसंगी मन्ता तं क्रेयवस्त समीतितम् ।

प्राची मश्रास्त-नान्नी त्यादक्षणा जसुशामिया ॥३५४॥ मध्रिवास्या प्रतीची स्यादक्तरा दिग भनेत विमासः।

किब्लेनुमा-नाम जनैर्दिशायन्त्रमुदौरितम ॥६५५॥ " 2. I may note here a few of these Subhásitas ,—

Subhajitaratnabhandagara (N. S. Press, Bombsy, 1911) P. 252-

"उन्नेरेष तदः फर्ज च रिपुतं दृष्टैव हृष्टः शुद्धः पक्तं शालित्रनं विदाय जदधीस्तं नाटिकेरं गतः। तत्राष्ट्रयं सुभक्षितेन मनसा यतः ऋतो भेटने

बाञ्छा तस्य न केवर्ठ विगतिता चञ्च्गता चूर्णताम् ॥१४०॥

This stanzs describes the abortive efforts of a parrot plying his beak on a coconnut fruit with its tough exterior.

Page 47—

'' नारिकेसमाकारा दृश्यन्तेऽपि हि सञ्जनाः । अन्ये बदरिकाकारा बहिरेब मनोहराः ॥२५॥

The Schtimuktsouli of Julhana (G. O. Series, Baroda, 1938) records the following stanzs about 위험하는:—

Page 112

"प्रयमवयसि पीतं तीयमत्यं सरस्तः विरसि निद्वितभारा नाष्टिकेरा नराणाम् । सरित्यममृतकस्यं दयरात्रीवितान्तं

न हि स्तमप्रकारं साधवो विस्मरन्ति ॥३४॥ "

> " अप्रि विस्वय नाहिकेरनिर्मिकनिर्मितान् त्रिवृतान् कतुन् रञ्जून् "स्रस्तिदा" इति सिरावदव्युक्यनं करोति "

" दीपो बारिकेनेरण्डणकम्बन्धन्तियान्द्रवादिकेदवुतः"

Before proceeding further I have to record here some interesting information about the Coconnut tree (Coco. Cocoa, Coher-nut) recorded in the Hotion-Tobian (pp. 228-230):—

- The Cocoa-nut (tree and nut-Latin Cocus sucfiera is a palm found in all tropical countries and the only one common to the Old and the New Worlds.
- (2) The etymology of the word is very obscure. Some conjectural origins are given in the passages quoted. The more common etymology is that the word is derived from the Spanish word Coco applied to a monkey's or other grotesque face with reference to the base of the shell and its three hold.
- (3) The Persian "ndrgil" has originated from the Sanskrit
- (4) Medieval writers generally call the fruit "Indian Nut."
- (5) There is no evidence of the Cocoa-nut having been known to classical writers nor are we aware of any Greek or Latin mention of it before Cosmon (A.D. 545).
- (6) According to Brugsch, who describes the Egyptian wall-paintings of c. B.C. 1600 on the temple of Queen-Hashop, representing the expeditions by sea which she sent to the Incense Land of Punt, 'the inhabitants of this land lived "under the shade of accompalus lades with fruit" Bee History of Egypt, 2nd ed. i 353 (Marpero, Struggle of the Nations, 2481)
- (7) Theaphrasius describes a palm of Ethiopia which may be the Doom palm of Upper Egypt (Theoph. H. P. ii, 6, 10). Sprengel identified this palm with Coco-palm according to Schneider, the Editor of Theophrasius.
- (8) Pliny (c.a.p. 70)-xiii 9-mentions "Coicas" but the word may not mean the Cocoa-nut tree.
- (9) The quotations recorded in the Hobson-Jobson about the cocos-nut tree range from A.D. 545 to 1881.

This is in short the history of the Cocoa-nut tree reconstructed mainly from non-Indian sources.

Among these I don't find any mention of Capt. Edward Moor's Note IX (pp. 402-406) on the coccanut tree in Narrative (of Operations against Tipu Sultan, London, 1794). In this exhaustive note Moon makes the following remarks about the coir-rober:—

Page 403—"The variety of uses to which the fruit is applied are indeed great: the outside husk is a considerable time soaked in water, when fibrous threads are drawn from it, of which rope of every kind is made, from the size of a pack-thread to a Sheet Cable for a seventy four.

The standing and running rigging of the country ships is chiefly of Koisar, which is its general name, but in mata language we know not. The best Koisar cables are made on the Malabar Coust, a Anjenga, and Kochin, of the Lackadevy nut from which islands they are an article of senting trade. The shell of the cocon-nut is well-known in England in India it is as may be supposed, made subservient to numberless uses."

The Arthaidstra<sup>2</sup> of Kautilya contains some references to the fibrous plants and rope-making material in Chap.XVII (Superintendent of Forest Produce) in Book II (English Translation by Shama Sastry Mysore, 1929).

Pages 107-108—"Mālati (Jasminum Grandi florum) dūrvā (panic grass) arka (calotropis Gigantea), Sapa (hemp), gavedhuka (coix Barbata), atasī (Linum Usitatis Simum); etc. from the group of fibrous plants (valkavarga).

- 1. Moor refers to the following points about the Coco, and the —(1) timber for building: (1) Leaves used for e-vering houses: (1) too perture plained taggether as used for sleeping upon; (6) leaves used as a defence against rain; (1) speak for abippine etc. (6) Shells used for cops, lades, etc. (6) Kennel of forture was found for lower, and the forture was found for lower, and the company of t
- The Word-Index to the Arthalastra contains no reference to the narikela. The Carakarahhid (N. S. Press, 1941, p. 160) and the Suirutarahhid (N. S. Press, 1938) describe the properties of the Narikela in the following extracts:—

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    Caroka (Sürauhdaa Chap. 26—ছনৰ্ম)—
vere 130—
" বান্তমানানি (মিন্তানি বাংবিছক জ্ঞানি ব ।" etc.
Sulvata (Sürauhdaa Chap. 46—ছনৰ্ম)—
verese 177 and 180—
" বাংকিউব নুম্বানিনাৰ বিশ্বনি বাংবিছন।"
" বাংকিউব নুম্বানিনাৰ বিশ্বনি বাংবি।"
" বাংকিউব নুম্বানিনাৰ বিশ্বনি বাংবি।"

" বাংকিউব নুম্বানিনাৰ বিশ্বনি বাংবি।"

" বাংকিউব নুম্বানিনাৰ বিশ্বনি বাংবি।"

" বাংকিউব নুম্বানিনাৰ বিশ্বনি বাংবি।

"
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Muñja (Saccharum Munja) balbaja (El-usine Indica), etc. are plants which yield rope-making material (rajjukhānda)."

#### Page 111- Superintendent of armoury.

"Bow strings are made of murva (Sanoviera, Roxburghiana), arka (Calotropis Gigantea) šaṇa (hemp), gavedhu (coix Rarbata), yenu (hamboo bark), and snāvu (sinew)."

#### Pages 125-127-Superintendent of Weaving.

Page 125—"The superintendent of weaving shall employ qualified persons to manufacture threads (stitra), coats (carma), cloths (cattra) and robe:"

Page 126 - "Manufacture of cloths, raiments, silk cloths, woollen cloths, and cotton fabrics..."

Page 127 — "The superintendent shall closely associate with those who manufacture ropes and mail armour, and shall carry on the manufacture of straps (varatra) and other commodities.

He shall carry on the manufacture of ropes from threads and fibres and of straps from cane and bamboo bark with which beasts for draught are trained or tethered."

## Page 127 - Superintendent of agriculture

-"the superintendent of agriculture shall in time collect the seeds of all kinds of grains, flowers, fruits, vegetables, bulbous roots, roots, pallikya (?), fibre-producing plants and cotton."

#### Page 140 - Superintendent of ships -

—"In those large rivers which cannot be forded even during the winter and summer seasons, there shall be launched large boats (mahāndosh) provided with a captain (lāzaka), a steersman (niyāmaka) and servants to bold the sickle and the robes' and to nour out water."

#### Page 149 - Superintendent of Horses -

-"Qualified teachers shall give instructions as to the manufacture of proper ropes with which to tether the horses."

1. The Amerakeia (N. S. Press, Bombay, 1905, p. 111-Kanda I Variourga records a word "TPRNS" in the following line: -

## " निवासकाः पोतवाहाः, कृषको गुजबृक्षकः ॥१२॥"

Bhamji Dilqita explains the word युग्हसूद as " नीमध्यस्य उद्धरमन्दृष्ट् " (mast)
" नीमध्य कोम्ब् " (a post to which a sheep is fastened).

· The foregoing extracts are sufficient to indicate the importance attached to rope-making industry by the state and kinds of fibres from which ropes were made in India more than 2000 years ago. The reference to ropes on large boats does not specify the fibres from which they were made but in view of the specimens of coir-rope found at the Arikamedu Indo-Roman trading station (C. a.p. 1st century) we may presume that these ropes may have been prepared from coir. The use of coir for plaiting ships has been amply proved by the extracts in the Hobson-Tobson from A.D. 1030 onwards. A question may now be raised: what is the antiquity of this method of ship-building in India? We can answer this question only when we know the history of this method of ship-construction as recorded by James Hornell in his scholarly volume on Water Transport (Origins and Early Evolution) Cambridge, 1946. Some points in this history are as follows :-

Pages 234-237-(1) Middle of the 1st Century A.D.-A Greek trader of Alexandria has recorded in the Periolus of the Ervthreen Sea an account of commercial conditions then existing in the ports of and along the African coast (See trans, by Schoff 1912). At a port called Rhapta near Dar-es-Salam he found ships in which the planking of the hulls was fastened together edge to edge with some form of twine instead of being nailed to an inner frame-work of ribs as in the case of Greek and Roman vessels of the Mediterranean and Red Sea. This Greek trader refers to vessels on the South Coast of Persian gulf called madarata which is equal to muddra'at meaning fastened with palm fibre" (according to Glaser, 1890). This shipconstruction was current on the coasts of Persian Gulfand Indian Ocean until European influence wrought a revolution.

- (2) Later records about Sewn hulls are numerous. They are briefly as follows :-
  - (i) Marco Polo (1298 A.D.) refers to coir for stitching ships-"no iron fastenings."
  - (ii) Friar Odoric (died A.D. 1331) sailed to Thana (Bombay). He refers to a bark "compact together only with hempe."
  - (iii) El Makrisi (A.D. 1400-1450)-no nails-planks sewed together with fibre from cocoanut tree.
  - (iv) Vasco da Gama (A.D. 1498) saw Secon Ships at Mozambique
  - (v) Cassar Frederick (c.A.D. 1563) travelled from Bassa to Ormuz in a ship "Sewn with twine."

- (vi) Ralph Fitch (c. 1583) refers to "Cayro" twine for sewing ships.
- (vii) Tohn Eldred (1583).
- (viii) 7. Lan caster (c. 1595).
- (ix) Tames Bruce (1813) and
- (x) Owen (1813) all refer to secon ships.
- (3) From 2nd to 9th cent. A.D. there are no records to prove the methods of ship-construction.
- (4) Abu Zayd (10th cont.) states that the system of sewn planks for abje-construction is speciality of Siraf (modern Tahira a Persian port). He states that the builders of Syria and Rūm nail the planks in ship-construction. "They never sew them to one another."
- (5) In India, Caylon and even in Arabia to-day the secon-plank method is still current.
- (6) The arrival of the Portuguese, Dutch, French and English in Indian Ocean was responsible for the introduction of nails instead of pegs and twine sewing.
- It is amazing to find how the use of Coir ropes in ship-construction persisted for no less than 2000 years. It is worth while investipating in Sanskrit and Präkrts sources and references to the use of coir in ship-construction in ancient and medieval India. In this connection I may record here the following verse in the section on ships (Nauydnaydats) in the Yakhishplatear of King Bhoja (c. A.D. 1050):—

Page 224 of Yuhishalpataru (Calcutta, 1917) :—
"व सिन्धुनावाहेति («गामहेति) त्योहबन्धं,
व्यक्तिम् जानेः। दिनते हि छोत्रः।
विषयते तेन जवेषु नीवः।
मुख्य बन्धं निकार ग्रोकः ॥८८॥"

Here Bhojacondemos the use of iron nails (six ava) for binding plants in ship-construction for the reason that ships so constructed are likely to perials in water when these iron nails are attracted by magnets (i.e. the rocky shores containing magnetic iron). He, therefore, recommends the use of rops (1944) in binding plank in ship-construction. It is clear from this verse that six 1944 or the use of iron nails was known in India in the Ith Century. The Indian ship-builders preferred, however, to go by their usual method of 19444 which had the advantage of being safe as it could resist magnetic attraction.

While engaged in writing the above paragraph about Bhoja's reference to নাছৰত্ব and প্ৰকাশ I was agreeably surprised to receive

a wary informative letter dated 1st July 1948 from my ever elect friend Rao Bahadur K. V. Rangaswami Aiyangar on the subject of my inquiry. I have great pleasure to record its contents here most gratefully:—

"Many thanks for your latter of the 28th June 1948 about your idea of writing a paper on the rope-making Industry of India. As I was long resident in Travancore in which coir manufacture (rones. mats etc.) is a staple industry today and has long been so. I know something of it. It is an intriguing subject worth pursuing. Raiju and Valkala are. I believe, the Sanskrit words (for rope). The latter suggests twisted bark, the former only its binding effect. Marco Polo (See Cordier's Edition) contains descriptions of sbip-building in India in his time, and so does Al Biruni (ed. Sachau), Radhakumud Mookerii in his Hestory of Maritime Activity in Ancient India cites Bhoja's Yukikal pataru as the only Sanskrit book known to him, which deals with ship-building. It has an interesting Sloka which explains why iron nails were not used in binding planks : these nails were incapable of resisting the magnetic attraction of rocky shores containing magnetic iron (see p. 224 of Yuhtikalpataru, Calcutta). It is cited by Mookerii on p. 21. The idea is used in the Arabian Nights in the story of a ship in which Sindabad sailed, being torn up by magnetic attraction, when it neared such a coast. Morco Polo on the other hand mentions Malabar ships being bound with iron pails.

In Tamil, Keyaro Kalar stands for ceir, which is said to be derived from Kayaru (Malayalam). See Habson-Johons, 1800. It is said to occur in early Arabian writings in the form Kanbar or 
In the Yuktikalpataru (pp. 224 ff.) you will find a brief description of ship-building including the verse on nails quoted by Mookerji.

In Kautilys the Valks and Rajju are mentioned on pp. 100, 113, 203,211, and 403, and pp. 113,153,203,217 and 42 respectively. See (hemp) appears on pp. 100,102,113 and 403). The fibre of state (psim) is hawn to him and not of the occount (nditisers). For tale, see pp. 31,81,103 and 102 of Kautilys (1st ed.)."

These remarks are illuminating enough but the questions raised by them need to be answered. One general question which recks solution is: At what time the Aryans an India started the coir-rape manifacture in India? The solution of this question depends on the history of the cocounts are recalled by Sankirit sources, e-pecially prove to An. 590. Hope some scholar? interested in the history of Indian plants will nettle this problem with view to clarifying the industrial and economic history of the different products of the cococount tree.

As regards the representation of ropes in art and architecture my friend Dr. H. Goetz, Curator, Baroda Museum, writes to me as follows in his letter dated 26th July 1948:—

"Plaited thick ropes appear as an ornament on 'certain temples on the Pratisin period e.g., at Osa in Marayar and I believe, also at Survaya in Gwalior State. Thinner plaited ropes are seen on the Chunh fountain stones in Chumba. Portuguese architecture of the reign of Manuel the Great, which is generally regarded a variation of Gothic art inspired by Indian prototypes, likewase, makes almost an excessive use of plaited rope motifs; what their model mas have been. I have not vet been able to find out."

I am thankful to Dr. Goetz for these suggestive remarks which open ap quite a new field of inquiry pertaining to the subject of this paper. I hope some scholar conversant with this field would publish a paper on the representation of ropes in art and architecture with a view to supolementing the data recorded in this paper.

- 1. My friend Mr. A. N. Gulsti, M. Sc., of the Technological, J. aboratory Managa (Bombay), wrete to mean 10-7-1948 as follows .—
  - "(i) Please refer to page 15 of my paper with Dr. Turner on Early History of Carse. Here we refer to mail piece of string found to attached none poorty from Medacja Dare. There were two samples of strings. But proved to be under from conton. They were both 47 feld codes. But while the basic year was 14 counts in one, it was 18 counts in the other. One of these had a purple colour on it. This finding appears to show to make representative and the fore-base herein to the Pre-Aryan Circlination of Indust Valley.
    - (fi) In a recent publication, where I gethered a lot of information about basis fibres like homp, jete etc., I find it mentioned in Fibrois I Florat of I selic by R. T. Forbas, 1885 (London) that the fibres of serkenic on account of their being able to withstand watting better than any other fibre are eminently suited for making drag ropes of fishing nets, while these of Batas/readous are used for making ropes and caulting boats.
  - (iii) The use of coir twine for stitching hides and leather canoes appears to be still continuing.
  - (iv) Coir ropes are eminently suited for shipping because, unlike other ropest they keep floating in water even after getting wet,"
  - (I am thankful to Mr. Gulati for these informative remarks.)

### 16. HISTORY OF WAX-CANDLES IN INDIA.

(A. D. 1500-1900)

The history of the Indian technical arts and sciences is shrouded in mystery, though it would be possible to clarify it considerably on the strength of Sanskrit and non-Sanskrit sources. During the last ten years I have published several papers' dealing with a few problems connected with the cultural history of India technical arts and sciences.

The history of Lighting and Lighting Appliances in Ancient and Mediaeval India, if studied in detail, would prove a fascinating study for any lovers of Indian culture. I have collected some material on this topic but it would take a long time to release it, in the meanwhile I have thought it advisable to write some notes on stray topics connected with this subject. Accordingly I have published a paper on the reference to Persian oil [apraishe tails or Turuphe tails] in Sanskrit sources (between c.A.D. 500 and 1100). According to the evidence recorded in this paper it appears that some sort of crude Persian oil or Kerosine oil was used as lamp-oil in Northern India some time between A.D. 500 and 1100. While I was writing this paper a friend of mine asked me to write on the history of Candles in India. I lost so time in studying this problem and collecting evidence on it. I bave great pleasure in recording below this evidence, howsoever scanty it might be.

- In the article on "Candle" in the Encyclopedia Britannica<sup>3</sup> we get some historical information about Candle. I note some points from this information:—
- (1) Candle is a rod of fatty or waxy material through the centre of whichruns fibrous wick-
- (2) Modern Candles are the successors of the early rushlights which consisted of the pith of rushes soaked in house-hold grease.
  - Annals (B. O. R. Institute), XXXII, pp. 146-165.

<sup>1.</sup> See Bibliography of my writings (1916-1946) published by me in 1947. The nbjest-index (pp. 38-39) of this Bibliography records all my papers on Indian Culture and Vijana (technical arts and acinces). Some more papers on these subjects have been published ince the Bibliography was published.

See Journal of the Kalinga Historical Society, Balangir (Orissa). Vol.II, No. 1, pp. 15-17.

<sup>3,</sup> Vide pp. 738 of Vol. 4 of 14th edition (1929).

- (3) An improvement was made later by dipping cotton threadd in melted tallow. By alternate dipping and cooling the desired thickness was obtained. These 'tallow-dipa' were one of the most socient forms of illuminant and they continued to be a house-industry for contrainer.
- (4) In Paris in the 13th century A.D. there was a guild of travelling candle-makers who went from house to house making candles.
- (5) Beer-max candles have been used from early times and the mentioned by the Roman writers. For mystical reasons the Catholic Church prescribes beer-max candles for Mass and other liturgical functions.
- (6) Spermacesi, a white crystalline wax obtained from the bead cavity of the sperm or "right" whale came into use in the latter half of the 18th century. Owing to its extreme brittleness spermaceit requires to be mixed with a small proportion of other material such as hose-way.
- (7) Modern-candles are made of paraffin wax (introduced about a.p. 1854) or stearine or mixtures of these.
- As the use of candle is closely connected with the candle-stick the following points from the article on candle-stick in the Encyclopedia-Britannica (Vol. 4, p. 740) are noteworthy:—
- (1) The history of candle-stick deals with those of the Church Moses was commanded to make a candle-stick for the tabernacle, of himmered gold, a talent in weight, and consisting of a base with a shaft rising out of it and six arms and with seven lamps supported on the summits of the six arms and central shaft. When Solomon built the tample he placed in it ten gold candle-sticks, five on the north and five on the south side of the holy place.
- (2) After the Babylonish captivity the golden stick was again placed in the temple as it had been before in the tabernacle by Moses. On the destruction of Jerusalem by Titus it was carried with other apoils to Rome.
- (3) Representations of the seven-branched candle-sticks occur on the arch of Titus at Rome and on antiquites found in the catacombs at Rome.

<sup>1.</sup> In nedest India the use of snimal fast for feeding lamps was prohibited by Bhessidism start. The practice of disping twisted range (forming a sort of wisk or gravable oil and then lighting them appears to have been current in mediawal India The series for the liberation to an internet in "edicyteger" (Vide Scheldule by Rames in a tray was lighted by July 1). Series of such wishe dispend, in oil of packages in a tray was lighted by July 1). The series of such wishe dispend in oil of packages are the series of such wishe dispend in oil of packages. They was lighted to have a "space (grayed)" (See Scheldule b) March 10.

- (4) The primitive farm of candle-stick was a torch made of alips of bark, vine tendrils, or wood dipped in war or tallow, tied together and held in the hand by the lower end, such as are frequently figured on socient painted wases. The next step was to attach to them a cup (discus) to catch the dripping war or tallow.
- (5) During 11th and 12th centuries A.D. a certain amount of ornamentation appeared.
- (6) Previous to the 17th century iron, latten, bronze, and copper were used for making candle-sticks. Thenceforward silver came to be used. In more moetn periods, Sheffield plate, silver plate and China became very popular.
- (7) The golden age of the candle-stick lasted from the 3rd quarter of the 17th century to the end of the 18th.
- (8) The history of candle-stick shows an increasing tendency towards simplicity.

The foregoing remarks on the history of candle' and candle-stick contain no reference to the use of candles in India.

Before recording my evidence about the history of candles in India I must point out that the Hindu Dharmadistra texts prohibit the use of any kind of animal fat or grease for feeding lamps and consequently any kinds of candles, in which such fat or grease was used, were not likely to have found favour with the orthodor. Hindus of ancient and mediaceal India. In the Dânahkangdâ of the Caturoargacinidamagi (Dân Alad) Vol. I., Calcutta, 1873, 9.95 we find Hemdâri (c.A.) 1260) quoding an extract from the Vipualharmottara on the topic of dipa-dâna or gât of lamps to deities etc. This extract states:—

## " घृतेन दीषा दातम्यास्तैलैवां यदुनम्दन। स्सामजादिभिहींगा न तु देयाः स्थबन॥"

Brevet makes interesting remarks on Gendle and Holder B. C. Brewet, London 1917—
note: unakes interesting remarks on Gendle and allied terminology and in usages. I always one point from these remarks.—(1) It was an ancient custom of presenting or presenting or the standard of various colours to three kings of Colours. (2) It was the rest of Rom mc Cit olics to burn candles before the image of a yeardle was a find always. On the colours of these image of a yeardle was a find always on the colours of the colours

Only ghee and oil of sesamum were to be used for sacred lamps. No kind of fat or marrow of the bones and flesh of animals was to be used fer these lamps. The extract further states :—

### "श्राणिजां गोबरको च दीएवर्ति च वर्जवेद्। विशेषेच च कर्तन्या पद्धसम्मन्या नृपः॥"

The wick of the lamp was to be made of lotus threads or fibres. One should avoid the use of any animal product in making this wick.

In the history of the candle recorded above from the Encyclopatia Britanniae reference is made to the use of Best-stax for candle-manufacture from Roman times. I have not come across any references to the use of best-max in India among the materials used for feeding lamps in ancient and mediaeval India. As best-stax is closely comnected with the manufacture of candles I note below some information about in from Sankrii sources:—

(1) The Amorahola Between N.D. 500 and 800) refers to best-was as "wefwelf glavewer," (Kind all.) Failynarga, verse 108 (wide p. 24 of Foons Edition by N. G. Sardessi and H. D. Sharma). Biblionji Dikişita (C. A. D. f. 630) in his commentary explains the two words wefwer and haves for here are and observes λ'παγίσευα 'πίπ γίλ ναιστα." It is clear from this attement that the term "πλπ" for best max was current at Benares about A.D. 1650. Biblionji does not refer to "πλπανί" or best-war candle. This term for candle in genesal is now current in Northern India. In the Deccan we use the term "πλανανί" for candle.

(2) Vāgbhata I in his Aṣṭāṅgasaṅgraha (C.A.D. 625) refere to bees wax as অবৃত্তি for use in a medical preparation " ব্যাস্থানত :—

## " अष्ठातक प्रयुच्छिष्टवीर्जिय्याकमानीः । इतनैकं रचेसाकिरनव अरुष्टिमुत्तवम् ॥१७॥ " (Vide n. 128 of अ. संग्रह ( सृतस्थान Chap. 11) ed. by

1. Mitramiira (a.p. 1600-1650) in the Lokyapaprahdia of his Viramiiradage (Chowikamaba Sans. Series. Benarta, 1916, pp. 650-452) quotes some earlier worfs which describe the following lighting ottomils and spolinenes:

R. D. Kinjavadekar, Poona 1940)

- (1) दीवपात्र (extracts from वैशानसम्य and विदानानेवर)
- (2) रीपमाना (extracts from विदानावेदर).
- (3) वीपम्थार (extract from सिद्धान्तशेकार).
- (4) दीपिका (extract from क्वानसम्म).
- (5) নীয়াকাব্যাস ( extracts from सিद্ধান্তইজ্ব and বিস্তান্তক্ষ্ম ).

There ib no reference in the several extracts quoted to any kind of Candle or Candle nick .

(3) Vigbhata II (C.A.D. 8th or 9th century) refers to beer cos in the following extracts:-

Appärigahrdaya (Cikittsitasthāna, chapter 3 - कासांकिश्सित)—"
"बार्चा परिवादिकार्य जीवनीयं गर्न सिताम्" (verse 75)

and Cikitsitasthana, chap. 19 (इडाबिस्सिस) १,०००, 78—

and Cisititatinana, chap. 19 (\$81416)(RR) terse 78-

and verse 84-

--" सिर्व सिक्यकसिन्दरपुरमुख्यक तार्थक:।"

(4) The medical glossary Dhanvantarinighantu (earlier than Amara) records the following synonyms about bees-wax' (বিশ্বতঃ):—

" सिक्यकं मधुकं सिक्यं मधुष्टितं मधुरियतम्। स्थापेषं सहत्रकं सथायं साक्षिकाश्रयम्।"

(See p. 608 of अष्टोगहरूपकांश by K. M. Vaidya, Trichur, 1936)

(5) Narahari (C.A.D. 1450) in his medical glossary Rājanighastu (Ānandāšrama Sans. Series, Poona, 1896, p. 118) records the properties and synonyms of bees-wax:—

गुणाः—"विकाद दिनारमञ्जूरं भूतत्व सम्बद्धिकृतः ।
सिन्नं वीसर्वकर्ष्याविष्णमारीयमञ्जूष्यम् ।। १२ ॥
सेम्ब्रं दिप्यक्तं दश्च दुक्ष्यताव्यक्तिमञ्जू ।। १२ ॥
संप्रकृति प्रयुक्तं दिष्यक्षेत्रस्य ।
स्वत्रक्तं सुर्वक्तं दिष्यक्षेत्रस्य ।
स्वत्रकं सुर्वक्तं दिष्यं सर्वत्रं स्वयुक्तं स्वयः ।
स्वत्रकं सुर्वक्तं स्वयः साधिकासम्बद्धः ।।। १३ ॥
स्वीत्रं वीसरानं च विकादं साधिकासम्बद्धः ।।। १४ ॥
स्वत्रकं सुर्वके साधिकासम्बद्धः ।।। १४ ॥
स्वत्रकं सुर्वके साधिकासम्बद्धः ।।। १४ ॥
स्वत्रकं सुर्वके साधिकासम्बद्धः ।।। १४ ॥

1. I may note here the reference, to best-wax in the Geographical Account of Constrier round the Bay of Bengul (A.D.1669-1670) by Thomas Bowrey (Hakluyt Society Cambridge, 1995):—

Page 190-foot note 3-"Beet-wax" mentioned as an article of trade of the Mallays (of Achin) with Pegu etc. (see p. 35 of Lookyer's Trade in India).

Pages 56-57—Boarey mentions bees-max as hing's commodity in his account of Chorromadel. In floor-note 2 the editor quotes an extract dated 4th Sept. 1878 from the Diary of Stryankson Master; p. 37, on his journey from Balsor to Hugli, which reads "Ganges, on the east side of which most part of the great quantity of bees-max is made, which is the May's commodity.

P. 133-Bowrey mentions "best-was"as a product of Bengal produced in plenty.

P. 225-Bowrey refers to "best-man" as king's commodity in his account of Patna (Bibar).

P. 134-foot.note 1-Townsier. Vol. II, p. 141-reference to make a produce of Bengal.

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Page 431—Narahari mentions the vernacular term भेष for bees-wax in the following verse:-

"मेचे ६७३ बोठावें स्टब्स् काठे व वृत्ते । महत्त्वस समाज्यातः परमी समहाहताः ॥१२॥ ''

(6) The Carakasanhhitā (Cikitsāsthāna Chap. 7, verse 121-p. 456 of N. S. Press Edition, 1941) refers to best-max in its treatment of leprosy (wm):—

" देवः स समुच्छित्रो विपादिका देन साम्बदेऽम्यका॥"

(7) Dr. G. P. Majumdar in his remarks of Toilet (p. 84 of Sowa Aspects of Indian Civilization, Calcutta, 1918) states that according to Vinaya texts the Buddhist Bhikhar are "forbidden to smooth the hair with a comb or with a shampooing instrument with pomade hair oil or heartern".

The foregoing few references are sufficient to establish the antiquity of bes-exax in India for at least 2000 years, if not more. These references, however, are not useful to us in our inquiry about the use of bes-exax for the manufacture of candles in India.

The Marathi Dictionary Sabdakoja (by Date and Karve) makes the following entries about candle or Aparth: -

Vol IV (1938), p. 2527-

मेण-wax (मनुष्यक्त) Persian मोस् मेणमणी-Bees-wax candle (Persian मोस्, मृस्+वर्ता)

से**नवात—सेवव**ची

Page 2543—योजवर्ण-वेयवरण Usage—"साव मोम्बत्याची डावर्ज सी प्रसन सावाबी "

—क्षेत्र वादी २८६ (काम्पेतिहासर्वप्रह)

(This usage of the word मोम्बर्जी is later than A.D. 1700).

The Maratha King Shabu of Satara, the grandson of Shiraji the Great, was brought up in Mogul captivity in his boybood. He wasaw therefore, fond of certain articles of luvury current at the Mogul court in the latter half of the 17th century and when be began to rule the Maratha country with his headquarters at Satara he procured these articles for his use as will be seen from the following evidence:—

In the Peshwa Daftar Selections ed. by Rao Bahadur G. S Sardosai we get the following documents proving the use of wax-candles (क्षेत्रस्वर्ध) and rate-mater (शुक्षाण) by King Shahu (A.D. 1682-1749):—

Rao Br. Sardesai adds the following note to this letter :-

"Raja Shahu constantly ordered candles and other foreign articles from the Angres who probably procured them from the British."

P. D. S. No. 8 — Letter No. 32 dated 3-8-7715 (f) is a Memo of foreign articles ordered by King Shahu from Kanhoji Angre. This list includes 400 candles (""क्क बांच्यां"), 100 rose-mater bottles (""क्क वांच्यां"), 100 gether with elephant tusks, knives, cloths, tobacco (क्याच्यां का क्यां का का आहे. 2011 power, swords etc.

The foregoing evidence conclusively proves the use of candles in the Maratha country' later than A.D. 1700, though this use was confined

1. The increasing use of candles in the Marstha Country during the regime of the Peshwa 1 is vouched by the following references in Peshta Dater Selection No. 32 (Private Life of the later Peshwa) ed. by Ruo Bahadur G. S. Sardeasi. 1933:

Letter No. 30 of 23-8-1815—''9 ००० रोजनाईक्के मेणकाया खरेदी या। '' (Ra. 1000 spent for the purchase of candles for Gapapati Festival in a.d. 1815).

Letter No. 83 ज 30-8-1771-" मोमबस्या सुमार १०० पाटविस्या पावस्या."

(These sandles were received for the Jewellery Department of the Poshwa).

Letter No. 226 of 16-4-1815.—This is a contract (REC) for supplying lights in the Person places at Poons undertaken by one firely fixthesai Blothar. It refers to (N. E. 1816), the contract of 12 months. Bright the Lange at the palaces wate oil-damps normally and condite were used on proteil considers.

to royalties. Rao Br. Sardessi states that Shahu ordered candles rostmate etc. from Kanhoji Angre, who probably purchased them from the British. If this statement is correct we must presume that candles were not manufactured in India but that they were an article of foreign import in India in the early out of the 18th century.

Let us now record the use of candles in India in the 17th centery, in this connection the evidence of the glossary calls of the Afgierona. Marahafa composed by Rughunithal India about A.D. 1806 by order of Shivaji the great (died A.D. 1808) is very helpful. In the last section of this glossary called the Rajararga (p. 3 of the Poons Edition; 1880) the author records some terminology about lighting appliances etc. in the following extract:—

In the above extract the following words and their meanings recorded by Raghunātha Paņḍita are useful for our present inquiry:—

- (1) मोम्दानी = मैजकोश (candle-stick)
- (2) मोम्बर्चा = मैजवर्तिका (candle or bees-wax candle)

I am not aware of the existence of the words মৃতভাষা and মৃতভাৱে in any lexicons Sanskrit or Prakrit so far known. It appears that

In all probability the word is imported directly from the Arabic quadil. The origin of the Japaness term is doubtful; perhaps it is from the English Candle,—not-withstanding the difference in meaning. Concalves Viana believes that it is from the Spanish Candle." a concle."

Penku Dijer Sideiian No. 21 (Private Life of later Paubura) Letter No. 35, telem no a quag (instern) finite with mirrors (quiff a suckfett); regired by the Paubura. A special expecter was noted to proprie this lanters. (The Sideibale by Date and Karro, p. 212), necode the words, super, quigge, (Arab's surgar, medite. Unaper., "আয়ুল্ক সময়ৰ কাৰ্য কৰাৰ কৰাৰ (a), and ctc. ২০.) and sames are (b) "আন all and feeting the grade the super and control of the control o

<sup>1.</sup> Vide p. 73 of Peringuese Vecables by Dalgado, G. O. Series Baroda, 1996—
"I Caedil (in the old acceptation of "a lange," now obsoide). Guj. Kendil, a glass
lamp.—Hindi. Hindust. quadil—Kao. Kanail—Mal. Kandil,—Acts. Khandel.—Jap.
Routera, a bated lamp."

Rabunths has coined these words to explain the foreign terms aigned and dirayed then current in the Maratha country like many other terms which constitute the Rajavaoakhrakola, a glossary prepared with the object of the clarifying the menings of these terms for 
the benefitof Shivaji's courtiers and other officers in his kingdom. I 
have already pointed out that Bhūnaji Dikiştii (c.A. 1630) living at 
Bearess uses the Persian term with (bees.wax) in explaining Amari's 
two terms "angivage" and "invaveu" for bees care. Bhūnaji powhere 
refers to ringwin (candle) as such, though candles were used in India 
at this time will be seen from the evidence recorded below:

John Fryer in this Travels (A.D. 1672-1681) published by Hakluyt Society, London, 1912 refers to wax for Tapers in his Description of Goe as follows:—

Vol. II, page 28—"The finest Manchet ( = wheaten bread) it may be in the world is made here and the purest Virgins Wax for Tapers."

The Editor of the above Travels makes the following remarks on the word Tapers in the above extract :-

"Bee farming for the collection of honey and wax 'most of which is not to Go and made into candles for Church altars is still an industry in Kanara (Bombay Gaz. XV, Pt, 1, 104 ff.),

Page 11 — Description of a Church at Goa (college of Dominicans)
"In the Sacristan were massy silver candle-sticks and other vesselsvery Rich."

Page 251 - Travels into Persia-

"Nor can we forget another sort of Black Truders, burning light at Noon-day, which are the Necromancers, whose shops are bestuck with candles, lighted in every hole....."

Tavernier in his Travels in India (Vol. II, London, 1889) makes the following references to candles:—

Page 8 — Speaking of large quantities of spun cotton, exported to Europe by the English and Dutch companies Tavernier states :—

<sup>1.</sup> In his फ्राज़ी-मगरी क्षेत्र (Poons, 1925, p. 208) Prof. M. T. Patwardhan makes the following entries about मोझ (bees-wax) and allied terms :--

मोच् जामा (द.) मेल-कारड, " सर्व किरकोठ सावा व मी.म्-बामा शांत; व हृष्णावठ बिक्त सामती" (see महेपर दरबारची बातमीच्त्रे ११९१५) जास-बीक सण हरवी-" प्रणस्मापन केला तर नाइक ट्रॉनिम्स्य होईल बीस्तव मी.म्बीकडी

बाकी (see स. द. बातमीपर्ते १।१९५) सोस्-बची (की.) नेपवली—"हार्वे सोम्बल्बांची कार्यो तां पुस्त कावांवी" (see

सोस्-वर्षा (क्षी.) मेणवर्ता— "झाउँ सोम्बरवांची कार्यन ता पुसून कावांची" (se सने—"नर्त्रे बारो कोरे" २८६).

"These are the kinds which are used to make the wicks of candles and stockings and to mingle with the web of silken stuffs.

Page 292- Speaking of a pagoda in Siam Tavernier states :-

"In the middle there is, it were, a great chapel all guilded within, where a lamp and three wax-candles are kept alight in front of the alter which is covered with idols."

Page 336—M. Constant, commander at Gombroon (Bandar Abbas) Bwe a dinner to stverul Franks. In the description of this dinner Tavernier refers to lamph, which were "suscept full of oil attached to the walls of the house and at a distance of about one foot from each other". Instead of these lamps M. Constant ordered" white was-candles to be placed throughout, and both within and without the house there was light every where". All the merchants both Christians and Muhammadans were surprised atit. At this Tavernier remarked:—"this war does not cost so much to the company as it does to private persons because all the Datch vassels which come from Mocha (Mocca) carry much of its at it is your chard there."

Page 18 - Speaking of Cinnamon from Ceylon Tayernier states :-

"The Portuguese used to gather quantities of it (Cinnamon) which they placed in Chaldrons with water together with the small points of the ends of the branches and they boiled the whole till the water was responsted when cooled, the upreportion of what remained was like a pasts of white was and at the bottom of the Chaldron there was complex. Of this paste they made tapers, which they used in the Churches during the service at the annual festivals, and as soon as the stopers were lighted all the Churche was perfumed with an odour of cinnamon. Formerly the Portuguese procured cinnamon from the countries belonging to the Raiss in the neighbourhood of Ceckin.

Page 413 — Giving an account of his arrival in Holland with the Dutch fleet, Tavernier states :-

Among the references to the use of 'max-candles by Tayernier we ante with interest their use before idols in a papoda in Siam.

Pietro Della Valle in his Travels in India (Hak. Society, London, 1892) Vol. II, makes the following references to candles :-

Letter No. V dated 22nd November 1623 from Ikkeri (to the South-

east of Honawar in the Shimoga District of Mysore):-

Page 235 - Description of a Shiva Temple.

wremitimes."

-"This idol was called Virena Deuru ... at the upper end in a dark olece with candles before him.

Page 237-"In the middle of the temple ...... a darker enclosure.. wherein stood ..... a little stockade or Pallisade... to hang Lamps and Tabers upon at more solemn days and hours."

Page 238 - "Tapers being lighted, particularly at the stockade." -Idol of Virena taken in a procession.

-Two Ministers "with lighted Tapers marched first, followed, by the Idol in his canony.

Page 239-One of the Priests or Ministers" began to salute the Idol a far off with a dim Taper in his hand making a great circle .....

-"Palisade of lights ... through which it is not lawful to pasa."

Page 240-The priest "took a wax-candle and therewith described within the Palanchino or carriage before the Idol many circles with lines at the end: and putting out the candle took the Idol out of the Palanchino and carrying it through the railed stockade in the middle of the Torches, placed it on its Tribunal at the Upper End where it usually stands.

-"Candles being put out, the ceremonies ended and the people return ed to their Houses" (The Editor observes in footnote 2 on p. 240 :-

"Wax-candles are certainly not common in India even in the present days, among natives, and were probably used only in temples.")

Page 271-"The night following there was a great solemnity in all the Temples by lighting of candles."

Page 279-"Tapers were lighted up in all the Temples of Ikkers."

On p. 206 Della Valle mentions the Divali ("the Davali or feast of the Indian Gentiles") which was celebrated on 24th October 1623. On page 283 he describes in picturesque detail a festical of illumination on 21st November 1623 which was a "New moon" day and at which the King of Ikkerl, Venkatappa Naik was present. The description of this illumination reads like the description of Divali. I, therefore, reproduce it below :-

Page 283-"November the one and twentieth. This night an infinite number of Torches and candles were lighted, not only in all the Temples, but also in all the Streets, Houses, and Shops of Ibhert, which made a kind of splendour over all the city. In each of the Temples was its Idol, which in some was a serpent; and they had adorned the outward Porches, not only with lights but also with certain contrinances of paper on which were painted men on Horneback. Elephants, people fighting and other old figures; behind which papers lights were placed in certain little Arches like those which we make in our sepulchres: these with other gay Ornaments of silk hung round about made a sufficiently pretty show. In the great Temple not only the inside, in the middle whereof is a very high and slender cupols (which appears without too) but also all the outer walls and all those round about the Piazza which lies before it, as also the Houses on the adjacent sides, were all full of lights. The concourse of people of all sorts and degrees, both Men and Women, was very great; and they appeared to go about visiting all the Temples.

When it was very late the King came to the great Temple accompanied only by his two grandsons ... ... in a Pelanchino, his two orphars on Horse-back ... ... at a great distance, with some number of soldiers and Servants on Foot ... ... The King stayed in the Temple about an hour, being entertained with Musick, Dancing: and other things which I could not see because I was without."

We note with interest the contriounces of paper with lights behind them, which adorned the outward porches at this festival of a.D. 1623 on the New-Moon day. They can be compared with hanging paperlanterns which adorn the fronts of houses in modern Diodli celebrations.

Letter No. VII dated 31st January 1624 from Goa-

Page 348-Description of a Temple near Mangalore

-Description of a Pillar for light near the Temple :-

"Where the stairs begin stands a high, straight and round brazes pilled "y'd about in several places with little fillets; 'its about 60. Palms (each palm = about 9 inches) and one and a half thick from the bottom; to the top, with little dimunition. On this Filler are placed about the stairs round brazes wheth? made with many apokes round about like stars: they are to support the lights in great Festivals and are distant about there Palms one from another. The top terminates

<sup>1.</sup> The Editor States .- "This piller is not mentioned in modern descriptions of the Temple."

<sup>2.</sup> What was the exact size of these whools? Were they used as pulle for beleting up hanging lamps?

in a great brasen candle-stick of five branches of which the middlemost is highest, the other four of equal height. The foot of the Piller is square and bath an Idol engraven on each side: the whole structure is or at least seems to be, all of one piece."

Page 348—"The walls of a less Inclosure (wherein according to the custom, the Temple stands are also surrounded on the outside with eleons usoden rails up to the too, district one shove the other little more than an Architectural Palm: there also serve to hear Lights on Festival ocasions; which must needs make a brave show, the Temple thereby appearing as if it were all on fire)."

It is clear from the evidence recorded so far that wax.condler were used in the Thic century not only by the Christians of Gas in their Churches but also by the Hindus in their temples as clearly stated by Pietro Della Valle (a.b. 16'3'-24) in his description of Hindu Temples. This use of wax-condler in Hindu temples in A.b. 16'3' and in a pacoda is Siam referred to by Tavernier (c.A. D 16'7) is further corroborated by Duarto Barbora (a.b. 1519) who in his Travale (file). Society. (andon 1918) Vol. 1, p. 115, expressly mentions the use of candles side by side with that of oil-lamps as will be seen from the following extract:—

Page 115—Speaking of the Brahmins of Gujarat Barbosa observes:—

".....they celebrate great ceremonies in honour of these idals entertaining them with great store of candles and oil-lamps and with bells after our fashion)."

In the Ain-i-Akhari (A.D. 1590) the Regulations's for the Illuminations at Akhar's court are recorded in detail. They refer to the use of

At most when the Size option the 14th degree of the sig. Arins, they place in the Six's rays, is find of shining onty, called in the Hindustan language Soury Kernt (QVSFR) and put to it a piece of cotton which from hest of the stone catches fire, And this calculatif fire is committed to the care of proper persons; and the lamp-lighters, link-mess and cooks make use there of for their respective offices: and when they press appires, they statk hower fires. The versual this fire is prescreed in. in million

<sup>1.</sup> The height of the brane Filter was 60 Falor. The Editor transfer—reposhly the Intlain measure or Falor is here referred to equal to about min inches The measure of a "Falor" may sho be understood as equal to about \$\text{i}\$ inches (Ineath of a band) of \$I Falor = 1\$ inches the bailth of the Falor = 1\$ inches the bailth of the Falor = 1\$ inches the bailth of the Falor = 1\$ inches The Falor = 1\$ inches = 1

<sup>.</sup> These Regularism for the Illustications (Vide pp. 42.45 of Francis Gladwin's Bog Trans. of dis-i-dabori, Vol. I. Calcitta, 1897) may be reproduced here a stry are very useful for reconstructing the history of lamps and lighting in Mediasval India.—

Resulations for the Illuminations .- This is a spark of colestial fire.

complow candles at the Muchal Court in different kinds of candles. Sixthe Camphor candles, three yards long and even more must have been a grand sight to see for Akbar's courtiers. As compared with the camphor candles the wars-candles used in Hindu temples (about A.D. 1518) in Gujerat and in Kanara (A.D. 1623) dwindle into insignificance. Wax-candles must have the in Akbar's time in the bouse-hold of common men, both Hindu and Muslim, but they don't appear to have been in favour at the imperial in Court which was devoted to the pursuit of the sublime and the beautiful, irrespective of the cost involved in such a pursuit.

Though Barbosa refers to the use of max candler in Hindu Temples in AD. 1518 in Gujarat Bhour in his Memoirs deplores the absence of candles and candle-sticks in Hindustan in his diary for A.D. 1325-1526. Perhaps he did not notice them in Central and Northern India in the territories conquered by him. Are we. therefore, to suppose that the use of Candles was unknown in India before a.D. 1498, the date of Portuguese advent? In the following extract from Baburnadm (Trans.

Aganger or the fire-pot. There is also a shining white stone colled Chunder Kerant (जन्महान्त), which, upon being exposed to the moon's beams, drips water.

Brery afternoom, at one Ghurry before sun-set his Majesty, if on borse-back slights or if sleeping, he is enginend. And when the Son sets, the attendants light up moles complet couldn't include confidentials of gold and silver, and hrins them into the presence, when a singer of sweet me ody, taking up one of the candle-sticks, sings a variety of deliability of six and concludes with impoirts blessings on his Melestic

It is impossible to describe the beauty and various forms of these candle-sticks:

Some of them swiph larry possels and upwards and are carved with a variety of figures,

Some are single, outhers of me branches and others of more.

They cut implies easilies here special long, and some larges, and they are ornsend with former. The paleses more cert lituralised within itself and with out with familiaring fased upon pair with irres prosper. The first, see and not third nights of the moon when there is the little monolityle proregs are lighted with eight familiarity. And they make the contract the familiarity of the tensit they decrease one in number every right, so that on the sendight, when the mone shains very bright, one familiarity is not the sale of the

In order to render the royal camp conspicuous to those who come from far, his Majawy has caused to be created in the frost of the Doulet Khonch, a pole upwards of forty yards high whi. b is supported by sisteen ropes and from the top of the pole is suspended a large leasers which they call Abaseleech (SIRS) [SQ1] or application.

These effices are performed by many of the Munsubdars, Abdeems, and other military men. I be pay of a footsoldier never attoacks two thousand four hundred, and is cover ince than 20 Dans."

<sup>(</sup>continued from the previous page)

by A. S. Beveridge, Vol. II, London, 1922, p. 518) we get a list of the defects of Hindustan, among which the absence of candles and candle-nicks is emphatically deplored:—

"Hindustan is a country of few charms. Its people have no good looks; of social intercourse, paying and receiving visits there is none ....., no to-baths, no colleges, no candles, torches or candlesticks.

In place of candle and torch they have a great dirty gang they call not proved the control of th

We must now try to trace references to the use of candles in India by Muslims prior to A. D. 1500 and later than the Muslim conquest of Sind in A. D. 712.

In concluding this paper I must not fail to take notice of the socalled candle-stick\* discovered in Mohenjo Daro excavations, about which Ernest Mackay remarks as follows on p. 137 of his Indus Civilization (London, 193.):—

"A pottery candlestick (Pl. O, S) provides an answer to the question how the houses were lighted; no dish or other receptacle has yet ben found which, by definite marks of burning at the edge, can be identified as a lamp. It seems certain that some vegetable oil must have been used for lamps in the Indus valley, since lamps were undoubtedly known in neighbouring countries at that time; in any case it is extremely interesting to discover that candles were also in use at such an early date."

The candlesticl' referred to above is described in detail by Mackay on p. 416 of Vol. 1 of Further Excausitions at Mohenjo-Daren, 1938, New Delhi. If candlesticks were used in India as early as c. B. c. 3000 during the days of the Indus valley civilization one wonders why their use should not be referred to in the extant Indian literature from the Revoka onwards upto the end of the 15th century A. D. Though the been-wax was known in India from very early times and was used for

I have to thank my friend Dr. A. D. Pussiker, Assistant Director, Bhārstlya Vidyā Bharan, Bombay, for drawing my attention to this candlestick and Mr. Mackey's regarks on it.

In reply to my inquiry about candles in India in pre-Mughal times
 Dr. H. Goett, Curator, Baroda Museum, wrote on 2-10-1947.

<sup>&</sup>quot;As to andles I should regard Mackay's identification of a candle-stick from Mohapip Dare very improbable. In India I cannet trace candles before Mushal invasion. Thus the candle might have been introduced from Crims. But I do not feel user, as candles played a great role in Christian initial since oldent times. However, I do not how since when exactly. The oldest European candle-sticks which I know set of the 7th exempty. On ground of quite a number of considerations, which I mannet specify here, I should be inclined to search the origin of the wax-candle in late Tang China."

medical and other purposes such as the preparation of wax-moulds for casting metal images, no trace of beca-wax used for the manufacture of candles has yet been found so far as my knowledge goes. This view of mine gets some confirmation from the statement of Emperor Baber in his Memoir for a. D. 1525-20 deploring the absence of candles and candlesticks in Hindusen by which he evidently means Northern Indian territory conqueted by him. The use of candles in Hindu temples in Gujarat referred to by Barbosa in a. D. 1518 only shows that they were getting current in India towards the end of the 15th century perhaps as a result of Portuguese contact. This is the only conclusion I can draw from the evidence so far traced and recorded.

Before closing this paper I record the following reference to "maxen tapers" used in a Hindu Chapel (before the goddess Kali) at Calicut between A.D. 1502 and 1508:—

In the Trovels of the Italian traveller Varthema (Argonaut Press, London, 19 8) chap. VII is devoted to Calical 19p. 55-70). While describing the King of Calicut and his Chapel Verthema refers to the sacrifice of a cock before the goddess (Sathanas = Kālī) in the Chapel and observes.

Page 56—"They have a certain small table......extremely well adorned with rosss. Sowers and other ornaments. Upon this table they have the blood of a cock...... they have a sliver knife with which they have killed the cock, and which they tinge with the blood...... and all yall that blood is burnt, the waxen topers being kept lighted during the wholes time."

The above reference to "waxen tapers" by Verthems is the estliest to far traced by me and hence important for my inquiry. The so far traced by me and hence important for my inquiry. The references to the use of wax.candles by Verthams, Barbors and Pistro Dello Valle between a. D. 1502 and 1623 illustrate the use of candles along the coast line of India.

Chronology	Reference
c. B. C. 3000	-Supposed candle-stick found at Mohenjo-Daro.
	-Bees-wax candles mentioned by Roman writers.
	-candles and candle-sticks mentioned in Holy Bible.
Between A.D.	-Turuşka taila for feeding lamps mentioned in आपेमअपी.
500 and 1100	सूलकस्य and <i>Pārasīka taila</i> (Persian oil) mentioned by Bilhans in the विकास हवेषयित,
A.D. 1000-1100	-Use of ornamental candle sticks in Europe,
A.D. 1200-1300	-Guild of travelling candle-makers in Paris.
A.D. 1502-1508	-Varthema refers to "waxen tapers" used in a Hindu Chapel at Calicut,
A,D. 1518	-Barbosa refers to the use of candles and oil-lamps by the Brahmins of Gujarat before idols during ceremonies in their honour.
A.D. 1525	-Baber deplores the absence of candles and candle-sticks in Hindusthan.
A.D. 1590	- Ain-i-Akbarī mentions camphor-candles (three yards long) and gold and silver candlesticks at Akbar's court.
A.D. 1623	-Pietro Della Valle refers to the use of "wax-candles" in
(November)	a Hindu temple at ikkeri (in the Shimoga District of Mysors).
4.D, 1672-1681	—John Fryer in his description of Goa mentions "Wax for tapers" and "massy silver-candle-sticks used in Churches at Goa.
	-Tavernier refers to "wax-candles" before an alter in
	Pagoda at Siam.
	-Tavernier mentions woz-tapers used by Dutch Sailors.
c. A. D. 1676	— The Rajavyavaharakula mentions मोम्दानी (candlestick) and मोम्बनी (candle).
c. A. D. 1'-75-	
A. D. 1800	
A. D. 1723	-750 candles and 20 Rose-water bottles procured from the English by King Shahu of Satara,

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