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COMMEMORATIVE ESSAYS

PRESENTED TO

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1917

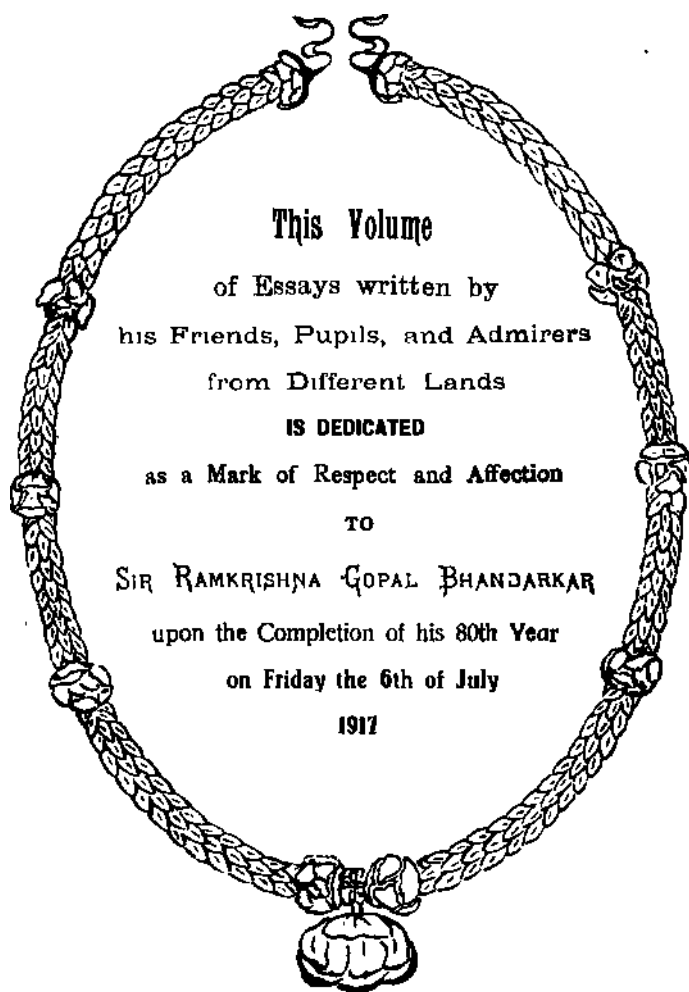
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Printed by Anant Vmayok Pitwardhan B. A., at the
Aryabhushan Press, Poona, and published by
Shripad Krishna Belvalkar, M. A. PhD, for the
Bhandarkar Oriental Research Institute POONA

First Edition, 1917, Seven hundred and fifty copies



BORN
6th OF JULY 1837



This Volume
of Essays written by
his Friends, Pupils, and Admirers
from Different Lands
IS DEDICATED
as a Mark of Respect and Affection
TO
SIR RAMKRISHNA GOPAL BHANDARKAR
upon the Completion of his 80th Year
on Friday the 6th of July
1917

ILLUSTRATIONS

1 Portrait	<i>Opposite Dedication</i>
2 Vedic and Chaldean Worlds	<i>Between pp. 40 and 41</i>
3 Semiretchenski-krai	<i>To face page 94</i>
4 Tantrio Lotus	<i>To face page 249</i>
5 Khotanese Ms. fol. 44	<i>To face page 420</i>
6 Khotanese Ms. fol. 64	<i>To face page 428</i>
7 Ancient Head-gear	<i>To face page 487</i>

CONTENTS

	PAGE8
VEDA AND ANTIQUITY . . .	1-96
1 The Principles to be followed in translating the Rgveda—By ARTHUR A. MACBONKLL, M.A., Ph. D., Boden Professor of Sanskrit in the University of Oxford	3
2 On some River-names in the Rgveda,—By M AUREL STEIN, K.C.I.E., D. Litt, D. SC, ph. D., Superintendent, Indian Archaeological Survey, on special duty	21
3 The Chaldean and Indian Vedas—By BAL GANGADHAR TILAK, B.A., LL. B., Poona	29
4 Brahmana-quotations in the Nirukta—By PAN-DURANG DAMODAR GUNE, M.A., Ph. D, Professor of Sanskrit, Ferguson College, Poona •	43
5 Some Avestan Translations—By JAMES HOPE MOULTON, M.A., D.Litt., P. D., D.C.L., Professor of Hellenistic Greek in Manchester University	55
6 The Hunas in the Avesta and Pahlavi—By Shamsul Ulma JIVANJI JAMSHEDJI MODI, B.A., Ph. D., C. I. E., Vice-President, Bombay Branch of the Royal Asiatic Society, Bombay ••	65
7 The Early History of the Indo-Iranians—By A. BERRIEDALE KEITH, D,C. L., D. Litt., Regius Professor of Sanskrit and Comparative Philology in Edinburgh University ... ***	81
8 The Land of the Seven Rivers—By NARHAR GOPAL SARDESAI, L. M. & S., Poona	93
EPICS AND PURANAS	97-114
9 'Tato jayam udlrayet'—Par SYLVAIN LEVI Professeur au College de France, Paris	99
10 Ancient Indian Genealogies: Are they trustworthy?—BY F. E. PARGITER, M. A., I. C. S. (retired), Late Judge of the High Court, Cal-	

outta; Vice-President, Royal Asiatic Society, London	107
PALI, BUDDHISM AND JAINISM	115-152
11 The Home of Literary Pali—By GEORGE A. GRIERSON, K. C. I. E., Ph. D., D. Litt., I. C. S. (retired), Superintendent of the Linguistic Sur- vey of India	117
12 Cakkavatti (Dlgha Nikaya, xxvi)—By T. W. EHYS DAVIDS, Ph. D., LL. D., D. SC, Professor of Comparative Religion in the University of Manchester.	125
13 Sage and King in the Kosala-Samyutta—By MRS. RHYS DAVIDS, M. A., Professor of Philo- sophy in the University of Manchester	133
14 Jaina Philosophy—By Sastravisarada Jaina- carya Muniraja Sri VIJAYADHARMA SURI, Amreli, Kathiawad.	139
PHILOSOPHY.	153-184
15 The Ancient Indian School of Logic: an Outline —By Mahamahopadhyaya SATIS CHANDRA VIDYABHUSHAN, M. A, Ph. D., Principal, Sans- krit College, Calcutta	155
16 Prabhakara's Theory of Error—By Mahama- hopadhyaya GANGANATH JHA, M. A., D. Litt., Professor of Sanskrit, Muir Central College, Allahabad.	167
17 Matharavrtti and the Date of tsvarakrsna— By SHRIPAD KRISHNA BELVALKAR, M.A., P.H.D., Professor of Sanskrit, Deccan College, Poona	
HISTORY AND ARCHEOLOGY.	185-322
18 The Vikrama Era—By D. R. BHANDARKAR, M.A., Superintendent, Archaeological Survey, Western Circle, Poona	187
19 New Light on the Oupta Era and the Date of Mihirakula—By KASHINATH BAPU PATHAK, B. A, Retired Professor of Sanskrit, Deccan College, Poona.	195

The Fiscal Administration under the Early-Colas—By Rao Sahib 11 K.RISNNASHASTRJ. B A., Officiating Government Epigraphist for India, Madras	223
21 GangavadJ—By B LEWIS RiCC, C.H.E Late Director of Archaeological Bt; farche^ in Mysore, Harrow-on-the-Hill	237
22 Bombay in the Eleventh Century--Bv Mahamahopadhyaya, HAR APR AS AD SITAKTIU, M. A., C. I. E., Vice-President, Asiatic Society of Bengal, Calcutta •• •••	249
23 Virupaksa II of Vi jay an agar— By S. KRISHNA-SWAM! AIYANGAR, M.A, University Professor of Indian History and Archaeology, Madras •• •••	255
24 The Jain Teachers of Akbar— By VINCENT A SMITH, M A , I. C. S (retired), Oxford ••	265
25 Some Notes on William Hawkins (1607-12)-By H. G. RAWLINSON, M. A., Principal, Karnatak College, Dharwar •••••	277
26 A Chapter from the Life of Shivaji (1665-67)—By JADUNATH SARKAR, M. A., Professor of History, Patna College, Bankipore •••••	295
27 Some Palseographic Notes: Early Nagari—By V. SUKTHANKAR, Ph. D., Assistant Superintendent, Archseological Survey, Western Circle, Poona •••••	309
GRAMMAR AND PHILOLOGY. •••••	323-364
28 The Bhagavadgita from Grammatical and Literary Points of View—By VAIJANATH KASHINATH RAJWADE, M. A., Late Professor of English, Fergusson College, Poona	325
29 The influence of Analogy in Sanskrit—By VINAYAK SAKHARAM GHATE, M. A., Professor of Sanskrit, Elphinstone College, Bombay. •••••	389

30 A propos de la Racine 'lubh'—Par A. MEIL- LET, Professeur au College de France, Paris...	357
31 A propos de l'Accent d'Intensite en Indo- Aryen—Par JULES BLOCH, Professeur au College de France •	359
KAVYA AND ALANKARA	..365-412
32 Date of Siidraaka\s Mrcchakatika—By Sardar KHANDERAO CHINTAMAN MEHENDALE, B. A., Poona	367
33 The Making of the Sanskrit Poet—By F. W. THOMAS, Ph. D., Librarian, India Office Lib- rary, London--	375
34 The Pre-dhvani Schools of Alahkara—By V. V. SOVANI, M. A., Professor of Sanskrit, Meerut College, Meerut	387
35 Some Notes on Bhamaha—By Rao Bahadur Vidyabhusana K. P. TRIVEDI, B. A., Late Principal, P. R. Training College, Ahme- dabad	401
TECHNICAL SCIENCES	...413-455
36 An Ancient Medical Manuscript from East- ern Turkestan—By A. F. RUDOLF HOERNLE, Professor in Oxford University.	415
37 Kirlta-Mukuta—By RAMBHAPRA OJHA, M.A., LL. B., Educational Inspector, Al war State, Alwar.	433
38 A Stanza from Panini's Siksa—By GANESH SAKHA RAM KHARE, Hon. Engineer, Poona ••	439
39 Gupta Style of Architecture and the Origin of the Sikhara—By E. B. HAVELL, Principal, School of Arts, Calcutta.	443
40 Notes on Ancient Hindu Shipping—By RA- DHAKUMAD MUKERJI, M. A., Ph. D., Professor of Indian History, National Council of Educa- tion, Bengal	447

Veda and Antiquity

THE PRINCIPLES TO BE FOLLOWED IN TRANSLATING THE RGVEDA

BY A. A. MACDONELL

TT is now one hundred and twelve years since the first authentic information about the *Ryṛerfa* reached European scholars through Colebrooke's essay on tho Vedas in *Aaiatick Researches*, Not, however, til] the middle of the nineteenth century did a portion of the text of the *figreda* supplemented by Sayana's commentary become accessible by the publication, in 1849, of the first volume of Max Muller's edition. In the following year was begun Wilson's translation which was based on Sayana's interpretation. No other method was at that time possible because only a fraction of the text was known and no other aids, such as treatises on Vedic grammar, as yet existed. Wilson's version was carried on by him, and after his death by others according to the same plan, till it was completed by tho appearance of the sixth and last volume in 1888. All the Vedic literature known to Sayana had by the end of the nineteenth century been published and at the present time lies open to the use of Sanskrit scholars, Two questions now arise. Can the traditional method of translation, which was a necessity in 1850, be considered at all adequate to-day? And if it is not adequate, what method should be substituted for it in producing a new version? Before supplying definite answers we must examine in its chronological order the traditional material available for exegesis, and test its value by examples as far as the space at our disposal will allow.

The investigation of the Brahmanas has shown that, being mainly concerned with speculation on the nature of sacrifice, they were already far removed from the spirit of the composers of the Vedic hymns, and contain very little capable of throwing light on the original sense of those hymns. They only give occasional explanations of the sense of the Mantras and these explanations are often very

fanciful. How completely they can misunderstand the meaning intended by the seers appears sufficiently from the following two examples. The *Satapatha Brahmana* (vii. 4, J, 9) in referring to the refrain of Rv. x. 121, *hUmai dcvUya Iiavfsa ndhoma* 'to what god should we offer worship with oblation', says 'Ka is Prajapati: to him let us offer oblation.' Another Brahmana passage, in explaining the epithet 'golden-handed' (*hi ran ya-pani*) as applied to the sun, remarks that the sun had lost his hand and had got instead one of gold.² Quite apart from the linguistic evidence,³ such interpretations show that there was already a considerable gap between the period of the Brahmanas and that of the Mantras.

We next come to the *Xighantus* which constitute, as far as they go, the oldest Vedic lexicographical material extant. They are, however, so limited in scope as to be of very little use in the interpretation of Vedic words. Of their five sections the first three contain sixty-nine lists of the synonyms of certain well-known nouns and verbs. Thus the list beginning with *rebhdh* ends with the explanation *it I trayodaia stntrnamani*; and that commencing with *cikyāt* ends *ity astau pasyatiAarmanah*. The meanings they thus assign are often so vague and general as to leave the specific sense of the terms enumerated quite uncertain. Thus among the synonyms of *vac* 'speech' appear such words as *sloka*, *nitid*, *re*, *yutha*, *anustubh*, which denote different kinds of verses or compositions and can never have been employed to express the simple meaning of 'speech.' As there is a wide gap between the Mantras and these lists, even the general meanings may sometimes be wrong. The remaining two sections of the *Niyhayttis* consist of nine mere lists of words of different senses which

1 This led later to the employment of Ka not only as an epithet of Prajapati (AB. iii. 22. 7), but as a name, used by itself, of the supreme god (MS. iii. 12, 5). See Macdonell, *Vedic Mythology*, p. 119. Cp. SB. ii 5, 2, 13.

2 See Max Muller, *Flistnni of Ancient tiunbhut Litciutun* p. 433, note.

3 See Macdonell *Vedic (itnmmmai for Students*, p. 1.

are not explained in any way. As even the first **three** sections are far from containing all the difficult words in the Veda, it is obvious that the help afforded by this vocabulary to the interpreter of the *Rgveda* is of a very limited and meagre kind.

This vocabulary brings us to Yaska, the oldest surviving representative of the commentators; for it was he who explained the *Nirukta* by adducing in illustration a large number of verses, chiefly from the *Rigveda*, which he interprets. In this sense his *Nirukta* is the earliest continuous Vedic commentary; but the total number of the Mantras explained by him constitutes only a very small portion of the *Rigveda*. He is a learned interpreter winking with the materials which scholarship had accumulated before his age. He also enjoys a great advantage in point of time compared with the later compilers of detailed and continuous commentaries, belonging as he did to quite a different period, in which Sanskrit was still in process of natural development. In all cases of difficulty his method of interpretation is based on etymology. When, however, he positively states that a word which does not occur in later Sanskrit has a particular sense that suits the passage, we may often assume that such a statement is based on traditional authority even though he may support the meaning he assigns by an etymology. Thus when he asserts that *sraghnifti* means a 'gambler' (v. 22) there seems no ground for doubting the assertion. But when the sense appears to rest solely on etymology and does not suit the passage, it is doubtful whether he has any such authority behind him. And when, as is often the case, he offers two or more explanations derived from mere etymology, we must suppose him to be purely conjectural. Thus the doubtfulness of much of his explanation shows that he was not the depository of any certain interpretation of the hymns handed down by tradition from the period when they were intelligible to every one who recited them.

This conclusion is corroborated by the fact that the seventeen predecessors whom Yaska mentions often give conflicting explanations of the same Vedic term. Thus

Aurnavabha, he tells us (Nir. vi. 13), interprets *mlsatya* an epithet of the Asvins, as 'true, not false' (*xatyau, na asatyam*, Agrayana as 'leaders of truth' (*mtyanaya pranetarau*), while Yaska himself thinks it may mean 'nose-born' (*nasika-prabharan*). Again, Kraustuki took *dravinorids* to be a name of Tndra, but Sakapuni regarded it as a name of Agni.¹ Another, Kautsa, actually asserted that the science of Vedic exposition was useless, because the Vedic hymns and formulae were obscure, unmeaning and mutually contradictory. Yaska moreover mentions several different schools of interpretation, the Nairuktas or etymologists, the Aitihasikas or legendary writers, the Yajnikas or ritualists, the Parivrajakas or ascetic mendicants. Each of these explained difficulties according to its respective bias. Thus he tells us (Nir. xii. 1) the various views as to who the Asvins were: "'Heaven and Earth' say some; 'Day and Night' * say others; 'Sun and Moon' * say others; 'two kings, performers of holy acts' say the Aitihasikas."² From this it is clear that in and before Yaska's time there existed no uniform tradition of interpretation from the period when the hymns of the T}v. were still understood, but that on the contrary there then prevailed wide-spread divergences in the explanation of the obscurities of those hymns.

We now come to Sayana, the author of the great commentary on the *Rgveda*. This work differs from the *Nirukta* in being continuous, inasmuch as it explains every *re* of the "Rv., while the former comments on only about 600 isolated stanzas out of a total of about 10,500 in the *tyvedu*. It is also more detailed inasmuch as it comments on practically every word of the text, which is not the case in the *Nirukta*. Sayana labours under the disadvantage of having lived nearly 2000 years later than Yaska and having had much less ancient exegetical material avail-

1 An examination of all the passages of the Rv. in which this term occurs decisively proves that it is an epithet of Agni

2 Several other examples of such divergent interpretations will be found in Muir's article, *On the Interpretation of the Vedn*, J. R. A. S. 1866, p. 18ff.

able for his explanations than Yaska must have had. There is no reason to suppose that he had at his disposal any other authorities than those whom he quotes; on the contrary, it is highly probable that, as he seems in all important cases to adduce older texts in support of his views if he can, he had no such evidence when he adduces none. Thus he quotes Yaska in passages explained by that commentator; for example, on Rv. i. 44, 1 Yaska's five etymological explanations of Agni's epithet *jataiedas*

Sayana commonly follows Yaska, but in several cases he disagrees with him. Thus on Rv. i. 174, 2 he explains the word *danah* as a verb in the 2. sing, impf meaning either 'thou didst subdue' or 'thou didst, cause to cry,' while Yaska explains it as an adjective meaning 'liberal-minded' (*duvu-mamih*). *Dasra*, a frequent dual epithet of the Asvins, is explained by Yaska (vt. 26) as *daraniyan* 'to be seen, sightly'; but by Sayana sometimes in the same sense, in other passages as 'destroyers of enemies, or 'destroyers of diseases', or as 'gods having the name of Dasra.' *Divish* means, according to Yaska, in the plural 'longings after the sky,' but according to Sayana on the same passage (viii. 4, 19) 'sacrificial rites which are the causes of obtaining heaven,' and elsewhere as 'sacrificial days' or 'people who desire heaven, priests.' *Amina* explained by Yaska (vi. 16) as either 'of unlimited measure or quantity' or 'uninjured,' and by Sayana on the same passage as 'uninjurably,' but in another passage where it is applied in the same way, as an epithet of Indra. In two new alternative meanings (unknown to Yaska), 'going everywhere' or 'beloved by all.'³

Sayana further explains many words differently in different passages, though according to the context the meaning must be the same. Thus *usura* is most variously

1 Here he picks out only one of these explanations, analysing the compound as a Tatpuruṣa. *jatana* in *vedita*, though strictly speaking it is a Bahuvrīhi as the accent shows he who has knowledge of created things.'

2 Of course an impossible etymology.

3 A good example of how conjectural Sayana often is.

Tendered as ' expeller of foes,' ' giver of strength,' ' giver of life,' ' hurler away of what is undesired,' ' giver of breath or water,' ' thrower of oblations, priest,' ' taker away of breath,' ' expeller of water, Parjanya,' ' impeller.' ' strong,' ' wise • and ' rain water' or ' a water-discharging cloud.'¹

Thus it is clear that when Yaska gives two or more alternative explanations of a word in the same passage he can be following no certain tradition and all but one sense must necessarily be wrong, and even that one may possibly be so. A similar remark applies to Sayana. Again, in the many cases in which Sayana contradicts Yaska, he is not following the tradition, or if he is right the tradition is wrong. Moreover, when Sayana gives divergent interpretations of the same word in parallel passages, one or other of such interpretations must be wrong. It is thus evident that of about a large number of the most difficult words neither Yaska nor Sayana possessed any certain knowledge either from tradition or etymology. Many of their etymological explanations are, moreover, obviously not only grotesque but impossible, as will be shown below. Thus a translation of the Rv. based solely on the interpretation of the Vedic commentators cannot possibly be satisfactory. The guidance of these writers is indeed invaluable in the interpretation of the Brahmanas and Sutras, because they lived in the atmosphere of the ceremonial represented by that class of literature. But they are removed both in language and thought from the atmosphere prevailing in the hymns of the *liyreda*. How otherwise could it have been asserted even before the time of Yaska that the Vedic hymns were unmeaning? In fact the very excellence of these writers as expositors of the ritual literature was actually a drawback when they interpreted the older literature of the Mantras. Their familiarity with classical Sanskrit led them to see its ordinary idiom in the Vedic hymns also. Thus Sayana constantly explains Vedic forms as irregularities from the point of view of Sanskrit, when they are perfectly regular ancient forms. For instance, in

his comments on Rv. viii. 45,17, he explains *kruarate*, the normal 3. sing. Atm. pres. subjunctive of AT- 'to do', as the dat. sing. pros part, for *kruras* and goes on to say that this dat. stands for the inst and then for the locative. Again, since these commentators regarded (the forms of sacrifice known to them as having existed from the beginning of the world, they naturally took for granted that the ancient seers of the Rv. sacrificed in the same way as they themselves did. As their own mythology and cosmology (though in reality differing largely in "many respects from those of the Rs) seemed to them to be revealed truth, they naturally saw them in the old hymns also. Thus Sayana considers the dwarf incarnation of Visnu to be referred to in Rv i 22, Ififf; yet Yaska (xii 19) seems to know nothing of that incarnation, which in any case can be shown to have been a gradual mythological development of the post-Rgvedic period. Havana also (on I. i. 114,6) identifies the Rudra of the hymns with the husband of Parvati, who is unknown to the I. i. v.^d And just as he was blinded by the theology of the Brahmanas, he was misled by the etymological fictions of the *Nirukta*.

The traditional method of interpreting the Rv. that prevails in India by no means presents a unique state of things. The sacred books of other ancient nations have been as a rule explained in the same way by later generations according to the system of theology and the level of scholarship prevailing at the time. In every case such interpretation has been given out as a tradition, or in other words has claimed for itself an antiquity and a value which have often fallen greatly short of the truth. The interpretation of the Hebrew Books of the Old Testament according to the Talmud and the Rabbis affords quite a parallel case. But have we any reason to expect that any other method can yield more certain results. The method of natural science which has led to such an astounding advancement of knowledge, for instance in the sphere of

1 See Maednnell *Mythomlogira! stastess in the Rqeda* J R A S '7, 108 ff.; *Vedic Mythology* p. 41.

2 Cp Mair *Sant.kiU TejLts* iv 57 and 257

2 [Bbandarkar Com. Vol.)

physics, chemistry, and medicine, during the preceding and the present century, is fundamentally the same as that which has been applied in modern European scholarship, Tf) this have been due such marvellous achievements as the decipherment of the cuneiform writings of Perrin and of the rock inscriptions of India, and the discovery of the languages concealed under those characters which had for many centuries been absolutely unintelligible to the natives of those countries. The application of this method has also resulted in extraordinary progress being made in the study of the literature of other ancient civilizations, such as that of the Babylonians, Egyptians, Hebrews, and Homeric (rreeks. Considering that the aids accessible to the Vedic researcher are more abundant than in the aforesaid cases, there is good ground for supposing that the ultimate achievements will be correspondingly greater. The essential nature of the critical method is the patient and exhaustive collection, co-ordination, sifting and evaluation of the facts bearing on the subject of investigation. The sole aim here being the attainment of truth, it is a positive advantage that the translators of ancient sacred books should be outsiders rather than the native custodian^ of such writings. The latter could not escape from religious bias; an orthodox "Brahman could not possibly do so

The modern critical Vedic scholar has at his disposal for the purposes of interpretation practically all the traditional material accessible to Sfiyana in the 14th century. But over and above this common material the scientific scholar possesses a number of valuable resources which were unknown to the commentators. These are the evidence of the *Acesla*, of Comparative Philology, of Comparative Mythology, of the anthropology of ancient peoples, besides the application of the historical method to traditional evidence as well as to classical Sanskrit as throwing light on the Veda. Let us examine the value of each of these resources in succession.

The " *Anesta* is capable, of elucidating questions of language, metre, mythology and cult'in the By Thus ii shows, for example, that the Vedic imperative form *e-dhi* is

based on *ae-dhi* (Av. *zdi*), and that *sed*, the weak form of the perfect of *sa*, stands for *.scud* (Av. *hazd*)¹ Again, the parallel metre of the *Areata* shows that the caesura in the Tristubh Pada must originally have come after the fourth syllable only, and never after the fifth.² The evidence of the Avestic Mithra proves that Mitra was a sun-god, a fact which is not clear from the Rv. itself. The parallelism of the Avestic, Ahura indicates that the term Asura originally applied to the highest gods and only later came to mean demon. It incidentally disproves the etymology of Yaska who says (Nir. iii S): "it is well known that he (the Creator) formed the Swas (gods) from *au*, 'good,* in which their essence consists, and that he formed the *Aauraa* from *axu* (*a \ su*, 'not good'), and that in this consists their essence." The statements of the *Areata* about *haoma* show that the preparation and cult of Soma were pre-Indian.

Comparative Philology not only throws direct light on the origin and meaning of many Vedic words, but negatively implies a check on wild and impossible etymologies. Thus the word *striatal i* (in the loc. sing.) is explained etymologically by Yaska (xi. 24 on Hv. i. 95, 15) by *,arrdsu karma-latino*, 'lit all extensions (= performances) of works' (*tati* being here intended as a noun from *tan* 'to stretch'); Sayana follows his explanation, but adds 'or at all sacrifices.' But we know from the cognate⁴ languages that this word (with its doublet *yinti-hil*) is a derivative, not a compound, of *sarvu* 'whole'¹ (Lat *mihi*) with the suffix *-ta-* (or *-fat*) which appears in Vedic, Avestic, Greek, and Latin. Av. *haurm-faf*, Gk. <5>TVT- (cp. Lat *juv'cti-tati* 'youth'), meaning 'wholeness', 'complete welfare'. This meaning is shown, by a comparison of all the passages in which the word occurs, to be applicable practically everywhere; Sayana himself cannot help once (on Rv. iii 54, 11) giving it the similar meaning of 'every desired good', though he elsewhere renders it by 'sacrifice', or 'every worshipper'.

1 Cp. Macdonell, J. *Vedic Urnrunwi for students*, p. 19,

- Op., 'at. v. 110, 110t-nuLL 3 3 Cp ledu, Mythology

(*sarvah stota*), 'battle', or 'extension of all enjoyments'.

The verb *spas* 'to see', of which several forms occur in the Rv.,¹ Sayana regularly explains as meaning either 'to touch' (*sprs*) or 'to injure' (*badlt*): *dnu-spasta*, which he renders by *drslt-yocarū*, is the only form in which he assigns its real meaning to this verb, doubtless because the only form surviving in classical Sanskrit is the participle *spahtu* 'clear'. But the sense 'to see' suits perfectly in all passages of the Rv., and Comparative Philology shows that this root is an Indo-European root meaning 'to see', as is proved by the Av. *span*, Lat. *spec-io*, Old German *speh-on*, Wng. *spy*. The noun *spds* 'spy' Sayana continues to explain by *sprs* or *badh*, while he gives it the various senses of 'ray', 'ray or spy', 'form' (*rupam*) 'injurious follower'; and the nom. *spdt* he renders in one passage (v. 59,1) by *sprasta hota* 'the priest who touches', but in another (viii. 50,15) by *sarvasya jnata*, 'the knower of everything'. Here again the meaning 'spy' suits the context everywhere, and the evidence of cognate languages corroborates this sense: Av. *spaa*, Eng. *spy*, Lat. *au-spec-* 'augur' (that is, 'inspector of birds').

The plural form *utdyah* Sayana generally (and correctly) renders by 'aids', but once (on Rv. i. 84, 20) as *yan~fdrali* 'goers' or *dhufayah* 'shakers' (meaning the Maruts). The latter etymology, which implies the dropping of a single initial consonant, can be shown by the laws of Vedic phonology to be impossible.²

Comparative Mythology proves that the nature of various deities cannot be fully understood from Vedic evidence alone because they are derived from earlier periods. Thus the original character of Yama can only be ascertained by taking the conception of the Avestic Yima into consideration. Again the trait of paternity in the Dyaus of the ftv.^a is shown by the Greek *feu irarep* and the Lat *Juppiter*, as parallels of *dyaus pitar*, to be not purely Vedic, but inherited from the remote Indo-European period.

1 See *Vedic Grammar for Students*, p. 431.

2 Cp. *Vedic Grammar for Students*, 15 k.

3 Cp. *Vedu, Mythology* §11.

The evidence of ethnology indicates that the notion of Heaven and Earth being universal parents is a very primitive one, and must have been inherited by the Rv. from a very early age.¹ It further enables us to understand the meaning of various phenomena of the funeral ceremony, such as the wife's lying down on the pyre beside her dead husband, or the taking of the bow from his hand,² and explains the history of widow-burning in Vedic India.³

The value of the historical method in utilizing classical Sanskrit as an aid in the interpretation of the Rv. is perhaps best brought out by showing the lack of it in Sayana's explanations. This weakness is apparent in the first place on the linguistic side. Taking his stand on the later language he constantly treats the older normal Vedic forms as irregularities. Thus *viraya*, the instrumental case used adverbially, of the denominative fern. *tiruyU* (formed from *vira*⁴) is explained (iii. 90,1) as the *dafc.* masc. *vlayu* (from *wra*), 'to the hero' (Vayu). The subjunctive form *ayah*⁶ Rv. (viii. 2, 40) is rendered by *ayumayah*, and thus taken not only to be an ind. impf., but also to have a causative sense. On the other hand, past augmented forms are often explained as imperatives, as *dkšan* 'they have eaten' (Rv. x. 15,12), aor. of *glias*,¹ by *adantu* 'Met them eat.' Sayana does not recognise the root *vaks* 'to grow' (the Indo-European evidence of which, though it is extinct in classical {Sanskrit, is proved even by the English *wax* 'to increase'), from which several forms occur in the Rv.⁷ These are all explained by him as formed from *vali* to 'carry' (once from *vac*⁴ to speak'). The 3. pi. *per**. *vavakMif* he renders as a pres. desiderative, 'they wish to bring'⁸ and the 2. sing. perf. *vavdksitha* as 'thou wishest to carry', once even as a 2. sing. imperative, 'do thou desire to carry'

Sayana, moreover, ofteti imports later ideas into the Bgveda. Thus (on i. 114, 6) he accounts for Budra's be-

1 Loc. at. 4 Se© Vedic Grammar for Students, p. 77.

% Op. at., §71. 5 Op. cit., p. 130. 6 Op. at. > p. 381.

3 Cp. History of Sanskrit Literature, p. 126. 7 Op. at., p. 115,

8 The desiderative could only be *nivaksavts*.

ing called the father of the Maruts¹ by a fantastic later story telling how Indra divided the foetus of Diti into forty-nine parts, all of which were by Paramesvara (Rudra), at the request of Parvatī, turned into sons (the Maruts). Of all this the Rv. knows absolutely nothing ; besides there the number of the Maruts is thrice seven or thrice sixty, but never forty-nine.² Matarisvan, who in the Rv. is a producer of fire, sometimes identified with Agni, but in the later Sainhitas and the Brahmanas becomes a name of wind, and is also so regarded by Yaska, is by Sayana (on i. 71, 4) said to mean the principal vital air divided into the five airs, [in commenting on vii. 59, 12 he explains *try ambaka* as 'the father of the three gods Brahma, Visnu and Rudra.' This triad, however, does not exist in the Rv., the only one there being Sun, Wind and Fire."

The question now arises, what are the principles to be followed, in translating the Rv. anew, by the scientifically trained Vedic scholar who possesses the advantages above described over the traditional commentator, and who, moreover, has at his command the results of special and detailed researches, covering the whole field of Vedic study, accumulated during the last forty years.

The greater part of the hymns of the Rv., being simple and straightforward, a new scientific translation will here be in agreement with the traditional interpretation. But owing to the isolation of the Rv., as by far the oldest product of Indian literature, it contains a large amount of material which, as we have seen, the commentators did not understand. The interpretation of this material must be based on an exhaustive examination of the Rv. itself by a complete collection and comparison of the facts it contains, mainly in the spheres of grammar (including syntax), vocabulary, accent, and metre.

The very foundation of a scientific translation must be a strict adherence to the rules of Vedic grammar. The commentators had no such work for the Veda as was available for classical Sanskrit in Panini's great treatise. In

1 Cp. *Vedic Mythology*, pp. 71 and 78. 2 Op. cit., p. 78.

3 Op. cit. p. i3 (bottom).

the course of the last sixty years every single form occurring in the Rv. has been registered, and those which **are** irregular or obscure have been discussed in many articles and monographs. All this material has been gathered together and arranged by myself in my *Vedic Grammar* (1910). Vedic syntax has been thoroughly investigated by Professor Delbriick as a whole, and in detail by others: the results of these researches have been embodied in a chapter of my *Vedic Grammar for Students* (1916). It will no longer be possible to render forms like *raraJmtha* and *ravaksiih* as desideratives, nor the subjunctive *dyas* as an imperfect indicative, nor the injunctive *dhimahi* as an indicative present, nor the instr. fern, *viraya* as a dat. masc, nor the aorist subj. *ramte* by the ind. pres. (*dadati*), as Sayana does. I remember a good example of the pitfalls into which a translator who has not a thorough knowledge of Vedic grammar may stumble. A pupil of mine, who was a very good Sanskrit scholar, once spoke with much contempt of previous translators of Rv. x. 129, and volunteered a rendering of his own. This contained two serious grammatical errors: he took (against the Padapatha) a fairly well known verbal form for a particle (against sandhi and accent), and mis-translated another verbal form, because he was unacquainted with the use of separable prepositions. It sometimes, however, happens that though every grammatical form in a sentence is perfectly certain, the sentence, as a whole and taken by itself, is susceptible of two or three interpretations: a comparison of parallel passages and of the context can then alone decide.

The vocabulary of the Rv. presents peculiar difficulties to the translator, because the meaning of many words can only be ascertained by an exhaustive examination of all the passages in which they occur, and even then doubt may sometimes remain. A very valuable foundation was here laid by Professor Roth, who followed this comparative method, in the large St. Petersburg Dictionary. It is of course impossible that a single scholar, investigating the whole vocabulary of the Rv. in this way, should have arrived at certainty in all cases, A number of minute re-

searches as to the exact sense of individual words have therefore since been undertaken by various scholars. But a great deal still remains to be done in the critical re-examination of results already arrived at. Let us take the word *jatdvedas* as an example of the comparative method. A scrutiny of all the very numerous passages in which it occurs shows that it is an exclusive epithet of Agni. We also find that in one passage (vi. 15, 13) its sense is explained in the Rv. itself: *sir raju visva veda jdnima jatdveduh* 'that king Jatavedas knows all created beings,' this meaning being further corroborated by the Tatpuruṣa compound *jUta-vidyfi* 'knowledge of created beings.' The accent shows us that the word is a Bahuvrīhi; and an examination of the use of Vedic compounds proves that it is a Tatpuruṣa Bahuvrīhi, 'possessing a knowledge of created beings,' and cannot be a Karmadharaya Bahuvrīhi (like the classical Sanskrit *jata-rupa* 'possessing innate beauty'), because the latter type has not yet come into use in the Rv. Yaska, being unacquainted with the comparative method, is uncertain about the exact meaning, and gives as many as five interpretations: *jatani veda*, *jatani va enarh vidur*, *jate jate vidyata iti va*, *jatavitto va jatadhajio*, *jatavidyo va jata-prajMnah*. Again a comparison of the passages in which the word *uru-guyd* appears indicates that it is predominantly an epithet of Viśnu connected with his taking (*vi-kram*) his three strides, and means 'wide-going.' In reviewing parallel passages, the careful examination of the context in the same hymn is a valuable expedient: thus the variation of this epithet in the Visim hymn i. 154 by *uru-kramd* 'wide-striding*' confirms the sense of 'wide-going.' Yaska (ii. 7) correctly renders the word by *mahaguti* 'having a large gait.' Sayana, however, explains it variously, in three stanzas of the same hymn (i. 154), with the renderings—/• *urnbhir*, *wnhadbhir*, *tjiyamnmih*, *atpṛabhutarh giyamano va*; 2- *bahubhir qiyamanah*; 8. *bahnubhir, ma~hatmabhir, gatavyah, xtutyah*—here at least always as if the word were derived from *qa* 'to sing'; but elsewhere he fluctuates more: 'wide-going or much praised' (iii. 6, 4), 'of great renown' (iv. 3, 7), 'great goer'

(iv. 14,1) 'moving in many places or of great renown or one who by his powers makes all his enemies howl' (viii. 29, 7). This is typical of his way of explaining the individual passage before him without reference to others that are parallel. Occasionally, however, he adduces one other passage in support of his interpretation; thus (on i. 60, 1) he explains *rati* as 'friend, ' and then adds, "some say it means 'son\' " quoting in proof of this view Rv. iii. 2, 4 ; but on looking up that verse we find to our surprise that his rendering there is 'giver of desired objects.' This example illustrates well how far removed Sayana's manner of interpretation is from the comparative and critical method. The evidence showing that *uruyayd* means 'wide-going' is confirmed by its use as a neuter substantive both in the Rv. and later in the sense of 'wide space for movement,' 'free movement.'

Many words occur only once in the Rv. and are unknown in the later language. In these cases our only aids are etymology and context, but several examples could be quoted where these are sufficient, though the sense of many must necessarily remain obscure. The meaning is here sometimes ascertainable, because the component parts of the word are clear, as for instance when they are a preposition and a verbal root, inflected forms of which are found elsewhere in the Rv. Thus *ni-varta*, taken with the context (in x. 19, 6) evidently means 'one who causes to return.' Etymology is of course valuable in many other cases when applied according to scientific principles, but is hazardous and often leads to absurdities when used by those who are ignorant of such principles. Thus Sayana's derivation of *ndpat* (on viii. 17, 13) as 'one who causes not to fall' (*na jHifayita*), that is, 'one who establishes' (*acasthapayita*), highly improbable in itself as a Sanskrit etymology, is impossible, because *ndpat* = Lat. *nepot*, as an Indo-European word, could not be thus derived.

Again, stringent observance of the laws of the Vedic accent, which have been fully ascertained by the labours of various scholars and are summed up in my two Vedic grammars, must be observed in translating the Rv. I have

met with many mistakes caused by the neglect or ignorance of these rules. One of the most frequent of these is due to overlooking the accent of the vocative case; thus Griffith (x. 15,14) renders the nom. *ava-rUt* as if it were the voc. *svd-rat*. Other errors result from the confusion of such forms as *ma* 'not' and *ma* 'me', *te* 'those' and *te* 'of or to thee', *yuvdbhydm* 'for you two' and *ydvabhydm* 'for the two youths'. Another example is Wilson's rendering of the words *pratfiamaja f/rdhmatiah* by 'the first-born of Brahms' in accordance with Sayana's explanation : *brahmaiah, mrvasya jagatah srastuh, prathamajah, prathamam utpawih*. Here quite apart from the importation of the later idea of the personal creator Brahma as a masculine, who is never mentioned in the Rv., the accent of *brdhmanah* shows that the word is a neuter and not a masc. (*brahmdyakV*)

Even the evidence of Vedic metre, the laws of which have been fully established by the researches of several scholars, must be taken into consideration by the translator, because the separation of internal Fadas and the position of the efflura may often help in deciding the syntax and the resultant meaning of sentences. To show how this criterion may apply would, however, require a more elaborate proof than can here be presented.

The question still remains to be answered, what should be the attitude of the translator of the Rv. towards emendations of the text? Now it has been proved that the Samhita text was constituted with such extraordinary care² that even slight irregularities and inaccuracies, going back to the original authors, which might easily have been removed by the redactors, were left unaltered by them; and that primarily by the aid of the Pada text, it has been preserved since then with scrupulous care. The Samhita text therefore possesses an extraordinary degree of authenticity. Advancing study has proved many emendations, made by earlier scholars owing to imperfect knowledge, to be unnecessary. Conjectural corrections of the text

1 See *Vedic Grammar for Students*, p. 259.

2 Cp. *History of Sanskrit Literature*, p. 48.

should, therefore, be resorted to only in extreme cases. No other product of ancient literature has ever been handed down without mistakes, and it cannot be supposed that the text even of the *Rv.* should have remained entirely free from any corruption.

Thus in some cases emendation is required by grammatical considerations, in order to produce any sense at all. Again, the *Pada* text, though it contains some undoubted misinterpretations and misunderstandings, is the earliest attempt at exegetical explanation, going back almost to the time when the *Samhita* text was constituted; Its phonetic analyses should, therefore, not be rejected except after very careful scrutiny.

Such are, in the opinion of the present writer, the principles to be followed at the present day by a translator of the *Rv.* while utilising the aid to be derived from every possible source. A new translation can of course not be final, but will only represent a summary of all the exegetical material now available. Much investigation still remains to be done. Complete success, especially in a field in which the workers are so few, can only be attained by the efforts of several generations of scholars. The *Psalms* and *Prophetic Books* of the *Old Testament* have absorbed the energies of Hebrew scholars for centuries, and yet the sense of many passages remains obscure. Greek scholars have for centuries worked at the lexicographical interpretation of *Homer*, and yet his vocabulary is not entirely explained, though his language presents incomparably fewer difficulties than the hymns of the *Rgveda*. Even if a final translation of the latter should ever be made, it will necessarily contain an irreducible minimum of passages that can never be understood, simply because the circumstances to which they allude will for ever remain unknown.

ON SOME RIVER-NAMES IN THE RIGVEDA

BY M. AUREL STEIN

THE historical interest presented by Hymn x. 75 of the Rigveda, the famous *Nadi-stuti* or 'Song of the Rivers', has been recognized ever since the critical study of Vedic literature began. The numerous ancient river-names of North-Western India therein mentioned furnish an indication, more definite than can be found elsewhere, of the area once occupied by, or familiar to, the Indo-Aryan people to whom we owe the oldest literary remains of India as contained in the Vedic Samhitas. In the present note, which regard for manifold urgent tasks resulting from my third journey of exploration in Central Asia obliges me to keep short, I do not intend to discuss the entire list of those river names nor its quasi-historical import, but merely to put on record a few observations which occurred to me long ago while my work still lay in the Panjab. They concern the river-names recorded in a verse of the hymn which reads thus—

No question of text or interpretation affects the general meaning of the verse, which may be rendered as follows—

"Attend to this my song of praise, O Ganga, Yamuna, Sarasvati, Sutudri, Parusni; together with Asikni, O Marudvrdha, and with Vitastā, O Arjikyā, listen with Susoma."

The identity of the first four rivers here enumerated and also of the Vitastā is subject to no doubt. They correspond to the present Ganges, Jumna, Sarsuti, Sutlej, and Jehlam (the ancient Hydaspes, still called Vyath in Kashmiri). The order in which the first four are mentioned exactly agrees with their geographical sequence from east to west. Hence Professor Roth, who was the first to discuss the passage critically in his epoch-making treatise *Zur Geschichte und Literatur des Weda* (1846) pp. 136 sqq., was justified in looking for the three rivers *Parusni*, *Afctrud**

vr̥dha and *Aaikni*, which figure in the list between them and the *Vitasta*, among those of the 'Five Rivers'¹ of the Panjab that intervene between the *Sutudrī*: *Sutlej* in the east and the *Vitasta* : *Jehlam* in the west. Guided by this sure indication he succeeded in correctly identifying the *Asikni* with the *Chenab* or *Candrabhaga*, whose classical name *AkemriPH* is undoubtedly derived from the Vedic by a kind of *popular etymology' attested in a gloss of Hesychios (ii, p. 1150, ed, Alberti *Σανδαρόφαγος* [the exact Greek rendering of *Candrabhaga*] ὑπὸ 'Αλεξάνδρου πόνταμος μετωνομάσθη καὶ ἐκλήθη 'Ακεσίτης').

No such definite evidence is available regarding the *Parusrii*, in which Roth, following Yaska's *Nirukta*, ix. 26, was prepared to recognize the *Iravatī*, the present *R&wī*; but until a survival of the name *Parusni* can be traced in some way this identification, though probable, cannot be considered as certain. The main argument in its favour is that the *Beas*, the only other Panjab river of any importance between the *Sutlej* and the *Chenab*, is repeatedly mentioned in other hymns of the *Rgveda* under its proper ancient designation of *Vipai*.

As regards the *Marudvr̥dha*, which figures in the list between the *Asikni*: *Akesines* and the *Vitasta*: *Hydaspes*, and is nowhere else mentioned in Vedic literature, Roth had to content himself with the conjectural suggestion that by it may be meant the united course of the *Akesines* and the *Hydaspes*. For a record of other conjectures equally unsupported by philological or geographical evidence, Zimmer, *Altindisches Leben*, p. 12, and Macdonell-Keith, *Vedic Index*, ii p. 135, may be consulted. It is unnecessary to discuss them in detail; for, a reference to the map will show us a solution which seems to impose itself both by regard for geographical position and by the obvious explanation it furnishes for a local name surviving to the present day.

If we pay attention to the position occupied by the name *Marudvr̥dhī* in the list, and bear in mind the fact that the narrow Doab between the *Chenab* and the *Jehlam*

leaves no room for any stream to descend independently to the Indus, it is obvious that we have to look for the Marudvrdha either among the western main tributaries of the Chenab or else among those which join the Jehlam from the east. Now, among all the affluents in question there is none comparable in importance and volume to the glacier-fed river which joins the right bank of the Chenab or Candrabhaga, as it is still known in the mountains, in the alpine territory of Kishtwar, and which in the Survey of India maps is shown as the 'Maroowardwan River'. In its course of about one hundred miles it gathers, as can clearly be seen in sheets 28, 45, 46 of the 'Atlas of India' the greatest part of the drainage from the almost continuous chain of glacier-girt peaks which stretches from the big snowy massif of Amarnath (17,900 ft. above the sea) in the extreme north-east of Kashmir proper, to the head-waters of the Bhutna River, culminating in the ice-clad Nun-kun Peaks, well over 25,000 feet, high. Narrow and deep-cut in its lowest portion, the valley of *Marawurdwan* opens out above the point (about 75°46' long. 33°40' lat.) where its two main branches meet, and throughout a total length of about forty miles affords ample space for cultivation at an elevation of between 6,000 and 9,000 ft. On the west this portion of the valley immediately adjoins the watershed towards the eastern part of the great Kashmir valley watered by the Jehlam or Vyath (Vitasta).

It does not require elaborate philological argument to prove that in the name *Maruwardwan*, which according to the information received by me in Kashmir is borne by both the valley and its river, we have the direct phonetic derivative of a form closely linked with the Vedic *Marud* vrdha*. Among all my Kashmir tours I never managed to visit the valley in person,—a fact which the absence of any reference to it in Kalhana's *Itajataruhgiu* may help to excuse. But I have reason to believe that the form of the name recorded by the Survey of India during its Kashmir operations in the late fifties of the last century is a substantially correct rendering of the name as used by the neighbouring hill population. Leaving aside the endiny

-wan to be accounted for presently as a determinant derived from Skr. *vana* 'forest', we clearly have the correct phonetic derivative of *Marud*, the first part of the compound, in *maru-*. In -ward it is equally easy to recognize the derivative of a Vrddhi form **vardha*, in which *dh* has become dis-aspirated in agreement with a phonetic rule of Kasmlrl (comp. Sir George Grierson's *Phonology of the Modern Indo-Aryan Vernaculars*, Z.D.M. G., 1. p. 9).

The use of this Vrddhi form may possibly be connected with the fact that the second half of the compound, in the form *Wardwan*, is applied independently to the chief group of hamlets in the western or main branch of the Maru-wardvan valley, while *Maru*, the first half, is used in a corresponding fashion for the inhabited lower portion of the eastern branch of the valley drained by the FariabadI tributary. I owe the confirmation of the record presented by the **Atlas of India* to the kindness of that veteran geographer and scientist, Colonel H. H. Godwin-Austen, F. R. S., who conducted the survey operations in these mountain regions more than half a century ago, and who still remembers accurately all the essential features of their topography.

To this splitting-up of the local name *Mam-wurdvan* we have an exact parallel in the use of The names *Candra* and *Bhaga* for the two main branches of the Candrabhaga at its head-waters, as attested by the Survey of India maps. In the same way, far away in the south, the two main feeders of the Tungabhadra River each bear one half of the name, being known respectively as the Tunga and the Bhadra. I cannot spare time to trace further this curious bifurcation of river-names, prompted by a kind of **popular etymology*'. But I have little doubt that it is widely spread and could be illustrated outside India.

It is equally easy to account for the addition of the determinant -wan, Skr. *vana*, at the end of the compound. The name *Maru-wardwan* applies primarily to the valley, and it seems quite appropriate that the latter should be designated as the 'forest of the Marudvrdha', seeing that its lower and middle portions have their bides clothed with

dense forests of deodars and firs duly marked in the Survey map. Skr. *mi na* always takes in Kasmirl the form *wan* (see Grierson, *Phonology*, etc. *Z. D. M.* (/.), 1. p. 12; also my notes on modern Kasmirl forms of local names containing Skr. *vana*, *vanika*, in *Rujat*. viii. 1438, 1875-77), and this we find duly in *Mad'wddwan*, the Kasmirl form of the name *Maruwardwan* as heard by me in Kashmir and probably used by the Kasmrl-speaking population of the valley. Ks. *Mad'wad-* represents the correct phonetic derivative from a Skr. **Marudcardha*, through intermediary forms **Marduwardha* > **Madduwaddhu*, since Skr. *rd* > Prk. *dd*, becomes *d* in Ks., and Skr. *rdli* > Prk. *ddh* similarly results in Ks. *d* (comp. Grierson, *Phonology*, 1. c, §§ 53, 86, 87). Attention must also be paid, as Sir George Grierson points out to me, to the undoubted fact that there is continual interchange between dentals and cerebrals in Kasmirl.

Before leaving the riverine system of the ChenSb I may here conveniently call attention to another tributary the name of which, perhaps, also claims an ancient ancestry. I mean the *Ans* River, which receives the southern drainage of the Pir Pantsal range between the RuprI and Gulabgarh passes, and joins the Chenab above Riassi just where it makes its final southward bend to reach the Panjab plain. The mere fact that the bed of the *Ans* River forms a straight continuation northward of the line followed by the Chenab after the bend just mentioned suffices to attest the relative importances of this tributary. Is it possible that we have in its name a lingering trace of the ancient designation *Asiknt* once applied to the whole river where it emerges from the mountains?

Phonetically the suggested derivation would present no difficulty. Under the influence of the stress accent thrown on the first syllable (see Grierson, *Phonology*, *Z. D. M. G.*, xlix. pp. 395 sq.) *A'siknt* would be liable to assume the Apabhrrahsaform **A'snt*. This, again, through phonetic changes well attested in the development of modern Tndo-Aryan vernaculars, might become ^{xA'ssi}, and finally, with the nabalized long vowel often resulting from the simplification of a

double consonant, take the form *As*, which I assume to be the true pronunciation of the name recorded as *Ans* in the Survey maps (comp. Gricrson, *Z. D. M. G.*, 1, p. 22; thus, e. g., Skr. *nīdrd* > Prk. *uidda* becomes *nīd* in Hindi).

Of the river-names mentioned in our verse there still remain two for discussion. The last of them is *Susoma* found likewise in a few other Rgveda passages, and for this Vivien de Saint-Martin long ago indicated what appears to be the correct identification. He took it to be the present *So/nin* River (also spelt *Suwan*), which flows from the outer Ilazara hills through the Rawalpindi District and reaches the Indus north of the Salt Range (comp. V. de Saint-Martin, *E'ludc sur lu ueutjruphic, etc**, *da tiord-ouesf de rindc*, 1860, p. 35). The Greek form of the name, *Σάων* Or *Σάαυος*, as recorded by Megasthenes (see Arrian, *Indika*, iv. 12; Schwanbeck, *Megasthenes* 31), proves the antiquity of the change of medial Skr. *s* into *A*, so common in the vernaculars of the north-west of India. For the reduction of the *o* into *a* in the second syllable of the name, Gricrson, *Phunolouu*, *Z. D. M. G.*, xlix. p. 409 may be compared. Possibly the correct pronunciation of the name is *Suhan* which would represent a closer approximation to the original.

With the *Susoma*: *Sohan* we have reached the extreme west of the Pancanada or Pan jab proper. If we are right in assuming for the remaining *Arjtdyd* the same exact geographical sequence from east to west observed in the preceding river-names we must clearly look for it between the *Vitasta* in the east and the *Susoma* in the west.

There is no river of any importance crossing the much-broken plateaus and low hill chains of the Salt Range which fill the area between those two rivers. Hence we are led to look for the *Arjiklya* among the chief tributaries which the *Vitasta* receives on its right bank before it emerges from the mountains above the town of Jehlam. Of these there are two of considerable size. One is the *Kishangang-l*, the *Krsnu* of (ho *Rajatarahytni*, which drains the high snowy ranges north of Kashmir and at the

Confluence, near Muzaffarabad, rivals the Vitastain volume. The other is the Kunhar River, Alberuni's *Kuinari*, which gathers the mountain streams of the big Kaghan Valley in the north and joins the Vitasta some five miles below Muzaffarabad. Both Kishanganga and Kunhar would be important enough to figure in our Vedic 'Catalogue of Rivers'; but I am quite unable to trace in the case of either, any designation ancient or modern that might be connected with the name *jfrjikiyu*.

None of the Rgveda passages which mention the Arjiklya again, or give the obviously related ethnic designation of Arjikas and Arjikiyas (comp. Macdonell-Kelith, *Vedic Index*, i. pp. 62 sqq.), helps us to a definite location. Professor Hiilebrandt, when discussing these names in his *Vedic Mythologies* i. pp. 126 sqq., thought that he could locate them near Kashmir, owing to the connection he assumed between Arjika and the chief 'Apo-aKtjs, whom Arrian mentions as the brother of 'AjSta-ijrjs chief of the Abhisaras, i. e. the tribes occupying the outer hills south of Kashmir between the Chenab and the Jehlam. But this supposed connection fails us, since I have shown elsewhere that by *Apaakns*'s meant the chief of *rasa* or Hazara, the name of whose territory figures as "Apo-a or 'Ovapa-a in Ptolemy's Geography (comp. my note on *Rajat*. v. 217).

I may conclude this note with a brief general observation. The analysis of the river-names given in our Rgveda verse has proved that, leaving aside the still uncertain Arjlklya, they follow each other in strict order from east to west. The exact geographical knowledge thus indicated, ranging over a great extent of country, might at first sight cause surprise, since it seems impossible to suppose that the composer of the *Nadi-stnti* could have had before him topographical record in the shape of either text or map. Yet the difficulty is easily removed in the light of actual travel experience. During my Central-Asian explorations I have again and again come into contact with men, whether Turks of the Tarim Basin engaged in long journeys as traders and caravan-men, or nomadic Mongols,

who, wholly illiterate and unable to keep any but mental records, could yet without any apparent effort give a brief but accurate account of the successive stages, with passes, streams, and other natural features, which they had passed on journeys extending over far more than a thousand miles. It is probable that in India also, in spite of all modern changes, similar geographical knowledge of a wholly empiric kind might still be gathered from pilgrims, traders, and others accustomed to distant peregrinations. It is safe to assume the same facility of obtaining exact information in ancient times, so that the only difficulty which the composer of the Hymn is likely to have experienced when recording the river-names, was how to fit their sequence with his metre.¹

1 This paper was written in the autumn of 1916 as a special contribution to this volume, but unfortunately and through reasons for which the present difficulties of communication are mainly responsible, its publication occurred in another place sooner than was intended. A.S,

CHALDEAN AND INDIAN VSDAS

BY BAL GANGADHAR TILAK

ONE of the most important events of the latter half of the nineteenth century is the discovery of the Chaldean literature as embodied in the cuneiform inscriptions excavated in Mesopotamia and deciphered with great skill, ingenuity, and perseverance by European scholars. These ancient records conclusively show that the country at the mouth of the Euphrates was, so far back as 5000 B.C., colonised by a people of the Turanian race who went there by sea from some distant province, presumably situated in Northern Asia. These people not only developed a civilization of their own in Mesopotamia, but what is to the point, have left there a record of their religious beliefs and culture in the form of brick-inscriptions, which M. Lenormant has aptly described as the Chaldean Veda.

This ancient civilization at the mouth of the Tigris and Euphrates gradually spread northwards and was the parent of the Assyrian civilization which flourished about 2000 years before Christ. It is believed that the Hindus came in contact with Assyrians after this date, and as a natural result of this intercourse Hindu culture was largely influenced by the Assyrian. Thus Rudolph von Thering, starting with the theory that the original Aryan home was in an uncultivated mountain district in Central Asia, has, in his work on the *Evolution of the Aryans* (Eng. trans, by Drucker, 1897, pp. 11, 223-4), come to the conclusion that the Aryans were originally a nomadic race unacquainted with agriculture, canals, navigation, stone-houses, working in metals, money transactions, alphabet and such other elements of higher civilization, all of which they subsequently borrowed from the Babylonians. But this conclusion is not accepted by other scholars, who think that von Thering has gone too far in the matter. It is, however, still believed that in the matter of magical charms and formulae, cosmography, cosmogony, astronomy and chronology the Hindus were more or less indebted to

the Babylonians, and that this borrowing was the result of an intercourse between the two races at a date later than 2000 before Christ.¹ When it was therefore pointed out that the word *mana* in the phrase *saca mana hiranydya* (Rv, VIII. 78. 2) corresponded with Latin *mina*, the Greek *vya* and the Phoenician *manah*, and it must therefore have been borrowed by the Indians from the Babylonians, and that, if so, a later date must be assigned to the Jlgveda, Professor Max Müller declined² to accept the inference and contended that the word might be of Aryan origin and that it might, as interpreted by Sayana, mean 'ornaments' or 'beautiful appendices'. For Professor Max Müller believed, and rightly, that the Rgveda, the oldest of the Vedas, cannot be assigned to a date later than 2000 years before Christ. The learned Orientalist was aware that the word *mana* was to be found not only in the Babylonean but also in the Accadian tongue. But he seemed not to have realised the importance of this fact; for in that case, the Accadian being a still older language, it was not necessary to assign a later date to the rjgveda even if the word *manU* (cf. Kan are se and Marathi *rtmii*a, English corruption 'maund') was found to be of foreign origin.

In my *Orion, or the Antiquity of the Vedas*, I have shown that Vedic culture or civilization can be carried back as far as, if not further than, 4500 B. O., when the Vernal equinox was in Orion. This makes the Vedic and the Chaldean civilizations almost contemporaneous, and it is not unnatural to expect some intercourse either by land or by sea between the Chaldean and the Vedic races even in those ancient times. No evidence has, however, yet been adduced to prove the existence of an intercourse between these two races in the fourth or fifth millennium before Christ by tracing Vedic words or ideas in the Chaldean tongue, or vice versa. If this evidence is discovered the existing theories about the inter-relation

1 For a summary see the article on *Hinduism* in Hastings' Encyclopedia of Religion and Ethics, Vol. VI p. 6881".

2 *India : What can it teach us ?* Edition 1883, pp. 125-26,

between these two oldest civilizations will have to be greatly modified or revised. But without going so far into the subject I wish in this essay to confine myself to the words and ideas which I have found common to the Chaldean and the Indian Vedas, stating at the same time what little has been done by the previous scholars in this direction.

Professor A. H. Sayce, in his *Ithberf Lectures*, 1887, pages 137-138, observes that in an ancient list of Babylonian clothing *sindhu* is mentioned as a name for muslin or woven cloth, and that it corresponds to the *sadin* of the Old Testament and *σινδών* of the Greeks. The learned Professor has further stated that this 'muslin' or woven cloth must have been called *sindhu* by the Accadians (Chaldeans), because it was exported from the banks of the Indus (*Sindhu*) to Chaldea in those days (cf. the word *calico* from *Calicut*). He has further noted that this intercourse between the two countries must have been by sea, for had the word passed by land, i. e. through Persia, the initial *a* of the word would have become *h* in Persian mouths.

Here then we have two words : *ma na* borrowed by the Vedic people from the Chaldeans, and *sindhu* borrowed by the Accadians or Chaldeans from the Indians, proving either that these races were neighbours to each other even in Vedic times or that the Chaldean traders had made their way to the mouth of the Indus or to the Western coast of India, each people borrowing from the other according to necessity.

More recently, the excavations made in Asia Minor during the summer of 1907 have brought to light documents which contain the terms of a treaty between the king of Hittites and the king of Mitani (Northern Mesopotamia), of the time of *circa* 1400 before Christ. In these treaties the deities of both these nations are invoked; and among the Mitani gods Hugo Winkler has found the names of Mitra, Varuna, Indra and Nasatyas or Asvins, *oho* and all of which are Vedic deities. It is, therefore, clear

that in the fourteenth century B. C. and earlier the rulers of Northern Mesopotamia worshipped Vedic gods. The names of these rulers, it is true, appear to be Persian and not Vedic. But it does not affect the conclusion that Vedic culture and worship were known to and had influenced the Mesopotamian rulers in the fourteenth century before Christ.¹

This takes us back to B. C. 1400 or 1500. But we can go still further back and show, that the intercourse between Chaldea and India existed from a time far anterior to the reign of the Mitanic kings. M. Lenormant has justly observed that while the Aryans worshipped the good and beneficent deities in nature, the Mongolians (to which race the Chaldeans belonged) always tried to propitiate the malevolent spirits; and hence while *sacrifice* formed the main feature of the Vedic religion, *magic and sorcery* was the main characteristic of the religion of the ancient Chaldeans. Not that there were no Chaldean hymns to the sun-god, but even these were used for magic purposes.-

This shrewd generalisation of the French savant at once enables us to lay our hand upon the Atharva Veda, if we wish to find any parallels to the Chaldean magic formulae in the Vedic literature. The Vedic religion is very often called the *trayl-dhanna* or the religion based only on the three ancient and older Vedas. The Atharva Veda finds no place amongst these three, and there is an old tradition that in point of importance and authority the Atharva does not stand on a par with the Rg, the Yajus and the Saman. Historically speaking it is now further ascertained that the Atharva Veda is much more recent than the three other Vedas. But though comparatively younger, we must at the same time remember that even this recent Veda must be placed at least some twenty-five centuries before Christ in as much as it is

1 It. Jacobl's paper in the *Journal of the Royal Asiatic Socieytty* for July 1909, pp. 721-736.

3 Lenorrutaut's *Chaldean Magic*, Engl, Truns., pp. 14bf 179 and 319,

mentioned by name and cited in the Brahmanas and the Upanisads.¹

If we therefore discover any names of Chaldean spirits or demons in the Atharva, it could only mean that the magic of the Chaldeans was borrowed, partially at least, by the Vedic people prior to the second millennium before Christ, and that this could not have been done unless the Chaldean people were either the neighbours of Vedic tribes or traded with them even in those ancient days.

Now let us take for comparison Atharva Veda v. 13. It is a hymn against snake poison; and verses 6,7,8 and 10 therein (omitting the accents) run as follows—

असितस्य तैमातस्य बभ्रोरपोदकस्य च ।

सात्रासाहस्ताई मन्योरज ज्यामिव धन्वनो वि मुन्नामि रथौ इव ॥ ६ ॥

आलिङ्गी च विलिङ्गी च पिता च माता च ।

विद्य वः सर्वतो बन्धरसाः किं करिष्यथ ॥ ७ ॥

उरुगुलाया दुहिता जाता दास्यसिक्कया (v. l. क्रयाः) ।

प्रतङ्कुं ददुषीणां सर्वासामरसं विषम् ॥ ८ ॥

ताबुवम् न ताबुवम् न धेत्वमसि ताबुवम् ।

ताबुवेनारसं विषम् ॥ १० ॥

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The verses have been translated into English by Bloomfield,² Whitney, Griffith and other scholars; but none of them has attempted to explain the derivation and meaning of the words printed in black in the original and

1 Bloomfield's Introduction to Atharva Veda in S. B. E. Vol. XLII.

2 In the S. B. E. series vol. XLII, p. 28—

1 release thee from the fury of the black serpent, the *Vaimala* the brown serpent, the poison that is not fluid, the all-conquering, as the bow-string (is loosened) from the bow, as chariots (from horses). 6.

Both *Aligi* and *Viltgi*, both father and mother, we know your kin everywhere. Deprived of .your strength what will ye do^v 7.

The daughter of *Urugula*, the evil one born with the black— of all those who have run to their hiding-place, the poison is devoid of force. 8.

Tabuvam (or) not *Tabuvam*, thou (O serpent) art not *Tabu ram*. Through *Tabuvam* thy poison is bereft of force. 10.

⁵ [Bhandakar Com. Vol.]

italics in the translation. Their very sound betrays, to a Sanskrit reader, their foreign origin. But hitherto not only commentators but even translators have failed to explain their true import or origin. The word *Taimata* again occurs in Atharva Veda V. 18. 4; while *Aligl*, *Viligl* and *Urugula* do not again occur in the Atharva Veda. According to *Kaukika Sutras* these hymns are recited while performing certain manoeuvres in the process of removing the snake poison. But the *Sutras* do not give any information regarding the origin of the above mentioned words. Griffith says that *Taimata* and *Apodaka* (waterless) are some unidentifiable varieties of snakes and that *Aligl*, *Viligl* and *Urugula* similarly indicate some other unknown species of serpents. Whitney considers *Taimata* as a derivative from *Timata*, while the word *Urugula* is translated by him as " the broad-knobbed one." *Aligl* and *Viligl* (the father and mother) he does not attempt to explain at all. The word *asikni*, which means black, suggests that *Urugula* is a word borrowed from black races (cf. *asiknih visah* in Rv. VII, 5. 3). But in the absence of any definite knowledge about the magic and sorcery of the black races, it was impossible to trace the origin of these words. The discovery of the Chaldean literature now supplies us with the means of accurately ascertaining the parentage of some of these words. For instance, the serpent *Taimata* is, I am sure, no other than the primeval watery dragon *Tiamat* generally represented as a female but sometimes even as a male monster snake in the Chaldean cosmogonic legends; and the word *Apodaka* in the Vedic text indicates that a land species of the same (as opposed to aquatic) is intended to be coupled with it. *Tiamat* is the well-known Chaldean androgynous dragon whose fight with *Marduk* is the subject of some of the cuneiform tablets¹ of the creation legends. As regards *Urugula* the word appears as *Uruyala* or *Urugula* in the Accadian language. Literally, it means " the great (*gal* - *gula*) city (*uru*) but is generally

1 See Sayce's *Uibbert Lectures* pp. 379-384, and *Chaldea, Story of Nations Series*, Chap. VI, p. 16.

Used to denote the great nether world, the abode of the dead—a place visited by Istar in her search for her lover Dumuzi or Tamuz.¹ Personified, it means the deity of the nether world, and a female snake can be fitly described as *Uru-gula's* daughter.

I have not been able to trace *Aligi* and *Viligi*, but they evidently appear to be Accadian words, for there is an Assyrian god called *Bil* and *Bil-gi*. At any rate there is no doubt that *Taimata* and *Urugnl* are, in spite of a little difference in spelling, the same as *Tiamat* and *Urugal* or *Uru-gula* in the Accadian legends, and that these names must have been borrowed by the Vedic people from the Chaldeans, coming in contact with them either as their neighbours or as tradesmen in those early days. When the old religion of sacrifice was thus tampered with, and hybrid hymns incorporating foreign magical incantations and formulæ were tried to be introduced in the Vedic literature, it was natural that the Veda which contained these incantations should come to be looked upon with scant respect or even with contempt by the orthodox Vedic community, who must then have regarded the Atharva Veda as a novel departure in their religious observances. There are some other words in the Atharva Veda, especially in the poison and witchcraft hymns, which on their face appear to be foreign importations. For instance we may cite *Tabuvam*² in the hymn we are considering and *Kanaknakam* and *Taudi* in Av., X, 4. Again the word *Kimldin* which occurs both in the Bg and the Atharva Veda, (Rv. VII, 104. 23 ; Av. I. 7. 1) and which indicates goblins, or evil spirits, is derived by Yaska (VI. 119) from *kirn idanim* (what now?), and

1 Jensen's *Kosmologie der Babylonier*, pp. 217-222 ; *Chaldea*, S. N. Series pp. 157, 326f, and 367f.

2 I think *Tabuvam* is derived from the Polynesian word *tabu*, and means, pertaining to or resulting from *tabu*, i.e. contact with unclean, unholy, or interdicted thing, in which case the disease or evil requires to be treated with sacred incantations. The exorcist asks whether the poison is or is not of *Tabuvam* character. For the use of *tabus* in Babylonia see *Thompson's Semitic Magic*,

explained by observing that these ghosts were believed to wander about in search of "what is now happening." This derivation is obviously fanciful; and as the word has a foreign ring, I believe that it is a Chaldean word. For *Ekimmu* and *Dimme* are Accadian words for spirits and *Kiwm-dimm* may well have been a word compounded from them to express ghosts of all kinds,

It may be further noted that the Kiratas, evidently some non-Aryan tribe, are mentioned as dealing in medicinal herbs in Av. X. 4. 14; and Griffith, in a note to Av. V. 13. 5, interprets *Kairata* as a variety of snake found among the Kiratas, the barbarous tribes who inhabited woods and mountains and lived by hunting (the *Kirrhadae* of Arrian). It is therefore not to be doubted that the magic and witchcraft hymns in the Atharva Veda do contain some foreign words. But we in India have not the means to thoroughly investigate all of them. We have no library in India, much less an Assyriologist to whom we can refer to or consult, for obtaining the requisite information on these matters. The Mleccha-prasiddhartha-pramanyadhikarana in Jaimini's sutras (i. 3.10) shows that even the orthodox Mimamsakas would not have hesitated to recognise the foreign origin of such words if they had but been able to ascertain it definitely.

The Bible often refers to Chaldea and Babylonia. But no one ever dreamt that the account of creation and deluge in the Old Testament could have been, in the main, borrowed by the Hebrew priests from Chaldean sources. A great sensation was therefore caused in Europe when the Chaldean cuneiform tablets of the creation legend were discovered, their translation published and the Hebrew word *Tehom*, which is translated as 'deep' or 'waters'⁵ in the first verses of Genesis, Chap. I, was found to be no other than Assyrian *Tamtu* or the Chaldean *Tiamat*. Even so late as 1902, Professor Delitzsch's lectures on *Pabel and Bible* (Eng. trans. New York 1903) were received and criticised in the same spirit. But it may now be taken as established that the Biblical stories of creation and deluge together with the institution of sabbath and even the

story of the fall of man by the serpent are all of Chaldean origin, It was further pointed out by Professor Delitzsch, the well-known Assyriologist, that the word *Jehovah*, God's secret name revealed to Moses, was also of Chaldean origin, and that its real pronunciation was *Yahve*, and not *Jphovah*; and this derivation is now accepted even by the compilers of the present Biblical dictionaries. But the matter does *not* really end at this point. *Jehovah* is undoubtedly the same word as the Chaldean *Yahvp*, But we have still to inquire whether the word can or cannot be traced further back. And here we derive great help from the Vedic literature. The word *yahv* (Zend, *yazn*), *yahva*, *yahvat* and the feminine forms *yahvi* and *yuhvati* occur several times in the Rgveda; and Grassmann derives them from the root *yah* = to hasten or to drive quickly. The Nighantu also tells us that the word *yaha* means water (Nig. I. 32) or strength (Nig. II. 9); while the adjective *yahva* (Nig. III. 3; Nir. VIII, 8) means 'great.' *Yahva* in this sense is applied in the Rgveda to Soma (Rv. IX. 75. 1), to Agni (Rv. III. 1. 12) and to Indra (Ifcv. VIII. 13. 24). It is needless to give further quotations. I may only mention that *yahva* in one instance (Rv. X. 110. 3) is used in the vocative case, and Agni is there addressed as "O *Yahva!* you are the sacrificer of the gods." This clearly shows that the word was not only familiar to the Vedic sages, but that it was applied by them to their gods to signify their might, power or strength; and Griffith has translated it by the English word 'Lord' in several places. Besides, in the Vedic Sanskrit we have several other words derived from the root *yah* and so cognate to *yahva*, viz. *yahv*, *yahvat*, *yahvi* and *yahvati*. It is not, therefore, unreasonable to conclude that *yahva* was originally a Vedic word, and though Moses may have borrowed it from the Chaldeans, yet the Chaldean tongue, in which the various other cognate forms of the word are wanting, cannot claim it to be originally its own. Like the word *sindhu* the Chaldeans appear to have themselves borrowed it from the Indians in their mutual intercourse at some remote period of antiquity.

We might say the same about the Chaldean word *Apsu*, or *Abzu*. It is written as *Zu ab* and read as *Abzu*. It denotes the primeval chaos or watery abyss, and is represented as the husband of *Tiamat*. Marduk had therefore to fight with them both to rescue the powers of light from their clutches. Dr. Jensen¹ has critically examined the various meanings of this word in the Chaldean literature. But it is unnecessary to go into these details; for the word and its denotation are well established in usage. It is the primeval abyss from which the gods of light have to be rescued by Marduk for the benefit of mankind. This conquest of Marduk over *Apsu* and *Tiamat* is celebrated in a Chaldean Epic which is now available in translation.⁸

I have shown above that the word *Taimata* occurs in the Atharva Veda, and that it must have been borrowed from the Chaldean. Such is not however the case with *Apsn*, the husband of *Tiamat*. In the "Rgveda we have not only the word *apsu* in several places but the main features of the Tiamat-Marduk struggle are also to be found in the Vrtra-Indra fight so fully described in the Vedas. I have shown elsewhere³ that Indra's fight with the Vrtra was for the release of captive waters, and that after the fight these waters, till then enveloped and hemmed in by Vrtra, the Vedic Tiamat, were set free, by Indra, to flow (*mrtave*).⁴ For this very reason Indra is described in the Rgveda as *Apsu-jit** It is usual to explain the compound word

1 In his *Kosmologie der Babylonier*, pp. 243-253.

2 See Sayce's *Hibbert Lectures*, pp. 379-384 ; Jensen's *Kosmologie der Babylonier*, pp. 273-288 ; also *Chaldea*, S. N. Series, Chap. vi.

3 See *Arctic Home in the Vedas*, Chap. IX, pp. 233-296.

4 Rgveda i. 32. 12. Curiously enough the same phrase occurs in the Chaldean Creation Tablet No. 4, line 140, where Marduk after defeating Tiamat, is said to have ordered her (Tiamat's) waters, which were not coming out, to come forth. The line is so rendered by Dr. Budge; but Jensen, following the Hebrew tradition, translates it to mean "ordered the waters not to come forth" (*Kosmologie der Babylonier*, p. 288). Vedic tradition and phraseology both support Dr. Budge's rendering and I prefer it to Jensen's. Prof. Sayce (*Hibbert Lectures*, 1887, p. 383) follows Dr. Budge, and Jastrow (*Babylonia and Assyria*, p. 438) follows Jensen.

5 R^v. VIII13. 2'; Ivm. 36.1; IX. 106. 3,

Apsu-jit by treating its first member as a locative of *ap*-water and translate it as meaning "conqueror in waters*" But it will be easily seen that in spite of the Vartika on Panini VI. 3. 18, this is rather a forced construction, and that it is better to take *Apsu* as a word by itself and translate *Apsu-jit* as "conqueror of *Apsu*." The same remark applies to the words *Apsu-ja* and *Apsu-ksit* and the like. It may be further noted that the phrase *apsavam aryavam*¹ also occurs in the *ftgveda*, and there, *apsavam*, which is an adjective, evidently means "of or relating to *Apsu*". Similarly the word *upsumat* is also found in the Vedic literature (Ait. Brfih. VII. 7), and it is there applied to Agni. In this word we cannot take *Apsu* as a locative of *ap*; and if we have thus a direct authority for treating *Apsu* as a separate word by itself, there is no reason why we should not take *Apsu* as a word by itself, and not as the locative of *ap*, in such words as *Apsu-jit* and *Apsu-ksit*. *Apsu* taken as a separate word, may be derived either from *ap* = water and *su* = to beget, or from *psu*, which, according to Nig. III. 7, means shape or form. In the latter *case* *Apsu* would mean a shapeless or formless chaos, which is the meaning assigned to it in the Chaldean literature. Anyhow there is little doubt that *Apsu* in *Apsu-jit* is the same word as the Chaldean *Apsu* or *Abzu* which was conquered by Marduk, the Chaldean Indra. The word is evidently Vedic, but owing to the ignorance of its true significance, the Indian etymologists have treated it as the locative of *ap* in compounds like *apsu-jit*. The light thrown by the Chaldean literature on the subject enables us now to rectify the error and understand *Apsu-jit* in its proper and legitimate sense. Tiamat was the original Chaldean word for the primeval abyss. But when the Vedic word *Apsu* was borrowed it became necessary to differentiate between the two, and this seems to have been done by making one the husband of the other.

Another Vedic word on which new light is thrown by the Chaldean literature is *uru*. In the Vedic literature

the word occurs several times by itself and also in compounds like *uru-krama* (Rv. 1.90.9) *uru-ksaya* (Rv. X. 118.9), *uru-gaya* (Rv. I. 154.1) and several others. The word *uru* in these compounds is generally taken as an adjective meaning "wide." Thus *uru-gaya* is translated by "wide-going" and so on. But it seems to me that if we take *uru*, as in the Chaldean, to mean the nether world, the above Vedic words can be better interpreted. In the Rgveda *uru-gaya* is not only applied to Visnu but also to Indra and Soma. Now we know from the Rgveda that Visnu and Soma are the deities who helped Indra in the conquest of the waters of *Apsu*. All these deities can therefore be aptly described as *uru-gaya*, that is, those who traverse the nether world of waters and conquer, along with Indra, the powers of darkness therein. In other words, we can now take *uru-ksaya* as a synonym for *apsti-ksit* and *uru-krama* as synonymous with *apsu-sad* or *apsu-jit*. The word *uru* appears to have the same meaning in *uru-lokam* in Rv. X. 128. 2. But a still more important word is *Uru-aH*, (*Urvasl*), the name of a well-known nymph. Yaska¹ would have us believe that the word *uru* in *Uru-asl* means a thigh, and there is an etymological myth which tells us that *Uru-asl* was born from the thigh of Nfirayana.² But all these strange derivations become unnecessary if we take *uru* in *Uru-aii* to mean the nether world or its waters as in the Chaldean. *Uru-aii* would then mean a watery nymph or a nymph of the nether world and can thus be properly described as *ap-saras*. There are a few other words in the Rgveda on which new light may be thrown by the discovery of Chaldean literature. For instance *sinivali* looks to me like a foreign word, and *tur-pharitu* in that well-known un-

1 Nir. v. 13.

2

Cf. KalidSsa's Vikramorvasiya, i. 3.

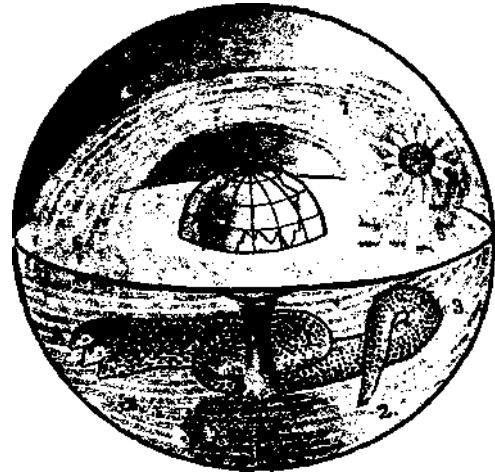
3 *Sin bubbuli* in Chaldean may mean 'disappearance of the moon'; and *tur-parattu* may mean 'son of waters'. *Sindhwmatarau*, sons of ocean, is one of the epithets of Asvins in the Rgveda. The word *sina* appears in Rgveda ii. 30. 2 and there it is said to be brought to or presented to Vrtra. Can *sma* here mean the moon? Owing to her waning she may be properly said to be handed over or delivered to Vftra, the demon of darkness.

YEDIC CONCEPTION OP THE WORLD,

(FROM THE ARCTIC HOME IN THE VEDAS.)

VRTRA TRIUMPHANT.

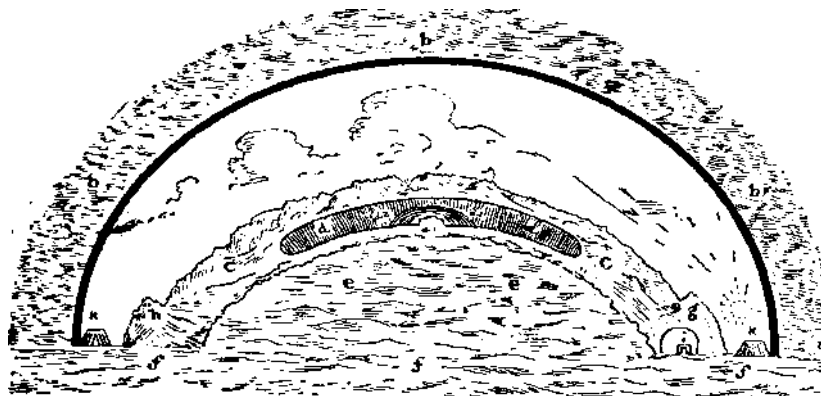
VRTRA SLAIK.



- 1 Varuna's tree in the Nether World.
- 2 The cosmic waters (stagnant, Chald. *Apsu*) enveloped by Vrtra.
- 3 Vrtra as Serpent (Chald. *Tiamot*).
- 4 The sun in stagnant waters in the clutches of Vrtra.
- 5 The sunrise mountains.
- 6 The sunset mountains.
- 7 The Cosmic waters set free to move in the Heavens.
- 8 The sun moving with released waters in the Heavens.

BABYLONIAN CONCEPTION OF THE WORLD.

(FROM JENSEN'S COSMOLOGIE DER BABYLONIER.)



a Inside of the Heavens.

b The Heavenly Ocean,

c The Earth.

d The Kingdom of Death.

d/ Palace of Death.

d'2 The seven walls of Death's Kingdom.

e The prime Hidden place.

/ The Ocean (*Apsu*) round the world.

g The sunrise mountain.

h The sunset mountain.

/ The meeting-place with the House of Fates.

k The damm of the Heavens.

Between pp. 40 and 41]

[Bhandarkar Com. Vol.

Intelligible verse (Rv. X. 106. 6) also wears a suspicious look. I shall not, therefore, be surprised if that verse is found to contain some words of foreign origin. On the other hand *itu* meaning 'a month' in the Chaldean language seems to me to be the same word as the Vedic *rtu* meaning 'a season' or 'a month.'

Lastly I may here mention that we find a very close resemblance between the Chaldean and the Vedic legends regarding the place and movements of cosmic waters, their conquest by the powers of light, viz. by Indra or Marduk, and also between the cosmographic ideas of the two nations, that is those relating to the arrangement of the whole universe, as may be seen by a comparison of the illustrative diagram of "the world according to Babylonish ideas" given by Jensen at the end of his book, and the one given by me in my *Arctic Home in the Vedas* at the end of Chapter IX.¹ Dr. Jensen has also discussed the sevenfold division of the earth's continents by the Babylonians, and pointed out its resemblance with the Pauranic account of the seven continents.² But I think that the parallel can be carried much further; for I have shown elsewhere that this sevenfold division is to be found not only in the Puranas but also in the Vedas.³ It is really interesting to note that there are not only seven Heavens and seven Hells in the Chaldean mythology, but that the serpent Tiamat killed by Marduk is sometimes represented as having seven heads, while Indra is called *Sapta-han* or the "Killer of Seven" in the Vedas,⁴ and the closed watery ocean, the doors of which Indra and Agni opened by their prowess, is described as *sapta-budhna* (seven-bottomed) in Rv. VIII. 40. 5. Again there are indications in the ancient Chaldean literature of a dark intercalary winter month and of the sun-hero being affected with a kind of skin

1 Compare also Maspero's *Dawn of Civilization*, Eng. translation, Vol. II, pp. 542-543.

2 *Kosmologie der Babylonier*, pp. 163-184.

9 Cf. *Arctic Home*, pp. 340f.

4 Rv. X. 49. 8.

6 [Bhandarkar Com. Vol.]

disease or lost for a part of the year,¹ thus corroborating' the theory of a common Arctic home for all. But the subject, howsoever interesting it may be, cannot be discussed at the end of this paper. My object was simply to draw the attention of Vedic scholars to the importance of - the comparative study of Indian and Chaldean Vedas by pointing out some words which, in my opinion, are common to both, and which fairly establish the case of mutual, and not merely one-sided, indebtedness between the almost contemporaneous Aryan and Turanian people. What effect it may have on the current theories about the inter-relation between the two ancient cultures must be left for the scholars to decide. When two civilizations are contemporaneous it is natural to expect some borrowings from each other; but when both are equally old it is difficult to see why, supposing the borrowing is proved, one of them alone should be considered to have borrowed from the other and that too only in later times.

1 In Gilgames and Istar myths. In Rv. vii. 100. 6 Visnu is said to be affected with skin disease (Êtptvt?fa). Compare *Arctic Home*, pp. 33C-32. See also Plunket's *Ancient Calendars*, pp. 4 and 14. The intercalary or the thirteenth month was called *se-dir*, the dark month of sowing.

BRAHMANA-QUOTATIONS IN NIRUK*A

BY P. D. GUNE

YASKA'S Nirukta is a running commentary upon the Nighantavah or collections of difficult Vedic words. These latter consist of five parts or chapters, containing synonyms in the first three, difficult Vedic words in the fourth and names of deities and other words connected with them in the fifth. Yaska takes each of these words, first gives its meaning, then the derivation or derivations and lastly quotes the Vedic passage or Nigama in which it occurs. This is generally his method. In deriving he often gives divergent views, sometimes with names, e. g. *iti Audumbarayayaht iti Agrayanah*, etc., but often without them. Occasionally, as in the Daivatakanda, he mentions schools¹ of interpretation such as that of the Yajnikah, the Parivrajakah, the Naidanah, the Aitihasikah, or simply like *atha adhyatmam, esa ca chyanasamayah*. Very often he quotes Brahmana passages in corroboration of, or simply as alternative to, his view. He indicates these passages in one of these ways : 1 by introducing them with the words *athapi Brahmanam bhavati* ; 2 by closing them with the words *iti ca Brahmanam* ; or 3 by putting *iti vijñayate* after them. But he is not—as no Acarya ever was—in the habit of indicating from what particular source he was quoting. Perhaps in his days there was no necessity of doing so, for, those for whom his book was meant had, like himself, committed to memory most of the old literature; and they could easily know where the quotation was from. There are a few Pandits even to-day who could do the same.

There are about fifty passages from the Brahmanas in the body of the Nirukta, indicated by one of these three ways. The second way, however, is more than twice as frequent as the last. Only a few of these passages have yet been identified—some of them by Roth in his Erleuter-

1 About these schools see Sieg, *die Sagenstoffe des Rgveda*, introduction*

ungen. The following is an attempt to identify as many others as possible under the present circumstances. Quotations from the Nirukta follow Roth's edition, giving chapter and section only. It would not be difficult to trace the quotations in other editions of the Nirukta, as they also mention this manner of division of the book. In quoting from the Brāhmaṇas the old natural division is resorted to, as this is bound to be given in any edition of them, be it European, or Bengali or Marathi.

1. तद्यदाभिर्वृत्रमशकदन्तुं तच्छकरीणां शकरीत्व इति विज्ञायते (i. 8)—This passage, with slight change, is found in the Kaus. Br.—एताः शकर्यः । एताभिर्वा इन्द्रो वृत्रमशकदन्तुं । तद्यदाभिर्वृत्रमशकदन्तुं तस्माच्छकरीणां शकरीत्व इति विज्ञायते (xxiii. 2). The same derivation is found in the Tānd. Br. in different words—तस्मा एतच्छन्दोभ्य इन्द्रियं वीर्यं निर्माय प्रायच्छदेतेन शकनुहीति तच्छकरीणां शकरीत्वम् (xiii. 10. 1). In the Aitareya the same derivation is given, but the Śakvarīs are connected with Prajāpati—यदिमांशोऽकान्प्रजापतिः सृष्ट्वेदं सर्वमशकरोयदिदं किंच तच्छकरीणां शकरीत्वम् (v. 7).

2. तस्मादेते व्यक्ततरे इव भवत इति ह विज्ञायते (i. 9)—Not traced.

3. ऋच्छन्तीव ख उदगन्तामिति ह विज्ञायते (i. 9)—Not traced.

4. पर्याया इव त्वदाश्विनम् (i. 9)—This is found in the Kaus. Br. xvii. 4.

5. उरु प्रयस्वेति प्रययति प्रोहाणीति प्रोहति (i. 15)—Though the usual expression, indicating that this is a quotation from a Brāhmaṇa, does not occur at the end, we know the fact from the previous sentence which runs—अथापि ब्राह्मणेन रूपसंपन्ना विधीयन्ते. Roth has identified these sentences as occurring in Vāj. Samh. i. 22 and ii. 15. The first part of the quotation occurs in Tait. Samh. i. 1. 8. 1, i. 2. 12. 2, vi. 2. 7. 3; Mait. Samh. i. 1. 9, i. 5. 5, etc.; Kāth. i. 8; Tait. Br. iii. 2. 8. 4. For the latter part Bloomfield's Concordance refers to Vāj. Samh. ii. 15, not quite to the point.

6. ओषधे त्रायस्वेनम् (i. 15)—This is an often recurring sentence in the various Samhitās of the Yajurveda. Vāj. Samh. v. 42. Compare Tait. Samh. i. 2. 1. 1, i. 3. 5. 1, vi. 3. 3. 2, etc.; Mait. Samh. i. 2. 1, iii. 9. 3, etc.; Kāthakam ii. 1, etc. See Bloomfield's Concordance. Also Mantra Br. i. 6. 5 and 6. Śatapatha Br. iii. 1. 2. 7 has ओषधे त्रायस्व (without एनम्) and स्वधिते मेनं हिंसिः together; again at iii. 6. 4. 10 and iii. 8. 2. 12 and often.

7. स्वधिते मेनं हिंसीः (i. 15)—An often occurring formula in the Yajurveda. Vāj. Sam. iv. 1, v. 42, vi. 15; Tait. Sam. i. 2. 1. 1, 1. 3. 5. 1, vi. 3. 3. 2, etc.; Mait. Sam. i. 2. 1, and about a dozen times more; Kāthakam ii. 1, etc. It occurs in some places of the Samhitās together with No. 6 as one running proverb. Of the Brāhmaṇas it occurs some thrice in the Śat. Br. iii. 1. 2. 7, etc. Also Mantra. Br. i. 6. 5 and 6.

8. अग्नये समिध्यमानायानुब्रूहीति (i. 15)—Roth identifies this as from Śatapatha Br. p. 31 Weber (a very curious way of quoting !); Tait. Sam. vi. 3. 7. 1; Mait. Sam. i. 4. 11; Śat. Br. i. 3. 5. 2 and 3, ii. 5. 2. 19, etc.; Tait. Br. iii. 3. 7. 1. See Bloomfield, Concordance.

9. एतद्वै यज्ञस्य समृद्धं यद्वृत्तसमृद्धं यत्कर्म क्रियमाणमृग्यजुर्वाभिवदतीति च ब्राह्मणम् (i. 16)—The Gopatha has this full quotation at ii. 2. 6 and ii. 4. 2. The Aitareya has it almost at half a dozen places, but without the words यजुः—यत्कर्म क्रियमाणमृगभिवदति (i. 4, i. 13, i. 16, i. 17, etc.).

10. तद्यदेनांस्तपस्यमानान्ब्रह्म स्वयम्भूयानवर्षत ऋषयोभवंस्तद्वर्षाणामृषित्वमिति विज्ञायते (ii. 11)—Tait. Ār. ii. 9 has the passage as it is in our Nirukta. Only भवन् and तत् are combined as भवन्तत्.

11. यद्वृणोत्तद्वृत्तस्य वृत्तत्वमिति विज्ञायते यद्वर्षत तद्वृत्तस्य वृत्तत्वमिति विज्ञायते (ii. 17)—In Tait. Sam. this passage occurs at ii. 4. 12. 2 as यदि सौल्लोकानवृणोत्तद्वृत्तस्य वृत्तत्वम्.

12. तस्मात्पुमान्दायादोऽदायादा स्त्रीति विज्ञायते तस्मात्त्रियं जातां परास्यन्ति न पुमांसमिति च (iii. 4)—The language—विज्ञायते and इति च—shows that these are quotations from the same source, and it is a fact: यत्स्थालीं रिञ्चन्ति न दास्यमं तस्मात्पुमान्दायादः स्यदायादा यत्स्थालीं परास्यन्ति न दास्यमं तस्मात्त्रियं जातां परास्यन्ति न पुमांसम्—Mait. Sam. iv. 6. 4. The last sentence is repeated again at Mait. Sam. iv. 7. 9.

13. सोर्देवान्सृजत तत्सुराणां सुरत्वमसोरसुरानसृजत तदसुराणामसुरत्वमिति विज्ञायते (iii. 8)—Tait. Br. ii. 3. 8. 2 has a similar idea—तस्यासुरेवाजीवन् तेनासुनाऽसुरानसृजत तदसुराणामसुरत्वम्.

14. विपक्वप्रह्ण आदित्य इत्युपनिषद्गणो भवति (iii. 12)—Not traced.

15. नेमे देवा नेमेऽसुराः (iii. 20)—Durga says इति ब्राह्मणवाक्यमेवेदं वाजपेये मैत्रायणीयानाम्। अर्थतो देवा अर्थतोऽसुरा आसन्नित्यर्थः। In Mait. Sam. ii. 9 we have देवाश्च वा असुराश्चास्यन्त नेमे देवा आसन्नेमेऽसुराः with an आसन् in the middle.

16. नेमानि क्षत्राणीति च ब्राह्मणम् (iii. 20, etc.)—Not traced.

17. नाभ्या सन्नद्धा गर्भो जायन्त इत्याहुः (iv. 21)—Tait. Sam. vi. 1. 7. 2 has a similar idea but quite different words—यदबद्धमबद्ध्याद्गर्भोः प्रजानां परापातुकाः स्युर्बद्धमबद्धधाति गर्भोणां धृत्यै.

18. पञ्चर्तवः संवत्सरस्येति च ब्राह्मणम् (हेमन्तशिशिरयोः समासेन) (iv. 27)—A passage similar in meaning is found in Ait. Br.—द्वादश मासाः पञ्चर्तवो हेमन्तशिशिरयोः समासेन तावान्संवत्सरः (i. 1), identified by Roth. पञ्चर्तवः संवत्सरस्य comes, by the bye, very often in Śatapatha Br., sometimes in an expression like—द्वादश वै मासाः संवत्सरस्य पञ्चर्तवः etc. (i. 3. 5. 11, i. 7. 2. 8, xii. 3. 2. 1, etc.).

19. षष्टिश्च ह वै त्रीणि च शतानि संवत्सरस्याहोरात्रा इति च ब्राह्मणम् [समासेन] (iv. 27)—अहोरात्रा stands here collectively ; day and night are regarded as one. Three hundred and sixty of such are contained in one year. This is apparently from Goptha Br., although with insignificant changes—त्रीणि च ह वै शतानि षष्टिश्च संवत्सरस्याहोरात्राणि (i. 5. 5). The change consists in the inversion of words denoting number and the form अहोरात्राणि. In the Ait. Br. we have त्रीणि च वै शतानि षष्टिश्च संवत्सरस्याहानि (ii. 17) where besides the inversion we have for अहोरात्राः अहानि. A play upon this number is repeated in Ait. Br. v. 12 in connection with the स्तोत्रिय verses. The Śat. Br. i. 3. 5. 9 has त्रीणि च वै शतानि षष्टिश्च संवत्सरस्याहानि ; xii. 3. 2. 3 has रात्रयः for अहानि.

20. सप्त च वै शतानि विंशतिश्च संवत्सरस्याहोरात्रा इति च ब्राह्मणम् [विभागेन] (iv. 27)—This is found word for word in the Ait. Br. ii. 17. In Gopatha, too, we find it in the following form—सप्त च वै शतानि विंशतिश्च संवत्सरस्याहानि च रात्रयश्च (i. 5. 5), Śat. Br. xii. 3. 2. 4, i. 5. 5. 4, Ait. Br. iii. 2.

21. वरमाहारमाहार्षीरिति च ब्राह्मणम् (v. 4)—Not traced.

22. गायतो मुखानुदपतदिति च ब्राह्मणम् (vii. 12)—The word विपरीता that immediately precedes is, I think, to be taken with the previous sentence त्रिगमना वा विपरीता—meaning that गायत्री is to be derived from त्रि and गमन and their order reversed. Durga is silent on the point.

23.* गायत्रीमेव त्रिपदां सतीं चतुर्थेन पदेनानुष्ठोभतीति च ब्राह्मणम् (vii. 12).

24.* यत्त्रिस्तोभत्तत्रिष्टुभस्त्रिष्टुत्वमिति विज्ञायते (vii. 12).

25.* जल्पत्यमानोऽसृजदिति च ब्राह्मणम् (vii. 13).

* These sentences about metres in general are found in almost the same form in the 3rd ṣaṇḍ of the वैतत्राण्ड of the सामवेद. The questions arising out of the identity of the passages will be dealt with at the end.

26. समुद्रादध्वेषोऽवश्य उदेतीति च ब्राह्मणम् (vii. 17)—Kaus. Br. xxv. 1. समुद्रादध्वेषोऽवश्य उदेति is exactly quoted by Yāska.

27. अथापि ब्राह्मणं भवति अग्निः सर्वा देवता इति (vii. 17)—This is one of those almost proverbial Brāhmaṇic passages which are many times repeated in different Brāhmaṇas. It cannot therefore, with any amount of certainty, be said that it is taken from one particular Brāhmaṇa and not from another. In this respect it is like another pithy and proverbial saying यज्ञो वै विष्णुः of the Brāhmaṇas. It is found in Aitareya, Śatapatha, Tāndya and other Brāhmaṇas. Roth has already referred to Ait. Br. i. 1, where this passage occurs, with a वै after अग्नि which Yāska has not got. Tāndya Br. ii. 1. 12 has अग्निर्वै सर्वा देवताः like the Ait. Br. In the same way the Gopatha Br. ii. 1. 12, and the Śadvimśa Br. iii. 7. The Śatapatha Br. i. 6. 2. 8 agrees with the other Brāhmaṇas in having वै after अग्नि. So Mait. Sam. i. 4. 14.

28. यत्तज्जातः पञ्चलविन्दतेति तज्जातवेदसो जातवेदस्त्वमिति ब्राह्मणम् (vii. 19)—Not traced.

29. अथापि ब्राह्मणं भवत्यग्निर्वा इतो वृष्टिं समीरयति धामच्छदिव खलु वै भूत्वा वर्षति मरुतः सृष्टां वृष्टिं नयन्ति यदा खलु वा असावादित्यो न्यहरस्मिभिः पर्यावर्ततेऽथ वर्षतीति (vii. 24)—In Tait. Sam. ii. 4. 1. 2 after saying अग्नये धामच्छदे पुरोडाशमष्टाकपालं निर्वपेत् etc. the passage reads—अग्निर्वा इतो वृष्टिमुदीरयति मरुतः सृष्टां नयन्ति यदा खलु वा असावादित्यो न्यहरस्मिभिः पर्यावर्ततेऽथवर्षति धामच्छदिव खलु वै भूत्वा वर्षति. The only difference is the position of धामच्छदिव etc. and the absence of the word वृष्टि after सृष्टम्.

30. यदस्य दिवि तृतीयं तदसावादित्य इति हि ब्राह्मणम् (vii. 28)—Not traced.

31. आप्रीभिराप्रीणङ्गीति च ब्राह्मणम् (viii. 4)—Roth refers to Ait. Br. ii. 4 where the passage is found in exactly the form in which Yāska quotes it. It occurs besides in Kaus. x. 3. 2. in the same form.

32. आग्नेया वै प्रयाजा आग्नेया अनुयाजा इति च ब्राह्मणम् (viii. 22)—Not traced.

33. छन्दांसि वै प्रयाजाच्छन्दांस्यनुयाजा इति च ब्राह्मणम् (viii. 22)—The Śatapatha Br. i. 3. 2. 9 has only छन्दांसि अनुयाजाः and that more than once.

34. ऋतवो वै प्रयाजा ऋतवोऽनुयाजा इति च ब्राह्मणम् (viii. 22)—The Bibl. Ind. edition reads पशवः before अनुयाजाः which is hardly likely according to the context. The first part ऋतवो वै प्रयाजाः is found in Kaus. Br. iii. 4 ; also Śat. Br. i. 3. 2. 8, where ऋतवो हि प्रयाजाः is the reading. Mait. Sam. 1. 4. 12 has first part only.

35. पशवो वै प्रयाजाः पशवोऽनुयाजाः इति च ब्राह्मणम् (iii. 22)—The first part only in Kaus. Br. iii. 4.

36. प्राणा वै प्रयाजाः प्राणा वा अनुयाजा इति च ब्राह्मणम् (viii. 22)—The Bibl. Ind. edition reads अपाना before अनुयाजाः which would be in accordance with the Kaus. Br. vii. 1 and x. 3. The Ait. Br. seems to combine the two expressions into the one प्राणा वै प्रयाजानुयाजाः (i. 17). At Ait. Br. i. 11 there is another similar sentence—प्राणा वै प्रयाजाः प्रजाऽनुयाजाः differing in the latter part only. The Śat. Br. has the whole passage with अपानाः for प्राणाः before अनुयाजाः (xi. 2. 7. 27).

37. आत्मा वै प्रयाजा आत्मा वा अनुयाजा इति च ब्राह्मणम् (viii. 22)—The Bibl. Ind. edition reads प्रजाः before अनुयाजाः while in the Tait. Sam. vi. 1. 5. 4 the passage runs thus—आत्मा वै प्रयाजाः प्रजाऽनुयाजाः which is in accordance with the Bibl. Ind. edition of the Nirukta ; only, in the latter part we have a Saṁdhi प्रजाऽनुयाजाः and a long ऊ.

38. यस्यै देवतायै हविर्गृहीतं स्यात्तां मनसा ध्यायेद्वषट्करिष्यन्निति ह विज्ञायते (viii. 22)—This is to be seen in the Gopatha Brāhmaṇa ii. 3. 4 as follows—यस्यै देवतायै हविर्गृहीतं स्यात् तां मनसा ध्यायन् वषट् कुर्यात् ; only, the verb in the Nirukta passage appears in the Brāhmaṇa as a participle and vice versa. The idea and the words are however quite the same. In the Ait. Br. iii. 8 the passage occurs in exactly the same form as in the Nirukta except the word मनसा.

39. उह मे कुर्वित्यब्रवीत्तदुल्लखलमभवत् । उहकरं चैतदुल्लखलमित्याचक्षते परोक्षेणेति च ब्राह्मणम् (ix. 20)—In Śatapatha Br. vii. 5. 1. 22 we read उह मे करदिति तदुहकरमुहकरं ह वै तदुल्लखलमित्याचक्षते परोक्षम् etc.

40. यवदत्तद्रुस्य ह्रत्वमिति काठकम् (x. 5)—Not traced.

41. यदरोदीत्तद्रुस्य ह्रत्वमिति हारिप्रवकम् (x. 5)—Identical with Tait. Sam. i. 5. 1. 1. हारिप्रवकम्—मैत्रायणीयानां शाखाभेदः says Durga.

These are highly suspicious passages. Because when Yāska quotes from the two Samhitās he always says इत्यपि निगमो जयति and does not at all give the names of them. In the case of quotations from Brāhmaṇas, he never mentions them by the Śākhā to which they belong, but simply in a general way, as said above.

42. तद्यदेनं प्राणैः समेन्द्रेस्तदिन्द्रसेन्द्रत्वमिति विज्ञायते (x. 8)—Not traced.

43. आदित्यो दक्ष इत्याहुः (xi. 23)—Not traced.

44. या पूर्वा पौर्णमासी साऽनुवतियोरक्षरा सा राकेति विज्ञायते (xi. 29)—Durga rightly says ब्राह्मणमुदाहरन्ति, thus paraphrasing इति विज्ञायते and recognising that this was another way of indicating a Brāhmaṇa quotation. Roth has identified the quotation as from the Ait. Br. vii. 11. It is found also in the Śadvimśa Br. iv. 6. in exactly the same form; and in the Gopatha Brāhmaṇa ii. 1. 10.

45. या पूर्वामावास्या सा सिनीवाली योक्षरा सा कुहुरिति विज्ञायते (xi. 31)—Identified by Roth, Ait. Br. vii. 11. This also occurs in exactly the same form in Śaḍ. Br. iv. 6 and in Gopatha Br. ii. 1. 10.

46. सविता सूर्या प्रायच्छत्सोमाय राक्षे प्रजापतये वा इति च ब्राह्मणम् (xii. 8)—For the fable or legend contained in this quotation Roth refers to Ait. Br. iv. 7—प्रजापतिर्वै सोमाय राक्षे दुहितरं प्रायच्छत्सूर्या सवित्री etc. But in the Kaus. Br. it occurs in a form which is more akin to our quotation, than the Ait. Br. अथ यत्र ह तत्सविता सूर्या प्रायच्छत्सोमाय राक्षे (xviii. 1).

47. अधोरामः सावित्र इति पशुसमाम्नाये विज्ञायते (xii. 13)—Roth has referred to Vāj. Sam. xxiv. 1 to 40 which is so to say a catalogue or collection of the names of beasts. Compare also Vāj. Sam. xxii. 59; Tait. Sam. v. 5. 22. 1.

48. कुक्कवाकुः सावित्र इति पशुसमाम्नाये विज्ञायते (xxi. 13)—Vāj. Sam. xxiv. 35.; Tait. Sam. v. 5. 18. 1; Mait. Sam. iii. 14. 15 and 175. 9.

49. प्राशित्रमस्याक्षिणी निर्जघानेति च ब्राह्मणम् (xii. 14)—According to Roth this legend is referred to in the Śat. Br. But it is Kaus. Br. vi. 13 that contains this passage as in the Nirukta—only the word प्राशित्रं is not in the same sentence—and is evi-

dently the source of our quotation. The Gopatha Br. also has the legend, but not in these words—स [प्रजापतिः] यद्ब्रह्मभ्या-
यम्याविष्य तदाविद्धं निरकुन्तत् तत् प्राशिन्नमभवत्तदुदयकृत्तद्भगाय पर्यहरत्तत्प्रतीक्षेत ।
तस्य चक्षुः परापतत्तस्मादाहुरन्धो वै भग इति (ii. 1. 2). The same legend
is found in the Satapatha thus—ते होचुर्भगायेनदक्षिणत आसीनाय
परिहरत तद्भगः प्राशिष्यति तद्यथाहुतमेवं भविष्यति तद्भगाय दक्षिणत आसीनाय
पर्याजन्तुस्तद्भगोऽवेक्षाचक्रे तस्याक्षिणी निर्ददाह । तथेतन्नूनं तदास तस्मादाहुरन्धो भग
इति (i. 7. 4. 6).

50. अग्निः पशुरासीत्तमालभन्त तेनायजन्तेति च ब्राह्मणम् (xii. 41)—Identified by Roth, Ait Br. i. 16. In Tait. Sam. this is found as अग्निः पशुरासीत्तेनायजन्त v. 7. 26. 1, without the words तमालभन्त.

51. अथापि ब्राह्मणं भवति सा वै वाक्स्यष्टा चतुर्धा व्यभवत् । एष्वेव लोकेषु त्रीणि पशुषु तुरीयम् । या पृथिव्यां साम्रो सा रथन्तरे यान्तरिक्षे सा वायौ सा वामदेव्ये या दिवि सादित्ये सा बृहति सा स्तनयित्वावथ पशुषु ततो या वागस्यरिच्यत तां ब्राह्मणेष्व-
दक्षुस्तस्माद्ब्राह्मणा उभयीं वाचं वदन्ति या च देवानां या च मनुष्याणामिति (xiii. 9)—Mait. Sam 1. 11. 5 has it with insignificant verbal changes as follows:—no एव after पशु, तुरीयाणि between त्रीणि and पशुषु, वाते for वायौ, no आदित्ये after दिवि, ब्राह्मणे न्यदधुः for ब्राह्मणेषु etc., and lastly यथ वेद यथ न for या च देवानाम् etc. It is too much to say that this may be an inaccurate quotation; presumably it is from another recension.

52. एतद्ध वा एतद्धरं यत्सर्वो त्रयीं विशां प्रतिप्रतीति च ब्राह्मणम् (xiii. 10)—This is taken from the Kāus. Br. vi. 12.

These quotations show us that Yāska knew most of the—one is tempted to say almost all the—Brāhmaṇas. His very words बहुभक्तिवादीनि ब्राह्मणानि भवन्ति (vii. 24) point to the same fact. More precisely, we can say that he knew the two Brāhmaṇas of the Rgveda, viz. the Aitareya and the Kauṣītaki (nos. 4, 46, 49, speak expressly for the latter), the Brāhmaṇas—where they exist apart from their Samhitās—of the Yajurveda, most probably the Pañcaviṃśa or Tāpdyā and the Śadvimśa Brāhmaṇa of the Sāmaveda, and the Gopatha Brāhmaṇa of the Atharvaveda. Nos. 9, 19, and 38 above specifically point to the Gopatha Brāhmaṇa as their source. See also Keith, Veda of Black Yajus School Translated, p. clxx, where he makes so much of the non-occurrence of the words *Yajur vū* in Ait. Br. i. 4, upon which Nirukta i. 16 appears to be based. The Nirukta

indeed agrees with the Gopatha vii. 6 (see supra) in saying *Rgyajur vā abhivadati*, but all the Nirukta Mss. do not contain the words *Yajur vā*.¹ The Gopatha no doubt is a late Brāhmaṇa; its style shows it. Its first sentence *यज्ञ इ वा इदमग्र आसीत्* reads like the opening of an Upanisad. It is, as Keith says, probably of composite redaction. But that affects neither our position nor the date of Yāska, which is as unsettled as any thing can be.

Yāska, himself a Yajurvedi, quotes from the various Samhitās of that Veda. He draws mostly upon Taittiriya and Maitrāyaṇī Samhitās, and presumably upon the Kāthaka Samhitā, which unfortunately is not yet available to scholars in its entirety for verification. It is not true to say therefore, as Keith does, that many parallels to the Taittiriya Samhitā look like inaccurate quotations from it. Of inaccuracy there can be no question, until we prove it by facts and figures. Presumably they are quotations from other recensions not yet wholly available to us.

Lastly we have to consider certain passages from the third Khapḍa of the दैवतब्राह्मण, that are identical with some passages in the seventh Adhyāya of the Nirukta. The passages in question are—1 अयातो निर्वचनम् 2 गायत्री गायतेः स्तुतिकर्मणः 3 गायतो मुखदुदपतदिति ह ब्राह्मणम् 4 उष्णिगुत्तानास्तिष्ठतेर्वा कान्तिकर्मणोऽपिषोष्णीषिणीवेत्यौपमिकम् 5 ककुप् ककुपिणीत्यौपमिकम् 6 ककुप् च कुञ्जश्च कुजतेर्वौच्यतेर्वा 7 अनुष्टुबनुष्टोभनात् 8 अन्वस्तौदिति ह ब्राह्मणम् 9 पिपीलिका पेलतेर्गतिकर्मणः 10 पिपालिकमथेत्यौपमिकम् 11 बृहती बृहतेर्वृद्धिकर्मणः 12 विराड् विरमणाद्विराजनाद्वा 13 पंक्तिः पंखिनी पञ्चपदा 14 त्रिष्टुप् स्तोभ इत्युत्तरपदा 15 का तु त्रिता स्यात्तीर्णतमं छन्दो भवति 16 त्रिवृहप्रस्तस्य स्तोभमित्येत्यौपमिकम् 17 जगती गततमं छन्दो जजगतिर्भवति क्षिप्रगतिर्जज्मला (?) कुर्वप्रवृजतेति ह ब्राह्मणम्.

This corresponds, with very slight verbal changes and a few omissions, to Nirukta vii. 12. The order there is गायत्री, उष्णिक्, ककुप्, अनुष्टुप्, बृहती, पंक्तिः, त्रिष्टुप्, जगती, विराड् and पिपीलिका; while the order in the above passage is गायत्री, उष्णिक्, ककुप्, अनुष्टुप्, पिपीलिका, बृहती, विराड्, पंक्तिः, त्रिष्टुप् and जगती. I shall now quote the Nirukta passage without further comments,

1 My friend Prof. Rajwade who is editing the Nirukta for the Anandashram Series tells me that one of his best Mss. omits the words *Yajur vā*.

because the similarity is too obvious to be specially pointed out—गायत्री गायतेः स्तुतिकर्मणश्चिमना वा विपरीता गायतो मुखावुपतदिति च ब्राह्मणम् । उष्णिगुक्ताता भवति जिह्वेतर्वा स्यात्कान्तिकर्मण उष्णीषिणीवैलौपमिकमुष्णीषं आयेते । ककुप् ककुमिनी भवति ककुप् च कुञ्जब्बं कुञ्जतेर्वौञ्जतेर्वा । अनुष्टुबनुष्टोभनाद्वा-यत्रीमेष त्रिपदां सती चतुर्थेन पादेनानुष्टोभतीति च ब्राह्मणम् । बृहती परिवर्द्धणात् । पङ्क्तिः पञ्चपदा । त्रिष्टुप् स्तोभस्युत्तरपदा । का तु त्रिता स्यातीर्णतमं छन्दस्त्रिवृत्तस्तस्य स्तोभनीति वा । यद्विरस्तोभसत्त्रिष्टुभस्त्रिष्टुप्त्वमिति विहायते vii. 12 जगती गततमं छन्दो जलचरातिर्वा । जलास्थमानोऽभृजदिति च ब्राह्मणम् । विराड् विराजनाद्वा विराधनाद्वा विप्रापणाद्वा विसज्जनात्संपूर्णाक्षरा विराधनाद्वाक्षरा विप्रापणादधिकाक्षरा । पिपीलिकमथे-ल्यौपमिकम् । पिपीलिका पेलतेर्गेतिकर्मणः vii. 13.

In the Nirukta this derivation of metres belonging to different gods (अग्निभक्तीनि etc.) is quite in place. But what is their place in the Brāhmaṇa of the Sāmaveda? As the name of the Brāhmaṇa in question shows, it has to do with deities of the various songs in that Veda. In the beginning of his commentary on that Brāhmaṇa Śāyana rightly observes—तत्रादौ साध्नां निधनमेदेन देवताभिधानाय ता एवानुक्रमते. And 'at the end of the first sentence of the Brāhmaṇa 'अग्निन्द्रः प्रजापतिः सोमो वरुणस्त्वष्ट्राङ्गिरसः पूषा सस्वती-न्द्राग्नी' he says 'एताः सामदेवता इति शेषः.' In the first Khaṇḍa, the deities of the songs are given; in the second Khaṇḍa after describing the 'colours' of the various metres, their deities are given. This really ought to close the Brāhmaṇa; but here follows the third Khaṇḍa, the greater part of which we have quoted above. Here, as usual, Śāyana has his introductory remarks and he almost apologetically observes—अथ सामाभ्याणां छन्दसां कथनप्रसङ्गेन तेषामेव निर्वचनं दिदर्शयिषुसदौ, प्रतिजानीते—now, after having mentioned the metres upon which the songs depend he incidentally wishes to show their derivation, and begins. The word प्रसङ्गेन is important as showing how Śāyana has to invent an excuse. Derivation is, indeed, not an uncommon phenomenon in the Brāhmaṇas; but it is never indulged in for its own sake. We find for instance the names of deities, or songs derived, but only as a corroboration of the function or *vinīyoga* that is mentioned. And nowhere do we find a continuous string of derivations as in this Brāhmaṇa. Again a Brāhmaṇa quoting from another Brāhmaṇa for corroboration is a phenomenon that I have not found in

the other extant Brāhmaṇas. Words like तस्योक्तं ब्राह्मणम् that one often meets with in the Ait. Br., for instance, mean something like तस्योक्तं रहस्यं or तस्योक्तो विनियोगः etc. They do not refer to a Brāhmaṇa in the sense of a theological work. We have therefore no hesitation in saying that the whole of the third Khaṇḍa of the Daivata Brāhmaṇa is an imitation of the Nirukta and quite out of place in the Brāhmaṇa.

Some few quotations have necessarily remained unverified, but it is hoped that, as more Saṃhitā and Brāhmaṇa texts are discovered and printed, these may also be traced.

SOME AVESTAN TRANSLATIONS

BY J. H. MOULTON

I have essayed a hard task in trying to put some typical Gatha extracts into English verse. But I have some hope that they may become a little easier in this form. Of Professor Mills's version (in *Sacred Books of the East*) it has been too truly said that the English needs the help of the original to be intelligible. My own prose in *Hibbert Lectures* on "Early Zoroastrianism" is I hope less difficult, and it embodies Bartholomae's researches, which were not available for my predecessor. But the use of rhythm and rime, and a greater freedom in rendering, may make the impression of the Hymns a little truer.

We have to remember that Zarathushtra was not writing poetry for poetry's sake. The verse form was mainly intended as a help to memory. If therefore the English version has little claim to be poetry, the translator may fairly claim that he had no right to put into his original what was not there. Only an Edward Fitz-Gerald may do that!

The selection in the first two cases was dictated by the striking character of the contents, in which the very greatness of the Prophet's theme lifted his verse into poetry. To quote my own words (*Early Religious Poetry of Persia*, p. 84)—

"Versified summaries of the most eloquent sermons, composed to help the faithful to retain their essence in the memory, have almost as little chance of rising into literature as the mnemonic stanzas by which at school we painfully acquired the mysteries of Latin genders. ⁴ Almost— for after all the Prophet was in deadly earnest, and he preached on great themes, and spiritual fervour can make literature *malgré lui*, even under such unfavourable surroundings."

Yasna 31. 1-8

1. Mindful of a heavenly calling, we
the words of Truth assert—
Hard the words, when Falsehood's followers
Right's domain conspire to hurt,

Moulton: Avestan Translations

Welcome words, when to the Wisest men
their willing mind convert.

Since, for all this truthful teaching, souls
to higher things are blind,
< Come I to you, good and evil, judge
by Mazdah's will assigned.
Set to order life's renewal, that the Right
its way may find.

Tell us, Wisest, let us know it—be the word
from thine own tongue,
By thy Fire and by thy Spirit what thou
dealst to right and wrong,
What thy true decision tell me—to convert
mankind I long.

For the prayer to Right and Mazdah, and
whatever Lords there be,
Destiny and Duty invoking, Best Thought,
do thou seek for me
Heaven's Ali Might, for war with Falsehood,
so to win the victory.

' Show me then, O Right, my portion, heaven-
ordained, that I may know,
Fixed my mind and wary ever, though men
grudge that it be so:
Tell what shall be, what shall not be; Wisest
Lord, thy wisdom show.

He that as a man of knowledge hath the skill
true words to rede,
Heir of Utmost Good, that redes me Weal
and Life Indeed,
His the Wisest Lord's Dominion, which Good
Thought for him shall speed.

His.the primal thought, ordaining "Let the
West Worlds teem with Light,"

His the craftsman hand that stablished,
 Wisest Lord, the heavenly Right.
 Changeless aye Thy Spirit, enriching homes
 for Goodness in the height.

Thee as First, Thee Last—my soul's grasp
 fastened on the mystery;
 Father of Good Thought, Thou earnest to the
 seeing of mine eye;
 Author sole of Right, Thou judgest deeds
 of our mortality.

Yasna 44. 1-5

This I ask thee—tell me truly, tell me
 duly, Holy Lord—
 How to worship with a service worthy
 thee, O King adored.
 Teach me, Wise One, as the heavenly may
 the earthly, as to friend
 Friend may speak—so may the kindly Right
 its timely succour bring,
 And with heaven's Good Thought to reward
 in its gracious power descend.

Tell me duly, tell me truly as I pray,
 O Holy King:
 When the Highest Life is dawning, at thy
 Kingdom's opening,
 Shall the dooms of heaven's tribunal give
 to every man his due?
 Surely he, the holy prophet, to his watchful
 soul doth lay
 Ail men's sin, yet ever friendly doth
 the worlds of life renew.

This I ask thee—tell me truly, tell me duly
 as I pray:
 Who the Sire from whose begetting Right
 was on Creation Day?
 8 [Btiandarkar Com. VOJ.J

Who their several paths appointed where
 the Sun and Stars should go ?
 By whose power is yon Moon waning, by that
 power once more to wane ?
 These things, Wisest, I am yearning, these
 and more beside, to know*

4. This I ask thee, Lord of Wisdom—truly
 make the mystery plain :
 Who this world beneath, above us, safe
 from falling did sustain,
 Nether Earth and vault of Heaven? Who
 the Waters hath upborne,
 Who the Plant-world ? Who yoked swiftness
 to the clouds and to the wind,
 Who is he, O Wise Creator, from whose soul
 Good Thought was bornr?
5. Tell me truly as I ask thee—Lord,
 illuminate my mind:
 Light and Darkness, who hath made them ?
 Who such wondrous skill might find ?
 Who the hours of sleep and waking hath
 ordained with wisest skill,
 Dawn of day, and noon's refreshment, and
 the late approach of eve,
 Set to call the man of knowledge hests of
 duty to fulfil ?

The next specimen, a complete hymn, is given to illustrate the humbler purpose of the Gathas. Yasna 47, the opening hymn of the *Outha Spenta-mainyv*[^] is a very palpable verse summary. In the little book just quoted (pp. 108 f.) I have noted that the hymn is almost a neophyte's first lesson, bringing together a maximum of characteristic terms. Note how in the first stanza we have all the six leading *ahvras* (Amesha Spenta), the triad of Thought, Word and Deed, and the Holy (Kindly) Spirit. Later we have the Ox and the Fire, and the Demon world represented by 111 Thought and Falsehood (*Druj*). There

is also the technical (and much disputed) word *rarioibyli*, "the two parties", followers respectively of Asha and Druj, to whom falls the *vanghau vidaiti*, "partition in good", i. e. of good and evil severally.

Yasna 47

1. By his kind Spirit, by Best Thought and Deed
And Word, with Right, the Wise Lord gives his meed
Through Power and Piety—Weal and Life Indeed.
2. This kindest Spirit's Best doth one fulfil
With tongue by Goodness' words, with hand by will
Of Piety's lore :—Mazdah Right's sire is still.
3. Blest Father of the Spirit that hath made
Luck-bearing cattle, and their peaceful glade
By the kind Mother, through the Good Thought's aid.
4. From this have fallen the lovers of the Lie,
Not so the Right's men. Rich or poor, may I
To these show love, to those show enmity.
5. Thy promised Best, by this kind Spirit due
To men of Right—Lord, is't thy will a crew
Of Liars enjoy it, 111 Thought's comrades true ?
6. Through this kind Spirit, Lord, and by thy Fire,
With Right and Piety, thou giv'st both their hire—
Sure *this* shall turn all that the Truth desire 1

iast come the three specially sacred formulae, of which only the third is even partially a "prayer" in the usual sense : the first two are rather creeds. I have represented the translation defended in my *Early Zoroastrianism*, pp. 160f. and 390. The third, as I read it, is a rallying-cry to the people. The *Ahuna Vairya* is a declaration that Zarathushtra is Teacher in this life, and judge in the Hereafter by Asha's appointment: he will offer to Mazdah the treasure of his faithful people's merits, which by their outweighing **the** counter-accumulation of 111 Thought will establish the

Kingdom, the final victory of Good over Evil. This is done by one whom Mazdah appointed (I take *dadat* as singular, not plural) to be "shepherd" of the faithful "poor." The *Ashem Vohu* is a concise play on two meanings of *asa* 'he who lives in accordance with "Right" gets his "rights" in the end.

Ahuna Vairya

As here our chosen Master he,
By Right he there our Judge shall be.
Life-works that from Good Thought arise
He offers to the Only Wise,
To the great Lord his Kingdom sure
Who made him shepherd of the poor.

Asem Vohu

Right is the highest good, and so our rights
Meet heart's desire when Right
has reached its heights.

Aairydtna isyu

Hither come, dear Brotherhood,
Come to aid the people's good,
Zarathushtra's faithful men,
Faithful women, and again
Goodness' self. What soul doth light,
On the precious meed of Right,
(Rise, my prayer, to the Wise Lord),
Grant him thine own blest Reward.

By way of foil, I append a translation from the Later Avesta, a very much easier matter. I have translated a good many more striking passages in *Early Religious Poetry*, chap. ix. I now select the first part of the *Hom Yasht* (Ys. 9. 1-15), the verse of which is preserved throughout, though very haltingly in the last section, where the subject changes from Aryan folklore to Magian ritual: probably this is connected with later date, and a period when the language was archaic and the prosody largely lost. I have not attempted to mend the metre there, but in the earlier

cantos I have sometimes struck out apparent glosses, so as to make the lines scan.

To Haoma (Ys. 9)

1. At the hour of due libation,
Haoma came to Zarathushtra,
Busily the fire attending,
While the holy Hymns he chanted.
Of him then asked Zarathushtra :
" Who art thou, O man ? for never,
Never in the world of matter,
Or in that self-dowered existence,
Deathless, sunny, saw I fairer."
2. Then to me he made an answer,
Haoma, holy, death-avertter:
" Zarathushtra, I am Haoma,
Haoma, holy, death-avertter.
Call me to thee, O Spitama,
Press me, ready for the drinking;
Praise me, with what praise the Saviours
Of the coming age shall utter.*
3. Then made answer Zarathushtra: *
" What man first, O glorious Haoma,
Pressed thee for the world material ?
What the boon by him achieved ?
What the guerdon that befel him ?
4. Then to me he made an'answer,
Haoma, holy, death-avertter:
" 'Twas Vivahvant, first of mortals.
This the boon by him achieved,
This the guerdon that befel him :
To him was a son begotten,
Yima of fair flocks, all-shining.
Never mortal born had glory
Like to his, whose face was sunlight
For he made through his dominion,

Men and cattle all unfading.
Plants and waters drought-defying,
Food to eat imperishable.

5. In swift Yima's great dominion
Neither winter was nor summer,
Neither age nor death befel them,
Neither sickness (?) demon-given.
Fifteen years in age—so seemed it—
Son and father walked together.*
While he reigned, of fair flocks shepherd,
Son of Vivahvant, great Yima."

[6 and 7 = 3 and 4. Athwya was the second.]
To him was a son begotten
Of a noble house, Thraetaona.

8. He the Serpent slew, Dahaka,
Triple-jawed and triple-headed,
Six-eyed, thousand-powered in mischief,
Falsehood-demon very mighty,
False, a pest to all creation.
Him the mightiest fiend of falsehood
Angra Mainyu's self had fashioned,
To material creation
Foe, for death of Asha's creatures.

19 and 10 = 3 and 4.]

10. Thritha was the third to press me,*
Thritha, strongest of the Samas.
This the boon by him achieved,
This the guerdon that befel him:
To him were two sons begotten,
Urvakshaya, Keresaspa—
One a Judge, just dooms to issue,
But the other, wonder-worker,
Curly-headed, young, club-bearer,
11. He that smote the Horned Serpent,
Horse and man alike engulfing,

Belching poison, yellow-sicklied:
 Flowed the yellow poison o'er him
 Fathom deep, a flood of mischief.
 On his back did Keresaspa
 Boil him flesh in iron caldron
 At the noon-day hour of eating.
 Then the ill beast, scorched and sweltering,
 Shot away beneath the caldron,
 Spilled away the seething water.
 Headlong fled away affrighted
 Manly-minded Keresaspa.

[12 and 13 = 3 and 4]

Pourushaspa fourth of mortals
 Pressed me for the world material.
 This the boon by him achieved,
 This the guerdon that befel him,
 That to him wert thou begotten,
 Even thou, O Zarathushtra,
 Of the house of Pourushaspa,
 Foe to fiends, the Good Law's champion.

14. Famous thou in Aryan country,
 First of men, O Zarathushtra,
 First to chant *Ahuna Vairya* *
 Four times, with the ordered pauses,
 Stressed the second half in utterance.

15. All the demons, Zarathushtra,
 Thou hast driven in earth to hide them:
 Erstwhile bold, in guise of mortals,
 Round about this earth they wandered.
 Thou the strongest, thou most vigorous,
 Thou the keenest, thou the swiftest,
 Thou the mightiest victor ever
 That the spirits Twain have fashioned.

One or two notes may be appended on the lines marked with*.

2. *Aparacit* is a gloss, due to ignorance that *SaoSyanto* is a future already and does not need the adjective.

3. *Ndtnd Haemal* if *extra metrum*, if not to be simply omitted.

5. *Ka(arascit* is a gloss, which adds nothing to the sense.

10. Since there is no reason why the formula should be always identical, we may drop *astvaidyai gaeSynt* this time, and so restore the metre.

14. Since the Ahuna Vairya is essentially a declaration of spiritual allegiance to Zarathushtra as "shepherd of the poor," there is considerable *naivete* in the great discovery here assigned him. It is perhaps contributory evidence for a thesis otherwise probable, that when the **Yasht** was composed the formula was already unintelligible.

HUNAS IN AVISTA AND PAHLAVI

BY J. J. MODI

THE writer of the article on the Huns in the Encyclopaedia Britannica¹ says that the authentic history of the Huns in Europe practically begins about the year A. D. 372, when Balamir or Balambir led a westward movement from their settlements in the steppes on the north of the Caspian sea. A side issue of this movement was the downfall of the Gupta dynasty in India, regarding which Mr. Vincent Smith² in his History of India says—

The Golden age of the Guptas comprised a period of a century and a quarter (A. D. 330-455), covered by three reigns of exceptional length. The death of KumSragupta I, which can be fixed definitely as having occurred early in 455, marks the beginning of the decline and fall of the empire.....When Skandagupta (455-480 A. D.) came to the throne, in the spring of 455, he encountered a sea of troubles. The Pusyamitra danger had been averted, but one more formidable closely followed it—an irruption of the savage Huns, who had poured down from the steppes of Central Asia through the north-western passes, and carried devastation over the smiling plains and crowded cities of India. Skandagupta, who probably was a man of mature years and ripe experience, proved equal to the need, and inflicted upon the barbarians a defeat so decisive that India was saved for a time.

The Bhitari³ stone pillar inscription of Skandagupta takes a note of this victory over the Huns.⁴

Then there were fresh inroads between A.D. 465 and 470. Skandagupta was succeeded on the throne by his son Puragupta (480-485), who was succeeded by his son Nar-simhagupta Baladitya. In or about 484, there were other stronger and further inroads of the Huns under their king Toramana, who had established himself in Malwa (500 to

1 Ninth Ed. Vol. XII. p. 381. 2 Third Edition (1914) pp. 308 ff.

3 A village in the Sayyidpur Tahail of the Ghazipur district in the N. W. Provinces.

4 Corpus Inscriptionum Indicarum, Vol. III. Inscriptions of the Early Gupta kings and their successors, by John Faithful Fleet, (1888), Inscription No. 13, Plate VII, pp. 52-56.

9 [Bhandarkar Com. Vol.]

510). This Toramana was succeeded by Mihiragula or Mihirkula.

The above-mentioned Baladitya was the king of Magadha at this time and Yasodharman (Vikramaditya) was the ruler of Malwa in Central India. Round the names of these two kings there rages a conflict of opinions among scholars, as to which of these two Rajas, defeated Mihirkula and put an end to the Huna supremacy in India. Dr. Rudolf Hoernle¹ says it was Yasodharman. He rests for his authority on epigraphical, numismatic, and literary evidence, of which the first is the most important. The inscriptions of Yasodharman on his two *rana-stambhas* or "Columns of Victory in War," commemorate this victory.² The second column, which is much mutilated, is, as it were, a duplicate. Mr. Vincent Smith,³ on the other hand, advocates, that it was Baladitya who defeated the Huna king. He rests for his authority on the statement of the Chinese traveller Hiuen Tsang⁴ who represents Baladitya as defeating Mihirkula.

This question has been also indirectly touched by Professor K. B. Pathak⁸ and Babu Manmohan Chakravarti.⁶ In the solution of this question, the Persian history of the Sassanian times has also been appealed to. 'I do not wish to enter into the controversy, but simply say that, on weighing the arguments on both sides, I am inclined to believe that the credit of the defeat of the Huns belongs to Yasodharman. The authority of the Chinese traveller is second-hand and late. His statement that Mihirkula, the Huna king who is the hero of this controversy, lived 'some centuries ago'⁷ should make one pause before taking him

1 Journal, Royal Asiatic Society, 1909, pp. 88-144.

2 Fleet's Gupta Inscriptions, No. 33 and 34, pp. 142-50.

3 History of India, 3rd edition (1914) pp. 318-21.

4 Si-yu-ki, Buddhist Records of the Western World, by Samuel Beal Vol. I, (1884) pp. 165-71.

5 Journal, B. B. R. A. Society, Vol. XIX, pp. 35-43.

6 Journal of the Royal Asiatic Society for 1903, pp. 183-86,

7 Peal's Buddhist Records, Vol. I, p. 169.

as an authority. By that statement, he carries the date of Baladitya also 'some centuries ago,' which is against chronological facts. Thus, the authority of a pilgrim-traveller who speaks in later times, and that on second-hand hearsay information, and whose statement on the fact of the date of a king is incorrect, must be set aside, when placed by the side of the contemporary evidence of the inscriptions of the king who claims the victory. If Yasodharman had not been the real victor, he would not have dared to get that inscription put up. He ran the risk of being taken for a braggart or a boaster by his contemporaries,—princes and peasants alike. The court-poet, while preparing the inscription verses, may praise the king and even make a god of him if he liked, but he would not dare, and his royal patron himself would not allow him to dare, to attribute to the king, in the inscription, a feat or a deed which the king did not do. Exaggeration in praise is one thing but a false statement is another thing. The latter would lower the king in the esteem of his people who know all the contemporary events.

The above Hun kings, Toramana and Mihirkula, speak of themselves on their coins, as "Shahi" kings. We learn from Firdousi, that the king of the Haetalite Huns, who helped Firuz, was spoken of as the Shah of Haital¹ He is also spoken of as the Chagani Shahi.² So, I think, the term "Shahi," used by the Hun kings of India, refers to the title which they had assumed, and that the Huns who settled in India were of the same tribe as those who invaded Persia.

Though the above historical references and the epigraphical evidence speak of the inroads of the Huns in the 5th and 6th centuries after Christ, looking to the history of this great nation of the Huns, who had a running history of about 2000 years, it appears, that there were inroads of these people in times much anterior to these later times of the Guptas. According to M. Deguignes the his-

1 Mecan's Calcutta edition of the Shah-nameh, Vol I I I , p. 1589.

3 Ibid*

tory of the Huns is the history " of a nation almost ignored which established at different times powerful monarchies in Asia, Europe and Africa. The Huns, who, later, bore the name of *Turks', natives of a country situated in the North of China, between the rivers Irtush and Amur, made themselves, by degrees, masters of the whole of the great Tartary. Since 200 B. C. several royal families have successively reigned in their vast countries. They had empires more extensive than that of Rome, some illustrious emperors, some legislators and conqueror-s, who have given rise to considerable evolutions."¹ The Huns in their long history of about 2000 years, and in their distant marches of more than 2000 miles, one way or another in the East or in the West, in the North or in the South, were known under a dozen different names at different times and different places.

The history of Persia, the history which one may perhaps like to call comparatively the pre-historic history of Persia, points to the existence of the Huns centuries before Christ. The Avesta writings clearly show this. These Writings show that the name of the Huns, by which these people are known, is a very old name of times long anterior to Christ; and this further confirms the views of M. Deguignes in the matter.

The Huns are spoken of in the Avesta as the *Hunus*. We find the following references to them.

I. We read thus in the Aban Yasht—

(53) Tam Yazata takhmo Tusō rathaestaro baresae' feu paiti aspanam zavare jaidhyanto hitaeibyō dravatatē tanubyō pouru-spakhstim tḥisayantam paiti-jaitlm dushmainyavanam hathranivaitlm hamerethenam aurvathanam tḥisyantarii. (54) Aat him jaidhyat avat aiya-pteam dazdi me vanguih seviste Ardvīsurā anahite yat bavani aiwi-vanyau aurva *Hunavo* vaeskaya upa dvaretn

1 I give my own translation from " Histoire Generate des Huns, des Turcs, des Moguls, et des autres Tartares, occidentaux etc., avant et depuis Jesus Christ jusqu'a present," par M. Deguignes (1756), Tome I, fattie I, Preface, p. V.

khsathrosaokem apanotemem kanghaya berezantya asavanaya yatha azem nijanani Tuiryanam dakhyunarii pancasagnai satagnaisca satagnai hazangragnaisca hazangragnai baevaregnaisca baevaregnai ahahkhstagnaisca. (55) Dathat ahmai tat avat ayaptem Ardvisura anahita hadha zaothro barai aredrai yazemnai jaidhyantai dathris ayaptem.

Translation:—(53) The brave warrior Tusa invoked her (Ardvisura) riding on horse-back and praying for strength to his horses, strength to [his own] body, great watchfulness over those who annoyed him, power to strike his enemies, power to run down his foes, adversaries and annoyers. (54) Then he asked of her: O good beneficent holy Ardvisura! give me this gift, that I may be the overcomer of the brave *Hunas* of Vaesaka¹ at the gate of the lofty [fort of] Khsathrosaoka of the high and holy Kanga², [and] that I may kill the fifties and the hundreds, the hundreds and the thousands, the thousands and the ten-thousands [and] the ten-thousands and the innumerable of [the people of] the country of Turan. (55) Holy Ardvisura granted the desire of him who carried offerings, gave gifts, made "invocations [and] sought the fulfilment of desires.

I I. We further read in the Aban Yasht :

(57) Tam yazenta aurva *Hunavd* Vaeskaya upa dvarem khsathro-saokem apanotemem Kanghaya berezantya asava* naya satee aspanam arsnam hazangre gavam baevare anu-mayanam. (58) Aat him jaidhyen avat ayaptem dazdi no vanguhi seviste Ardvisura anahite yat bavama aiwivanyau takhmem Tusem rathaestarem yatha vaem nijanama airyanaih dakhyunam pancasagnai satagnaisca satagnai hazangragnaisca hazangragnai baevaregnaisca

1 Dr. West is wrong in translating "*Hunav6* Vaeskaya" as the "*Hunas* in Vaeska" and thus taking Vaeska to be the name of a place (Legends relating to Keresasp, Pahlavi Texts, Part II, S. B. E. XVIII, p. 371, n. 4).

2 Firdousi places the fortress of Kang (Kangdez) at about a month's distance from China. Macoudi (II, p. 131, ch. 21) also places it (Kenkerder) in China.

bašvaregnai ahahkhstagnaisca. (59) Noit aeibyascit dathat tat avat ayaptem Ardvisura anahita.

Translation:—(57) The brave *Hunus* of Vaesaka invoked her (Ardvisura) at the gate of the lofty [fort of] Khsathrosaoka of the high and holy Kanga, with one hundred horses, one thousand oxen, [and] ten thousand lambs. (58) Then [thus invoking] they asked of her: "O good beneficent holy Ardvisura! give us this gift; that we may be the overcomers of the brave warrior Tusa [and] that we may kill the fifties and the hundreds, the hundreds and the thousands, the thousands and the ten-thousands, [and] the ten-thousands and the innumerable of [the people of] the country of Iran." (59) Holy Ardvisura did not grant this gift to them.

We gather the following facts from the above passages of the Aban Yasht on the *Hunus* : (1) Vaesaka was one of the brave leaders, or rather the family of the leaders, of the *Hunus*. This Vaesaka of the Avesta seems to be the same as Visak of the Pahlavi Bundelesh (chap, xxxi, 16,17 J,¹ one of the ancestors of the Turanians, an uncle of Afrasiab² and the father of Piran, the Turanian Nestor. He is the Viseh of Firdousi's Shah-nameh. (2) An Iranian hero Tusa³ was a great enemy, or rather Tusa's family and descendants were great enemies of Vaesaka or of Vaesaka's family and descendants. We learn from Firdousi, the special reason why these two families were so very hostile. In the war between the Iranian Naodar the father of Tusa, and the Turanian Afrasiab the nephew of Viseh, Barman,

1 Vide my Bundelesh p. 169.

2 According to M. Gabriel Bonvalot, travellers are, even now, shown at Samarkand, a place known as that of the Cemetery of Aprosjob (Afrasiab). The present ruins of Samarkand include the ruins of Afrasiab and are known as the city of Afrasiab (Through the Heart of Asia by M. Gabriel Bonvalot, translated from the French by Pitman, Vol. II, pp. 7 and 31). For further particulars about him, vide my Dictionary of Avesta Proper Names, p. 130. Vide also Tarikh-i-Rashid by Elias, pp. 286-7.

3 It is this Tus that is said to have been the founder of the city of TUB, the birth-place of the great Firdousi Tousi.

a son of Visēh was killed. Naodar was killed by Afrasiab in revenge.¹ (3) The head-quarters of this Hun hero Vae-saka and his tribe was, at that time, at a place called Kanga, somewhere in Central Asia. It is the Kangdez, i. e. the Fortress of Kang of the Shah-nameh. (4) The time of this war between the Iranian Tus and the Turanian Hun Vaesaka or Visa, was long anterior to that of king Vistasp, who, according to later Pahlavi writers, lived, at least, about seven centuries before Christ. Thus, we see from the Avesta, that the *Hunus* or the Huns appear first in history as fighting with the Iranians long before the 7th century before Christ

III. The next reference to the Hunas in the Avesta is in the Meher Yasht (x. 113) where we read as follows—

Tat no jamyat avanghe Mithra Ahura berezanta yat berezem barat astra vacim aspanamca srifa khsufsan astrau kahyan jyau nivaithyan tigraungho astayo tadha *Hunavfi* gouru-zaothranarh jata paithyaunti fra-varesa.

Translation:—May the great Mithra and Ahura come to our help there where the weapons of war jingle (lit. raise loud noise), the hoofs of horses rattle, the daggers clink, [and] bows shoot forth sharp arrows. There [by the arrival of Mithra and Ahura for assistance] the *HNVUS*, the mala-fide offerers of sacrifices, go about smitten and with dishevelled hair.

The word *Huvu* in the Avesta also means a son. It is used for bad or wicked sons. It is the Sanskrit *snnn*, Eng. son. So, Darmesteter, Kavasji E. Kanga, Harlez, Spiegel and others take the word here as a common noun in the sense of 'sons' or 'descendants.' But, I think, there is here a clear reference to the battles with the *Hunus* or Huns.

In the present passage there is an invocation to Mithra and Ahura for help in the battle field, so that, with their help, certain persons may be smitten. These persons, all the translators take to be the descendants or sons (*hunu*) of some evil-minded persons. I would ask: Why are Mithra and

Ahura invoked for smiting the children of the evil-doers and not the evil-doers themselves? One cannot admit the justice of such an invocation. So I submit that it is clear that it is the evil-doers themselves, the *Hunus*, against whom the invocation is made. We are not in a sure and certain position to determine the time of this reference to the Huns.

IV. We read as follows in the Jamyad Yasht about a great Iranian hero Keresasp—

41. Y6 janat *Hunavo* yat pathanya nava *Hunavai** ca Nivikahe *Hunavas* ca Dastayftnois.

*Translation:—*Who (Karesaspa) smote the *Hums*, the nine highway men, the *Hunus* of the Nivika, the *Hnnus* of the Dastaya tribe.

Other translators like Kanga, Darmesteter, Spiegel, have taken the word *Hunv*, which occurs thrice in this passage, as a common noun for 'sons or descendants.' West¹ and Harlez have taken the word in its first place, as a proper noun for the *Hunus*, and in the next two places, for common nouns. I think that it is a proper noun in all the three places and refers to a fight with the *Huvus*.

Harlez gives the following note over the word *Hunus*: "Personages 16gendaires inconnu. Les legendes recueillies dans les Shahnameh parlent aussi de brigands tues par des heros et de brigands au nombre de cinq ou sept."²

Harlez supposes this name to be legendary, but it seems to be a reference to the Huns. The time of this reference seems to be well-nigh the same as, or even a little anterior to, that referred to in the Aban Yasht. The Haoma Yasht (Ya^{na} IX 6-13) places Keresasp's time long before Zoroaster. The Aban Yasht (Yt. V, 37) places his time somewhat before that of Afrasiab, the nephew of the Vaesaka or Visa above referred to. The Ram Yasht (Yt. XV, 27) also places him before Zoroaster.

1 Legends relating to Keresasp, Pahlavi Texts Part II, S. B. E, Vol. XVIII, p. 370.

% Le Zend Avesta, p. 546, n. 5.

Keresasp was a great Iranian hero who is more than once referred to in the Avesta. Some of his exploits are referred to in the Zamyad Yasht. One of these exploits was, as said above, that of smiting the *Hunus*. It seems that these exploits were described at some length in the Sudgar Nask, one of the lost books out of the twenty-one books of the Avesta that are believed to have been extant at one time. Though almost all the Nasks have been lost, we know from the ninth book of the Dinkard what their contents were. Similarly, we find therein, in brief, the contents of the Sudgar Nask.¹ In the contents of the fourteenth Fargard Ad-fravakhsya we find the exploits of Keresasp. Therein, we find that the above-mentioned exploit with the Huns, referred to in the Zamyad Yasht, is described thus—

"When the Vesko progeny who (were descendants) of Nivik [and] Dastanik [were] slain by him."²

Here in the Pahlavi passage, we do not find the word *Hunu* repeated as in the Zamyad Yasht with the two proper names Nlvika and Dastayana, i. e. the word for 'son,' as understood by the different translators, has not been given. Dr. West has himself added the word 'descendants' This fact seems to me to show that the word *Huwu* in the Zamyad Yasht is used as a proper noun for the *Hunus* or Huns in all the three places and not as a common noun in the sense of 'sons.' *

The fahlavi legend is also preserved in the Pahlavi Rivayet accompanying the Dadistan-i-Dini.³ Therein,

1 For the Pahlavi Text, vide Dinkard compiled by Mr. D. M. Madon, VoJ. II, pp. 802-803 and West's Dinkard (S. B. E. XXXVII, Pahlavi Texts Pt. IV, pp. 197-99) Bk. IX, Ch. XV. Vide also West's legend relating to Keresasp in the S. B. E. Vol. XVIII (Pahlavi Texts, Pt. II, pp. 370-72). For the Persian rendering of the legend, vide the Saddar Bundelesh (Chap. X,X, pp. 86-92), edited by Ervad Bomanji N. Dhabhar. For the translation of this Persian legend, vide Ervad Edalji Kersaspji Antia's Paper "The Legend of Keresasp," in the Spiegel Memorial Volume edited by me (pp. 93-98).

2 West S. B. E. XXXVII p. 198, XVIII, p. 372.

3 For the Text of this, vide "The Pahlavi RivSyet accompanying the Dadist5n-i-Dinik," edited by Ervad Bomanji N. Dhabhar (1913) pp. 65 to 74, No. XVII,

where the particular exploit of Kerasasp in connection with the *Hunus* mentioned in the above passage of the Zamyad Yasht is referred to, we do not find the name *Hunu* but we find that the persons whom Kerpsasp smote are spoken of only as *racddr*,¹ i. e. highway men, which is a Pahlavi equivalent of the Avesta 'Pathan.*

In the Persian Legend of Keresasp, which is the rendering of the above Pahlavi Revayats, we find the word *rUh-dar* which is the same as Pahlavi *ragdar*.

These Pahlavi and Persian renderings of the original exploit show, that the *Hunus* or Huns, with whom Keresasp fought, were by profession, as it were, highway men. The Avesta Zamyad Yasht, gives the number of their leaders as nine (*nava*). The Pahlavi Revayat gives no number. But the Persian Revayat has reduced the number to seven.

Now, what was the time of this fight of the Iranians with the Huns referred to in the Zamyad Yasht? From the fact that this war or battle was led by Keresasp, we may properly conclude that it referred to times long anterior to king Vistasp and Zoroaster, i. e. long anterior to at least about B. C. 700.

V. The next references to the Huns are in the Farvardin (xiii. 100) and Zamyad (xix- 86) Yashts, where we read thus about king Vistasp (Gustasp)—

Yo him statam hitam haitim uzvazat haca *Hunu-iwyo*.

*Translation:—*Who (King Vistasp) separated it (i.e. the Zoroastrian religion referred to in the preceding para), strong holy-existing from [the influence of] the *Hunus*.

Darmesteter, Spiegel, Harlez and Haug very properly take the word *Hunu* in this passage for a proper noun, but Kanga takes it for a common noun.

In the Farvardin and Zamyad Yashts, king Vistasp or Gustasp, the patron of Zoroaster and of the Zoroastrian religion, is spoken of, as said above, as separating the religion of Iran from the influence of the *Hunus*. In the Gos

1 Ibid p. 69, i. 7.

Yasht¹ Vistasp prays for overcoming eight foreign kings or chiefs. Among them, one is Khyaona Arejataspa, who is spoken of in the Pahlavi Aiyadgar-i-Zariran (Memoirs of Zarir) as Arjasp-i-Khyonan Khudai², i.e. Arjasp the king of the Khyaonas. We find a similar prayer in the Asisvang Yasht.³ Vistasp had to fight three wars with this Turanian king Arjasp. Firdousi refers to these at some length. The wars were due to the appearance of Zoroaster as a prophet in the court of Vistasp. According to Firdousi, Zoroaster advised his royal patron to free himself from the yoke and influence of this Turanian king. So, taking the above passage of the Farvardin Yasht in connection with the passage of the Gos Yasht above referred to and with the Pahlavi writing of the Aiyadgar, it seems that Arjasp the Turanian with whom Vistasp fought, and his tribesmen the Khyaonas, were all Huns.

From the passages of the Yashts, at least of the Farvardin and Zamyad Yashts, we find that the *Hunus* or Huns lived in the time of king Vistasp and Zoroaster, which, if not anterior to, was at least not later than, that of the 7th century before Christ.

These *Hunus* seem to have belonged to the same group of hostile tribes to which the Varedhakas and the Khyaonas belonged. King Vistasp, the patron king of Zoroaster, who is represented as opposing the *Hunus*⁴ is also represented as opposing the Varedhakas⁵ and the Khyaonas.⁶

According to Darmesteter, the Varedhakas referred to in the Avesta as a hostile tribe like the *Hunus*, may be the later Vertae. Similarly the Khyaonas were the Chionitae. They lived somewhere on the western coast of the Caspian.⁷

1 Yt. IX. 31, 31

2 Vide my "AiyadgaT-i-Zariran, Shatrolha-i-Airan and Afdiya va Sahigiya-i-Seistan" (1899) p. 5.

3 Yt. XVII, 49-50.

4 Farvardin Yasht 100.

5 Gosh Yasht, 31; Asisavang Yasht 51.

6 Ibid and Zamyad Yasht 87.

7 Darmesteter, 8. B. E. Vol. XXIII, p. 117 n. 6, Yasht IX, 100n 6

From this rather long examination of the Avesta passages we find that the *Hunus* were known in Persia as a wandering and pillaging nation or tribe before the 7th century of the Christian era.

Among the several passages of the Avesta which we have examined we find that there is some difference about the meaning of the word *Hunu* in some passages. But there are some for which there is no difference, especially the passages referred to in the Aban Yasht and which referred to the war between the Iranians of Tusa and the *Hunus* of the Turanian Vaesaka,

The early Huns, i. e. the Huns of the times of the Avesta, seem to have professed well-nigh the same religion as that of the early Iranians. We see this from the ceremonial form of their prayers, referred to in the Aban Yasht (Yt. V. 53, 58). We see, from the passages of this Yasht given above, that both the Iranian Tusa and the *Hunus* of Vaesaka invoke Ardivisura with the same ceremonial offering. They both offer 100 horses, 1000 oxen and 10000 lambs. Secondly, we learn from the Pahlavi Aiyadgar-i-Zariran that Arjasp raised a war against Vistasp because the latter acknowledged the new religion of Zoroaster. Why should he have done so had they professed different religions? Though hostile and though differing in the details of their belief, they seem to have followed a common religion, a religion the main elements of which were the same. Had it not been so, there was no special reason for Arjasp to declare war for the sake of religion. We read in the Pahlavi Aryadgar: "Arjasp, the king of the Khyaonas, had the startling news that king Vistasp had, with his sons, brothers and family, chiefs and equals, accepted from Oharmazd this holy religion of the Mazdayasnans. Thereby he was much distressed."¹ Further on, we read the following message of Arjasp to Vistasp: "I have heard that Your Majesty has accepted from Oharmazd the pure Mazdayasnans religion. If you will not think of it, great harm and unhappiness may result to us from that (religion). But

1 Vide ray Ary2dg3r-i-Zarlrān etc. p. 3.

if it please Your Majesty, and you give up this pure religion, and be of the same religion with us, then we will pay homage to you as a king."¹ These passages show that Arjasp resents Vistasp's forsaking the common ancestral religion and adopting the new Mazdayasnan one of Zoroaster. Again, according to the Iranian tradition, recorded in the Pahlavi Bundelesh, the Iranians and the Turanians at first belonged to the same group. They had a common ancestor. This fact also shows that they had well-nigh the same religion. We find from the above passages of the Farvardin (100) and the Zamyad (86) Yashts that with the help of king Gustasp, Zoroaster separated the good elements from the bad ones, and rejecting the latter purified the old religion- That was his great work of reform- Firdousi (Calcutta ed- in. p. 1548) represents even the later Huns as praying in fire-temples with *baz* and *barsam*, the sacred requisites of Zoroastrian worship. According to Firdousi, king Behramgore sent the queen of the Khokan of the Hunnic Turks to the fire-temple of Azor Goushasp as a state prisoner to serve there-

We also learn from Indian history based on epigraphical, numismatic, and literary materials that Mihirakula was a foreign Hun king whom the Indian king Yasodharman, or as said by Mr. Vincent Smith, both Yasodharman and Baladitya combined, defeated. Rajatarangini,² the history of Kasmlr by Kalhana, refers to this Mihirakula at some length. We learn the following facts from this work about Mihirakula. (1) He founded the temple of Mihiresvara and the city of Mihirapura. (2) He allowed the Gandhari Brahmans, a low race, to seize upon the endowments of the more respectable orders of the Hindu priesthood. (3) These Gandhari Brahmans of Mihirakula had the custom of the

1 Ibid p. 5.

2 Bk. 1, stanzas 306 et seq. Troyer's Fretsch Translation oi 1840, Vol I, pp. 33 et seq. Vide also Sir Aurel Stein's Text and Translation and Wilson's Essay on the Hindu History of Kasmlr in the *Asiatick Researches*, Volume V (pp. 1-11), n. 33

next-of-kin marriages among them.¹ (4) A number of flesh-devouring birds followed the army of this king.²

The very name Mihirakula is, as said by Dr. Stein, Iranian. The names of the temple and city founded by him are Iranian. The marriage custom attributed to him is the matriarchal custom alleged to be tribal with some Persian people/ The reference to the flesh-eating birds points to the Iranian custom of the disposal of the dead. All these facts and references point to an inference that the religion of this Hun king, Mihirakula, had many elements which were common to the religion of the early Iranians.

According to the Iranians of the Avestic⁴ times, the people of the then known world were divided into five groups: (1) the Airyas, (2) the Turyas, (3) the Sarimyas or the people who dwelt in Syria, (4) the Saini, or the Chinese and (5) the Dah8B. Of these five stocks, the first three are traced from the three sons of king Faridun, the Thraetaona of the Avesta. These three sons were Salam, Tur and Irach. From Salam descended the stock of the Sarimyas, from Tur that of the Turanians and from Irach that of the Iranians. Vistasp came from the stock of Irach and Arjasp from that of Tur.

Va8saka, the typical Huna or Hun, and Tusa, the typical Iranian, descended, according to the Pahlavi Bundeshesh, from a common ancestor. The following geneological tree, prepared from the account of the Bundeshesh, gives their descent from Gayomard, supposed to be the

1 The stanza referring to this custom is omitted in Dr. Stein's Text but is found in Troyer's Text, p. 38. Dr. Stein refers to this omission in the foot-note. As to Mihirakula, Dr. Stein also thinks that the name is Iranian.

2 R5j., stanza i. 291.

3 For this custom see a Paper on "Royal Marriages and Matri'lineal Descent" by Miss Margaret Murray (Journal of the Anthropoio-gioal Institute of England, July-December 1915.)

4 Fafvardin Yasht, Yt. XIII, 144.

first king of the countries, of which Airyana Vaeja **or Iran** formed a part.

			Gayomard	
			Masya	
			SiySmak	
			Fravak	
		Hoshang		Taz
		Yanghad		Virafsang
		Vivanghao		Zainigao
Takhmorup		Spitur	Narsih	Khrutasp (or Mardas)
	Yima (Jamshed)			Dahak (Zohak), the Arab of the Semetic group from Babylon
	Vanfraghesna	AspiySn		
	Ramaktora	Aspyan		
	Geraftora"	Aspyan		
	Sapidtora	Aspyan		
	Sihaktora	AspySn		
	BortorS	Aspyan		
	Soktora	Aspyan		
	PurtorS	Aspyan		
Barmayun	Katayun	Faridun, descended from Purtora from a line of ancestors who lived for 1000 years		
Salara		Tur, the ancestor of the Tura-	i	Eracb, the ancestor of the Irans
		Dorosasp		Ganzah
		Spaenasp		Fraguzaga
		Turk		Zushak
		Zadsan or Zaesam, descended from a line of ancestors		Frazusag

Modi: flurias in Avesta

*Zadsan or Zeasam, descended from
a line of an-
cestors*

Frazuqag

Visak

Pasang

Bitarg

Afrgsiab

Thritak

Buterak

Mamak Sozak

Manosh Kharnak

Manosh Kharnar

↓
Minocher

Nodar

Tus

THE EARLY HISTORY OF THE INDO-IRANIANS

BY A. BERRIEDALE KEITH

IT is a curious characteristic of all the peoples of Indo-European speech that they should have failed in the early-days of their development to fashion for themselves a script, and that they should have owed their alphabets to the invention of others. Moreover even when they came into contact with peoples who used writing, they showed a disinclination to avail themselves of the discovery: this is clear not only in Iran and India, but beyond all in Greece, where we now know there existed linear scripts not later than 1800 B. C, but of these the invading Greeks, Ionians, Achaians, and Dorians made, it would seem, no use whatever, leaving to Phoenicia the honour of bringing into use the script from which is derived the writing of Greece.¹ In close connection with this failure on the part of the Indo-Europeans stands the absence of annals of their early history, a fact which leaves us in the most tantalising darkness as to the development of the nations. The example of Egypt which, first of nations, could boast the invention of a chronology indicates how little faith can be placed in oral tradition as to historical personages. The account of the early history of Egypt given by Herodotos and Manetho proves how folk-tales of all sorts became associated with the great names of the past, and, but for the happy discovery of original monuments, our knowledge of Egyptian history would be one mass of grave error. It is not surprising therefore that the ingenuity of many generations of scholars has failed to make anything satisfactory out of the legendary history of Greece: the objections which, in point of theory, could be adduced against the possibility of attaining definite results from tradition have been enforced and made insuperable by the discovery through the excavations in Crete of a civilisation of the existence of which no hint was contained in

1 Cf. A. J. Evans, *Scripta Minoa* (1909); H. R. Hall, *Aegean Archaeology* (1915)*

the tradition. In India the case is even worse than in Greece, where the epic is the oldest recorded literature: the legends, out of which scholars are now engaged in seeking to extract results which the nature of the case forbids us to attain, are recorded in works, the epics and the Puranas, of late and uncertain date. Happily these speculations are of minor importance in the case of India, as they have not affected in any degree the correct dating of the religious literature of the Vedic period. In the case of Iran, however, misplaced confidence in the Parsi tradition, which dates Zoroaster three hundred years before Alexander, has resulted in endless confusion and difficulty.¹

The defects of tradition are in some measure made good in the case of Greece by synchronisms with Egypt and by references in Egyptian monuments, and within the last few years evidence has accumulated bearing on the early history of the Indo-Iranians. Unfortunately this evidence is in the main of a kind peculiarly difficult to estimate precisely: it consists of the occurrence of names of deities and men in the records of non-Indo-European peoples, and it is obvious at once how great a difficulty there is in determining whether in the names cited we are to see renderings of Indo-Iranian names, or names of other origin. It is indisputable that, in being reproduced in a foreign speech, names may suffer considerable change, and with some ingenuity and a free use of the constructive imagination it is not difficult for any scholar to excogitate etymologies for such words which will make them fit in with his preconceived theories of the linguistic connections of the words. No more convincing proof of this fact can be adduced than the famous controversy over the language of the Scyths of Herodotos, as evidenced by the personal names and the names of deities given by him: they have been shown conclusively in the eyes of one set of scholars to be Iranian, while another school has found

1 Cf. E. Meyer, *Zeitschrift für vergleichende Sprachforschung*, xlii. 2; J. H. Moulton, *Early Zoroastrianism*, pages 18 ff.; A. B. Keith, *Journal of the Royal Asiatic Society*, 1915, pp. 798, 799.

explanations of them all from Finno-Ugrian, while yet others fall back on the theory of a mixed race.¹ To add to the difficulty it must be remembered that the languages in which these names occur are by no means very well known: the controversy over the character of Hittite is still unsolved, and perhaps likely to remain unsolved.²

The oldest evidence yet adduced is that derived from the names of Kassite princes and certain words preserved in a glossary giving the Babylonian equivalents of certain Kassite words.³ In two names of kings, Burna-burias and Nazi-bugas, have been seen as elements the Iranian *farna-* and *baga-*, but clearly without any cogency. More noteworthy is *Surias*, since it is explained as meaning the sun, and E. Meyer⁴ has yielded to the temptation to accept equation with the Vedic *Suryas*; but, apart from the odd fact that the termination of the nominative should be reproduced, it is clear that in the absence of any further evidence it is illegitimate to accept the proposed identification. Such confirmation would indeed be forthcoming if the views of Scheftelowitz regarding other Kassite words could be adopted, but even E. Meyer admits that this is out of the question. He, however, adduces in support of his acceptance of Aryan influence the fact that the horse appears freely in Babylonian records under the Kassite dynasty which from 1760 B. C. onwards controlled Babylon, and that its description as "the ass of the mountains" shows its origin. But this argument lacks all cogency, since it is certain that the horse was introduced into Babylon, if not under Hammurabi himself, at any rate under his son, probably not later than B. C. 2000.⁵ Nor of course

1 E. H. Minns, *Scythians and Greeks*, pp. 85, 86.

2 Cf. A. H. Sayce, *Journal of the Royal Asiatic Society*, 1914, pp. 965-72; 1916, pp. 253 ff.

3 Published by F. Dehtzsch, *Die Sprache der Kassaeer* (1884). See Scheftelowitz, *Zeitschrift für vergleichende Sprachforschung*, xxxviii, 270 ff., and M. Bloomfield, *American Journal of Philology*, xxv. 10 ff.

4 *Geschichte des Altertums*³, I, ii. 654.

5 A. Ungnad, *Orientalistische Literaturzeitung*, x. 367 f.

can the slightest value be placed on the view¹ that *white* slaves from Gutium and Subarti, who are mentioned! **under** the reign of the last king but one of the dynasty of Ham-nuitfabi; were Aryans, or on the wild guess² of Brunnhofair which finds a reference in the Rgveda to the capture of Babylon by the first Kassite king.

Much more substantial is the evidence which is to be derived from the records of the Mitani in Northern Mesopotamia, a people whose affinity to the Hittites and perhaps to the Kassites has been affirmed with a fair amount of plausibility: at any rate they were certainly not Indo-Europeans. But in a treaty with the Hittite king Subbilitiuma, concluded some time after 1380 B. C, Mattiwaza invokes the gods Mitra, Varuna, Indra and the Nasatya by names which are very slightly different from the Vedic.³ To this falls to be added the fact that Dusratta, the Mitani king, brother-in-law of Amenhotep III of Egypt (c. 1414-1379 B. C.), his brother Artasumara, his father Sutarna, and his grandfather Artatama, bear names which have an Iranian sound, and the eye of faith has even seen the Aryan type in the features of Teie, the wife of Amenhotep III, a princess of Mitani. More important is the suggestion of Winckler,⁴ that the name Harri used of the Mitani is really the Aryan name, a view which he supports by the fact that the Susan version of the inscriptions of Darius

1 J. Kennedy, *Journal of the Royal Asiatic Society*, 1909, pp. 1112-1113.

2 H. Brunnhofer, *Iran und Turan*, p. 221.

3 H. Winckler, *Mitteilungen der Deutschen Orientalischen Gesellschaft*, No. 35; *Orientalistische Literaturzeitung*, xiii. 296 ff. A. H. Sayce (*Journal of the Royal Asiatic Society*, 1909, pp. 1106, 1107) denies the Aryan character of the Mitani royal names. Artatama's name is often wrongly read as Artatama. Mattiwaza and Sa-us-sa-tar are declared Aryan by Meyer, but this is not certain. W. Max Müller (*Orientalistische Literaturzeitung*, xv. 252 ff.) finds Mitra in the name MitraSama of an Egyptian-Semitic stele in Palestine.

4 Followed by Meyer, *Geschichte des Altertums*,³ I. ii. 677. The suffix found in *Marianni* is comparable with that found in *NaSatiana* (= *Nasatyā*) in the list of gods. It may be Aryan; cf. E. Leumann, *Zur nordanschen Sprache und Literatur*, pp. 5 ff.

likewise aspires the name of the Aryan claimed by the king: he also finds in *marianni*, a word applied to the warriors of the Mitani, the Vedic *marya* 'the manly.' It is however impossible to accept the further suggestion that the Horites of *Genesis* are to be brought into this connection, if for no other reason than that their princes bear true Semitic names. On the other hand, as we might expect, there are other traces in the Amarna correspondence, which represents the period before and after 1400 B. C., of Aryan names among the princes in Syria such as Suwardata, Jasdata, Artamanya, Rusmanya, Arzawiya, Biridiya or Biridasya, Namyawaza, Teuwatti, Subandhi and Sutarana, most if not all of which have a fairly clear Aryan appearance.¹ Definitely Iranian in type are the names of princes of Kommagene recorded for us in 854 and about 740 B. C., Kundaspi and Kustaspi, doubtless Vindaspa and Vistaspa: from 838 B. C. onwards the Medes appear in conflict with Assyria, and as early as 745 B. C. the name Mazdaka is found, doubtless denoting a worshipper of Mazdah, whose name in the archaic form Assara Mazas is actually found in a record of Assurbanipal (B. C. 668-626).

What are the historical conclusions to be drawn from these facts? In the first place it is essential to note that we have no proof of the existence of any actual Aryan tribe in Northern Mesopotamia and Syria: the presence of princes of Aryan name in these petty states is not proof of migration on a great scale: we may rather think of restless adventurers and mercenaries of the type familiar in European no less than in Asiatic history. It follows, in the second place, from the sudden appearance of these names in history that we may properly assume the appearance of Aryans in these regions as a recent matter. The question, therefore, presents itself from what side the Aryans entered the country. The possibility that they came by sea may fairly be dismissed: in the reigns of Merenptah and Ramses III from 1229 B. C. onwards we have recorded raids and even settlements on the Syrian coast by foreign

1 E.Meyer, *Zeitschrift für vergleichende Sprachforschung*, xhi. 17-19.

adventurers and tribes as a result and sign of the great migration of peoples which took place in the thirteenth century, and it is possible, though not certain, that the Philistines were to some extent Aryan in blood.¹ But if this had been the case in the earlier period, we should doubtless have a record of it in the Amarna correspondence. Of the land routes, that through Asia Minor naturally suggests itself, and it might be regarded as plausible if we could accept the view of Kretschmer² which ascribes the second city of Troy to the Phrygians. But this view may fairly be dismissed as impossible: the history of Asia Minor is doubtless not perfectly known, but there is adequate evidence to show that the first important influx of Aryans was only caused by the migrations of peoples which produced the settlements on the coast of Syria, and that the first entrance of the Phrygians and cognate tribes into Western Asia Minor falls after B. c. 1400.³ A third possibility is that to which Hirt* has lent the weight of his authority: in his opinion the original home of the Indo-European people is to be found in Europe, perhaps more specifically in northern Germany, and the Indo-Iranians entered their future homes via the Caucasus. This hypothesis is however subject to a grave objection, which Hirt has not overcome in any degree. If his view were correct, we ought to find that Armenia shows early traces of Aryan population, but this is very far from being the case. On

1 They may, of course, have been pre-Hellenic Cretans or other Islanders. Crete itself, from the earliest times known to us, had both a dolichocephalic (Mediterranean) and a brachycephalic (Armenoid, akin to the Alpine race of Europe) population. To which of these belonged the names in *ss* and *nth* (*nd*) spread over Greece, Asia Minor, and the islands is not known. Cf. R. M. Burrows, *Discoveries in Crete*, pp. 165, 166. Most authors assume the existence of one race only, but without warrant.

2 *Einleitung in die Geschichte der griechischen Sprache*, pp. 180, 181, who relies on the untrustworthy argument of continuity of culture,

3 E. Meyer, *Geschichte des Altertums*³, I. li. 693.

4 *Die Indo-germanen*, i. 178 ff,

the contrary Armenia seems to have been distinguished by a remarkably vigorous non-Aryan population which produced the interesting kingdom of Van to contend not unsuccessfully for a couple of centuries with Assyria; and the entry of the Indo-European Armenians, who seem to have been closely connected with the Phrygians, falls no earlier than about B. C. 700. The Ossetes who have occasionally been regarded as the remnants of the Indo-Iranians coming from the west are now doubtless correctly held to have been Alani, later Iranian invaders from the east.¹ Nor is this objection to Hirt's view to be removed by any other considerations available. Even if we could prove early Babylonian influence on India we could not be certain that this fact would establish the view that the Indo-Iranians entered their future homes by the route south of the Caspian, as it is impossible to define the distance to which Babylonian culture could be carried. But in any case the proof of such influence is wholly inadequate. The solitary *mana* of the Rgveda has of course repeatedly been equated with the Babylonian *mina*, but no explanation has been offered of the fact that, if borrowed, this valuable unit was not retained: similarly *parasu*, axe, is compared with Sumerian *halag*, and Akkadian *pilakku*, and *loha* with the Sumerian *iirudu*, copper, in both cases wholly without cogency, since in both cases, even if we accept the identification,—a course open to grave doubt,—there is not the slightest evidence to show in which language the words are primitive, and it is perfectly possible that the borrowing, if any, may be from a third source altogether.² More serious perhaps is the famous argument of Oldenberg³ that the seven Adityas are strange gods in India, pointing to a borrowing from a people which worshipped the seven planets, and gave a moral fervour to their religion otherwise lacking in Indian religion. The theory must be re-

1 E. Meyer, *Geschichte des Altertums**, I. li. 890, 891.

2 Cf. S. Feist, *Kultur der Indo-gerrnanen*, pp. 71ff. *loha*; is not Rgvedid,

3 *Die Religion des Veda*, pp. 103 ff., *Zeitschrift der Deutschen Uorgetilndischen Gesellschaft*, 1. 43 ff.

jeoted. if for no other reason than that the worship of ^ke seven planets cannot be proved early enough for Babylon to render the view even possible.¹ For can we accept the derivation either of Assur from Asura² or of Asura from Assur.³ There is no identity of character in the two conceptions, and the similarity of name is far from CIOB. The Indo-Iranian Asura has an obvious derivation 'from *am*, and, while the name of Aesur is less certainly interpreted, 'it is important to note that its oldest form seems to have been Afiir, and in Palestine we have the place nanre Aser, and among the Amorites, the sacred post, the Asera, and 'the divinity which took up its abode therein.⁴ Nor do we need to fly to Babylon for an explanation of the 360 day year of Vedic India, or the sacredness of the number 7.^a

There remains therefore the obvious conclusion that the Aryans of Mitani and Syria penetrated these lands from the east, their progress being rendered possible by the confusion and disturbance caused by the Kassite overthrow of ^Babylonia. But, accepting this simple and satisfactory view, the question arises in what light we are to regard the gods of the king of Mitani, and the Aryan names. Are they early Indian, or early Iranian, or do they belong to the period before Indian and Iranian were differentiated? The view that the gods were Indian, brought by an East Iranian tribe, is adopted by Jacobi⁶ as the only solution of the non-Iranian form of the name Nasatia, coupled with the Arta- found in the names of the kings of Mitani. This view receives some support from J. Hope Moulton,⁷ who thinks a retrograde movement by tribes dissatisfied with India possible, and who strengthens his opinion by

1 E. Meyer, *Geschichte des Altertums**, I. ii. 593.

2 H. M. Chadwick in J. H. Moulton, *Early Zoroastrianism* p. 32.

3 F. W. Thomas, *four na I of the Royal Asiatic Society*, 1916, p. 364.

4 E. Meyer, *Geschichte des Altertums*³, 1, iii 608.

-5 'A. B. Keith, *Journal of the Royal Asiatic Society*, 1916, p/353

'6 *Journal of the Royal Asiatic Society* 1909, pp. 731 ffE

7 *Early Zoroastrianism*, pp. 25'ff

the acceptance of a suggestion that the data of the *Tistrya YaH* are best explained on the view that the observations recorded were made in India at some time between B. C. 1800 and 900. This argument must be deemed wholly invalid, and the main suggestion must be regarded as distinctly improbable. The view of Oldenberg¹ that we have to deal with proto-Iranian deities is thus in itself the natural one, and it certainly gains plausibility from the fact that Indra and the Nasatyas are known as demons, Indra and Naonhathya, in Iran, while the omission of Agni who is clearly a specifically Indian development of the worship of fire tells in the same direction.

E. Meyer² on the other hand lays considerable stress on the fact that the gods are Aryan, not Iranian, and he finds in them a vivid presentation of the reality of the Aryan period which can be reconstructed from the agreement of Indian and Iranian, but of which the first direct proof is afforded by these names. He has been accused of inconsistency in this regard by Jacobi, and it is clear that his expressions of opinion on this topic have not been altogether happily worded. But the real meaning of his view is clear: he holds indeed that the period when the Aryans as an undivided people in the strict sense were living together in a country where Soma grew, probably Bactria and the western Hindu Kush, did not last so late as 1400 B. C, and he accepts the view that the Indians must have invaded India not later than B. C. 1500. But the spread of the people over Iran and India did not at first and in itself cause complete severance: this was a gradual development, doubtless beginning in the period of the united people and gradually increasing until in Iran the divergence was brought to its full development by Zoroaster. For the old suggestion, which saw in the division of the Aryans into Indians and Iranians the result of a

1 *Journal of the Royal Asiatic Society*, 1909, pp. 1095 ff.

2 *Sitzungsberichte der Königl. Preussischen Akademie der Wissenschaften zu Berlin*, 1908, pp. 14-18 ; *Zeitschrift für vergleichende Sprachforschung*, xlii 24-27, *Geschichte des Altertums*,³ I. ii. 900.

12 [Bhandarkar Coin. Vol.]

definite religious split due to the activity of Zoroaster, we must substitute the conception of a difference of religious outlook, commencing in the period of united life, and intensifying with the separation of the elements of the people in space. The gods of Mitani are therefore best described as Aryan gods, and the language as an Aryan dialect, differing as it does both from Iranian and Vedic as known to us: unlike the former it keeps *s* between vowels in Nasatia, while unlike the latter it has Arta- not Rta-, though in this case the argument is difficult to press, for in Mitani script it was impossible to reproduce Rta correctly: Suwardata seems clearly equivalent to the Vedic form *suvar-datta*, though that name is not found in Vedic texts. Similarly the name Assara Mazas, which we must assume to have been borrowed at a much earlier date than that of its appearance, can be explained easily as Aryan: it is doubtless not a very perfect phonetic representation of the original, but the *s* is retained while the *z* is clearly Aryan, the speech whence it was taken being therefore older than either Iranian or Vedic. We need not of course postulate that the precise dialect whence these names come was the parent of Iranian and Vedic: it presumably was a dialect of Western Aryan origin.

' The value of this result lies in the main in the fact that it enables us to view in a new light the long continued controversy over the place of origin of the Indo-Europeans. The evidence indicates that the entry of Aryans into Iran took place from the north-east, and that it conformed therefore to the general trend of the movements of the Iranian tribes throughout history. It still remains open of course to hold that in the first place the Indo-Iranians came from Europe, and Moulton¹ has deduced from the similarities of German and Sanskrit in certain respects, such as the treatment of the aspirate media, that we have to recognise first a migration from Europe of the primitive Iranian people, and then the migration at a very rapid rate of a Germanic tribe which imposed its language on

this population and passed on into India, leaving the Iranian population gradually to absorb those members who stayed in Iran. This argument however is untenable: all the Indo-European languages have certain special points in which they agree with one or another of the group, and to deduce racial mixture and migration from these facts is quite impossible.

Moreover the hypothesis of an Asiatic origin of the Indo-Europeans has derived a good deal of additional plausibility from the discovery of Tocharian. It is indeed necessary not to overrate the importance of this evidence as Feist* is inclined to do. When we remember the wanderings of the Gauls it is quite unscientific to assert that the Tocharian speech could not represent a migration from Europe into Asia. But a priori it is not so probable as the movement from east to west, and while the claim of South Russia to serve as the original Indo-European home is discounted by the fact that it is essentially a place of passage and not a permanent abode, the alternative claim of Germany must be held to be shattered by the fact that at the hands of the Germans the Indo-European speech has suffered such striking alteration in its sounds, an occurrence which is most easily explained by the hypothesis that in Germany this speech was imposed by a small minority on a pre-existing population. The fact that Tocharian in its treatment of the gutturals, and to some extent in its retention of the vowels *e* and *o* beside *a* ranks with the *centum* speeches of Europe makes it reasonable to suppose that the Indo-European home lay in the plateau of central Asia, the source of the later Mongolian invaders of the west. The Tocharian speech may represent the language of the portion of the people who remained there after the *centum* speakers, and part of the *satem* speakers, had migrated west by a route north of the Aral and the Caspian, and the Aryans had moved south-west, while their nomads, the Scoloti and other Scythian tribes wandered on the steppes through which the earlier migrants

had moved. This is a conjecture of E. Meyer's¹ and **whiU** neither it, nor the suggestion that the Tripolje culture of South Russia⁸ marks, in the period about 2500-2000 B.C., the march of Indo-European tribes westwards, can lay claim to more than plausibility, it is one which could effectively be used to solve many problems of linguistic history. Moreover this explanation accounts well for the close similarity between the accounts of the early Indo-Europeans and especially the nomadic tribes and those of the Mongols: as regards manner of life, religion and funeral customs similarity of circumstance would produce similarity of result.³

It is not of course to be assumed that the Indo-Europeans entered empty lands: the strong differentiation of the Indo-European speeches, and the character of the peoples are a priori proofs to the contrary, which are strengthened by anthropological and historical evidence. It is not impossible that we find in Tocharian a relic of a speech which has been overwhelmed by Indo-European. It shows a comitative suffix *assal*, which most curiously must be identified with the *assil* added in the Mitani record to the names of Mitra and Varuna, no doubt to indicate them as a pair.⁴ Whatever the explanation may be, it must in any event be remembered that the period of Indo-European unity need not be placed earlier than 3000 B. O. and that this is a comparatively late date in the history of man on this earth.

1 *Geschichte des Altertums*,* I ii. 890 ff.

2 Described by E. W. Minns, *Scythians and Greeks*, pp. 133 ff.

3 The evidence is well given by E. W. Minns, *Scythians and Greeks* pp. 85 ff., but he, writing in the main before the Tocharian evidence was known to him, is inclined unduly to accept the parallelism as proof of Mongolian elements in the Scyths of Herodotos. This need not in itself be doubted, but the weight of the evidence is misconceived. Similarly the tracing of certain features in early Buddhism to Mongolian sources rests on a false ignoring of the fact that the culture of nomads is practically identical whatever the race

4 The conjecture of Hall (*Journal of Hellenic Studies*, xxix. 21) that **the** suffix denoted the plural of each word is clearly an error,

THE LAND OF SEVEN RIVERS

BY N. G. SARDESAI

THE word *Saptasindhu* has been generally used in the Rgveda in the sense of seven rivers. Thus Rv. i. 32,12 extols Indra for having let the seven rivers flow (*dvasrjas sdr̥tave saptd̥ sindhun*); in i. 35. 8 the light of the sun is said to have illumined the eight quarters, the three desert regions, and the seven rivers (*astau vyakhyat kaM̐bhab pr̥thivyas tri dh̥dnva yd̐jaria saptd̥ sindhun*); and in i. 71.1 all offerings are said to wait upon Agni "as the seven mighty rivers seek the ocean" (*samudrdih nd̐ srav̐d̐tas saptd̥ yahvih*). It is usual to suppose that the seven rivers meant are the five rivers of the Panjab (Vitasta, Asikni, Parusni, Vipas and Sutudri) together with the Indus and the Sarasvati, the river Kubha in some enumerations taking the place of the last-named. If it is only a question of somehow making up a given number, we shall have no reason to quarrel with either of these enumerations or even suggest a third made up of the Ganges, the Jumna and the five rivers that give the Panjab its name. But there is another passage in the Rgveda¹ where *Sapta-sindhu* is the designation of a land or country² watered by seven rivers. The passage (viii, 24. 27) reads thus-¹

Translation: Who would free [us] from ruinous woe or from the Arya [enemy] in the Seven Rivers; thou O valiant hero, bend the Dasa's weapon [down].

Scholars have been for the most part content to regard the Panjab as the modern equivalent of the ancient *Sapta-sindhu*, but the difficulties in the way of this identification

1 Cp. also Atharva Veda iv. 6. 2, though the passage is not decisive.

2 In the Avesta *Hapta-hindu* is the regular name of a country once inhabited by the Aryans; compare Vendidad i, 19,

are quite on the surface. The Panjab¹ (*Paflc+ap*) derives its name from only five rivers and they do not all flow into the sea, as Rv. i. 71. 1 requires it. And to bring in distant or imaginary rivers to complete the number is a questionable process which does not explain why no trace of the ancient name of the country survives in its modern* equivalent; for, established names are tough things and die very hard. To obviate this difficulty, some scholars² have imagined the seven rivers to be atmospheria streams; but even so it would not be unreasonable to enquire after their terrestrial analogues; for, things celestial always have their analogues on earth. Further if the Rgveda—though not in its present form at least in its ideas and back-ground—is to be regarded as an Indo-Germanic product, would it be right to confine all the Vedic literary and religious activity to the Panjab and the country adjoining? Would it not be nearer the mark to look up for the 'land of the seven rivers' somewhere in the central Asian plateau which, if not the cradle of the Aryan race, was at least, we might presume, a place of long sojourn in the course of the Aryan migrations from their Arctic home?

Curiously enough there is in central Asia, in Russian Turkestan, North of the Ala Tau Range, East of the Lower Illi River, and West of the Lepsa river, a country³ which is even now called 'the land of the seven streams', this being the literal meaning of its current Russian name 'Semiretchenski-krai'. Lake Balkash forms a part of its Northern boundary and the seven rivers—Lepsa, Baskan, Aksu, Sarkau, Biyen, Kartal, and Koku— which give the country its name do all flow into this Lake: at least for a part of the year; for when not in floods the minor rivers

1 The name is unknown to the Rgveda. Its earliest mention is in the VSjaneeyi Samhita xxxiv. 2, where we are told—

Compare also Atharva Veda VI. 98. 3.

2 For example, B. G. Tilak in the *Arctic Home*, p. 288ff,

3 See annexed map,

SEMIRETCHENSKI-KRAI
OR
LAND OF THE SEVEN RIVERS



To face page 94]

[Bhandarkar Com. Vol.

loose themselves in the sands. Traces of an ancient Aryan colonization of the land are still discernable there- The Aryan Tajik, the aborigines of the fertile parts of Turkestan and now known as Galchas, constitute in fact the intellectual element of the country and are the principal owners of the irrigated land. The country,¹ we must remember, is and has always been a theatre of a series of violent earthquakes, and in the course of centuries topographic changes small and great are almost inevitable. The sand storms which, as geologists tell us,² affected the stretch of country from Arabia to Mongolia must have produced certain other alterations in the physical features³ of the land; but the main feature which gave the country its name, and the name itself, have survived, and if an expedition such as that of Sir Aurel Stein is sent to explore the land much new light might be forthcoming. Above all it would be necessary to find out if the names of these seven rivers, in the native pronunciations⁴ of them, afford any basis for fruitful philological deductions.

If the suggestion as to a possible location for the Land of Seven Rivers that I have thrown out is at all found worthy of a serious consideration it would follow that when, in the course of their migrations, the Aryan people came and settled in the Panjab they found the country, in its physical features and especially the river system, so much like their original Sapta-sindhu that it is likely that they might have transferred many of their original geographical names to this new land of their adoption, very much like what the English colonists did when they,

1 For fuller description see *Asia*, vol. I, pp. 130 ff., by A. H. Keane; Edward Stanford, London. 1916.

2 *Modern Science in Modern Life*, vol. i. pp. 161 ff., Greshman Publishing Co., London, 1910.

3 Cg. the 'desert regions' or 'dry promontories' mentioned above in Rv. I. 35. 8.

4 That foreigners absolutely maltreat the native names was never brought home to the writer of this paper so vividly as when he discovered that what is written in the maps as *Soeka Boemi* and pronounced by the ordinary rules of orthography was really, in the native Javanese pronunciation, *Sukha-bhumu*

a couple of centuries ago, occupied and colonised America or Australia. This probably led to a gradual effacement of all the memory of their original home; so that later Brhmanic and Pauranic texts, and even Avestic texts for the matter of that, when they speak of the Sapta-sindhu or the Land of Seven Rivers, always mean by it India, or more correctly, the Panjab and the Gangatio Basin.

Epics and Puranas

TATO JAYAM UDIRAYET

PAR M. SYLVAIN LEVI

CHACUN des livres du Mahabharata debute par une benediction liminaire uniforme :

Narayanañi namaskrtya Narain caiva narottamam

Devīn Sarasvatīm caiva tato jayam udirayet.

La meme formule reparait vers la fin du dernier chant (XVIII. 232) dans une sorte d'appendice qui traite de la recitation du Mahabharata. Cette benediction d'aspect assez banal ne parait pas avoir attire l'attention¹; on la lit et on la traduit sans s'y arreter. L'interpretation communement adraise a ete suivie avec docilite par la traduction de P. C. Boy: *Having bowed down, to Narayana, and Nara the most exalted male being, and also to the goddess Sarasvati, must the word success be uttered* (les legeres variantes de style qu'on releve d'un chant a l'autre dans la traduction anglaise de cette formule n'en affectent pas le sens). Le commentateur Nilakantha signale pourtant la possibilite d'une autre interpretation pour le dernier pada : *tato vyaptas tayaiva Sarasvatya parama-karunikaya janabodhayavisto jayam ' Jayo nametihaso'yam' iti vaksyamanatvaj Jaya-saihjiiam Bharatakhyam itihasaṃ va*

Astadasa purāṇāni Eamasya caritam tatha

Karsnam vedam pañcamam ca yan Mahabharatam viduh

Tathaiva Visnudharmas ca Sivadharmas ca suivatāhi,

Jayeti nama tesam ca pravādanti manisinah

iti Bhavisyavacanāt purāṇadikam va

Cāturnam puruṣārthanam api hetau jayo'striyam

iti kosad anyam va puruṣārtha-pratipadakam grāṇthāin liari-rakasutrabhasyādirupam udirayet uccarayet.

En commentateur honnête, Nilakantha essaie de donner une valeur positive au mot *tatah*, que P. C. Roy negligé,

1 Biihler en a toutefois reconnu et signale la valeur religieuse: *It is a characteristic mark of the works of the ancient BhSgavata sect, where it is invariably found, frequently with the variant devīm Sarasvatorh Vyasarh instead of vaiva* (Indian Studies, no. I I, p. 4, n, 2).

et qu'on rend ordinairement par " ensuite, apres cela (- apres ce triple namask&ra)." Il rattache par un lien iromSdiat eet adverb au nom de SarasvatI qui le precede, et il explique: " sous l'influence de cette divinite qui est toute compassiⁿ." Quant au mot *jaya*, au lieu de lui attribuer ici son sens usuel de " victoire" il le considere comme une designation du Mahabharata lui-meme, et il cite *k* l'appui le texte expres du poeme qui declare par deux fois: " ce recit a nom Jaya" I. 2302, XVIII. 194 (la mSme designation est appliquee *k* un episode de l'epopee, le Vidulaputranu-6asana V. 4639). Il cite Tautorite du Bhavisyapurana qui applique le nom de Jay a non-seulement au Mahabharata mais encore aux dix-huit Puranas, au Ramayana, aux Visnudharmas et aux Sivadharmas. Il va meme jusqu'fc proposer d'etendre cette designation a l'oeuvre philosophique de Vyasa, le Sarlrakasiitra, et subsidiairement au commentaire (de Sahkara etc.) sur la foi d'un lexique qui dSfinit ainsi le *mot jay a*: "tout ce qui cause les quatre fins humaines."

On peut taxer ici Nilakantha d'un exces de subtilitS; on peut lui reprocher d'attribuer au mot *jaya* un sens purement scolastique, ou meme imaginaire, que rien ne justifie dans l'usage reel de la litterature et de la langue. C'est pourtant par un sentiment profond des realit6s de la langue qu'il a et6 conduit presque instinctivement a ecarter le sens adopte plus tard par P. C. Roy et les Occidentaux. Je ne crois pas qu'on puisse trouver en Sanscrit un exemple authentique du verbe *udirayati* construit directement avec le mot qu'il s'agit d'exprimer. Je n'ai pas besoin de rappeler que *ud-irayati* signifie au sens propre " produire la mise en branle, faire monter en Pair, decoher, lancer," et de la, au sens figure, "pousser, emettre (un son)." Mais, dans ce dernier cas, le verbe est toujours suivi d'un mot qui precise Tidee de son: *na tUfn (vacam) udirayet*, Manu ii. 116; *vacam udirayan*, Ramayana ii. 57. 3; *udirayamasuh....alokasabdham*, Raghu ii. 9; *mantram udirayan*. Yfijnavalkya i. 136. On ne dira pas plus en Sanscrit *jayam. udirayet* qu'en francais " pousser la victoire " pour exprimer l'idee de " pousser un cri de victoire,"

Mais avant d'adopter le sens indique, assurément contourne, qui est proposé par Nilakantha, il convient d'examiner si le texte ne peut pas fournir un sens plus simple et plus vraisemblable. Directement sans aucune prévention, on traduirait: "En adorant Narayana, et Nara le meilleur des males, et aussi la deesse Sarasvatī, qu'on fasse de la saillir la victoire." N'oublions pas que le couple Nara-Narayana est identique au couple Arjuna-Kṛṣṇa; Tidee est proclamée à maintes reprises dans le Mahabharata, p. ex. I. 218, 7889; 224, 8161; 228, 8302; III. 47, 1888; V. 96, 3496; 111, 3824; VII. 11, 422 ; 77, 2707 ; etc. Cette équivalence reconnue évoque aussitôt, en parallèle avec la bénédiction liminaire, une autre formule qui traverse tout le poème, qui en exprime toute l'inspiration, et qui subsiste encore dans la conscience de l'Inde comme la leçon la plus haute du Mahabharata : *yatah Kṛṣṇas tato jayah*, I. 205, 7513 ; IV. 68, 2531; VI. 21, 771 ; 23, 821; IX. 62, 3491 ; XIII. 168, 7746: "unde Kṛṣṇa, inde victoria." Dans plusieurs cas, la formule est complétée par une formule analogue, *yato dharmas tatah Kṛṣṇo*.....VI. 23, 821 ; IX. 62, 3491; les deux se combinent à leur tour en série continue, *yatah Kṛṣṇas tato dharmo yato dharmas tato jayah* XIII. 168, 7746—"unde Kṛṣṇa, inde jus; unde jus, inde victoria;" d'où résulte enfin la formule *yato dharmas tato jayah* VI. 65, 2695. Sous cette forme, la maxime semble proclamer une leçon de morale absolue: Le droit donne la victoire. Mais c'est fausser le Mahabharata dans son principe même que de l'interpréter ainsi. Sans doute le Mahabharata est une épopée didactique et moralisante; mais l'épopée et la morale y portent la puissante empreinte de l'organisation sociale et religieuse de l'Inde; elle est, comme toutes les créations du génie hindou, une œuvre de caste et de secte. Elle est bien le cinquième Veda, comme elle s'appelle et comme on l'appelle, parce que les quatre Vedas des brahmanes enseignent la vie sainte, ou plutôt la vie sacrée, et qu'elle enseigne avec une égale autorité la vie guerrière aux ksatriyas. Elle est bien aussi le Kṛṣṇa Veda, " le Veda de Kṛṣṇa " puisqu'elle prêche aux ksatriyas, comme une garantie de succès et de salut, le culte de Kṛṣṇa. Le succès

pour le ksatriya, c'est la victoire, *jnya*; le salut pour le ksatriya, c'est le dieu des ksatriyas, Krsna. " Ou est Krsna, la est la victoire "; car, " si on a Krsna, on a tout "—*yatah KRSNAS tatas sarve*; " Ou est Krsna, la est la regie (dharma)," la regie propre des ksatriyas, celle qui leur prescrit de combattre et de vaincre ou mourir, celle qui leur assigne pour fonction de manier le baton du commandement, *danda*, le baton qui frappe le mechant et qui impose le respect des lois. Le Mahabharata dans son ensemble est l'illustration et le developpement de ces principes; ils convergent et s'illuminent dans la Bhagavadgita; cet incomparable dialogue, souvent considere comme un hors-d'oeuvre sublime, est tout au contraire le coeur et le noyau de l'ouvrage. Les deux inseparables, en qui s'incarnent Nara et Narayana, divinites tutelaires de l'oeuvre, Krsna et Arjuna, se recueillent, face a face, a l'heure des decisions supremes; le parfait chevalier interroge le Bienheureux, Bhagavat, maitre parfait de chevalerie; il apprend a suivre sans hesitation sa loi propre dans l'ensemble de la loi universelle; il doit verser sans scrupule le sang, et de ses proches meme, si le triomphe du bien l'exige. Les speculations metaphysiques des brahmanes, concues par repugnance a l'action, s'harmonisent pour le ksatriya avec la necessite d'agir. Arjuna, le parfait chevalier, est aussi le parfait devot; libre d'opter entre l'alliance effective des divinites et la simple assistance de Krsna comme cocher de char, il choisit Krsna comme la promesse infaillible du succes. Les critiques de l'Occident, habitues a considerer le Mahabharata comme un traite de morale absolue, ont ete souvent choques de certains actes commis par les Pandavas et qui s'accordent mal avec l'ideal de l'honneur chevaleresque: Yudhisthira emploie un subterfuge pour se debarrasser de Drona; Bhimasena porte a Duryodhana un coup de loyal. L'auteur de l'epopee n'hesite pas a reporter sur Krsna lui-meme la responsabilite de ces actes (VII. 190, 8748; IX. 58, 3246); sa sagesse transcendante connait et utilise les transactions necessaires de la vie pratique. La fin justifie les moyens, quand la fin est la victoire du droit.

pn n'hesitera donc pas, il me semble, a traduire ainsi

la benSdiation liminaire: " En adorant Narayana, et Nara le meilleur des males, et aussi la deesse Sarasvati, qu'on fasse venir d'eux la victoire !"

Si Interpretation que je propose est exaete, les combinaisons laborieuses echafaudees autour du Mahabharata tombent. On est alle jusqu'a presenter le Mahabharata comme le retournement artificiel d'un poeme anterieur qui aurait eu pour heros Duryodhana et ses freres. Il est a la fois plus simple et plus honnete de prendre le poeme, tel qu'il est, pour essayer d'en concevoir la genese. Que l'Inde ait eu des rhapsodes ou des jongleurs qui colportaient des recitations epiques, rien de surprenant; la vie feodale devait aboutir a Teclosion du genre sur le sol indien. Juches dans leurs chateaux-forts, les rajas d'autrefois, comme les Rajpouts modernes, assaient a s'en delasser entre deux expeditions au recit des exploits legendaires; ils guettaient avec une curiosite impatiente le barde vagabond qui connaissait les preux d'autrefois. Mais Tepopee n'est pas une simple collection de chants epiques enfiles bout a bout; c'est une composition savante organisee avec art autour d'une donnee centrale, inspiree par un sentiment dominant qui la penetre et la traverse. Dans l'Occident, ou T unite du groupe s'affirme dans le sentiment national, c'est Tame de la nation qui inspire le poete. L'Illiade, TE'neide, glorifient la Grece et Rome; la Pucelle de Chapelain comme la Henriade de Voltaire pretendaient glorifier la France. La foi religieuse est aussi un des liens les plus forts de la collectivite; Tepopee peut lui emprunter aussi son inspiration: la Jerusalem Delivree, le Paradis Perdu, la Messiade sont ecrites a la gloire du ohristianisme. L'Inde n'a jamais su degager sa conscience nationale; elle n'a reconnu son unite que dans son organisation sociale et dans son pantheon, Le Mahabharata decoule de cette double source: il glorifie la caste des ksatriyas et le role ideal qui lui est assigne dans l'ensemble de la Societe hindoue; il enseigne aussi aux ksatriyas la gloire du dieu qui leur garantit le succes et le salut. L'adoration a Krsna, qui a accompli tant de miracles dans la litterature de l'Inde au cours des siecles meritait de donner a la Societe brahmani-

que son epopée; l'Inde des brahmanes y a concentré tout ce qu'elle recelait de grâce, de tendresse, de douceur, d'humanité. Le charme exquis de cette figure héroïque et galante pouvait seul faire échec au Bouddha. L'un incarnait l'idéal d'une communauté mélancolique, saturée des douleurs de la vie, sans autre consolation que l'espoir du néant. L'autre devait attirer à lui les âmes éprises d'action, d'aventures, de grands coups, de fêtes galantes. Tous deux également accueillants acceptent les prosélytes de l'Inde et du dehors. Ménandre, le roi philosophe, incline au bouddhisme; mais vers le même temps un autre Grec, Héliodore, de Taxila, ambassadeur du roi Antalcidas auprès d'un prince indien, se réclame du dieu des ksatriyas, et dresse un pilier à Garuda en l'honneur de Vasudeva, dieu des dieux. Quand les Kusanas constituent un empire scythique dans l'Hindoustan, un des successeurs de Kaniska s'attribue aussi le nom de Vasudeva. Dans l'excessive pénurie des documents historiques, ces menus indices, joints aux témoignages indigènes (inscr. de Ghosundi, de Nanaghat)* laissent entrevoir l'active propagande des Bhagavatas en concurrence avec les Bouddhistes.

Pour le procédé de composition aussi, l'épopée de Bhīṣma semble entrer de propos délibéré en concurrence avec le bouddhisme. Le Mahabharata s'enorgueillit d'être une "cent-milliade" (*sahasasrī*), autrement dit, une œuvre gigantesque qui dépasse la mesure ordinaire des ouvrages humains (*iti Śrī Mahabharata-sahasasrīyam Samhitayam Vaiyasakyaṃ parvā adhyāyaḥ*). La désignation était consacrée dans l'usage dès le V^e siècle; inscription de Sarvanatha, trouvée à Ehoḥ et datée de 214 (ère de Cēdi?), cite expressément le Mahabharata comme "la collection de cent-mille" (*uktarh ca Mahabharate sataśahasrīyam Samhitayam, ...*). Mais cette désignation rappelle inévitablement ceux des ouvrages fondamentaux de la littérature bouddhique, la "cent-milliade" *Satasahasrika*, comme on l'appelle par excellence, ou pour l'énoncer par son titre complet, la Perfection de la Sagesse en cent-mille [lignes], *Satasahasrika Prajñāpāramitā*. Pour passer dans l'usage courant, l'œuvre a dû subir des réductions

amcoessives, en vingt-cinq mille, en huit mille (astasahasrika; c'est la forme classique du traité), en sept cents, en cinq cents lignes. La Satasahasrika s'y prétait d'ailleurs sans difficulté; il suffisait d'élaguer les tautologies, les homonymes, les redondances, les répétitions qui Tenflent et la grossissent; il est évident que l'auteur s'est proposé d'atteindre à tout prix les dimensions démesurées qu'il s'était assignées. Dans son effort continu vers le beau, l'Inde a manifestement passé par la stage intermédiaire du colossal; avant de goûter et de réaliser la beauté dans l'équilibre harmonieux des lignes, l'esprit humain se laisse d'abord éblouir par le prestige de la masse. Dans la littérature profane, la Brhatkatha présentait un cas analogue; Gunadhya, le Vyasa des contes, s'était piqué d'écrire une "Grande Histoire"; mais son œuvre n'avait pas pour sa sauvegarde, comme la Satasahasri de Vyasa et comme la Satasahasrika bouddhique, le zèle pieux des copistes; il n'a survécu que dans des adaptations réduites: Ksemendra en a tiré un bouquet (Manjarī); Budhasvamin en a versifié Tabrege (Slokasamgraha); Somadeva se donne formellement pour un abrégiateur (*mthgraliyam racayamy aham*).

Mais c'est au bouddhisme encore qu'il faut revenir pour trouver le parallèle le plus frappant du Mahabharata. L'école des Mula-Sarvastivādins qui employait le Sanscrit comme langue sacrée et qui se faisait gloire d'une forte culture littéraire, s'est donné un Vinaya immense, double au moins en étendue du Vinaya des Sarvastivādins qui lui-même surpasse d'autant les Vinayas des autres écoles: Sthavira (Pali), Dharmagupta, Mahāsāśaka, Mahāsārhghika. Son Vinaya est plus grand que la Satasahasrika même; la traduction tibétaine occupe treize volumes dans le Kanjour, tandis que la Satasahasrika n'en fait que douze. Autour de brèves et sèches prescriptions de la discipline monastique, le rédacteur a accumulé les récits, les contes, les jatakas, les Episodes, sans compter une véritable biographie du Bouddha, une sorte de Buddhavamsa, qui peut faire pendant au Harivarhṣa, complément organique du Mahabharata. Avec toutes ses surcharges, tous ses Episodes, avec sa masse touffue et luxuriante, le Maha-

bharata porte a sa base sur un Vinaya, le code de la discipline ksatriya a l'usage des Bhagavatas,

ANCIENT INDIAN GENEALOGIES-AM THEY TRUSTWORTHY?

BY F. E. PARGITER

GENEALOGIES of the royal dynasties of ancient India are to be found in the Epics and Puranas, and profess to give the names of the kings who reigned in various kingdoms in Northern, Eastern and Western India. They do not pretend to mention every king, but only those who left some memory behind them.

Those dynasties are assigned to two great stocks, one the Solar race that claimed descent from Manu, who was said to be son of Vivasvant (the Sun), and the other the Aila or Lunar race which claimed descent from Soma (the Moon). The Solar race held three kingdoms, those of Ayodhya, Videha and Vaisali, but the line of Ayodhya being the greatest was known specially as the Solar race. The Lunar race began with Pururavas Aila and soon branched out into the five tribes of the Pauravas, Yadavas, Anavas, Druhyus and Turvasus. The Pauravas established themselves in all the middle region of North India, the Yadavas in Western India and the north-west portion of the Dekkhan, the Anavas in the Panjab and in the Eastern region, and the Druhyus in the extreme North-west of India with offshoots that spread out into the countries beyond. They all belonged to the Lunar race, but this title was appropriated to the Paurava line and especially to its main branch which reigned at Hastinapura. All those dynasties go back to very early times, and are dealt with in the genealogies. The question naturally arises whether the genealogies are worthy of credence.

They are plainly open to the objection that the long lists of kings are rather shadowy, and that their earliest portions are mythical and enveloped in fable. Such of course they must be, because genuine traditions of the earliest times can hardly be anything better, since there were no means in India of making permanent records contemporaneously ; and because such traditions cannot escape

the natural tendency in men to make mistakes, to magnify the past and to distort ancient stories into fables. But to acknowledge these limitations is not the same thing as to declare that those traditional genealogies are unworthy of any trust whatever.

It was the vogue half a century ago to treat the earliest traditions as mere fables and explain them away by theories or presumptions. In all ages the world has had its full share of vigorous life and martial exploits; large tribal movements occurred in early times and wars of conquest, as well as peaceful periods that ministered to national welfare. Great men lived and performed great deeds in those times. There was ample material for true songs and ballads in their honour, and it was but natural that such songs should have been composed and handed down. It has now been found that the old accounts in other countries which were discredited half a century ago were based on genuine tradition, because excavations and discoveries have gone far to rehabilitate the general trustworthiness of those accounts. Men in ancient times knew the difference between truth and falsehood as well as we do, for truth was praised and falsehood condemned as far back as literature can testify. It is absurd to suppose then, that men in old times discarded the truth and carefully handed on what was spurious. In fact, the position has been reversed now, as compared with that of fifty years ago. It is no longer correct to declare that the person who seeks information from ancient tradition should first prove that it is worthy of attention, for now the duty rather lies on the person, who pronounces a tradition to be worthless, to give reasons for his assertion.

Civilization in India is very ancient and many kingdoms existed in very early times. Where kingdoms and a degree of civilization flourished, tradition could and naturally would remember the names of the kings, because a large part of knowledge in ancient times consisted of historical tradition, without the multitudinous subjects with which we are overburdened. It is not credible then that the memory of distinguished kings of earlier times should

be wholly lost in their own nation, and the presumption is that ancient tradition about kings is *prima facie* deserving of attention. Accordingly the ancient Indian genealogies are presumably genuine tradition in their main outlines, while of course judgment may be reserved on various particulars, knowing how human testimony is liable to develop mistakes in details in the course of time.

There is however a further objection whether the genealogies, supposing they were genuine, may not have been tampered with or at least corrupted so as to vitiate their value, as we have them now. Certainly spurious genealogies, both royal and private, have been fabricated in past times; but before any one would think of fabricating a false thing the real and true thing must have existed, and the real thing must have had such a value that there was a strong incentive to make and put forward a spurious thing as genuine. False genealogies presuppose and imitate genuine genealogies. It is incredible that any one would construct a false genealogy before real genealogies existed. Real genealogies must have existed from the earliest times, because, as soon as any chieftainship or kingship was established in any tribe or people, a real genealogy of the chiefs or kings who succeeded must in the nature of things have come into existence. Chieftainships began as soon as tribes developed any kind of collective existence, and as they generally tended to become hereditary, genealogies of the ruling families must have been coeval with the origin of civilization. The fact that the original founder is often wrapped in fable, such as that he was the offspring of the sun or moon or some super-human being, does not militate against this conclusion, because such fables merely touch the origin of the family: the succession of chiefs or kings, when such rule was once established, was real, that is, there would be a real genealogy.

Real genealogies then must have existed from the earliest stage of civilization, before fictitious genealogies could have been thought of, and long before falsehood could have been attempted successfully. The occasions

when spurious lineages are generally constructed are the rise of new chiefs or kings, because their families and dignity need to be enhanced by devising connexions with earlier and greater dynasties. It is the *novus homo* who requires a spurious genealogy. Instances of spurious genealogies have been detected in medieval and modern India, and false descents have been alleged in some of the smaller ancient genealogies in some of the Puranas; but these are clearly later productions.

Real genealogies moreover would have been carefully preserved by the kings and their priests and bards, because ancient lineage has always been a source of pride, and ancestral fame always a theme for poetic laudation. Bards and ballad-makers have always existed, who not only ministered to the pride of kings but also gratified popular interest by reciting old ballads and traditional tales; and such recitals are alluded to in Sanskrit books. In such dynasties there would have been no occasion for making false genealogies while the dynasty lasted, and little or no motive for falsification after it had passed away.

Mistakes, omissions and corruptions might and no doubt did creep into the genealogies during the lapse of time, and it may even be conceded that attempts may have been made to remove unpleasant facts from them. These may be cited as instances. The Kanyakubja dynasty which culminated in Visvamitra, and the Kasi dynasty have been wrongly alleged in some of the Puranas to have been descended from the successors of Bharata the great and pious monarch of the Paurava race; and the genealogy of the Ayodhya line given by the Ramayana is incorrect both in respect of its arrangement of the kings and also by its omissions. The errors in the Ramayana appear to have been due to the lack of the historical sense among ancient brahmins, for it is mainly brahmanical; but the wrong descent of the Kanyakubja and Kasi lineages is hardly explicable except on the supposition that there was some tampering. Still, whatever the causes were, those errors failed to establish themselves, because the majority of the authorities have preserved different accounts which appear

on examination to be more trustworthy. There appears to have been a sufficiently strong body of traditional knowledge in North India to prevent false particulars from being successfully introduced to any serious extent. There were bards, not only in the royal courts, but also elsewhere. An error might have prevailed in one place but could hardly have gained acceptance everywhere among all the bards; and the errors cited above illustrate this. The wrong derivation of the Kanyakubja dynasty from Bharata's successors had some attraction, because several brahman families did originate from them, and Visvamitra's brahmanhood would have appeared less revolutionary if he also had that descent; yet the majority of the genealogists have ignored it, and even two of the books which give the wrong version give also the true version. The Ramayana has been probably the most famous poem in India for much more than a thousand years, and its authority would (one might think) have overborne every other work; yet all the Puranas, even those which have erred in the Kanyakubja matter, disregard its version of the Solar dynasty and give another version, which appears to be correct, for it is corroborated by incidental references in various other books. Even the Ramayana therefore with all its fame could not establish an incorrect genealogy.

Fictitious genealogies do occur in Sanskrit books and the difference between them and the royal genealogies is very striking. They are those which appear in connexion with Daksa in the accounts of creation, the genealogies of the Pitrs, those which explain how the various kinds of fires developed, and such like. They are all brahmanical compositions, obviously imitated from the dynastic genealogies, and bearing their spuriousness on their face. Moreover attempts to construct real genealogies out of insufficient materials are also found, such as the so-called varhsas of the Bhargavas, Atreyas, Vasisthas and other brahman families found in the Brahmanda, Vayu, Matsya and Linga Puranas. These are not proper genealogies. They contain here and there a piece of genealogy

comprising a few generations, but all the rest of the vamsas is merely a list of rishis and gotras compiled with no clear arrangement. The pieces of genealogy given do not appear to be original, but seem to have been constructed from information collected from various books, information that can be generally found elsewhere now. Those brahman vamsas were manifestly compiled in imitation of the royal genealogies at a much later date, and since there were no real brahmanical genealogies preserved by tradition, the compilers simply put together, as best they could, all the scraps of information they could find.

Such fictitious genealogies and brahmanical vamsas would never have been fabricated, unless real genealogies had existed before them and been famous. Manifestly there were no real and famous genealogies except those of the royal dynasties, which were all ksatriya. Consequently these latter were the originals which the former tried to imitate. These spurious genealogies then offer strong testimony to the antiquity and genuineness of the royal genealogies; and their defects and inaccuracies, compared with the abundant, simple and generally natural details of the ksatriya genealogies, reveal plainly what spurious work was like.

The royal genealogies were kept up and preserved, not by brahmins as brahmins, because such matters were not their province, but naturally by men connected with the courts, where the succession of kings was a subject of continuous importance and interest. Those men were royal bards, and may even have been brahmins; yet, if brahmins were the custodians of the genealogies, they did their duties not as brahmins but as court functionaries. The rishis or strict brahmins of ancient times did not busy themselves with such mundane affairs, except rarely and in special circumstances. They did not take any pains to preserve even their own vamsas, since no genuine brahmanical genealogies are to be found. Had such once existed, they would certainly have been preserved by the brahmins who have been the custodians of Sanskrit literature for at least two thousand years. The only [real

genealogies they have preserved are the ksatriya genealogies of the ancient dynasties. Since the br ah mans preserved the Vedas and other brahmanical works with verbal accuracy, there is no improbability in believing that bards and genealogists and pauranikas could have preserved those genealogies with substantial faithfulness. For these and other reasons also, the discussion of which would much augment this paper, there seems to me to be no reasonable doubt that the royal genealogies are really ancient and substantially worthy of acceptance. And this conclusion is corroborated by the fact that those genealogies, and they alone in Sanskrit writings, describe how what we know of the Aryan occupation of India took place, namely, by the diffusion and domination of the Aila or Lunar race over North India and the north-west of the Dekkhan. Their harmony with positive ethnological facts is unimpeachable testimony to their trustworthiness.

Pali, Buddhism and Jainism

THE BOMS OF LITERARY PALI

BY GEORGE A. GRIERSON

SCHOLARS are not agreed as to the home of literary Pali. The three most important theories are those of H. Oldenberg, R. Otto Franke, and E. Windisch.

According to Oldenberg,¹ 'the home of the Pali language must be looked for more to the south than to the north of the Vindhya mountains.'

Franke,² after considering the dialectic peculiarities of all the available coins and inscriptions in the Pali language, comes to the following conclusions:—(1) that the language of the inscriptions of the eastern parts of Northern India differs from Literary Pali in such important particulars that Literary Pali cannot have had its home there; (2) that as regards the language of the KharosthI documents of North-Western India, there are both points of agreement with, and points of difference from, Literary Pali. Hence, though the North-West was not the home of Pali, the gap between the two dialects is not so great as in the East; (3) that the language of the inscriptions of the Deccan shows marked points of difference from Literary Pali. He is thus unable to accept Oldenberg's theory; (4) that the language of the inscriptions of the Western Madhyadesa shows most points of agreement with Literary Pali, though there are some points of difference. Taking the inscriptions of the fourth group in detail, and comparing the language of each with Literary Pali, he finally decides that the home of Literary Pali was South to the South-East of the KharosthI country, South of Mathurft ami perhaps also South of SanchI and Bharaut, or at all events not in the immediate neighbourhood of these places, West or South-West of the Pali of the North-East, North of Nasik, and East of Girnar. In other words, the original

¹ *Vinaya pitaka*, p. liv.

² *Pali and Sanskrit*, chapter x, esp. p. 138. Franke on the whole agrees with Wertergaard and E. Kuhn.

home was as nearly as possible the country between the middle and western Vindhya. So far he considers his points as proved, and he adds the conjecture that the city of Ujjayini probably occupies the centre of the tract.

Windisch¹ lays stress on the fact that Franke's conclusions are mainly negative. The home was not in the East, or North-West, or South, and therefore it must have been where he puts it, as this was the only remaining possible location. He then urges that Literary Pali, as its name implies, was a literary language, and was therefore, like all literary languages, a more or less mixed form of speech. But, as this mixed language must have had for its basis some particular dialect, he contends that this was the dialect spoken by the Buddha himself,—the language of Magadha. As a literary language this was influenced by the languages spoken to its West, and especially by the other great literary language, Sanskrit. This accounts for the retention of a Sanskrit /- instead of the Magadhi l, and for the use of o instead of the Magadhi e in the nominative singular of a-bases. In other respects Literary Pali agrees very well with the peculiarities of Magadhi Prakrit as described by the grammarians. The Buddha himself, in the course of his travels, would have picked up dialectic peculiarities of the places where he preached, and it is the Buddha's language that it was intended to preserve in Pali.⁹

It seems to me that Windisch's explanation is the right one. It is the only formula that explains the Indian tradition, according to which Literary Pali is described as Magadhi. From inception to conclusion, his arguments are eminently cautious and reasonable ; and, accepting the fact that Literary Pali was a mixed form of speech having

1 *Ueber den sprachlichen Charakter des Pali*, in *Actes du XIV^e Congrès International des Orientalistes* (Algiers, 1905), part I. pp. 252ff., esp. pp. 277ff

2 It is worth noting that, according to MSrkandīya, the peculiarities of MSgadhī Prakrit extended much further west in connexion with Waited Prakrit. Thus (xx, 2, 3,) Sauraseni Paisad changed s to 6 and to l and the latter change also took place in Pancali Paisaci (xx, 14),

as its basis the language of Magadha, the object of the present paper is to see if we can trace this development any further, and ascertain the locality in which it is probable that Literary Pali received its final form.

It is generally accepted that in Asoka's time MagadhI, the language of his court, was employed as a KOM[^] spoken and understood over the greater part of India, and certainly as far North-West as Shahbazgarhi. It had its variations, just as at the present day the modern KOU[^] Hindostani, as spoken in Delhi differs from that spoken in Eastern Bengal or in Madras. As in the case of Hindostani, wherever it was used it imported peculiarities from the local dialect, but in the main it was the same language throughout. There is no reason for supposing that this was not the case before Asoka's time. A does not establish itself in a moment or at the command of a king, but by gradual growth, and that being the case, we are justified in assuming that the Buddha found his native language a useful Kowrj that could be employed wherever he preached.

Sten Konow, in his article on *the Home of Paisaci** draws attention to the many points in which Pali agrees with Paisaci Prakrit. These are—

- 1 The hardening of sonant mutes.
- 2 The retention of intervocalic consonants.
- 3 The employment of *svurabhakii* in words such as *bhariya*, *sinana*, and *kasata*.
- 4 The change of *jn,ny*, and *ny* to *fin*.
- 5 The preservation of *y*, instead of changing it to *j*.
- 6 The termination *o* of the nominative singular of *a*-bases, not the MagadhI *e*.
- 7 General agreement of the inflexional systems.

To these may be added—

- 8 In the Standard Paisaci of Kekaya, but not in the sub-dialects of Surasena and Pancala, the retention of the Sanskrit *r*, and its non-change to the MagadhI *l*.

Konow places the home of PaisacI in and about the Viidhyas and perhaps further to the South and to the East, and argues (p. 118)—in this supporting the above-mentioned theory of Franke—that it follows that Pali is **based** < *m* an Aryan dialect spoken in the same neighbourhood.

While I agree with Konow as to the close relationship between PaisacI and Pali, I am compelled to differ from him altogether as to the home of the latter. In a paper¹ entitled *PaisacI, Paisacus, and 'Modern Pisaca* I have discussed this question at considerable length and believe that I have proved that there was once a tribe or group of tribes in the extreme North-West of India, to which was given the name of 'Pisaca' by those who lived farther to **the** East; that these people spoke a language called by the Prakrit grammarians 'PaisacI Prakrit'; and that traces of this particular Prakrit are still to be found in considerable numbers in the languages spoken on the North-Western Frontier at the present day. While I admit that it is probable that these Pisacas spread down the Indus into Rajputana and along the Konkan coast, I maintain that the nidus in India from which they spread was the North-West, and that, though they may have carried their language with them, this North-West was its proper home.

I do not propose to repeat here the arguments used in that paper. They are there for those who wish to discuss them; but I mention one, because it involves a new piece of evidence that was not available when the paper was written.

As Konow points out (p. 100), the later Prakrit Grammarians knew numerous PaisacI dialects.

Hemacandra knew three, but does not say where they were spoken.

Markandeya (17th century) mentions the following---

1 Kancldeslya	3 Pancala
2 Pandya	4 Gaud a

5 Magadha	8 Saurasena
6 Vracada	9 Kaikaya or Kaikeya
7 Daksinatya	10 Sahara

11 Dravida

Of these (sutra 8) he says that only three were civilized (*nagara*). The rest were local dialects of no importance. The three were Kaikeya, Saurasena, and Panesla.

Kamatarkavaglsa (? 17th century) knows two Paisa-cikas, one Kaikeya and the other (?) Caska. He adds that if other Prakrit dialects, e. g. Magadhi, are used incorrectly, they become *asuddha Paisacika*.

Laksmidhara gives the following list of countries in which Paisaci was spoken (quoted from the Mysore Edition of 1889)—

1 Pandya	6 Kuntala
2 Kekaya	7 Sudhesna
3 Bahllka	8 Bota
4 Simha(la)	9 Gandhara
5 Nepala	10 Haiva

11 Kannojana

The first thing that strikes one about these three lists is the great extent of country that they cover. If we are to accept them in their entirety, Paisaci Prakrit was spoken over nearly the whole of India and also in Tibet. It would, in fact, be more of a *KOLVTJ* than modern Hindostani. In the second place they do not agree. There is only one name, Kekaya, common to all three, and it is the only one which, according to Markandeya, has a dialect of importance. This Kekaya (with which we may also count Gandhara) lies in the extreme North-West of India, in the very locality where I, for independent reasons, have located the Pisacas. The remaining names seem to be what Eamatarkavaglsa calls *asuddha Paisacikas*, i. e. are either not Paisaci at all but are corruptions of the local dialects, or else, what is more probable, local varieties of Pali, the language of the, to them, heretical Buddhists. This would account for the presence in the lists of names such as Bota (Tibet), Pandya, or Dravida, names that indicate

localities in which certainly no Aryan language was the vernacular.

Markandeya treats this Kekaya PaisacI as the standard. Moreover, according to him, it was in this dialect that Gunadhya's *Brhatkatha* was composed. In the 9th sutra of his chapter xix he says that in Kekaya Paisacika the word *kvacit* becomes *kupaci*, and as an example he quotes *'Brhatkathayam, 'kupaci pisalam'." Laksmldhara mentions another country in the same neighbourhood, Gandhara. It adjoined Kekaya, and the boundaries between the two fluctuated from time to time. For our present purposes, in discussing the language of Kekaya, we shall be perfectly safe in including under this name so much of Gandhara as lay to the East of the Indus.

We have thus arrived at the following facts—

- 1 Literary Pali is a mixed dialect based upon Magadhi.
- 2 It is closely connected with PaisacI Prakrit.
- 3 Standard PaisacI Prakrit was spoken in, and was almost certainly the local dialect of, Kekaya and eastern Gandhara, lying in the extreme North-West of India.

Let us now see if this leads us to any conjecture, less securely founded, but reasonable. From very ancient times the greater Kekaya, as defined above, was famous for its learning. We are told in the Chandogya Upanisad (V. 11) how five theologians came to a Brahman with hard questions, which he was unable to answer for them. So he sent them to Asvapati the king of Kekaya, who solved all their difficulties. It was at Salfitura, not far from Taksasila" that Panini himself was born, and it is not unfair to assume that it was at the Taksasila University that he was educated. This University was famed in early Buddhist times. According to the Jatakas it was the only great University in India. Numerous pupils went to it from Eastern India, from Magadha and Benares.¹ The Buddha himself, as a

¹ Jatakas 61, 222, 336, 374, 487, 489, 506, 522, 536, 546.

Bodhisatta, studied there in several previous births.¹ In many oases he went there in a former birth as one of the numerous sons of Brahmadatta, king of Benares,² and in other births he was even a professor there.³ In fact a perusal of the Jatakas shows that during the period in which they were composed Taksasila was considered to be the only place in India where a Buddhist could get a complete education. Finally, in Jataka 229, the Bodhisatta is represented as king of Taksasila.

When we consider the undoubted fact that Paisaci Prakrit was the vernacular language of the country round Taksasila, and that it is closely connected with Pali, we have a strong reason for concluding that Literary Pali is the literary form of the Magadhi language, the then of India, as it was spoken and as it was used as a medium of literary instruction in the Taksasila University. It was the language of educated Buddhists and, in a polished form, would naturally be used by them for literary purposes.

The origin of modern literary Hindi presents a striking parallel to that suggested above for Pali. The language of the country round the great university town of Benares is quite different from that of Delhi. Nevertheless Hindostani, the *KOMI* founded on the speech of the Delhi market, has been adopted in Benares as an important vehicle of literary expression, and, under the form of Hindi, bears all the hall-marks of the Sanskritizing influence of the University in which it has been nurtured and from which it has gained universal acceptance. Moreover, many books written by eminent Hindi writers display idioms and a vocabulary which clearly belong to the AwadhI and the Bhojpuri spoken in or not far from Benares, and which are strange to the language of the Upper Doab,

1 JStakas 80, 99, 117, 130, 149, 150, 163, 165, 173, 175, 180, 185, 200, 211, 214, 251, 259, 276, 284, 313, 319, 323, 328, 337, 346, 348, 356, 376, 380, 392, 402-3, 411, 413-4, 418, 423, 431, 440, 443, 445, 447, 453, 467, 474, 478, 488, 498, 499, 524, 527-30, 537.

2 JStakas 50, 55, 96, 101, 132, 151, 160, 181, 252, 260, 262, 269, 282, 289, 310, 349, 355, 362, 415-6, 456, 468, 525.

3 JStakas 71, 97, 338, 353, 377.

THE CAKKAVATTI

(*Digha*, xxvi.)

BY T. W. RHYS DAVIDS

ASOKA states in his Edicts that it was the horrors of actual warfare, as brought to his notice during his conquest of Kalinga, that led him to the propagation, in those Edicts, of the Dhamma—the Norm—as the only-true conquest. So the Buddha is represented in this Suttanta as setting out his own idea of conquest (not without ironical reference to the current idea) and then as inculcating the observance of the Dhamma—the Norm—as the most important force for the material and moral progress of mankind.

The whole is a fairy tale. The personages who play their part in it never existed. The events described in it never occurred. And more than that. A modern writer, telling a story to emphasise a moral, would always, like the creator of the immortal Dr. Teufelsdröckh, endeavour to give probability, *vraisemblance*, to the characters and events of his tale. Here the very opposite would seem to be the case. Recourse is had rather to the shock of improbability. This is in accord with the procedure in other cases (for instance in the story of Sharp-tooth the Priest, or in that of the Riddles of the God).¹ The point of the moral—and in this fairy tale the moral is the thing—is the Reign of Law. Never before in the history of the world had this principle been proclaimed in so thorough-going and uncompromising a way. But of course it is not set out in such arguments as we find in modern treatises on ethics or philosophy. The authors are not writing a monograph on history or ethics. They are preaching a gospel; and their method is to state their view, and leave the hearer to accept it, or not, just as he pleases.

The view was, so to speak, in the air at that time. The whole history of religion, in India as elsewhere, had been the history of a struggle between the opposing ideas,

1 K¹Stadanta ami Sakka-Panha (*Digha Nikaya*, v, and xxi).

or groups of ideas, that may be summed up by the words Animism and Normalism. Animism has now become a well-known term. It is based on the very ancient hypothesis of a soul—a subtle, material, homunculus or mannikin, supposed to dwell in the heart of a man. This afforded what seemed a simple and self-evident Explanation' of many mysterious things. When in his dream a man saw another, whom, when the dreamer woke, he knew to have been dead, he at once concluded, on the evidence of the dream, that the person he saw in his dream was still alive. It is true he had seen the body dead. But it was self-evident that a something he knew not what, but very like the body, was still alive. He did not reason much about it, or stay to weigh the difficulties involved. But he was much too frightened of it to forget it. Once formed, the hypothesis was widely used. When a man awoke in the morning after hunting all night in his dreams, and learnt from his companions that his body had been there all the time, it was of course his 'soul' that had been away. In a similar way death and trance and disease could be ascribed to the absence of the 'soul*'. 'Souls' were believed to wander from body to body. Animals had souls, and even things, when they were uncanny, or when they seemed to have life and motion and sound. The awe-inspiring phenomena of nature were instinctively regarded as the result of spirit action : and rivers, plants and stars, the earth, the air and heaven became full of souls, of gods, each of them in fashion as a man, and with the passions of a man.

But wide-reaching as this hypothesis was, it could not cover everything. From the earliest times of which we have any record we find in India as elsewhere quite a number of religious beliefs and ceremonies which were not explained, and could not be* explained, by the hypothesis of a soul. In other words they are not animistic. The first impression we get is that of the bewildering variety of such beliefs. But they can be arranged, with more or less exactitude, into over-lapping groups: and behind all the groups can be discerned a single underlying

principle. That principle is the belief in a certain rule order, law. We have no word for such a belief in English and this, since the theory is as important, in the ancient Indian religions, as Animism, is a pity. I have suggested in my lectures on Comparative Religion in Manchester, to call it Normalism.¹

Of course the men who held the beliefs, and practised the ceremonies so-named, had no clear conception of the theory of Normalism, just as they had no clear conception of the theory of Animism. But they unmistakeably held the view that things happened, effects were brought about without the agency of a soul or god, and quite as a matter of course; and they regarded that as the rule in such and such a case. Now we do not ourselves believe in the rule or in any one of the rules, thus laid down—(any more than we believe in the hypothesis of a homunculus within the heart). But the word Animism has been found most useful in clearing up our appreciation of ancient views. Its usefulness is limited, it is true. It covers rather less than half of the main beliefs recorded in the most ancient literatures of the world. The other half would be covered by the corresponding hypothesis of Normalism.

This is not the place to raise the question of the importance of Normalism in the general history of religions. Perhaps one of the reasons why, in Europe, so much more attention has been paid to Animism, may be that the general trend of belief in Europe is itself predominantly animistic. But it is at least certain that in the far East, and more especially in China and India, Normalism is the more important of the two.

In China it is the basis of the theory of the Tao (the way), which finds its earliest expression in the famous tractate of Lao Tzu, but was undoubtedly earlier than that, and is taken for granted also by Confucius. The Tao is quite Normalistic; and though much abused in later times in the official circles of Taoism, the early form

1 *Journal, Manchester Egyptian and Oriental Society*, 1914*15.

of it has never ceased to influence the various intellectual centres of Chinese belief. The theory of Yang and Yin, also so widely, indeed universally held, in China, and also going back to very early times, is equally Normalistic. No one of these three conceptions was ever personified. All three rested on the idea of law or rule independent of any soul.

In India our earliest records, the thousand and more Vedic hymns, seem at first sight to be altogether animistic. They consist almost exclusively in appeals to various gods. The European books on Indian religions are concerned, when treating of the Vedic period, with descriptions of these gods, based on the epithets applied to them, the acts attributed to them, and so on. But these poems make no pretention to being a complete statement of the beliefs of the tribes whose priests made use of the poems. Other poems, not included in our present collection, were doubtless extant in the community at the time when the collection was made. Other beliefs, not mentioned in the poems, were widely influential among the people. What we have is not complete even as a summary of the theosophy, or the ritual, or the mythology of the priests; and it refers only incidentally to other beliefs, unconnected with gods, of great importance as a factor in religion and daily life.

This conclusion might be justified as rendered necessary by a critical consideration of the simple known facts as to the composition of the anthology we call the Rg-veda. It is confirmed by the discovery in later Vedic books, especially in the manuals of domestic rites, of customs and beliefs that must evidently go back to the Bgveda period, (though not referred to in that collection), and even of one or two such cases that certainly go back to an earlier period still. We have space here for only one or two sample instances, and even they can only be treated in the merest outline.

Take the case of *rta*. The meaning of the word would seem to have passed through some such evolution as * motion, rhythmic motion, order, cosmic order, moral

6rder, the right.' In those slowly moving ages a long period must be postulated for the growth and consolidation of such ideas. The word is found, incidentally mentioned, at the end of its career, in the Avesta and the Veda. It must have been in full use before the Persian Aryans had separated from the Indian Aryans. The idea may therefore with reasonable probability be traced back to the third millennium before Christ. The use of the word died out in India before the time of the rise of Buddhism. Of the pre-Buddhistic Upanisads it occurs only in one—the Taittiriya. In the peroration to that work *rta* is placed above, before the gods. The word occurs, it is true, in three or four isolated passages of post-Buddhistic works, but these are archaisms. It has not been traced in either the Buddhist or the Jaina canonical literature.

•

The process of the gradual decline in the use of an abstract word is precisely analogous to the process of the gradual decay and death of a god.¹ The word covers not one idea only, but a number of connotations. The implications involved in it are constantly, though imperceptibly, changing. Sooner or later one or other phase of it overmasters the others, and some new word, or words, emphasising some one or other of the various connotations of the older word, come gradually into use as more adequate or more clear. When that process is complete the older word is dead. But it lives again in the newer word or words that have taken its place, and would never have been born or thought of unless the older word had previously lived. It was so with *rta*—a broader and deeper conception than the Greek *moira*; and more akin to the Chinese *Tao*. Like these, *rta* was never personified and it lives again in the clearer and more definite (though still very imperfect) phrases of the Suttanta before us now.

The case of *rta* is by no means unique. I have elsewhere discussed at some length another case, that of *tapas* or self-mortification, austerity.² It was held in India from

1 See *Buddhist India*, p. 234. 2 *Dialogues of the Buddha*, i, 213 f
17 [Bhandarkar Com. Vol.]

Vedic times onwards that *tapas* (originally 'burning glow,* but afterwards used of fasting and other forms of self-mortification) worked out its effects by itself, without the intervention of any deity. This is only the more remarkable since it is almost certain that in India, as elsewhere, the ecstatic state of mind which rendered such austerity possible was originally often regarded as due to the inspiration of a spirit. But it is, so far as I know, never mentioned that the supernormal effects of the austerity were due to the spirit from whom the inspiration came. The effects were due to the austerity itself. Very often indeed there was no question of any deity's help in the determination to carry out the self-torture—just as in the case of the *pujarVs* at the *ghats* in modern India.

Even the very sacrifice itself—made to gods, supposed to give sustenance and strength to gods, accompanied by hymns and invocations addressed to gods—was not entirely free from such normalistic ideas. The hymns themselves already contain phrases which suggest that their authors began to see a certain mystic power over the gods in a properly conducted sacrifice. And we know that afterwards, in the Brahmanas, this conception was carried to great lengths. So also we have evidence of a mystic power, independent of the gods, in the words, the verses, that accompany the sacrifice. It is no contradiction of this that we find this mystic power itself deified and becoming, indeed, in the course of centuries of speculation, the highest of the gods. And it is significant, in this connection, that the string of Brhaspati's bow is precisely *ṛta*.

It would be tedious (and it would also, after the above instances, be, I trust, unnecessary) to quote the very numerous other instances in Vedic works of a slighter character and less importance, showing the existence of a theory of life the very opposite of Animism. They are naturally only quite incidental in the Rgveda itself, and occur more and more frequently in the later books, being most numerous in the Sutra period. Many of these can be classed under one or other of the various meanings

given by anthropologists to the ambiguous and confusing word 'magic'¹—the 'magic' of names, or numbers, or propinquity, or likeness, or association, or sympathy, and so on. Many will also be found in the long list of practices from which it is said in the Silas (one of the very earliest of our Buddhist documents, earlier than the Pitakas) that the Samana Gotama refrains.²

The above suffices to show something of the position of Normalism in pre-Buddhistic India. Our present Suttanta shows the stage it had reached in the period of the early Buddhists. It is a stage of great interest—differing, as it does, from the line of development followed by Normalism in other countries.

1 For some of these divergent and contradictory meanings see *Proceedings of the Oxford Congress of Religions*, 1908.

% *Dialogues of the Buddha*, vol. 1, pp. 16-30.

SAGE AND KING IN KOSALA-SAMYUTTA

BY MRS. RHYS DAVIDS

THE fame of Gotama Buddha is world-wide and crescent. The religious and philosophical doctrines associated with his name were at one time paramount in India—they were Indian culture. Few will be ignorant of or dispute either of these two statements. Yet it is singular to note how slight and confined to how few are the movements on foot in our centres of learning, European and Indian, to acquire and to spread a better based and more intimate knowledge (1) of the earliest known, least apocryphal sources and methods of those doctrines, (2) of the earliest documentary evidence extant of the social and political atmosphere in which they arose. We know the methods of Sokrates, we know the very words, let alone the character of the conversations and discourses ascribed to the Christ. How much is present to our mind of how, as preserved in the larger literature of the Nikayas, the Sakya-muni dealt with his numerous interlocutors? We know the Sokratic Athens; we can almost see the hasty Herod, the reluctant Pilate, the contending Pharisee and Sadducee. Which of us has a mental picture of those two loyal inquirers and patrons, King Pasenadi of Kosala and Sudatta, whom for his philanthropy men called Anatha. pindika: 'Feeder of the forlorn'? Yet there are no other Indian laymen of so early a date, concerning whose life and character so much relatively early documentary evidence is extant. Chandragupta, compared with these, is but a name; Asoka lives chiefly in the records of his edicts. But in the Suttas of the Nikayas, aided by the Vinaya, "the King, the Kosalan Pasenadi" walks and talks before us with all the strong and the weak points of his ;Ksatri-yan characteristics. And we have documentary evidence of a similar kind for the character of the commoner.

But for the piety and support of these two men, it is conceivable that the Sangha, in Asoka's day, might not have been in such a position as to make it expedient for

that ruler to patronize and propagate it. It is to aid a little in familiarizing some readers with the Pasenadi of Pali literature and with the methods used in his case by India's greatest teacher, that the following selection from the *Kosala-Samyutta* (ed. Feer, Pali Text Soc.) is here offered. It will serve at least to fill out a little the brief outline of the King's career sketched in my husband's *Buddhist India*,

In these Suttas and in Buddhaghosa's Commentary¹ the Kosalan Pasenadi² stands out as a very real, if average aristocratic despot- He is shown combining, like so many of his class all the world over, a proneness to affairs of sex with the virtues and affection of a good 'family man,' indulgence at the table with an equally natural wish to keep in good physical form, a sense of honour and honesty, shown in his disgust at legal cheating, with a greed for acquiring wealth and war indemnities, and a fussiness over lost property, a magnanimity towards a conquered foe with a callousness over sacrificial slaughter and the punishment of criminals. Characteristic also is both his superstitious nervousness over the sinister significance of dreams due, in reality, to disordered appetites, and also his shrewd, politic care to be on good terms with all religious orders, whether he had testimonials to their genuineness or not.

In all these respects then the Pasenadi is a typical Ksatriya, with the qualities and defects of his class. Indeed it would seem that he shows some complacency in ranking himself as a good type of a prosperous monarch (3, §5), greatly busied over the pleasures and duties, the advantages and disabilities, of a ruler who, as in his case, had inherited a kingdom of expanded dimensions,³ and had 'won security therein' (3, § 5). Nevertheless in one important respect he is revealed as superior to the average

1 *Saratthappakasini*. The Pali Text Society is preparing an edition.

2 Probably an official, possibly a clan name, as we might say the Egyptian Pharaoh, or the Rumanian Hohenzollern. He is elsewhere called Agnidatta (*Divya*: 620; *Bud*: *India*, 10).

3 Ct *Buddhist India*, p. 25.

king, and that is in his discernment—according to his lights—of, and his inclination towards, that which was good and righteous (2, § 4), and also in his appreciation of the man who, in a transcendent degree, embodied all that was good and righteous.

These were matters, as the Sage reminded him (2, § 1), that were anything but easy for one in his position to recognize. Living amidst luxuries and distractions, flattery and lies, the Pasenadi had the strength of mind to secure time for solitary meditation (1, § 4—§ 6), and to face the bed-rock questions of life and death, good and evil. Hence his conscience was alert, and swift in response to the spur, lightly or heavily applied, of the Sage's admonition. Frequently thus admonished, he remained a loyal upasaka of the master during practically the whole of his long public ministry. In the opening Sutta, his first meeting with the young and new teacher is given. After that the title *bho Gotama* is changed once for all to the *bhante* of the disciple. And in the eloquent valediction put in his mouth, in the Dhammacetiya-sutta of the *Majjhima*, as spoken just before he went forth to meet desertion and a lonely death, he asserts that both he and his teacher are octogenarians. Viewed as a historical fact, this friendly intercourse is thus made to cover more than forty years. Did ever monarch do himself such high credit for so long a period?

Such was the Kosalan Pasenadi, the most powerful king of his day in India, whose realms extended from the Ganges to Himalaya, and were bound west and east by (probably) the Jumna and the Gandhak.

In the counsels which he sought and found, most of the methods employed by the Sage are illustrated. In discussing those methods in his introduction to the Kassapa-Slhanada Sutta (*Dialogues of the Buddha*, i, 206 f.) Rhys Davids shows how, in conversing with one whose standpoint differed widely from his own, the Buddha invariably put himself as far as possible in the mental position of the questioner, accepting his starting points, attacking no cherished convictions, even adopting the very phraseology

of the other, but, partly by a re-creating of the meaning of terms, partly by appeal to matters of common agreement, bringing him to a fresh and a higher conclusion. Several of the Suttas here presented exemplify these words. Both Sage and King were of the same social class and country,¹ and of the same age, yet it were hard to find two persons more sharply contrasted in opinions and outlook than these two. Note then how the sage, who, save to help and uplift his fellow-beings, had entirely done with the world, stooped at every interview to the King's outlook and stock of ideas, and grafted his admonitions on that stock and in that soil:—

His Majesty has been gluttonous. Abstemiousness is gently enjoined, not as favouring spiritual growth,² but because he will thus more lightly bear advancing age. How should he most wisely direct his almoners to proceed in the matter of doles etc. ? Use the same tests as you do in passing young men for your army. He has decided that nothing is so precious to any man as his own soul. Then see that you hurt not the soul, so precious to him, of another man. He has been busy after the manner of kings? Well, you often receive reports from special king's messengers of an approaching crisis. I am such a messenger, and I tell you, you have no time to be busied over so much that kings hold important. In the face of *this* great crisis,—the brevity of this life, the approaching of death—what alone remains for you to be busied withal ?

The sympathetic appeal of such advice *ad* this specific *hominem* must have been very vital and rousing. In his graver and sadder moods the king is met by the 'common sense', which opens the casement of sorrow's private cell, and lets in the bracing, if bitter wind of the *common lot' . . . 'life is but death' . . . * the best are not exempt.'

1 As the King reminds him (Dhammacetiya-sutta)—•

Bhagava pi khattiyo, aham pi khattiyo; Bhagava pi Kosalako, aham pi Kosalako.

2 Cf. the rebuke to Dasaka (XVII,) Belatthakani (CI) in ray *Pss. of the Brethren.*

But nowhere is he advised to leave the world, or be aught but diligent over his kingly duties.

Sycophancy is as wholly absent in the Sage's replies and comments on the King's acts, as is the rudeness of a Diogenes. Whether surfeited or chastened, self-complacent or vexed, the King and his actions meet with unfaltering 'sweet reasonableness,'¹ courtesy and magnanimity. Not always is the guiding hand applied heavily. There is a pretty touch of irony in speaking of the liability of wealth to be 'confiscated by kings or by thieves' to a monarch who had just absorbed a millionaire's intestate property (2, § 9). Both King and Sage indulge in covert humour when comparing the unknown character, concealed (we should say) beneath a cowl, to the disguises and transformations carried out in the career of thieves as chartered spies. And it lends no small charm as well as verisimilitude to these little Sutta-etchings, when we discern the Teacher and the King, who in comparison was but as an average nice boy, finding themselves here on common ground—that of men of experience wary of judging by appearances, and together amused at the parallel drawn by one of them.

But perhaps the most impressive feature in these brief records is the several social deals to which the Sage points the way in reply to the King, or in comment on his acts. We note him condemning the methods of military aggressiveness, upholding the dignity of woman as daughter, wife and mother, and enjoining those public works for the people's good (3, § 4) such as would come under that righteous living, which it was alone of real importance for the king, confronted by the brevity of life (3, § 5), to be occupied withal. Thus it was all very well for the king to spare the life of his conquered foe, but in confiscating his war material, and indeed in waging war, he did but sow the seeds of retaliatory violence (2, § 5). Again, that a daughter might prove a greater blessing to a king than a son, that the birth of one was anyway not to be considered a disappointment and failure in achieve-

1 Matthew Arnold's *emeiiceia* applied to Christ.

ment—these are startling words to hear coming from that time and that country, nay, and not from ancient India only. The Buddhist Canon contributes its quota—not a great one for a compilation by male and monastic editors—of blows and kicks at woman—' *dulce monstrum*.' And it would scarcely have surprised us to come upon a Sutta stating that the birth of a daughter was due to the Karma of some shortcomings in the parents' antecedents, let alone those of the baby's former lives. But in the verse on Mallika's infant daughter and the disappointed parents (2, § 6,) we seem to hear the real voice of a teacher who transcended the bounds of time and tradition, of one worthy to rank as guide and healer of men and women of all ages and every race.¹

1 The selection mentioned on p. 2 above will appear in the writer's forthcoming translation of the SagSthavagga of the Samyutta-Nikaya to be published by the Pali Text Society. It could not unfortunately be included here.

जैनतत्त्वज्ञानम्

ॐ नमः परमात्मने ।

यच्चैतन्यमहोऽप्यतः प्रतिहताः सर्वेऽपि तेजस्विनो
यच्छक्तेः पुरतः समस्तभुवनस्थामाऽप्यकिञ्चित्करम् ।
विश्वैश्वर्यसुखाकरोऽपि च यवानन्वोक्षी विन्दुवद्-
यश्चिन्तास्मृतिगोचरोऽपि नतरां प्रत्यक्षगम्यः पुनः ॥ १ ॥

तस्मै जगद्विचित्राय जगदीशाय शम्भवे ।

ब्रह्मणे परमेशाय सच्चत्तया विद्ध्ये नमः ॥ २ ॥

अर्थं तावदारम्भः सङ्क्षेपेण परिदर्शयितुं जैनदर्शनतत्त्वम् । दर्शनानि
च षट् । यदाहुः श्रीहरिभद्रसूरयः षट्दर्शनसमुच्चये—

बौद्धं नैयायिकं साङ्ख्यं जैनं वैशेषिकं तथा ।

जैमिनीयं च नामानि दर्शनानाममून्यहो ॥

अस्य च जैनदर्शनस्य प्रकाशयिता परमात्मा रागद्वेषाद्यान्तरिपुजेतृत्वाद्-
न्वर्थकजिननामधेयः । जिनोऽर्हन् स्याद्वादी तीर्थंकर इति चानर्थान्तरम् ।
अत एव तत्प्रकाशितं दर्शनमपि जैनदर्शनमर्हत्यवचनं जैनशासनं स्याद्वाददृष्टि-
रनेकान्तवाद इत्याद्यभिधानैर्व्यपदिश्यते ।

अत्र दर्शने नव तत्त्वानि पदार्थाः परिकीर्तिताः सन्ति । तानि चामूनि ।
जीवोऽजीवः पुण्यं पापमाश्रयः संवरो निर्जरा बन्धो मोक्षश्चेति । यदाह जैनागमः
श्रीसूत्रकृताङ्गसूत्रम्—

नत्थि जीवा अजीवा वा णेवं सन्नं निवेसए ।

अत्थि जीवा अजीवा वा एवं सन्नं निवेसए ॥ इति ॥

तत्र चेतनालक्षणो जीवः । चैतन्यं ज्ञानमुपयोग इति हि पर्यायाः ।
सर्वत्रापि चेतनावत् एव जीवस्य भावात् । चेतनायाः जीवस्वरूपत्वाज्जड-
मात्रस्य चेतनाराहित्याच्च । अनेनैव जडचेतनयोर्मुख्यत्वेन भेदसिद्धिः ।
ज्ञानरूपत्वेऽपि जीवस्य यन्न भवति सकलवस्तुविषयक आलोकस्तत्रेह कारणं

वेदितव्यम् । अनादिकालविपरिवर्तमानविविधकर्मसन्ततिभिः सामस्त्येन सम्बद्ध एव जीव एतामिश्च कर्मसन्ततिभिः समाच्छादितत्वात् शक्नोति समस्तपदार्थान् साक्षात्कर्तुम् । तदुक्तम्—

न सर्वमपि वेत्त्येष प्राणी कर्मावृतो यथा ।

नार्कस्याऽऽभिभूतस्य पसरन्त्याभितः प्रभाः ॥ इति ॥

तथा च कर्मप्रतिबन्धराहित्य एव सति निरभ्रदिनकर इव सर्वत्र प्रकाशमयो भवितुमर्हति जीवः ।

तत्र जीवा द्विविधा मुक्ताः संसारिणश्च । मुक्ताः सकलकर्मपरिक्षयेण सिद्धनिरञ्जनपरब्रह्मस्वरूपं प्राप्ताः । संसारिणः पुनः कर्मप्रतिबन्धाः । तेऽपि द्वेधा स्थावरास्त्रसाश्च । तत्र स्थावराः पृथ्वीजलतेजोवायुवनस्पतिभेदभिन्नाः पञ्चधा । त्रसा द्वीन्द्रियत्रीन्द्रियचतुरिन्द्रियपञ्चेन्द्रियभेदैश्चतुर्धा । तत्र षष्ठ्य-च्छेदनादिभिरचैतन्यमप्राप्तानां पृथिव्यादीनां पञ्चानां त्वागिन्द्रियस्यैव सद्भावेनैकेन्द्रियत्वम् । एते चैकेन्द्रियाः प्रत्येकं द्वेधा सूक्ष्मा बादराश्च । सूक्ष्माख्यनामकर्मोदयात् सूक्ष्माः । ते च सकललोकव्यापिनः । सकललोकाकाशस्तैर्जीवैः परिपूरित आस्त इत्यर्थः । बादराख्यनामकर्मोदयाद् बादराः । ते च प्रतिनियतस्थलवर्तिनो गम्याः^१ । तत्र सूक्ष्मत्वं प्रतीतम् । बादरत्वं च स्थूलत्वम् । स्पर्शनरसनोन्द्रियाभ्यां द्वीन्द्रियाः कुम्पितरकचन्दनकशङ्कुपर्दजलौकाप्रभृतयः । स्पर्शनरसनघ्राणैष्ठीन्द्रिया कुंथुमत्कुणयूकामत्कोटकेन्द्रगोपकादयः । स्पर्शनरसनघ्राणनेत्रैश्चतुरिन्द्रिया भ्रमरमाक्षिकामशकवृक्षिकप्रमुखाः । स्पर्शनरसनघ्राणनेत्रश्रोत्रैः पञ्चेन्द्रियाश्चतुर्धा तिर्यश्चो मनुष्या नारका देवाश्च । तत्राऽद्या मीनमकरगजसारसहंसादयः । मनुष्याः प्रतीताः । नारका अधोलोकवर्तिनः । देवाः प्राधान्येनोर्ध्वलोकवर्तिनः । केचिद् भुवनपत्यादयो देवा अधोलोकेऽपि । द्वीन्द्रियत्रीन्द्रियचतुरिन्द्रियाणां त्रयाणां विकलेन्द्रियसंज्ञास्ति ।

एकेन्द्रिया विकलेन्द्रियाश्च विशिष्टमनोज्ञानरहितत्वेनासंज्ञिन उच्यन्ते यस्मात् ते सम्मूर्च्छिमा गर्भजत्वाभावात् । देवा नारकाश्चोपपातजा उक्ताः । देवा हि देवशय्याभ्यन्तर उपपतन्ति । नारकाश्च वज्रकुड्यस्थवातायनसदृशनिष्कृटेषु । तिर्यक्षु च केचिद् गर्भजाः केचित् सम्मूर्च्छिमाश्च । मनु-

१ श्रीविनयविजयोपाध्यायकृतलोकप्रकाशे द्रव्यलोके द्वितीयसर्गे ७० ।

२ सूक्ष्मबादरनामधेये कर्मणी वक्ष्यमाणाष्टविधकर्माऽन्तर्गतनामकर्मभेदौ ।

प्यास्तु गर्भजाः । ये तु श्लेष्मादिषु गर्भजमनुष्यसम्बन्धिषु चर्मचक्षुरदृश्या अन्तर्मुहूर्तभवस्थितिका मनुष्यजातीया उत्पद्यन्ते ते सम्मूर्च्छिमा एव । देवगतौ देवा देव्यश्च सन्ति न कश्चिन्नपुंसकः । नारकाः सम्मूर्च्छिमाश्च नपुंसका एव । सम्मूर्च्छिमव्यतिरिक्ताश्च तिर्यञ्चो मनुष्याश्च पुंस्त्रीनपुंसकाः ।

जीवानां शरीरं पञ्चधा । औदारिकं वैक्रियमाहारकं तैजसं कर्मणं च । तत्र प्रथमं मनुष्यपद्मादीनां सर्वेषां देवनारकव्यतिरिक्तानाम् । वैक्रियं च ह्रस्वदीर्घदृश्याऽदृश्यभूचरसेचरादिनानाविधरूपकरणसमर्थं भव(जन्म)स्वभावतो देवानां नारकाणां च । तथाविधशक्तिमहिम्ना मनुष्यादेरपि । आहारकं वपुश्चतुर्दशपूर्वविद्याबलेन सकलपदार्थान् समधिगच्छतां महा-पुरुषाणां परमर्षीणां भवति । एतेन च जीवन्मुक्तानां देहवतां सर्वज्ञपरमात्मनां पुरस्सरं प्रेषितेन सूक्ष्मार्थसन्देहापगमो भगवन्महाद्विंदर्शनं च शक्यते कर्तुम् । तैजसकर्मणे च सर्वस्थ संसारिजीवस्य भवतः । तैजसेन मुक्ताहारपरिपाकादिकार्यं भवति । कर्मणं शरीरं पुनः क्षीरनीरवद् अन्योन्यं परिश्लिष्टा जीवप्रदेशैः कर्मप्रदेशा एव । एतद्वलेन जीवस्य भवान्तरे गतिर्भवति ।

तथाविधानां पृथिव्यादीनां सचेतनत्वं दुर्गममपि युक्तिशास्त्रबलेन शक्यते प्रतिपत्तुम् । तत्र वनस्पतेस्तावत् सचेतनत्वं स्फुटत्वात् समर्थ्यते । मूले सिकेषु तरुषु यो रसः फलादिषु स्फुटतया परिदृश्यतेऽसौ नोच्छ्वास-समन्तरेणोर्ध्वं प्रसर्तुमर्हत्यस्मदादिषूच्छ्वासे सत्येव रसप्रसर्पणोपलम्भात् । भृत्तिकादावुच्छ्वासाभावे रसप्रसर्पणामावाञ्च । तस्माद् रसप्रसर्पणेनाक्षिप्यमाण उच्छ्वासस्तरुषु निःसन्देहं सात्मकत्वं प्रसाधयति । एवं नृणा-मिव द्रूणामपि दोहदोत्पत्तिदर्शनात् संकोचविकासादिसंज्ञाबलाच्च वन-स्पतीनां चेतनावत्त्वं सुश्रद्धानम् । पृथिव्यादीनामपि—सात्मिका पृथ्वी विद्रुमशिलादिरूपा छिन्नाया अर्धस्याः पुनस्तत्स्थान एव समानजातीयाङ्कुरो-त्थानाद् अशोऽङ्कुरवत् । भौममम्भः सचेतनं क्षतभूसजातीयस्य स्वभावस्य सम्भवाद् दर्दुरवत् । नाभसमपि जलं सात्मकम् अन्नादिविकारे स्वतः सम्भूय पातान्मीनादिवत् । तेजः सात्मकम् आहारोपादानात् तद्गुद्गौ विकारविशेषो-पलब्धेश्च नरवत् । सचेतनो वायुरन्यप्रेरितत्वे सति तिर्यग्गतिमत्त्वाद् गोवत्—इत्यादिप्रमाणबलेनागमवचनाच्च सचेतनतां कक्षीकुर्वन्ति धीराः ।

ये तु जीवपदार्थमेव नेच्छन्ति तेषां बन्धमोक्षादिव्यवस्थानुपपत्तिः । इष्टापत्तौ जगद्वैचित्र्यं कस्माच्छब्दयेतोपपादयितुम् । एको राजा एको रङ्गः कश्चिद् धनी कश्चिद् दरिद्रोऽन्यो नीरोगः परो रोगी अपरः प्रज्ञावान् इतरोऽतिस्थूलमतिरित्याद्येवमनन्तबिम्बवैचित्र्यं जीवपदार्थमपलेपुषामशक्यं साधयितुम् । आत्माभिसंश्लिष्टकर्मवैचित्र्यव्यतिरेकेण तदनुपपत्तेः । यद्वाह प्रथमकर्मग्रन्थे प्रथमगाथावृत्तौ श्रीमान् देवेन्द्रसूरिः—

इमाभृदङ्ककयोर्मनीषिजडयोः सद्रूपनीरूपयोः

श्रीमद्गुणतयोर्बलाबलवतोर्नीरोगरोगार्तयोः ।

सौभाग्यासुभगत्वसङ्गमजुषोस्तुल्येऽपि वृत्तेऽन्तरं

यत्कर्मनिबन्धनं तदपि नो जीवं विना युक्तिमत् ॥ १ ॥

ननु पृथिव्यादिभूतेभ्यो गुडपिष्टोदकादिभ्यो मदशक्तिरिव चेतना समुद्भवतीति मतं तदपि न विचारसहम् । अचेतनेभ्यो भूतेभ्यश्चेतनोत्पत्तिविरोधात् । अन्यथा घटादीनामपि सचेतनत्वप्रसक्तेः । पृथिव्यादिचतुष्टयस्य विशिष्टाभिसम्बन्धे सति चेतनाविर्भाव इति चेन्न । यो हि येषां न धर्मस्तेषां सत्यापि सम्बन्धे तद्वर्मप्रादुर्भावानुपपत्तेः । प्रत्यक्षसिद्धो ह्ययमर्थः । न हि तिलव्यतिरिक्तेभ्यः केभ्यश्चिदपि तैलप्रादुर्भावः । नास्ति च पृथिव्यादिः प्रत्येकं चेतनाधर्मवान् नातस्तत्सम्बन्धेऽपि चेतनोद्भवो युक्तिमान् । मदशक्तिदृष्टान्तोऽप्ययुक्तः । मदशक्तेरचेतनत्वेनाचेतनेभ्यः पिष्टोदकादिभ्य उत्पादस्य युक्तत्वेऽपि जडेभ्यो भूतेभ्यश्चेतन्यशक्त्युत्पादस्याऽसिद्धेः । एतेन देहात्मनोरैक्याभिमानोऽपि प्रत्युक्तः । मृतदेहे चेतनानुपलम्भात् । इन्द्रियाण्येवात्मेत्यपि न युक्तम् । चक्षुर्दृष्ट्यार्थस्य चक्षुर्व्यपगमे स्मरणानुपपत्तेः । न हि चक्षुर्दृष्टमर्थमन्यदिन्द्रियं क्षमते स्मर्तुम् । अन्यदृष्टस्यार्थस्यान्येन स्मरणायोगात् । तस्माद् इन्द्रियव्यतिरिक्तममुमेकं पदार्थमभ्युपगन्तुमहन्ति प्रेक्षावन्तः । यो हि ज्ञानस्वरूपो येन च प्रेरितानि करणानि स्वस्वविषयं परिच्छेतुं प्रभवन्ति यः पुनरेकस्येन्द्रियस्य व्यपगमेऽपि तदुपलब्धमर्थं स्मृतिविषयीकरोति स एव देहादिव्यतिरिक्तो जीवपदार्थः । उक्तं च न्यायदर्शने गौतमीये तृतीयाध्यायस्य प्रथमान्हिके प्रथमसूत्रम्—दर्शनस्पर्शनाभ्यामेकार्थग्रहणादिति ।

उक्तो जीवः । अथाजीवतत्त्वव्याख्यावसरः । अजीवस्य लक्षणं चेतना-
त्यन्ताभावः । जडोऽचेतनोऽजीव इति चानर्थान्तरम् । स च पञ्चधा—धर्मा-

स्तिकायोऽधर्मास्तिकाय आकाशास्तिकायः पुद्गलास्तिकायः कालश्च । अत्रा-
स्तिकायो नाम प्रदेशसमूहात्मकः । प्रदेशसमूहात्मकाः पदार्थाः पञ्चैव सन्ति
जीवो धर्मोऽधर्म आकाशं पुद्गलश्च । तत्र प्रत्येकं जीवस्यासंख्येयाः प्रदेशा
एतावन्तश्च धर्मस्याऽधर्मस्य च । आकाशस्याऽनन्ताः प्रदेशाः । पुद्गलस्य पुनः
संख्येया असंख्येया अनन्ताश्च । कालस्तु प्रदेशरहितः । अनागतस्य कालस्या-
ऽनुत्पन्नत्वादुत्पन्नस्य च विनष्टत्वादूर्तमानस्य च समयस्य प्रदेशराहि-
त्यात् । एवं च पञ्चास्तिकाया ज्ञेयास्तदात्मकोऽयं लोकः । अत्र धर्माधर्मौ
न पुण्यपापरूपौ शुभाशुभरूपौ जीवसम्बद्धाऽदृष्टरूपौ वा प्रत्येतव्यौ किन्तु
लोक आकाशवद् व्यापकावेतन्नामानौ पदार्थौ जैनप्रवचने प्रज्ञप्तौ । तत्स-
द्भावे किं प्रमाणमिति चेदागम एव प्रमाणम् । स्वीकुर्वते हि सर्वेऽपि दार्श-
निकाः स्वस्वाभिमतमागमं प्रमाणम् । न हि स्वर्गनरकायतीन्द्रियपदार्था-
भ्युपगम आगममन्तरेण वर्तते किञ्चिच्छरणम् । स्वर्गाद्यनुमापकान्यध्वनुमान-
प्रमाणानि न स्वातन्त्र्येण चित्ताश्वासहेतवः किन्त्वागमप्रमाणस्य सकाशात्-
लब्धप्रसादान्येव भवन्ति । ननु जैनदर्शनादन्यत्र न कापि दर्शने धर्माधर्मौ
पदार्थौ स्वीचक्राते ततः कथमागममात्रेण तत्राश्वाससम्भवः । युक्तिं हि
काञ्चिदाचक्षीतेति चेत् तर्ह्यवधेयमिदम् । गतिलक्षणस्तावद् धर्मास्तिकायः ।
प्रमाणं चात्र गतिपरिणतयोर्जीवपुद्गलयोरलोके गमनविरहान्यथानुपपत्तिः ।
न चालोकभिमुख्यविरहादेव तत्राऽगतिरिति वक्तव्यम् । सिद्धप्रमाणादी-
नामलोकाभिमुखत्वात् । न च क्रियाविशेषे देशविशेषस्य हेतुत्वादलोक-
देशस्य गत्यहेतुत्वेनैवोपपत्तौ व्यर्था धर्माधर्मपरिकल्पनेति युक्तं वक्तुम् । सहका-
रिण एव तत्र विशेषकत्वात् । सहकारिणमन्तरेण केवलदेशत्वरूपेण हेतुताकल्प-
नायां मानाभावात् । स्थितिलक्षणोऽधर्मास्तिकायः । तत्रापि स्थितिपरिणतयो-
र्जीवपुद्गलयोरलोके स्थितिविरहान्यथानुपपत्तिः प्रमाणम् । अयं भावः । स्वभावतः
संचरतां जीवपुद्गलानां पानीयमिव मीनानां धर्मास्तिकायः साहाय्यकं करोति ।
अधर्मास्तिकायः पुनस्तेषामेव मीनानां स्थलवत् पान्थानां छायावद् वा स्थितौ
सहायो भवति । इदं तात्पर्यम्—गतिस्थितिपरिणामे सत्येवैतौ सहायौ । अ-
न्यथा जीवादीनां सदा गतिस्थितिप्रसङ्गात् । एतयोर्लोकव्यापिनोः सदा सत्त्वात् ।

इदं चात्र ध्ययम् । अर्हत्प्रवचने लोकोऽलोकश्चेति द्वौ प्रज्ञप्तौ । तत्र

लोकश्चतुर्दशरज्ज्वात्मको जीवार्जवैश्च संव्यातः । लोके पुनस्त्रयो विभागाः । ऊर्ध्वलोकोऽधोलोकस्तिर्यग्लोकश्च । ऊर्ध्वाधोलोकयोर्देवनारकनिवासः प्रागुक्त एव । तिर्यग्लोकः पुनरयं यत्राऽस्मदादयो वर्तन्ते । भारतवर्षादिक्षेत्रसमूहात्मको योजनशतसहस्रनिष्कम्भो वृत्तो यस्य नामौ मेरुर्वर्तते । एवम्भूतश्च जम्बूद्वीपः । असौ तद्द्विगुणविष्कम्भेण लवणसमुद्रेण परिवेष्टितः । एवं-रीत्याऽसंख्येया द्वीपा उत्तरोत्तरसमुद्रेण परिवेष्टिताः । त असंख्येया द्वीप-समुद्रा द्विगुणविष्कम्भा बलयाकृतयो वेदितव्याः । अयं सर्वोऽपि तिर्यग्लोकः । इत्येवमुक्तो लोकः । अलोकः पुनः केवलाकाशात्मकः । अलोके हि जीवपुद्गला धर्माधर्मौ च न सन्ति किन्तु केवलमाकाशमेव । एवं च धर्माधर्मानभ्युपगमे लोकालोकव्यवस्था न स्यात् । जीवपुद्गलानां सर्वत्राऽप्यस्वलङ्घ्यत्वादि-सम्भवेनालोकत्वेनाभिमतस्यापि लोकत्वप्रसंगप्राप्तेः । धर्माधर्मसद्भावे तु यत्रैव लोके तौ स्तस्तत्रैव पुद्गलानां गत्यादिसम्भवात् तदन्यत्र जीवादिगमनाभावेन केवलाकाशरूपत्वप्राप्तेः सुतरामलोकत्वसिद्धिः । अलोकश्चानन्तः । सर्वव्यापि सर्वाधारः स्वप्रतिष्ठमनन्तप्रदेशमाकाशं प्रसिद्धमेव । दिक् तु नार्थान्तरमाकाशात् । वर्तनादिलक्षणः कालः । वर्तना च नवपुराणादिपरिणामः । तत्र चार्धवृत्तीयद्वीपसमुद्रान्तर्वर्ति कालद्रव्यं हेतुः ।

१ लोकस्य चतुर्दश भागाः क्रियन्ते ते प्रत्येक रज्जुनाम्नोच्यन्ते ।

२ लोकसम्बद्ध आकाशो लोकाकाशः । अलोकसम्बद्ध आकाशोऽलोकाकाशः । एवं चैकमप्याकाशं धर्मास्तिकायादिसम्बन्धसत्त्वासत्त्वाभ्यां द्वेधा विभज्यते । आकाशं सत्त्ववकाशदम् । अलोके पुनर्जीवपुद्गलानामभावादवकाशदायित्वगुणश्चरितार्थी न भवत्याकाशस्य । न च तद्गुणस्याऽचारिताख्येऽलोकाकाशस्याकाशत्वं भज्येत । अलोकाकाशो ह्यवकाशं दातुं सर्वदा स्थित एव परं तत्रावकाशमाहक एव कश्चिन्नस्यात् तस्य कोऽपराधः । यदि जीवादिपदार्था अलोके भविष्यन्नावश्यमसौ तेषामदास्यताऽवकाशम् । अतोऽवकाशमाहकाभावकारिणोऽचरितार्थेनाप्यवकाशदत्वगुणेनालोकाकाशस्य सुस्थमाकाशत्वम् ।

३ जम्बूद्वीपस्तद्वेष्टको लवणोदधिस्तद्वेष्टको धातकीलण्डस्तत्परिवेष्टकः कालोदधिस्तद्वेष्टकस्य पुष्करावर्तस्याऽर्धभागः । एवं च द्वौ समुद्रौ सार्धौ द्वौ द्वीपौ तथा चार्धस्तृतीयौ द्वीपौ ययोस्तावर्धवर्तृतीयौ द्वीपौ तौ च समुद्रौ चार्धवर्तृतीयद्वीपसमुद्रौ । इदमेव च नरक्षेत्रं पञ्चचत्वारिंशलक्षयोजनप्रमाणम् ।

स्पर्शरसगन्धवर्णवन्तः पुद्गलाः । ते द्विधा । अणवः स्कन्धाश्च । तत्र स्कन्धात् पृथग्भूता अबद्धा अप्रदेशाः परमाणवः । द्वौ प्रदेशावारभ्य संख्येया असंख्येया यावदनन्ताश्च प्रदेशा यत्र सन्ति ते द्विप्रदेशिकाः संख्येयप्रदेशिका असंख्येयप्रदेशिका यावदनन्तप्रदेशिकाः स्कन्धा उच्यन्ते । अत्रेवं ज्ञेयम् । यो घटपटादिस्कन्धेषु सम्बन्धः परमोऽणुः स प्रदेश उच्यते । स्कन्धात् पृथग्भूतस्तु स एव परमाणुः । जीवादीनां प्रदेशास्तु जीवादिभ्योऽभिन्ना न पृथग् भवितुमर्हन्ति । यथा पृथग्भूतः केवलः परमाणुः स्वतन्त्रद्रव्यमेवाथ च स्कन्ध-सम्बन्धे सति प्रदेशशब्देन व्यपदिश्यते तथा जीवादिप्रदेशाः स्वतन्त्रतया द्रव्याणि न । अत एव पुद्गलप्रदेशेभ्यो जीवादिप्रदेशानां विजातीयत्वं विज्ञेयम् । अत एव च जीवादिप्रदेशाः परस्परं सम्बद्धा एकीभूता इव सर्वदाऽवतिष्ठन्ते ।

उक्तोऽजीवपदार्थः । वस्तुत एतौ द्वावेव पदार्थौ । नाभ्यामतिरिच्यते कश्चिदर्थः । ये च धर्माधर्माकाशकालपुद्गलजीवा उक्तास्तानि षड्द्रव्याण्यपि पूर्वोक्तरीत्या जीवाजीवान्तर्भूतान्येव । यान्यपि पुण्यादितत्त्वानि दर्शयिष्यन्ते तान्यपि यथासम्भवं जीवाजीवयोरन्तर्भवन्ति न पृथग्भवितुमर्हन्ति । ज्ञानादिरूपादिगुणानामुत्क्षेपणादिकर्मणां च कथञ्चिदभेदेन जीवाजीवद्रव्यान् सर्वथा पृथग्भावः साधीयान् । सामान्यविशेषादपि वस्तुस्वरूपावेव । समवाय-सम्बन्धोऽपि नैयायिकवैशेषिकाभिमतो न द्रव्याद् भेदेन स्थातुमर्हति । अभावं तु भावात्मकमाचक्षत एवार्हताः । यदाहुस्ताकिं कसार्वभौमाः श्रीयशोविजयगणयो न्यार्यालोके—एवमप्यभावस्याधिकरणात्मत्वसिद्धिः । एवं च स्थितेऽपि द्वौ पदार्थाविति सिद्धान्ते गोबलीवर्द्धन्यायेन विशेषप्रतिपत्त्यर्थं संसारनेर्गुणोपदर्शनद्वारेण निःश्रेयसमार्गसम्मुखीकरणार्थं च युक्त एव पृथगुपन्यासः पुण्यादितत्त्वानाम् ।

तत्र पुण्यं स्वर्गैश्वर्यादिप्रशस्तफलसम्पादनप्रगुणाः प्रशस्ता जीवाभिसंसृष्टाः कर्मवर्गणाः । तद्विपरीतं पापम् । आश्रूयतेऽनेन कर्मलक्षणमुदकं जीवरूपतद्भागे इत्याश्रवः । कर्मोपादानहेतुरित्यर्थः । कर्मोपादानं च मिथ्यात्वाविरतिकषाय-योगैर्भवति । तत्र मिथ्यात्वं वस्तुस्वरूपाद्विपरीतप्रतिभासः । हिंसानृतस्तेयावह्नापरि-

१ आदिपदाद् धर्माधर्माकाशाः ।

२ मुद्रितपुस्तके दशमपत्रे प्रथमपृष्ठ उपान्यपञ्चौ ।

३ वर्गणः समुदायः ।

४ आगम्यत आनीयत इति यावत् ।

ग्रहेभ्यो न विरतिरविरतिः । कषायाः क्रोधमानमायालोभाः । मनोवाकायव्यापारा
योगाः । शुभा योगाः पुण्यस्याशुभा योगाः पापस्य हेतवोऽवसेयाः । संवरः पूर्वोक्तानां
मिथ्यात्वादीनां कर्मोपादानहेतूनां विरोधः । अयमर्थः । यथा सरोवरोऽप्रतिरुद्धै-
र्द्वारैः प्रविष्टेन जलप्रवाहेण परिपूर्यते प्रतिकुद्धेपु तु द्वारेषु मनागपि न तत्र जलप्रवेशो
यथा यानपात्रे रन्ध्रद्वारेण जलं प्रविशति कृते तु रन्ध्रपिधानेन तत्प्रवेश एव-
रीत्या आश्रवद्वारैरप्रतिरुद्धैः कर्मद्रव्यप्रवेश आत्मनि भवति सम्यग्दर्शनविरति-
क्षमाद्रिगुप्तिमिश्र क्रमेण पूर्वोक्तानां मिथ्यात्वादीनामाश्रवद्वाराणां प्रतिरोधे
कृते न मनागप्यात्मनि कर्मद्रव्यं प्रविशति । तथा हि । सम्यग्दर्शनेन पूर्वोक्तल-
क्षणमिथ्यात्वाद्विपरीतलक्षणेन मिथ्यात्वं निगृह्यते । हिंसादिविरत्या च तद-
विरतिः प्रतिक्रियते । क्षमया क्रोधो मृदुत्वेन मान आर्जवभावेन माया
संतोषेण च लोभः पराभूयते । मनोगुप्त्या मनोयोगनिग्रहः । वाग्गुप्त्या वाग्यो-
गनिरोधः । कायगुप्त्या च काययोगप्रतिरोधः ।

उक्तावाश्रवसंवरो । निर्जरा तपसा कर्मनिर्जरणम् । देशतः कर्मोपक्षयः ।
अथ बन्धतत्त्वम् । अजन्तचूर्णपूर्णसमुद्रकवन्निरन्तरं पुद्गलनिचिते लोके कर्मयो-
ग्यपुद्गलैरात्मनः क्षीरनीरवद् बन्धयः पिण्डवद् बान्योन्याभिसंश्लेषात्मकः
सम्बन्धो बन्धः । स चतुर्धा—प्रकृतिः स्थितिरनुभागः प्रदेशश्च । तत्र प्रकृतिरष्टधा ।
ज्ञानावरणं दर्शनावरणं वेदनीयं मोहनीयमायुष्कं नाम गोत्रमन्तरायं च । तत्र चक्षु-
रावारकपटादिवद् ज्ञानावारकं कर्म ज्ञानावरणम् । एतस्यैव कर्मणो महिम्ना विदु-
षोऽपि कदाचित् स्मृतिभ्रंशादयो जायन्ते । यथा यथा परिपुष्टं भवत्येतत्कर्म तथा
तथा ज्ञानमात्रा ह्रासमापद्यते । यथा यथा चेदं कर्म शिथिलीभवति तथा तथा
ज्ञानप्रकाशो विशेषतः प्रसरति । सामस्त्येन चास्य कर्मणः परिक्षये सकलप-
दार्थप्रकाशः प्रादुर्भवति । दर्शनावारकं कर्म दर्शनावरणम् । एतत्कर्मबलेन
निद्रादयो भवन्ति । अन्धत्वबधिरत्वादिकमप्येतन्निबन्धनम् । सुसासुसजन-
नस्वभावं कर्म वेदनीयम् । अत एव तत् सातवेदनीयमसातवेदनीयमिति द्वेधा ।
मदिरावन्मोहयमानं कर्म मोहनीयम् । यथा मदिरापानाद् विमूढीभूतः पुमां-
स्तत्त्वविवेकविकलो भवति तथा मोहनीयकर्मणापि प्राणी सदसत्स्वरूपपरिज्ञा-
नशून्यो भवति । एतद् द्विधा दर्शनमोहनीयं चारित्रमोहनीयं च । प्रथमं त्रेधा
मिथ्यात्वं सम्यक्त्वं मिश्रं च । तत्र प्रथमे द्वे प्रागुक्ते । मिश्रं पुनर्गुणस्थानक्रमारोहे
श्रीरत्नशेखरसूरिराह—

जात्यन्तरसमुद्भूतिर्वडवासरयोर्यथा ।

गुडदध्नोः समायोगे रसभेदान्तरं यथा ॥

तथा धर्मद्वयश्रद्धा जायते समनुद्धितः ।

मिश्रोऽसौ भण्यते तस्माद्भावो जात्यन्तरात्मकः ॥

अथवा नालिकेरद्वीपवासिनो मोदकादाविव सत्यमार्गे न रागो न च द्वेष इत्येवम्भूतो योऽध्यवसायस्तन्मिश्रमोहनीयमित्यप्याहुः । अयमत्र भावार्थः— मिथ्यात्वपुद्गलकदम्बकं मदनकोद्रवन्धायेन परिशोधितं सद् विकाराजनकत्वेनाशुद्धं सम्यक्त्वमुच्यते । तदेव मिथ्यात्वपुद्गलकदम्बकं किञ्चिद्विकाराजनकत्वेनार्धविशुद्धं सन्मिश्रमुच्यते । यदा तु सर्वथाऽप्यशुद्धं तत् तदा मिथ्यात्वमिति । चारित्रमोहनीयं पुनः क्रोधादिकषायहास्यादिनोकषायरूपम् । तत्र क्रोधादिकषायाश्रत्वारः प्रागुक्ताः । हास्यादयस्तु नव—हास्यं रतिररतिर्भयं शोको जुगुप्सा पुरुषवेदः स्त्रीवेदो नपुंसकवेदश्च । एते कषायसहचारित्वाच्चोक्तषाया उच्यन्ते नोशब्दस्य साहचर्यवचनत्वात् । कषायोद्दीपनाद्वा नोकषायाः । आयुष्कर्म सुरनरतिर्यङ्मनरकायुर्भेदाच्चतुर्विधम् । नामकर्म समाप्तो द्विधा शुभमशुभं च व्यासतस्तु नानाविधम् । यथा चित्रकृद्विविधं चित्रं निर्माति तथा नामकर्मोपपद्यमानुष्योऽयं बलवानयं पशुरसौ निर्बलः स रूपवानेष कुरूपोऽसौ सुस्वरः स दुःस्वर इत्याद्यनेकप्रकारं विपरिणामं जीवेषूपजनयति । गोत्रं कर्म द्वेधा । उच्चगोत्रं नीचगोत्रं च । उच्चनीचगोत्रव्यवहारः सर्वत्र प्रकारान्तरेण सम्भवति । अन्तरायं कर्म पञ्चधा । तत्र सत्यापि देये वस्तुन्यागते च गुणवति पात्रे जानन्नपि दानफलं यदुदयाभोरेसहते दातुं तद्दानान्तरायम् । तथा विशिष्टेऽपि दातरि विद्यमानेऽपि च देये वस्तुनि याच्चाकुशलोऽपि याचको न लभते यदुदयात्तल्लभान्तरायम् । यस्योदयात्सत्यापि विभवादौ सम्पद्यमानेऽपि चाहारमाल्यादौ विरतिहीनोऽपि न भुङ्के तद् भोगान्तरायम् । सद्यपि वस्त्राभरणादि नालमुपभोक्तुं यस्योदयात्तदुपभोगान्तरायम् । यदुदयाच्च बलवान्नीरोगोऽपि तृणकुट्टजीकरणेऽप्यशक्तः स्यात्तद्वीर्यान्तरायम् ।

अथ केन प्रकारेण पूर्वोक्तं कर्मोष्टिकं बध्यते तदुपदर्श्यते । ज्ञानस्य ज्ञानवतां ज्ञानसाधनानां च दर्शनस्य दर्शनवतां दर्शनसाधनानां च मात्सर्याऽन्तरायोप-
घातादिकरणेन ज्ञानावरणदर्शनावरणयोर्बन्धः । दुःखशोकतापाक्रन्दनवधपरि-
श्वेनान्यात्मपरोभयस्थान्यसातवेदनीयस्य कर्मणो बन्धहेतवः । भूतानुकम्पा-
दानक्षान्त्यादयः सातवेदनीयस्य । परमर्षीणां धर्मशास्त्रस्य देवतादीनां चावर्ण-
वादो दर्शनमोहनीयस्य । कषायोदयात् तीव्रसंश्लेषपरिणामश्चारित्रमोहनीयस्य ।
बह्वारम्भपरिग्रहत्वं नारकस्थायुषः । माया तैर्यग्योनस्य । अल्पारम्भपरिग्रहत्वं
स्वभावमार्दवार्जवं च मानुषायुषः । सरागसंयमदेशसंयमबालतपआदयो देवा-
युषः । मनोवाक्काययोगवक्रत्वपरप्रतारणादयोऽशुभस्य नाम्नः । विपरीतं शुभ-
नाम्नः । परनिन्दात्मश्लाघाः सप्तसङ्ख्याच्छादनोद्भावे च नीचगोत्रस्य ।
विपरीताश्चोच्चगोत्रस्य । विघ्नकरणमन्तरायस्य ।

उक्तः प्रकृतिबन्धः । स्थितिबन्धस्तु आत्मगृहीतानां कर्मपुद्गलानां स्थिति-
कालनियमनम् । आद्यानां तिसृणां कर्मप्रकृतीनामन्तरायस्य चोत्कृष्टा स्थिति-
स्त्रिंशत्सागरोपमकोटीकोट्यः । सप्ततिसागरोपमकोटीकोट्यो मोहनीयस्य । नाम-
गोत्रयोर्विंशतिः सागरोपमकोटीकोट्यः । आयुष्कस्य त्रयस्त्रिंशत्सागरोपमाणि ।
जघन्या स्थितिः पुनर्वेदनीयस्य द्वादशमुहूर्ताः । नामगोत्रयोरष्टौ । शेषाणा-
मन्तर्मुहूर्तम् । कर्मपुद्गलानामेव शुभोऽशुभो वा धात्यघाती वा यो रसः स
एवानुभागबन्धो वा रसबन्धो वा । कर्मपुद्गलानामेव स्थितिरसनिरपेक्षं दलि-
कसंख्याप्राधान्येनैव यद् ग्रहणमसौ प्रदेशबन्धः । प्रकृतिस्थितिरसप्रदेशश्च

१ क्रियते कषायादिदोषैः कर्मद्रव्यमात्मना बध्यते इति कर्म । तच्च पुद्गलरूपम् ।
अत एव निगडादिनेव कर्मणा बध्यते जीवः । नैयायिकास्तु जीवस्य गुणः कर्मसौगताः
वासनास्वरूपे कर्म कापिलाः पुनः प्रकृतिविकारः कर्म ब्रह्मवादिनश्चाविद्यास्वभावं
कर्मेति परिभाषन्ते । परन्तु पूर्वोक्ताऽनुभवेन पौद्गलिकरूपमेव कर्मेति सिद्धान्त
आह्वितानाम् ।

२ सागरोपमोऽतिदीर्घतमः कालविशेषः । अस्य स्वरूपं पञ्चमकर्मग्रन्थे देवे-
न्द्रसूरिनिर्मिते द्रष्टव्यम् ।

३ कोट्या गुणिता कोटी कोटीकोटी ।

४ अतिसूक्ष्मतमः कालः समग्रशब्देनोच्यते यस्मात् सूक्ष्मसमर्थो नास्ति । नवम्य
एकसमर्थोनमुहूर्तान्तं यावदन्तमुहूर्तं भवति ।

मोदकदृष्टान्तेन भाव्याः । तद्यथा । मोदको वातपित्तकफान्यतमविनाशिद्व्योत्यन्नस्तदन्यतमं यथोपशमयत्येवं ज्ञानावरणादिकर्मणोऽपि ज्ञानाच्छादनस्वभावा प्रकृतिः । एवं शेषमप्यूह्यम् । स एव मोदको यथा मासं पक्षमेकदिनमपि वा तिष्ठति तथैव कर्मणोऽपि ज्ञानावरणादेस्त्रिंशत्सागरोपमकोटीकोट्यादिः स्थितिः । रसः पुनर्मोदके स्निग्धमधुरादिरूप एकगुणो द्विगुणस्त्रिगुणोऽपि वा भवति तथैव कर्मणोऽप्येकस्थानिकद्विस्थानिकत्रिस्थानिकादिरूपः । प्रदेशा यथा मोदका एकप्रसुतिप्रमाणाः प्रसुतिद्वयत्रयसेतिकादिप्रमाणा वा भवन्ति तथा कर्मण्यप्यल्पबहुबहुतमादिरूपा वेदितव्याः ।

नवमं तत्त्वं मोक्षः । सकलकर्मक्षयो मोक्षः । स च केवलज्ञाने सत्येव । केवलज्ञानं च ज्ञानावरणदर्शनावरणान्तरायाणां मोहनीयकर्मप्रक्षयादानु प्रक्षये जाते प्रादुर्भवति । एतत्कर्मचतुष्काच्छेषं कर्मचतुष्कमघातिशब्देनोच्यते । अधातिकर्माणि भवाधारत्वाद्भवोपग्राहिशब्देन व्यपदिष्टानि । सत्त्वेतेषु हि भवरूपः प्रासादोऽवतिष्ठते । एषां च प्रक्षये स प्रासादस्तत्क्षणमेव भज्यते ।

केवलज्ञानिनो द्वेधा तीर्थङ्कराः सामान्यकेवलिनश्च । येषां तीर्थङ्करनामकमादयो नास्ति ते केवलिनः सामान्यकेवलिन उच्यन्ते । ये तु तीर्थङ्करनामकर्मोदययुक्तास्ते तीर्थङ्करा ईश्वराः परमेश्वराः । तीर्थं प्रवचनं तत्प्रकाशकत्वात् तीर्थङ्करत्वम् । तीर्थं साधुसाध्वीश्रावकश्राविकालक्षणश्चतुर्विधः सङ्गस्तत्स्थापकत्वाद्वा तीर्थङ्करत्वम् । तीर्थङ्कराश्च तीर्थङ्करनामकर्मोदयमहिम्ना परमातिशयसाम्राज्यचमत्कृतसकलसुरासुरनरेन्द्रयोगीन्द्राः देवेन्द्रैरहमहमिकया परिषेव्यमाणा धर्मदेशनाद्वारेण जगज्जनाननुगृह्णन्ति । एतेषां परमात्मनां शिष्यीभूयैतेषामुपदेशमवलम्ब्य ये महाप्राज्ञा विशिष्टशक्तिसम्पन्नाः परमपुण्यभाजो द्वादशार्द्धां ग्रथ्यन्ति ते गणधरा उच्यन्ते । अङ्गानि चामूनि । आचाराङ्गं सूत्रकृताङ्गं स्थानाङ्गं समवायाङ्गं भगवती ज्ञानधर्मकथोपासकदशाऽन्तकृद्दशाऽनुत्तरोपपातिकदशा प्रश्नव्याकरणं विपाको दृष्टिवादश्चेति । तत्र दृष्टिवादो व्यवच्छिन्नः । शेषाणि चाङ्गानि तत्कालापेक्षया सङ्क्षिप्तानि वर्तन्ते सम्प्रति । अन्यान्यप्युपाङ्गादीनि बहून्यागमशास्त्राणि गणधरशिष्यप्रशिष्यगुंफितानि सन्ति वर्तमाने ।

स च केवली भगवानाद्युपरिसमाप्तौ सत्यामघातिकर्मप्रक्षय एव देहपञ्जरान्निर्गत्य समभ्रेण्योर्ध्वं याति यावद्व्योक्तान्तमेकसमयेन तथा स्वाभाव्यात् ।

लोकान्तात् परतो धर्मास्तिकायाभावाच्च गमनसम्भवः । लोकान्तादधःपातोऽपि
गुरुत्वाभावादसम्भवः । प्रेरकाभावाच्च तिर्यग्गतिरप्यसम्भविनी । ऊर्ध्वमध-
स्तिर्यग्गमनं हि जीवानां कर्मजन्यम् । क्षीणसकलकर्मणां पूर्णब्रह्मणां सिद्धानां
तु स्वभावत एवोर्ध्वगतिः । ते सिद्धाः कुत्र समवस्थिता इत्यत्राह भगवानुमास्वा-
तिस्तत्त्वार्थसूत्रपर्यन्ते—

मनोज्ञा सुरभिस्तन्वी पुण्या परमभासुरा ।

श्राम्भारा नाम वसुधा लोकमूर्ध्नि व्यवस्थिता ॥

नृक्षेत्रतुल्यविष्कम्भा सितच्छत्रनिभा शुभा ।

ऊर्ध्वं तस्याः क्षितेः सिद्धा लोकान्ते समवस्थिताः ॥

घातिकर्मचतुष्कप्रक्षये क्रमतश्चत्वारोऽक्षय्याः सदावस्थायिनो गुणाः
सम्पद्यन्ते । तथा हि । ज्ञानावरणविध्वंसे केवलज्ञानं दर्शनावरणविनाशे केवल-
दर्शनं मोहनीयनिर्घाते परमोज्ज्वलं चारित्रम् । एते गुणास्तु जीवन्मुक्तानां देह-
वतां प्रत्यक्षीकारनिर्देश्यानां परमात्मनां घातिकर्मप्रक्षयसमुत्थाः सम्भवन्त्येव ।
आयुःपरिसमाप्तौ चाघातिकर्मप्रक्षयजन्या अन्ये पुनरनन्तसुखादिगुणा अभीष्टां
प्रादुर्भवन्ति । मुक्तीभूतानां भगवतां परब्रह्मणां देहेन्द्रियाद्यभावादैन्यद्रियक-
सुखासम्भवेऽप्यात्मस्वभावं सुखमाविर्भवति । तस्यानन्तभागेऽपि सकलभुवने-
न्द्राणामैश्वर्यसुखमहाकरो नोपपद्यते । अकर्मकीभूतः परमात्मा न पुनः
कर्मवानर्हति भवितुम् । न हि क्षीरात् समुद्धृतमाज्यं पुनः क्षीरतां व्रजति ।
यथा च रसेन्द्रेण नीताः शातकुम्भतां धातवो न पुनरावृत्तये भवन्त्येव-
मकर्मकीभूतो निरञ्जनः सिद्धो न भवेत् पुनः कथमपि कर्मवान् । एतेनेदमपि
प्रज्ञप्तं भवति । मुक्तिं प्राप्य न पुनरवोऽवतारः सम्भवति । आह च महर्षि-
रुमास्वातिर्वाचकमुख्यस्तत्त्वार्थसूत्रपर्यन्ते—

दग्धे बीजे यथाऽऽयन्तं प्रादुर्भवति नाङ्कुरः ।

कर्मबीजे तथा दग्धे न रोहति भवाङ्कुरः ॥

परमात्मानो हि परमवीतरागाः । न तस्मादेषां संसारेण किमपि
प्रयोजनं येन पुनः संसारमाविशेयुरिति जैनसिद्धान्तः । इदमपि जैनसिद्धा-
न्ताभिमतम् । कर्मक्षयस्य करणेन भवतीश्वरो न पुनर्नित्यमुक्तः कश्चिदेकः
सनातन ईश्वरः । उक्तं हि सम्मतिप्रकरणवृत्तौ^१ न्यायचक्रवर्तिना श्रीमदभय-

देवसूरिणा—तत्र रागादिक्लेशविगमः स्वभावत एवेश्वरस्येति युक्तमिति । उपायबलेन ह्युपेयसिद्धिरुपायव्यतिरेकेणोपेयसिद्धेरसम्भवात् । तथाचेश्वरत्वमपि यदि नोपायसिद्धं तर्हि सर्वेषामपि तत्सम्भवः स्यान्न वा कस्यापि । उक्तं हि सौगतेन धर्मकीर्तिनाऽपि—

नित्यं सत्त्वमसत्त्वं वाऽहेतोरन्यानपेक्षणात् ।

अपेक्षातो हि भावानां कादाचित्कत्वसम्भवः ॥

अत एव जैना ईश्वरं प्रतिषद्यमानाः सेवमाना उपासीना ध्यान-
गोचरीकुर्वाणा अपि नाचक्षते जगत्कर्तारम् । तेषां ह्ययमेवाऽभिप्रायः ।
परमवीतरागस्येश्वरस्य न किञ्चिज्जगत्सृष्टौ प्रयोजनं सम्भवति । परमकृतार्थ-
त्वात् । न च निष्प्रयोजनस्य जगत्सृष्टिचेष्टोपपत्तिमती । ईश्वरस्यानादितया
स्वीकर्तृणां जगतोऽप्यनादित्वेन स्वीकारे न किञ्चिद् दूषणापातः । प्रतिक्षणं
विपरिणममानमपि जगद् द्रव्यशक्तितः सनातनमेव । समूलनाशायोगात् । मुक्ते-
रनादित्वेन मुक्तिस्थानामप्यनादित्वात् सुतरामीश्वरस्याऽनादित्वसिद्धिर्जनप्रव-
चनेऽपि । मुक्तेरनादित्वादेव च संसारस्याऽप्यनादित्वं सुतरां सिध्यति ।

ईश्वरस्य वीतरागत्वेन निग्रहानुग्रहकारित्वाभावेऽपि तदुपासना परमा-
वश्यक्री । शुद्धालम्बनेन मनसः शुद्धिभावेन सर्वार्थसिद्धेः । यादृशं ह्यालम्बनं
तथारूप उपरागो मनस्युपजायते । यथा चाग्निं सेवमानस्य शीतार्तिरूपशाम्यति
तद्वद्वीतरागं परमेश्वरमुपासीनस्य रागार्तिरूपशाम्यति ।

अन्यच्च । आर्हतानामयं मूलमन्त्रः—सर्वे सलु भावाः स्याद्वादमुद्राडिताः ।
स्याद्वादमन्तरेण वस्तुस्वरूपानुपपत्तेः । स्याद्वादो हि सापेक्षतथैकस्मिन् धर्मिणि
सदसत्त्वनित्यानित्यत्वाद्यनेकधर्माभ्युपगमः । सर्वे हि वस्तु स्वरूपेण सत्
पररूपेण चासत् कटककुण्डलादिपर्यायेण चानित्यं स्वर्णमृत्तिकादिमूलद्रव्येण
च नित्यं सर्वेषां प्रतीतिपथमारोहति । इदं च तत्त्वं श्रीहरिभद्रसूरिणादै-
रनेकान्तजयपताकायां बहु विवेचितमस्तीति तद्विषयिणी जिज्ञासा तत एव
सम्यग्गुणशाम्यति । अधिकजिज्ञासुमहाशयैः कर्मग्रन्थतत्त्वार्थसूत्रलोकप्रकाश-
विशेषावश्यकदायो ग्रन्था अवलोकनीयाः । इह त्वेतावदेव वक्तुमुचितं मत्वा
विरमति—

विजयधर्मसूरिः ।

Philosophy

ANCIENT INDIAN LOGIC : AN OUTLINE

BY SATIS CHANDRA VIDYABHUSHAN

THE system of Philosophy called Nyaya¹ in India approaches the science known as Logic in Europe. This system was founded by a sage named Aksapada of the clan of Gautama who is traditionally known to have resided in Mithila (modern Darbhanga in North Behar) probably until his retirement into Prabhasa,² the well-known sacred place of pilgrimage in Kathiawar on the sea-coast. This Aksapada, better known as Gautama, is supposed to have lived about 550 B. C, as Jatukarnya, his contemporary, was a pupil of Asnrayana and Yaska,³ whose date is generally fixed as the middle of the 6th century before Christ.

The Pali canonical scriptures such as the Brahmajala-sutta, ITdana⁴ etc composed about 500 B. C. mention a class of Samanas and Brahmanas who were *hikkh* or *tukkiku* (logicians or rather sophists) and *vt mam si* (casuists) and indulged *hi takht* (logic or sophism) and *i him mm* (casuistry), alluding perhaps to the followers of Aksapada-Gautama. 'Anumana-sutta' is the title of a chapter of the Majjhima Nikaya, while the word 'vada' in the sense of discussion, occurs in another chapter of the same Nikaya/ The Kathavatthupparakana,¹ another Pali work which was composed in the reign of Asoka about 255 B. C,

1 Logic is designated in Sanskrit not only by the word 'Nyaya' but also by various other words which indicate diverse aspects of the science. For instance it is called 'Hetuvidya' or 'Hetu-sastra' the science of causes, 'Anviksiki' the science of inquiry or inference, 'Pramana-sastra,' the science of evidences or proofs, 'Tattva-sastra,' the science of categories, 'Tarka-vidya,' the science of reasoning, 'Vadārtha,' the science of discussion, and 'Phakkika-sastra,' the science of sophism.

2 Vide Ramayana, adikanda, sarga 48, verses 11-15 ; and Brahmanda Purana, adhyaya 23, verses 201-203.

3 Vide Satapatha Brahmana, Yajnavalkya kanda.

4 Brahmajala-sutta 1-32 ; Udana vi, 10.

5 Majjhima Nikaya, Vol. I, 15th sutta, and Vol. II, 6th sutta,

6 Kathavatthupparakana, chapter I.

mentions *pati?lna* (a proposition), *upanaya* (an application of reason) and *niggalui* (occasion for rebuke) etc., which are technical terms of the Nyaya philosophy of Aksapada-Gautama. In the Pali Dhammasangani¹ composed about 450 B. C. there is a division of knowledge (*vifliiana*) into six kinds, viz. visual (*cakkhu*) auditory (*sota*), olfactory (*ghana*), gustatory (*jivha*), tactual (*kaya*) and mental (*mano*). The Pali Milinda Panha,² composed about 100 A.D., mentions Logic under the name of 'Niti' while the Buddhist Sanskrit work, Lalitavistara, which was translated into Chinese circa 221-263 A. D., designates it as 'Hetu-vidya'.³ In the Madhyamika Karika⁴ of Nagarjuna, dated about 300 A. D., we come across some technical terms of Logic such as *punamlda* (repetition) in chap. ii., *siddhasU-dhana* (proving the proved) in chap. iii., and *mdhyasama* (petitio principii) in chap. iv.; but an explicit reference to 'Nyaya' (Logic) is to be found in another Buddhist Sanskrit work called Lankavatara Sutra (composed about 300 A. D.) where teachers of Logic are mentioned by the name of *natyayika* (logicians).⁵ About 400 A. D. began a period when a large number of Buddhist writers gave their undivided attention to the study of Nyaya and laid the foundation of the Mediaeval School of Indian Logic.

Although the Jainas claim that in the 12th *ahga* (book) of their scripture called Drstivada, there was embodied a treatise on Logic, yet as that anga disappeared, according to their tradition, by 474 A. D., we cannot say anything about the treatise. In the Jaina Prakrit scriptures such as Nandi Sutra, Sthanahga Sutra, BhagavatI Sutra etc., compiled by Indrabhuti Gautama about 500 B. C, there is a

1 Vide Dhammasangani as well as Ahguttara NikSya, I I I . , 618.

2 Vide Rhys Davids' Introduction to Questions of King Milinda in the S. B. E. series.

3 Lalitavistara, chap. XII . , p. 179, Rajendralal Mitra's edition.

4 Vide Satis Chandra Vidyabhusana's Indian Logic: Mediceval School, p. 68.

5 Lankavatara Sutra, chap. II . As to the date of this work, vide my article in J. A. S. B. Vol. I. No. 6, 1905; and also my article in J. R. A, St for October 1905,

division¹ of *hetu* or the means of knowledge into preception (*pratyaksa*), inference (*anumana*), comparison (*upamana*) and verbal testimony (*agama*), which indicates that this doctrine was either borrowed by Indrabhuti from Aksapada-Gautama or was the common property of both, *Hetu* used in the sense of inference (*anumana*) is classified, in the Sthananga Sutra already referred to, according to the following types—1 This *is*, because that *in*: There is a fire, because there is smoke. 2 This *is not*, because that *is*: It is not cold, because there is a fire. 3 This *is*, because that *is not*: It is cold here, because there is no fire. 4 This *is not*, because that *is not*: There is no *simsapa* tree here, because there are no trees at all.

Umasvati, who flourished in Fataliputra and attained nirvana in 85 A. P., was the famous author of the Tattvarthadigama Sutra which follows the Anuyogadvara Sutra, Sthananga Sutra, Nandi Sutra etc., in its treatment of the doctrines of *jñana* (knowledge) and *nyāya* (the method of comprehending things from particular stand-points). *Jñāna* is divided into *pratyaksa* (direct knowledge) and *paroksa* (indirect knowledge). Direct knowledge, which is acquired by the soul without the intervention of external agencies, is of three kinds, viz. *acādi* (the knowledge of things beyond the range of our perception), *manahpariyaya* (the knowledge derived from reading the thoughts of others) and *kevala* (the unobstructed, unconditional and absolute knowledge). Indirect knowledge, which is acquired by the soul through the medium of the senses and the mind, includes *mati* (knowledge of existing things acquired through the senses) and *sruta* (knowledge of things—past, present and future—acquired through reasoning and study). In the Anuyogadvara Sutra as well as in the Tattvarthadigama Sutra, *nyāya* is divided into seven kinds as follows—1 *Nai (jama)*, the non-distinguished (a method by which an object is regarded as possessing both general and specific properties, no distinction being made

1 Vide Sthanahga Sutra, p. 309-310, published by Dhanapat Sing, Calcutta.

between them, e. g. when we use the word 'bamboo' wa indicate a number of properties some of which are peculiar to the bamboo while others are possessed by it in common with other trees). 2 *Saihgrahn*, the collective (a method which takes into consideration generic properties only, ignoring particular properties). 3 *Vyavahara*, the practical (a method which takes into consideration the particular only, e. g. in being asked to bring a plant one can bring only a particular plant but cannot bring plant in general). 4 *Rjusutra*, the straight expression (a method which considers a thing as it exists at the moment without any reference to its past or its future: it recognises only the entity (bhava), and not its name (nama), image (stha-pana) or the causes which constituted it (dravya), e.g. the fact that a cowherd is named Indra does not make him Lord of the heavens, or the image of a cowherd cannot perform the functions of a cowherd, etc.). 5 *Sumprata* (a method which consists in using a word in its conventional sense, even if that sense is not justified by its derivation, e. g. the word *satru*, according to its derivation signifies a 'dostroyer' but its conventional meaning is an 'enemy'). 6 *Samabhiruclha* (a method which consists in making nice distinctions between synonyms, selecting in each case the word which on etymological grounds is the most appropriate). 7 *Enamiihuta* (a method which consists in applying to things such names only as their actual condition justifies, e. g. a man should not be called *Sakra*, strong, unless he actually possesses the *sakti*, strength, which the name implies).

Bhadrabahu, who is said by some authorities to have lived during 433-357 B. C. but who according to others lived in the 6th century A. D., gives in his *Dasavaikalika Nir-yukti* an example of a syllogism consisting of 10 parts. About the 5th century A. D. some of the Jainaphilosophers devoted themselves to the cultivation of Nyaya and co-operated with the Buddhists in founding the Mediaeval School of Indian Logic.

The Nyaya Philosophy or Logic, encouraging as it did independent discussion, could not at its early stage acquire

great popularity in a country where the authority of the Vedas was accepted as final. The sage Jaimini¹ in his *Mlmaiisa Sutra* distinctly says that as the Veda has for its sole purpose the prescription of actions, those parts of it which do not serve that purpose are useless. We are therefore not surprised to find Manir enjoining excommunications upon those members of the twice-born caste who disregarded the Vedas and Dhamia-sutras relying upon the support of Hetusastra or Logic. Similarly Valmlkr in his *Ramayana* discredits those persons of perverse intellect who indulge in the frivolities of Anvlksikl, the science of Logic, regardless of the works of sacred Law (Dharma-Bdstra) which they should follow as their guide. Vyasa⁴ in the *Mahabharata* relates the doleful story of a repentant Brahman who, addicted to Tarka-vidya (Logic) carried on debates, divorced from all faith in the Vedas and was, on that account, turned into a jackal in his next birth as a penalty. In another passage of the *Santiparva*" Vyasa warns the followers of the Vedanta philosophy against communicating their doctrines to a Naiyayika or Logician. Vyasa does not even to review the Nyaya system in the *Brahma-sutra* (ii. 2.17), seeing that it has not been recognised by any worthy sage. Stories of infliction of penalties on those given to the study of Nyaya are related in the *Skanda Purana*⁶ and other works; and in the *Naisadha-carita*, we find Kali satirizing the founder of Nyaya philosophy as 'Gotama' the 'most bovine' among sages.

There were nevertheless persons who welcomed the science of Logic, and applied its principles to systematize other branches of learning, and when Logic, instead of relying entirely upon reasoning, came to attach due weight

1 *MlmSnsa-sutra* i. 2. 1.

2 *Manu-samhitai* ii. 11.

3 *Ramayana*, *Ayodhya Kancja*, sarga 100, verse 36.

4 *Mahabharata*, *Santiparva*, adhyaya 180, verses 47-49.

5 *Adhyaya* 246, verse 18.

6 *Kalika Khaitfa*, chap. 17.

to the authority of the Vedas, it came to be regarded as an approved branch of learning. Thus the Gautama Dharma-sutra¹ prescribes a course of training in Logic (Nyaya) for the king, and acknowledges the utility of that science (Tarka) in the administration of justice, though in the case of conclusions proving incompatible, ultimate decision is directed to be made by reference to persons versed in the Vedas. Manu² says that dharma or duty is to be ascertained by logical reasoning not opposed to the injunctions of the Vedas. He recommends Logic (Nyaya)"* as a necessary study for a king, and a logician to be an indispensable member of a legal assembly. Yajnavalkya⁴ counts Nyaya or Logic among the fourteen principal sciences, while Vyasa⁶ admits that he was able to arrange and classify Upanisads with the help of Anvlksiki or Logic. In the Padma Purana⁰ Logic is included among the fourteen principal branches of learning promulgated by God Visnu, while in the Matsya Purana⁷ Nyaya-vidya together with the Vedas is said to have emanated from the mouth of Brahma himself. In fact so wide-spread was the study of Nyaya that the Mahabharata is full of references to that science.

In the Adiparva⁵ of the Mahabharata Nyaya or Logic is mentioned along with the Veda and Cikitsa (the science of medicine), and the hermitage of Kasyapa is described as being filled with sages who were versed in the logical truths (nyaya-tattva), and knew the true meaning of a proposition (sthapana) objection (aksepa) and conciu-

1 Gautamn-Dharnia-sutra, chap. XI.

2 Manu-saiiihita, Book XII, verse 106.

3 Manu-saiiihita, Book VII, verse 43, and Book XII, verse 111.

4 Yajfiavalkya-samhita, chap. 1, verse 3.

5 Mahabharata quoted by Visvanatha in his Vrtti on the Nyaya-Batra i. 1. 1.

6 Padma Purana, vide Muir's Sanskrit Texts, Vol. III, p. 27.

7 Matsya Pur5na, iii. 2.

8 Mahabharata, Jldiparva, adhyaya 1, verse 57; and adhyaya 70, verses 42-45.

sion (siddhanta). The Santiparva¹ refers to numerous tenets of Nyaya supported by reason (hetu) and scripture (agama), while the Asvamedhaparva² describes the sacrificial ground as resounding with arguments and counter-arguments employed by logicians (hetuvadin) to vanquish one another. In the Sabhaparva³ the sage Narada is described as being versed in Logic (nyayavid) and skilful in distinguishing unity and plurality (aikya, and nanatva), conjunction and co-existence (samyoga and samavaya), genus and species (parapara) etc., capable of deciding questions by evidences (pramana) and ascertaining the validity and invalidity of a five-membered syllogism (pancavayava-vakya). In fact the Nyaya (Logic) was in course of time deservedly held in very high esteem.

The work in which Aksapada or Gautama embodied his teachings on Logic is called the Nyaya-sutra. It is divided into five books, each containing two chapters called *aim than* or diurnal portions. It is believed that Aksapada finished his work on Nyaya-sutra in ten lectures corresponding to the ahnikas referred to above. We do not know whether the whole of the Nyaya-sutra, as it exists at present, was the work of Aksapada, nor do we know for certain whether his teachings were committed to writing by himself, or transmitted by oral tradition only. It seems to me that it is only the first book of the Nyaya-sutra containing a brief explanation of the sixteen categories that we are justified in ascribing to Aksapada, while the second, third and fourth books which discuss particular doctrines of the Vaisheshika, Yoga, Mimamsa, Vedanta and Buddhist Philosophy bear marks of different hands and ages. In these books there are passages quoted almost verbatim from the Lankavatara Sutra,⁴ a Sans-

1 Mahabharata, Santiparva, adhyaya 210, verse 22.

2 Mahabharata, Asvamedhaparva, adhyaya 85, verse 27.

3 Mahabharata, Sabhaparva, adhyaya 5, verses 3-5.

* 4 Nyaya-sutra iv. 2. 20 which quotes the Lankavatara Sutra (dated about 300 A. 1.).

krit work of the Yogacara Buddhist Philosophy, from the Madhyamika Sutra¹ of Nagarjuna and from the Sataka² of Aryadeva—works which were composed in the early centuries of the Christian era. The fifth book, treating of the varieties of futile rejoinders and occasions for rebuke, was evidently not the production of Aksapada who dismissed these topics in the first book without entering into their details. The last and the most considerable additions were made by Vatsyayana otherwise known as PaksilaSvamin who, about 400 A. D., wrote the first regular commentary, 'Bhasya,* on the Nyaya-sutra, and harmonised the different, and at times conflicting, additions and interpolations by the ingenious introduction of Sutras of his own making which he fathered upon Aksapada.

Vatsyayana, otherwise known as PaksilaSvamin, must have flourished before Dinnaga,³ as the latter criticises him in connection with the explanation of the Nyaya-sutra i. 1.4, and possibly also before Vasubandhu⁴ whose theory of syllogism, so antagonistic to that of Aksapada, has not been controverted, nay even referred to, by Vatsyayana in his commentary on Nyaya-sutra i. 1. 37. The Nyaya-sutra, as has been already observed, contains certain aphorisms which refer to the doctrines expounded in such well-known Buddhist works as the Madhyamika-sutra,⁵ the Lankavatara-sutra⁶ etc. These aphorisms do not constitute an essential part of the Nyaya-sutra and were evidently interpolated into it before or during the time of Vatsyayana who wrote a commentary on it. Vatsyayana must therefore have flourished after the composition of the

1 NySya-sBtra ii. 1. 39 and iv. 1. 68 which criticise the Madhyamika Sutra.

2 NySya-sHtra iv. 1. 48 which criticises the Sataka of Aryadeva.

3 Compare PramSna-samuccaya, chap. 1—

4 Vide Nyayavatara, verse 20.

5 NySya-sBtra iv. 1. 39, iv. 1. 48, ii. 1. 19, iv. 2. 32, ii. 1. 37, and MSdhyaraika-sBtra, chaps. 1, 7, and 2.

6 Nyaya-sutra iv. 2. 26, iii. 2. 11; and Lankavatara, chaps. 2 and 6,

Buddhist works, the doctrines of which are referred to and criticised in the Nyaya-sutra. Hence the earliest limit of his age is A. D. 300, when the Madhyamika Sutra and the Lahk&vatara are supposed to have been composed.¹ As Dihnaga² lived about 500 A. D. and Vasubandhu* about 480 A. D., Vatsyayana who preceded them could not have lived after the latter date. Taking the mean between the earliest and the latest dates of his age, we may approximately place Vatsyayana at about 400 after Christ.

Vatsyayana, also designated as Dramila (same as Dravida), was in all probability a native of Dravida (the Deccan) of which the capital was Kanclpura, modern Conjeeveram. The title Svamin appended to Paksila in the name 'Paksila Svamin' also points to the same country as his birth-place. We may add that KancI was a centre not only of Brahmanic learning, but also of Buddhistic culture, and it was here that Dihnaga (500 A. D.) and Dharmapala (600 A. D.) and other Buddhist logicians lived the flourished. It may be of some interest to note that Vatsyayana makes a reference to the boiling of rice⁴ which is a staple food of the people of Dravida at about 400 A. D., when Candragupta II, called Vikramaditya, was king of Magadha. This Vatsyayana should not be confounded with the sage or sages of that name who compiled the Artha-sastra and the Kama-sutra.⁵

Dihnaga, a famous Buddhist logician, having criticised the Nyaya-siitra as explained by Vatsyayana, Uddyotakara, a Brahman logician, wrote a sub-commentary on it called the Nyaya-vartika. In it he mentions a Buddhist treatise on Logic called the Vada-vidhi⁸ which is only another name for the Vada-nyaya by Dharmakirti.

1 Vide my *Indian Logic: Mediaeval School*, PP. 68-72.

² Loo. oit. pp. 80-81

3 Loc. cit, pp. 75-76.

4 Nyaya-bhasya, ii. 1, 40.

5 Vide my paper *Vatsyayana, author o/ the Nydya-bhasya* in the *Indian Antiquary* tot April 1915.

6 NySya-vSrfika 1. 33, pp. 121 (Bib. Ind. ed.)

On the other hand Dharmakirti in his *Nyaya-bindu* mentions a Sastra which evidently refers to the *Nyaya-vartika*, and to Sastrakara who seems to be the same as Uddyotakara.¹ Hence we conclude that Dharmakirti and Uddyotakara were contemporaries who flourished about A. D. 633.² Among the important men who lived in the same age, we may mention Subandhu the author of *Vasavadatta*, Bana the author of *Harsa-carita*, and king Sri Harsa of Thaneshvar during whose reign (629-644 A. D.) tho, Chinese pilgrim Yuan Chwang travelled through India.

The name Bharadvaja as applied to Uddyotakara is derived from the family to which he belonged, while he is called Pasupatacarya on account of his having been a preceptor of the Pasupata Saiva sect/ Nothing is definitely known as to the place where Uddyotakara was born. The only place mentioned by him is Srughna which is situated on the Western Jumna Canal, 40 miles north of Thaneshvar. It seems to me that Uddyotakara, while writing the *Nyaya-vartika*, resided at Thaneshvar which was connected with Srughna by a high road. It is not unlikely that Uddyotakara received sometime in his career patronage at the court of Thaneshvar.⁴

Dharmakirti and other Buddhist logicians having compiled treatises subversive of the interpretation of Uddyotakara and Vatsyayana, a Brahman philosopher of great erudition named Vacaspati Misra wrote, in support of the Brahman commentators, an elaborate gloss on the *Nyaya-vartika* called the *Nyaya-vartika-tatparya-tlka*. Vacaspati, who is reputed to be a native of Mithila (modern district of Darbhanga in North Behar), must have flourished in the 10th century A. D., as he compiled his *Nyaya-suci-nibandha* in the year 898 which, if referred to

1 *Nyayabindu*, chap. iii., pp. 110-11 (Bibl. Ind.)

2 See my *Indian Logic: Mediaeval School*, p. 105,

3 Vide *Nyaya-vartika*, colophon.

4 Vide my article *Uddyotakara, a contemporary of Dharmakirti* in J. R. A. S. for July, 1914; and *Nyaya-vartika* 1. 33.

Saka era, corresponds to A. D. 976.¹

Vacaspati in his turn was criticised by a host of Buddhist logicians, and it was to vindicate him against their attacks that Udayanacarya, a Brahman logician of Mithila and the well-known author of *Kusumanjali* and *Atmatattva-viveka*, wrote a sub-gloss on Vacaspati's work, called the *Nyaya-vartika-tatparya-tika-parisuddhi*. This Udayana was the author of another work called *Laksanavali*, in the introduction to which he says that he composed the book in the Saka year 906, corresponding to A. D. 984.²

Another Brahman logician who fought hard against the Buddhists was Jayanta, author of *Nyaya-mafijari*, who seems to have been a native of Kasmir and to have flourished in the 11th century. He quotes Vacaspati Misra³, and is himself quoted in the *Ratnavatarika*⁴ by the Jaina philosopher Ratnaprabha (1181 A. D.) and in the *Syadvadaratnakara*, chap. I I. ⁶ by Deva Suri (1086-1169 A. D.). The *Nyaya-mafijari* is an independent commentary on the *Nyaya-sutra*, in which Jayanta reviews the interpretations and criticisms of all his predecessors.

These are the principal Brahman commentators on the *Nyaya-sutra*. Subsequently there arose a host of commentators whose names are not mentioned here as they belong to the modern school of Nyaya in respect of their style and method of interpretation. The name of Bhasarvajna, author of *Nyaya-sara* is not mentioned here as he really belongs to the Mediaeval School.

From the short account given above it is evident that there is only one original treatise on Logic called the *Nyaya-sutra* which presents the ancient school. The works of Vatsyayana and his followers, though very comprehensive and ingenious, are mere commentaries.

1 न्यायसूचीनिबन्धोऽज्ञावकारि द्वाधिया छन्दे । श्रीवाचस्पतिमिश्रेण वक्ष्यन्वस्यसरे ॥

2 तर्कान्तराङ्गप्रामितेष्वतीतिह झकादतः । वर्षेष्टुयनश्चक्रे सुषोधा लक्षणावलीम् ॥

3 *Nyāya-mafijari*, p. 312 (Bib. Ind. ed.).

4 (*Ratnavatārikā*, chap. IV) तथा च जयन्तः—

स्वस्याङ्ग-ज्ञवत् कार्यं सहकार्युपबृंहितात् । न हि कल्पयितुं शक्ते शक्तिं etc.

5 यद्यत्र शक्तिसिद्धौ मज्जस्यदयनद्विषः । जयन्त इन्त का तत्र गणना स्वधि कीटके ॥

PRABHAKARA'S THEORY OF ERROR

BY GANGANATHA JHA

PRABHAKARA, like others, has divided cognitions into the two broad classes of 'valid' and 'invalid' cognitions; but his explanation of 'valid' and 'invalid' is entirely different from that provided by any other philosopher. That cognition he regards as 'valid' which bears directly upon its object, while 'invalid' cognition is that which does not so bear upon its object. In short, he would regard all *anubhuti*, 'apprehension,' as 'valid' and all '* remembrance' as 'invalid.' In accordance with this view Prabhakara defines 'Pramana' as *anubhuti*; i. e. 'valid cognition' is apprehension, as distinguished from remembrance, which is not valid, since it stands in need of a previous apprehension and is brought about only by impressions left on the mind by that apprehension.

The question now arises—If 'apprehension' and 'valid cognition' are convertible terms, how should we account for the wrong or erroneous apprehensions that we have in our ordinary experience? For example we sometimes *apprehend* (a) a piece of silver; (b) we perceive the conch as yellow, when our eye is affected with bile; (c) some derangement in vision makes us see two moons; and (d) in dreams we have the cognition of things not existent at the time. Are all these *apprehensions* valid?

Prabhakara's answer to this question is that these conceptions are not right or valid; they are erroneous; but they are erroneous, not because there is anything inherently invalid in them; but because they involve more factors than mere apprehension. The judgment 'this is silver' involves (1) the notion of 'this,' which is direct apprehension, and (2) the notion of 'silver,' which, in the absence of actual silver, can be only due to the remembrance of silver seen elsewhere,—this remembrance having been brought about by the perception of the quality of bright whiteness which is common to the thing before the eyes and the silver previously seen. Now so far as the notion

of 'this' is concerned—and it is only this notion that is *apprehension*—it is quite valid; there is nothing erroneous in it; the error comes in only in the notion of 'silver,* which is of the nature of remembrance, and as such by its very nature invalid. Thus we find that, in the case cited, what is wrong and invalid is not the apprehension, but the remembrance and the mixing up of the two in the form ⁴ 'this is silver.'

This explanation cannot dispose of case (b), viz. the erroneous cognition of the *white* conch as *yellow*, as there is no element of remembrance involved in it. Prabhakara's explanation of this erroneous cognition is still bolder. The notion is not erroneous, he says. We *perceive* the conch—there is nothing wrong in this; and we *perceive* the yellowness: Is this wrong? No, says Prabhakara. In any case how do we know that a certain cognition of ours is wrong? Only by finding out later, on a closer examination of the thing, that it is not as we perceived it. Now in the case of the yellow conch, the man perceives the conch as yellow,—and when he picks up the conch and looks at it closely, he still finds it to be yellow; and in as much as in actual experience his judgment, 'this conch is yellow/ is found to be in agreement with the nature of the thing as *he* perceives it, the cognition must be valid, at least so far as the man is concerned. This cognition has been likened by Prabhakara to the cognition of water as 'hot'; as a matter of fact water is not hot, it is cold, and yet it is felt as hot by reason of the heat of fire-particles hanging in it; in the same manner the conch is not yellow, it is white; and yet it is seen as yellow by reason of the yellow colour subsisting in the bile in the perceiver's eye. This cognition is further analysed: what happens is that the man perceives the conch, but fails to perceive the quality of whiteness; similarly he perceives the yellowness of the bile in his eye, but fails to perceive the substance to which that yellowness belongs. As no substance can be without qualities and no quality can subsist without a substance, the two perceptions coalesce

and give rise to the notion of the yellowness as belonging to the conch.

In the next case (c) of a person seeing two moons, what happens is as follows:—Rays of light emanate from the two eyes; and by reason of some derangement in the adjustment of the action of the two eyes, the two sets of rays fall upon the moon, not simultaneously as generally happens, but at different times; so that there is no chance of the two images of the moon on the two retinas coalescing and providing the vision of a single moon; hence it is only natural that the nerves leading up from the two retinas to the brain being active at different points of time, the perception produced is that of two moons. In this case therefore there are two distinct perceptions, and both of them are right.

In dreams, case (d), the things perceived are generally real things that we have seen before, and which are remembered during sleep. So that the whole being only remembrance, it is only natural that it should be invalid. There is no direct apprehension in dreams; hence there is no valid element in them.

Thus it is found that whenever we have actual apprehension there is nothing wrong in it; error comes in only when some element of remembrance creeps into it. All cognitions *per ae* are valid; and it is a misnomer to use the expression *wrong cognition.'

[Sources of information—(1) *Brhatl*—Prabhakara's commentary on Sabara-Bhasya, Ms. pp. 3-7; (2) *Jtjjuvi* mala*—commentary on the above, Ms. pp. 54-61; and (3) *Praharanapailcika*, Chaukhambha Sanskrit Series, pp. 32 and 63 J.

MATHARAVRTTI AND THK PATE OF ISVARAKRSNA

BY S. K. BELVALKAR

TPHE object of this paper is to announce the discovery of a very rare and ancient work on the Sakhya philosophy and, in the light of the data furnished by it, to examine the date of Isvarakrsna and other problems connected with the development of the Early Sakhya.

In the catalogue of Sanskrit manuscripts from Gujarat, Cutch, Sindh and Khandesh compiled under the superintendence of Dr. G. Biihler, fasc. iv, Bombay (1873), on page 8 we find the entry of a Sakhya work called Vyasaprabhakara by Vyasa. The Ms. (with another copy (2) of the same work) belonged to one Gopal Bhatta of Surat and is dated Sarhvat 1457. This Ms. was later acquired by Dr. Biihler for the Government of Bombay and it now figures as No. 107 of the Deccan College Collection of 1871-72, where however the query which followed the name of the work as given in the earlier list is omitted while Kapila instead of Vyasa is given as the author of the work in question. So ancient a Ms. of a Sakhya work ascribed to Vyasa or to Kapila himself naturally evoked curiosity.¹ On examination however it was discovered that the work contained in the Ms. was no other than the Matharavrtti of Matharacarya.²

Manuscripts of the Matharavrtti are extremely rare. There is one (3) mentioned in Dr. P. Peterson's Second Report, List p. 21, and now forming No. 119 of A 1883-84, and there is another (4) with two more copies (5-6) given

1 My attention was first drawn to it by my friend Mr. R. D. Ranade M. A. now Professor of Philosophy at the Fergusson College, Poona.

2 The colophon reads—इत्याचार्यभट्टपञ्चमीकायाः सांख्यसहस्राः इषिराचार्यमादर-
हतिः समाप्ता । स्वास्ति श्रीमन्नवल्लभपुरे.....illegible.....श्रीकपिलमुनिना व्याहृतं सांख्य-
शास्त्रं वर्षलीकापिपमुनि(७.1. 'वृष्णिधिराज')मितेऽलेखयत्कार्षिकदौ संवत् १४५७ रर्षे लिखितमिदम् ॥
Vyāsaprabhākara seems to have been once the owner of the Ms., as his name appears on fol. 1a, which Dr. Bühler's Pandit seems to have mis-
taken for the name of the work itself.

in Buhler's Gujarat Catalogue above cited, fasc, iv, p. 10. This last belonged to one Balkrishna Joshi of Ahmedabad. No other Mss. of the work are anywhere known to exist.

Of the six Mss. of the Matharavrtti above recorded, two, as just stated, are available at the Deccan College Mss. Library* The remaining four could no longer be traced. I caused careful inquiries to be made at Surat (for the second copy of 'Vyasaprabhakara') and at Ahmedabad (for Balkrishna Joshi's three copies of the Matharavrtti) but to no purpose.¹ All the more thankful must we therefore be to the accident which has made the Deccan College Library the envied possessor of the only two Mss. of this work now extant, seeing that the Matharavrtti is no other than the lost original of the Sahkhyā-karika-vrtti translated into the Chinese by Paramartha between A. D. 557 and 569.

Paramartha² was a Brahman of Ujjainborn in A. D. 499 who, upon the invitation of the emperor Wu-ti of the Liang dynasty, went over to China in A. D. 546 and devoted the rest of his life to the translation into Chinese of such Sanskrit works as he had brought with him from India.³ Paramartha died at Canton in the year 569, aged 71; and as he might be presumed to have brought with him to China only such Sanskrit works as had already an established reputation in India, we may roughly regard 500 A. D. as the *terminus ad quern* for the vrtti which he translated into Chinese.

That this vrtti translated into Chinese was identical with—or at any rate exhibited many points of contact

1 Professor A. B. Dhruva for instance writes from Ahmedabad to say that Balkrishna Joshi, 'through his friend or relative Uttararam Joshi, delivered many of his Mss. to Dr. Buhler; and the remnant—probably trash—was divided by his widowed niece-in-law (Balkrishna Joshi's last heiress) amongst a few Brahmans as a pious gift supported by the attractive accompaniment of a pice each !' A few months ago, at Baroda, I was shown the first few pages of a SSnkhyā Ms. which on examination proved to be a fragment of Matharavrtti. This may have been one of these pious gifts.

2 J. R. A. S., 1905, pp. 33ff.

3 In all he translated 505 different works,

With—the Bhasya of Gaudapada edited by H. H. Wilson, Oxford (1837), was suspected by Beal, Kasawara, and others long ago,¹ and is placed beyond doubt by Dr. Takakusu, who, after a searching comparison of the Bhasya of Gaudapada with the vrtti translated into Chinese, arrives at the conclusion² that in citations, illustrations, and even entire passages, the coincidences between the two commentaries are so numerous and far-reaching as to preclude the possibility of their being explained away as merely accidental. This raises a chronological problem ; for, as Gaudapada the teacher's teacher of Sankaracarya cannot be placed as early as cir. 500 A. D., and as it would be impossible to suppose that an author like Gaudapada could merely plagiarize, it is necessary to believe that by the time of Gaudapada (cir. 700 A. D.) the original vrtti had become to such an extent defective and corrupt that Gaudapada could safely complete and rearrange it and give it out in an improved form as his own work. The Chinese translation does not give the name of the author of the original vrtti; and as "this writer, whatever his name, must have lived between 546 A. D. (the date of Paramartha's reaching China) and 450 (Dr. Takakusu's date³ for Isvarakrsna the author of the Karikas), the learned doctor, rather than postulating, in the brief space of less than a hundred years (450-546), two different and important Sarikhya writers, simply identified* the author of the Karikas with the author of the vrtti, believing that by thus making Isvarakrsna himself the author of both the Karikas 'as well as their vrtti he could partly take the edge off Gaudapadacarya's subsequent appropriation of another's work as his own.

1 Max Muller: *Six Systems of Indian Philosophy*, p. 292.

2 *Bulletin de l'E'cole Francaise d'Extrene-Orient*, t. iv (1904), p. 24.

3 Dr. Takakusu's latest pronouncement on the subject in the *J. R. A. S.* for 1914, pp. 1013 ff., does not materially affect this conclusion, which however has latterly been called into question. See below p. 176.

4 *Op. cit.* p. 58. 60,

The present discovery of the lost original of the Chinese translation and its identification with the Mātharavṛtti of Mātharācārya¹ compels us to modify this conclusion in many important particulars. To begin with, we must now be prepared to admit the existence of two Gaudapādas, one the celebrated teacher's teacher of Śaṅkarācārya and the other a namesake of his and the author of the so-called Gaudapādabhāṣya and perhaps also of the commentary on the Uttara-gītā. It is too much to expect that the great Gaudapāda would lend his name to a work like the Bhāṣya of Wilson's edition, which is merely a paltry abstract of the Mātharavṛtti with an occasional addition here and there.² That the author of this abstract was a Gaudapāda who, albeit later than the famous Gaudapāda, must nevertheless have lived before the 11th century follows from Alberuni's reference³ to a philosophical work composed by 'Gauḍa the anchorite' and from Maladhāri-Rājasekhara Sūri's mention,⁴ in his Śaddarśana-samuc-

1 That the Mātharavṛtti is the original of the Chinese follows from the close verbal correspondence that runs through them page after page, such occasional variation as is to be found in the Sanskrit original and the French translation of the Chinese translation of the same in the Bulletin for 1904, pp. 978-1064, being no more than what could be explained away as the result of such genuine differences in reading as exist even in the Korean and Japanese recensions of the Chinese text itself. The point will be fully dealt with in my forthcoming edition of the work; an instance or two must therefore here suffice. The introduction to Kārikā 1 in the Gaudapādabhāṣya does not contain the dramatic dialogue between Kapila and Āsuri; but the French on p. 979 of the Bulletin—"O Āsuri, tu t'amuses à mener la vie d'un maître de maison!" etc.—is a word-for-word translation of the original—*मी भो आसुरे । ममे गृहस्थधर्मे ।* etc. Similarly, the Mātharavṛtti (see below, p. 176, note 2) gives, like the Chinese text, a gloss on the last three Kārikās, which is absent in Gaudapāda.

2 Dates make it impossible that the Mātharavṛtti (ante 500 A. D.) be an enlargement of the Gaudapādabhāṣya (post 700 A. D.), and the close correspondence of the two precludes the possibility of their being independent works.

3 India, Vol. 1. p. 132 (Trübner Series).

4 तर्कग्रन्था पद्धत्या मादस्तात्वकौमुदी । गौडपादादेवतन्त्रे शास्त्रसप्ततिसुखम् ॥ Maladhāri-Rājasekhara Sūri lived about A. D. 1350.

6aya, of a Sankhya writer Gaudapada as distinct from Mathara. As often happens in such cases, the so-called Gaudapadabhasya, the abridgment of the Matharavrtti, effectively supplanted the older work.¹

More important than this is the light which the Matharavrtti throws upon the vexed question of the date of Isvarakrsna. Dr. Takakusu assigns him to cir. 450 A. D., and the main points in his argument² may be thus summarised : (1) Between 546 and 569 A. D. Paramartha, the Chinese translator, wrote a life of the celebrated Buddhist philosopher Vasubandhu, and he is thus our earliest authority for Vasubandhu. Paramartha mentions Vasubandhu's death at the age of 80, which must have taken place before Paramartha left for China. This gives cir. 420-450 for Vasubandhu. (2) Vasubandhu's teacher Buddhmitra, Paramartha tells us, was defeated by the Sankhya philosopher Vindhyavasa, who however died before Vasubandhu could make amends for his teacher's discomfiture. Vindhyavasa was thus an older contemporary of Vasubandhu and is known to have composed a work on Sankhya. Elsewhere Vindhyavasa is described as a contemporary of the Gupta king (BSladitya) and is spoken of as a pupil of Vrsagana or Varsaganya, while another (less reliable) account of a hundred and fifty years later makes a pupil of Varsaganya the author of a work called *Hircwya-saptati*. Putting all these accounts together we get Vindhyavasa an older contemporary of Vasubandhu and the pupil of Vrsa or Varsaganya as the author of a Sankhya work called *Hiranya-saptati*. (3) Now the commentary translated into Chinese, while explaining the phrase *शिष्यपरम्परागतम्* in the last but one Karika, makes Isvarakrsna, the author of the *Sahkhya-saptati*,

1 Mss. of Gaudapada's Bhasya are also scarce, though the work has been published four or five times: Wilson (1837), Tookaram Tatya's Reprint (1887), Jibanand (date?), and Ben. Sk. Series (1906²). I have also to report a Bengali translation of the same. Of Mss. I have so far secured and collated only four.

2 J. R. A. S., 1905, pp. 33 ft

the pupil of Po-p'o-li; and if we were once to make the supposition that Hiranya-saptati is a byname for Sakhya-saptati and that the Chinese word Po-p'o-li can somehow stand for Varsa,¹ there then remains nothing in the way of the eventual identification of Vindhyavasa with Isvarakrsna, which gives for the latter the date assigned by Takakusu.

Isvarakrsna's date thus depends upon that of Vasubandhu and upon the identity between Isvarakrsna and Vindhyavasa the rival of Vasubandhu. Now the date of Vasubandhu has been recently made the subject of much discussion, a convenient summary of which is given in Vincent Smith's *Early History*, 3rd ed. (1914), pp. 328-34. And although, in the very nature of things, it is vain to expect that any one theory could satisfactorily explain all the names and allusions occurring in the Chinese reports of Paramartha, of Hiuen Tsang and his pupil Kuei-chi, and of Itsing and others, it is clear that the general trend of the evidence is for assigning Vasubandhu somewhere between A. D. 280 and 360; and Vindhyavasa by all accounts was Vasubandhu's older contemporary.

But it seems to me that Vindhyavasa cannot be identified with Isvarakrsna. As we learn from Mathara, the Sanskrit original of Po-p'o-li, the teacher of Isvarakrsna, is Devala², and not Vrsa or Vrsagana, and this disturbs one factor of the identity. Next as to the Hiranya-saptati being a byname for Sankhya-saptati there is no positive proof for it except that in the interest of our identity we would rather wish that it were so. This is arguing in a circle. We have reasons to suppose that the accounts of the Chinese pilgrims

1 Takakusu's procedure here (Bulletin, 1904, p. 30) is a mere *tour de force*. He equates Po-p'o-li, on the ground of a presumed scribal error, with Po-so-li and then, by another error of the scribe, with Po-li-so, Va-li-so, Varsa.

2 The vṛtti on शिष्यपरम्परयागतम् etc. in the Sanskrit original runs thus—कपिलादादुरिणाश्राममिदं ज्ञानमतः पञ्चशिखेन तस्माद्भार्गवोत्तरकृत्वाल्मीकिहारीतदेवमनुजोपागतम् । तदस्त्वेष ईश्वरकृष्णेन प्राप्तम् । तदेव बह्मिन्मन्त्राभिः संक्षिप्तम् । Compare Bulletin (1904), p. 1059-60, for the French translation of the Chinese, which is rather defective.

are not always strictly accurate, and Kuei-chi (to judge from the French translation of his statements on the question given by Dr. Takakusu in the Bulletin for 1904 pp. 38-39) does not profess to be narrating sober truth unmixed by legendary elements. It is permissible therefore to suppose that the Hiranya-saptati was a distinct work, so named either because (as Kuei-chi himself affirms) the work brought to its author a reward of three lacs of gold, or possibly because the work had something to do with *Hiray, ya* or *Hiray, ya-garbha* (one of the cardinal principles of the Sarikhya) just as Vasubandhu's rival work, Paramartha-saptati, had something to do with the *parama-artha* or supreme reality, whatever that might mean for the Buddhist. It seems to me more probable however to regard the Hiranya-saptati of Vindhyavasa¹ as some kind of a commentary on Isvarakrsna's Sankhya-saptati; and this will afford the most natural explanation of the confusion which some compilers of catalogues⁵⁵ and other writers³ make between the author of the Karikas and of the commentary on them. It must also be borne in mind that the name Vrsa, Vrsagana, or Varsaganya does not occur in the *guru-par aw para* from Kapila to Isvarakrsna as preserved in the Matharavrtti.⁴ Clearly therefore Vindhyavasa and his teacher Vrsa or Varsaganya have to be ranked amongst the successors of Isvarakrsna;⁵ and as Vindhya-

1 It is worth noting that Bhoja's Rājamārtanda has preserved two quotations from Vindhyavāsan *apud* Yogasūtra iv. 22—सत्त्वतत्त्वमेवबुद्ध-
तत्त्वम् and विन्ने प्रतिबिम्बमानच्छाया सदृशच्छायान्तरोद्भव. प्रतिबिम्बशब्देनोच्यते. This is clearly the language of a commentator.

2 J. R. A. S., 1905, p. 47, note 3.

3 Loc. cit. pp. 162, 355, 356.

4 See note 2 on p. 176 above. Some of these names are also mentioned in the Śaṅkarāśana-samuccaya—साख्यानां मतवक्तारः कपिलाहुरिआर्गवा. । उद्भूतः
पञ्चशिक्षेत्रकृष्णस्तु शास्त्रकृत् ॥

5 This is not essential for the argument. That a commentary should be written on the Karikās and the same translated into Chinese as early as cir. 560 carries the date of Īśvarakṛṣṇa more than a couple of centuries earlier, especially if it is remembered that the Matharavrtti is confused and often misunderstands the Karikās. Compare below, p. 181, n. 2.

23 [Bhandarkar Com. Vol.]

vasa was an older contemporary of Vasubandhu, and as Vasubandhu is more probably to be placed cir. 300 A. D., this might give for Isvarakrsna a date as early as the first or the first half of the second century of the Christian era.

Isvarakrsna's Karikas is the earliest work on the Sankhya philosophy that has been preserved to us; but the Sankhya as a philosophy is presupposed by Buddhism¹ and in the Mahabharata, Sankhya is *par excellence* the philosophy of the Epic,² occupying therein the same position of pre-eminence that Vedanta did in later times. Sankhya in fact claims a pedigree still higher, seeing that the latest phase of Upanisad thought is co-eval with the beginnings of Sankhya speculation, and even exhibits doctrines and terminology that later became exclusively characteristic of the Sankhya.³ Kapila is a name hallowed by

1 Buddhistic books acknowledge Kapila as a teacher of remote antiquity and the 4th of the 62 current heresies mentioned in the first Suttanta of the *Digha Nikaya* Garbe (*Samkhya Philosophic*, p. 5, n. 1) identifies with the Sankhya. It is sometimes objected to this (e. g. Rhys Davids: *American Lectures on Buddhism*, pp. 25ff.) that the heresy in question regards the soul and the world as both eternal, and not the soul and the *Prakriti*; but that is due to the *schema* under which the 62 heresies are grouped by the Buddha. Max Muller (*Six Systems*, p. 314, Chips, i. 226, and elsewhere) and Oldenberg (*Buddha*, Eng. Trans, p. 92, note) fail to see any real correspondence between Buddhism and the Sankhya, while Jacobi in his paper on the "Ursprung des Buddhismus aus dem Samkhya-Yoga" has tried to prove that in its psychological technicalities at any rate Sankhya must have preceded Buddhism. If we bear in mind that the original Sankhya need not necessarily have been the Sankhya of the Karikas any more than Upanisadic Vedanta the Vedanta of Sahkaracarya or the original Buddhistic *nirvana* the nihilistic *nirvana* of Nagarjuna, there need not be felt any more hesitation in admitting the priority of Sankhya over Buddhism. Compare Dahlmann, *Nirvana*, pp. 128 ff.

2 Compare ये चायन्ते मोक्षकामा मनुष्यास्तेषामेतद्दर्शनं ज्ञानं हिम् (li. 323.86), and xii. 307 towards the end. The Sankhyas are often described in the epic as i?r%|, f^rar, T^rwr, etc. and the epic cosmology is pervaded through and through with Sankhya technicalities.

3 Compare Garbe: *Die Samkhya Philosophic*, pp. 18-21. *Maitri*, *Smtakvatara*, and *Prasna* are the main Upanisads to be considered in this connection.

hoary tradition and his system of philosophy, before it assumed its stereotyped form in the Karikas of Isvarakṛṣṇa, must have undergone, in the course of centuries of its historical existence, several processes of reduction, modification or amplification for which no definite documentary evidence is forthcoming. There are a few vague and scattered hints, and in what remains of this paper an attempt will be made, on the basis of such hints, to determine the chief landmarks in this progressive philosophical evolution.

The Karikas of Isvarakṛṣṇa profess to give in essence the same doctrine as that contained in the Sastitantra¹ save its illustrative anecdotes and its argumentative portions. As to the exact nature and authorship of this Sastitantra there is still a good deal of confusion. Three quotations² from the work at the most are preserved in later commentaries, and from them it cannot be decided whether the work was in prose or verse; and as to its authorship, while from the Bhamati one might be led to ascribe it to Varsaganya, the Chinese tradition as quoted by Takakusu (Bulletin, 1904, p. 59) expressly credits Pancasikha with that honour. As usual in such cases Dr. Schrader³ has sought to explain away the contradictions by taking refuge in the supposition of two different Sastitantras, one in prose and belonging to Varsaganya⁴ and the other in verse of undermentioned authorship, but presumably older.

1 Compare Karika 72 (73)—

ममत्यां किल येषांस्तेषां कृत्स्नस्य वक्षितन्मस्य ।

आख्यायिकाविरहिता परवाद्विनिर्मिताश्चपि ॥

2 The first is the stanza गुणानां परम रूप etc. cited in Vyāsa's Bhāṣya on Yoga-sūtra iv. 13 as expressly coming from the Sastitantra; the same stanza is quoted in the Bhāmatī to Brahma-sūtra ii. 1. 3 as belonging to वार्हगम्य, the योगशास्त्र व्युत्पादयिता. The second occurs in Gauḍapāda's and Māṭhara's com. to Kārikā 17—तथा चोक्त वक्षितन्वे गुरुषाभिहित प्रधानं वर्तते । The last, not quite so explicit, occurs *apud* Kārikā 50 in Gauḍapāda (शास्त्रान्तरे) and in Māṭhara (ग्रन्थान्तरे).

3 Z. D. M. G. for 1914, vol. 68. 1, p. 110.

4 Besides the stanza गुणानां परम रूप two other quotations from Varsaganya, both in prose, have been hitherto traced, one in the Vyāsa-bhāṣya to Yoga-sūtra iii. 53 (सृष्टीत्यवधिजातिभेदाभावाच्चास्ति मूलपुरुषत्वम्) and another in Vācaspati's com. to Kārikā 47 (एवमपराजयिष्या).

When we have no definite information regarding one Sastitantra it is too much to ask us to believe in the existence of two works bearing identical names. If, following the Chinese accounts, Varsaganya is to be regarded as the teacher of Vindhyavasa, the older contemporary of Vasubandhu, it is then not likely that the work of so late a writer as Varsaganya should have served as the basis for Isvarakrsna's Karikas; and in that case Vacaspati's assigning the stanza गुणानां परमं रूपं to Varsaganya—a stanza mentioned in the Vyasabhasya as coming from the Sastitantra—must be put down as an evident oversight. The question of the authorship of the Sastitantra must therefore, for the present, remain undecided.

Fortunately for us the *Ahribudhnya-Samhita* recently published by the Adyar Library gives us, in chapter xii, stanzas 18-30, a rather detailed notice of the contents of the Sastitantra. It ascribes the work to the 'great and omniscient sage' and explains that the Sastitantra was so called because it had sixty topics or sections : thirty-two devoted to what we might term metaphysics (*Prakrtam mandalam*) and twenty-eight to Yoga and ethics (*Vaikrtam mandalam*). The notice is interesting¹ because it presents to us a phase in the development of the Sankhya philosophy when Sankhya and Yoga were not absolutely separated from each other² and when the system contained, along with its positive contribution to philosophy, a detailed examination with a view to refutation (the *para-vada* of Isvarakrsna's last Karika³) of the various 'first

1 For a critical study of the question see Dr. Schrader's article, 'Das Sastitantra' in Z. D. M. G. for 1914, vol. 68, 1, pp. 100-110; and the same writer's Introduction to the *Ahribudhnya-Samhita*, p. 110 ff.

2 It was probably the Yoga-sutras of Patanjali (cir. 150 B. C.) that raised the Yoga to the dignity of an independent Darsana; and if so, the Sastitantra must be placed prior to B. C. 150. Many passages from the Santiparvan of the Mahabharata suggest the contents of the Sastitantra.

3 What the *akhyayikas* alluded to in the Karika" can be one can very well imagine from the Mahabharata xii. 307. The whole adhySya purports to be *Savkhyamrupana* and affords room for many an illustrative anecdote here and there.

principles' adduced by the earlier darsana-karas,¹ such as, Brahma, Purusa, Sakti, Niyati, Kaia, Ak9ara, Prana, Sami or Svamin, Bhutas, etc. As Xsvarakrsna expressly tells us that he had retained the doctrinal part of the Sastitantra entirely unchanged, and as Isvarakrsna's Karikas are avowedly atheistic,² we must imagine that, after a critical review of the different first principles, the Sastitantra, in supramundane matters like the existence of God etc., came to a purely negative conclusion.

The Mahabharata³ presents to us the same intimate relation between Sankhya and Yoga as the Sastitantra;* but we can hardly say that the Sankhya of the Mahabharata is atheistic. The difference between the traditional Sankhya of the Karikas and the Mahabharata Sankhya can well be seen from the Bhagavadgita where, in addition to the doctrine of the three gunas (chapters xiv and xvii in particular), of causation through *pari nama* (xiii. 19-20, xviii. 14, and elsewhere), of the *akartrva* of the Purusa (iii. 27 f., xiv. 19, etc.), and of the cosmic evolution through Ahankara, Buddhi, and the five Bhiitas⁴ (vii. 4), we find,

1 That there were regular darsanas with Kala, Svabhava, Niyati, etc. (cp. Svetasvatara i. 2) as first principles is -well brought out in Dr. Otto Schrader's Inaugural dissertation, "Ueber den Stand der Ind. Philosophic zur Zeit Mahavirras und Buddhas."

2 For the brilliant recovery from Gauḍapāda-bhāṣya and Mātharavṛtti of the missing Sāṅkhya Kārikā 62 (कारणमीश्वरमेके पुरुषं कालं परे स्वभावं वा । प्रजाः कथं निर्गुणतः व्यक्तः कालः स्वभावश्च ॥) dealing with the subject, see 'Sanskrit Research,' vol. i, no. 2, pp. 107—117. One notices from this how very confused and disarranged the Mātharavṛtti had been by A. D. 500.

3 My references throughout are to the Kumbhakonam edition based on South Indian texts and printed at the Nirnaya Sagar, Bombay.

4 नास्ति सांख्यसमं ज्ञानं नास्ति योगसमं बलम् ।

तादुभावेकचर्यौ तादुभावेनिधनौ स्थितौ ॥

पृथक् पृथक् प्रपश्यन्ति येऽप्यबुद्धिरता नराः ।

वयं तु राजन् पश्याम एकमेव तु निश्चयात् ॥ स्नानिपर्व ३२१ । २-३

5 Some minor difference in the enumeration of the eight-fold Prakṛti, which the commentators try to gloss over, serves only to strengthen the view of the primitive nature of this Sāṅkhya system.

so to say, a sort of a theistic apex to the system in Sri-krsna or Paramesvara,¹ from whom the beginningless Purusa and Prakrti are said to proceed as parallel 'modes' or manifestations (vii. 5f, xiii. 19, etc). Other accounts from the Mahabharata somewhat vary in detail- In fact the Epic itself admits² the existence of minor differences in the Sankhya school; but the main conclusion as to the theistic nature of the Epic Sankhya stands unshaken.

In his successive studies on the subject³ Dahlmann has urged many a cogent reason to prove that the Sankhya of the Mahabharata—*anviksiki brahmna-vijya*, to give it its other significant title—was the parent of three parallel systems: 1 the classical Vedanta with the Maya doctrine, 2 the classical Sankhya of the Karikas, and 3 the primitive form of Buddhism ; and it is difficult to resist the temptation to accept this conclusion in the main. Accordingly it would seem that the theistic nature of the Epic Sankhya was later (e. g. in the Sastitantra) deliberately dropped and the system reduced, by stern logic,⁴ to its bare negative character. Later still, the intimate combination of the Sankhya with the Yoga was dissolved, the two figuring thereafter as independent systems, the Yoga accepting the theism renounced by the Sankhya-

Dahlmann stops with the Epic Sankhya; but it itself is undoubtedly a composite product, as is plain even from its composite name in the Epic: *anvikmki brahma-vidyfi*. It is *anviksiki* or based on reason in preference to revelation ; and it treats of *Brahma* or the highest spiritual prin-

1 Compare—पञ्चविंशतिमो विष्णुः (xii. 308-38) and again—

पञ्चविंशतिमस्तात... ..

अनादिनिधनोऽनन्तः सर्वदर्शी निरासयः ॥ शान्ति० ३१० । २९

2 Compare (xii. 323, 58 ff.)—

पञ्चविंश यदेतत्ते शेषे ब्राह्मणसप्तम ।

तद्वह न तथा वेदेषु तद्व्याख्यकुर्महीति ॥ etc.

3 Das Mahabharata (1895), Nirvana (1896), Genesis des Mahabharata (1899), and Sariikhya Philosophie (1902).

4 Logic, or an explanation of supra-mundane things on the basis of reason also, was an early and well-known characteristic of the Sankhya. Cp. the VedSnta-sutra description of the Sankhya Pradhana as *ababda* I. i. 5, and *anumanika* I. i. iii. 3.

ciple very much after the fashion of the Upanisads. We might imagine that the cosmological problem with which philosophy began in India was worked out in some of the primitive Upanisads from within outwards,¹ while it was the reverse process from *mrdndi-vikaras* back to the underlying noumena that was pursued by those other Upanisads where it is usual to see the beginnings of Sankhya philosophy. Schrader in his book cited above at p. 181, note 1, argues for the thesis that it was the first adhyaya of the Svetasvatara, and especially the passage **भोक्ता भोग्यं प्रेरितारं च भत्वा सर्वं प्रोक्तं त्रिविधं ब्रह्मन्तत्** which formed the nucleus of all later Sankhya speculation. Others choose other passages. Be that as it may, it should be quite evident that this primitive Sankhya did not yet possess pronounced opinions even on such vital question as the unity or plurality of souls or of the absolute unrelatedness of the soul with the matter or Prakṛti. And hence resulted the blending together of the primitive Vedānta and the primitive Sankhya of the Upanisads into the full-fledged system of the Mahābhārata with its added theistic apex.

We have accordingly reasons to assume the following broad stages in the development of the Sankhya philosophy: 1 the primitive and undefined Sankhya of the Upanisads; 2 its alliance with the equally primitive Vedānta of the Upanisads resulting in the Sankhya-Yoga or the *Anviksiki brahma-vidyā* of the Mahābhārata; 3 the carrying out to their logical conclusions the basic principles of the Sankhya, viz. a material first principle and the doctrine of evolution, leading to a denial of theism; 4 the bifurca-

1 Introspection and observation of the psychic states of dream, sleep, trance, etc. supplied the material of this philosophy.

2 The South Indian recension of the Mahābhārata has preserved (xii. 326-28) a badly mutilated prose dialogue between Kapila and Asuri, his first pupil, where we find the following significant description of the process whereby the Non-manifest becomes the Manifest: **अव्यक्तं व्यक्तमुपलक्ष्यते यथर्तवोऽमृतं यस्तेषु पुष्पफलैर्व्यक्तिरुपलक्ष्यते तद्वदव्यक्तं व्यक्तमुपलक्ष्यते**— "As the seasons, themselves non-manifest, make their presence manifest in and through the flowers and the fruits, even so does the Non-manifest through the qualities of the Manifest."

tion of the system on this ground into *nirlivara* and *sesvara* or Sankhya and Yoga ; and 5 its assuming a stereotyped form in the Karikas of Isvarakrsna Then followed a long period of lull broken in by an occasional digest or a commentary until we come to Vijfianabhiksu who, strangely enough, tried to retrace the steps and turn the system into the *finvikslkl brahma-vidyu* of the Mahabharata, which in fact was its earliest systematic starting-point.

Space forbids any very detailed treatment of these stages by citing illustrative texts bearing upon each : nor is that here necessary. It is enough to know that, through all these twenty-five and more centuries of the historical existence of the Sankhya, the system was not stagnant, but that there were some inner changes and development going on. And the same should be true in the case of every philosophical system with a history. Indian commentators as a rule lack this historical perspective- As truth is—or ought to be—one, and as great Sages, through their instinctive vision, cannot but have perceived that one truth, all texts early and late must, in the opinion of these commentators, mean the same thing. Hence their frantic attempts at a *samanvaya* or securing harmony in the texts. But this method, perfectly intelligible as it is to the eye of faith, must give way before the light of reason- We must in other words learn to study our philosophy historically ; and it may be that, after this alliance with reason, faith could be based on foundations all the more deep and durable.

History and Archaeology

VIKRAMA ERA

By D. E. BHANDARKAR

IT is not the object of this article to discuss all the questions connected with this era. I intend here touching upon the theory that has recently been propounded regarding its origin and giving the latest information available from epigraphic sources.

According to tradition Vikrama Saihvāt was founded by a king called Vikramaditya who is presumed to have flourished cir. 57 before Christ. This tradition was, no doubt, accepted by many scholars and antiquarians when Indian epigraphy was in its infancy. But with the find of many inscriptions it had to be rejected. An attempt, however, is recently being made to revive this theory and proof is being adduced to show that there was a king of the name of Vikramaditya in the first century before Christ. It was first broached by Rao Bahadur C. V. Vaidya in an article published in the *Indian Review*, December 1909. The same view has been put forth by Mahamahopadhyaya Haraprasad Shastri in his paper on the Mandasor inscription of Naravarman.¹ It has, therefore, become necessary to reconsider this question and find out how far their evidence is trustworthy. They both rely on a verse from Hala's *Oathasaptasati* (v. 64) which runs thus—

*Samvahana-suha-rasa-tosiena dentena tuha hare lakkham I
Calanena Vikkamaitta-cariam anusikkham tissa II*

Evidently this verse makes mention of Vikramaditya and refers to his munificent nature. And as Hala, the author of the *Oathasaptasati*, is ordinarily spoken of as a Satavahana, and as this name occurs in the dynastic list of the Andhrabhrtyas given in the Puranas, and is placed there before that of Gautamlputra Satakarni who, we know, lived about 125 A. D., it is argued that the work* was composed about the beginning of the first century after Christ. And when such a work alludes to Vikramaditya,

it is concluded that there was really a king of this name living in the first century B. C, as reported by the tradition. Hence both Mr, Vaidya and M. M. Haraprasad Shastri hold that the tradition gives a correct account of the origin: of the Vikrama era and that it was, therefore, initiated by a king called Vikramaditya.,

Now even supposing for the moment that there was such a king as Vikramaditya living-circa 57 B. C., it does not necessarily follow that the era was founded" by him. It is true-that" even in inscriptions the era is associated with the name of Vikramaditya. But these are records of a late-period and, in fact, it is in Amitagata's *Subhasitaratna-sandoha* composed in Vikrama Sam. 1050 that we hear- for the first time of a prince Vikrama in connection with it; and from the actual wording of the date by, this Jaina author it seems that the era was believed in his time not to have been founded by Vikramaditya but- rather started to commemorate his death. And the earlier-inscriptions, going back to the 5th century A. D. give an entirely different name for the era. What that name is will be stated further on, but it is insufficient here to say- that they give not even the least inkling of its being associated with Vikramaditya. If this is what epigraphy tells us, it is rash to assume that the era was known to be named after this king even long prior to Vikrama sam. 1050. And if, as we know from epigraphy, this era had, an altogether different name- and had absolutely- no connection with Vikramaditya, it is not reasonable at all to infer that it was established by him.

But is it a fact that the *Qatha-saptati* was such an early work, as has been assumed?- In the first place, that its author, Halar, was a Satavahana is a mere tradition and must be set aside like all other traditions about the ancient literates of India. Introductory verse 18 of Bana's *Harsa-carita*, no doubt speaks of a Satavahana having* composed a *Roto*, of songs, but there are no grounds to

suppose that this *Kom* is Hala's *Sapta-sati*, as has been well pointed out by Prof. Weber.¹ The internal evidence afforded by the work points, on the other hand, to a much later date for its composition. Only two points may be here noticed. The first is the reference to Krena and Radhika contained in verse I. 89, and the second to a week-day, Tuesday, in III. 61. The earliest mention of Radhika that I have been able to trace is in the *Pancatantra** which was compiled in the 5th century after Christ. Similarly the practice of citing the week-day in dates or for other general purposes came into vogue in the 9th century, though the earliest instance of its use is found in the Eran inscription of Budhagupta dated A. D. 484,³ And we shall not be far wrong if we assign Hala of the *Gatha-saptasati* to the commencement of the 6th century. If we take this to be his period, there is nothing strange in our finding a verse, in his anthology, descriptive of the liberality of Vikramaditya. Because whether we take this Vikramaditya to be Candragupta II of the Gupta dynasty with Sir Ramkrishna Bhandarkar⁴ or with his grandson Skandagupta with Prof. K. B. Pathak,* he cannot be pushed later than A. D. 475. And it is quite possible that after the death of this Vikramaditya his generosity stuck to the memory of the people and became the subject of encomium with subsequent poets. Thus we find a reference to Vikramaditya's liberality not only in the work of Hala but also in one of the introductory verses (v. 10) of the *Vasavadatta* by Subandhu, who has to be placed about the close of the 6th century A. D. at the latest.

The theory that Vikramaditya was the originator of the Vikrama Samvat must, therefore, be given up, and, the sooner we consign it to the region of oblivion, the better* Let us now see what the inscriptions have to say regarding

1 *Ueber das Saptafatakam des Hala*, pp. 2-4.

2 *Paacatantra* /(Bom. Sk. Series No. IV), p. 38.

3 *Jour. R. A. S.*, 1912, pp. 1044-5.

4 *Jour. B. B. R. A. S.*, Vol. XX, p. 398.

5 *MeghadUta* (Second Edition), Intro, p. xl

the origin of this era. In 1885 an inscription was discovered by Dr. J. F. Fleet at Mandasor, the principal town of the district of the same name of Scindia's Dominions in the Western Malwa Division of Central India. It contains two dates, the first of which is expressed in the words—

*Malavanarh gana-sthitya yate sata-catustaye I
tri-navaty-adhike'bdanam—*

Though the credit of finding the inscription certainly belongs to Dr. Fleet, Dr. P. Peterson was the first to publish this date and demonstrate that it was a year of the Vikrama era. The latter translated it by—"when four hundred and ninety-three years from the establishment [in the country?] of the tribes of Malavas had passed away."¹ Dr. Fleet's rendering of the verse is—"when, by (*the reckoning from*) the tribal constitution of the Malavas, four centuries of years, increased by ninety-three, had elapsed."²

Soon thereafter, another inscription from Mandasor was published by Dr. Fleet, giving the date in the words—

*Pancasu satesu saradam yatesvekanna~navatisahiteṣu \
Mala va-gana-sthiti-vasat—*

The last phrase Fleet translated by 'from (the establishment of) the supremacy of the tribal constitution of the Malavas,'³ adding in a note that 'it is very difficult to find a really satisfactory meaning' for the word *vasat* in the passage.

Now, in the first place, it is not permissible to take *sthiti* in the sense of *sthapana* (= constitution) as both Drs. Peterson and Fleet have done. Secondly, even if we take the word in that sense, it does not suit the expression *Malava-gana-sthiti-vasat* of the second Mandasor inscription. For what is meant by saying that five hundred and eighty-nine years had elapsed in consequence of (*vasat*) the

1 *Jour. B. B. E. A. S.*, Vol. XVI. p. 381.

2 *Ind. Ant.*, Vol. XV. p. 201; *Gupta Inscrs.*, p. 87,

3 *Gupta Inscrs.*, p. 158,

tribal constitution "of the Malavas? Prof. Kielhorn obviates this difficulty by taking the phrase to mean "by, or according to, the reckoning of the Malavas." He thus makes *gana* equivalent to *ganana*, which is objectionable. For, the word *garia* has never the sense of *ganana*, and when placed in juxtaposition with *Malava*, must signify 'a tribe' and 'a tribe' only.

In 1913 a third inscription was found at Mandasor. It was discovered by me during my touring season 1912-13. The date of this record is set forth in the verse—

sri(r)-Malava-gan-amnate prasaste Krta-samjnite [I]

Eka-mHthy-adhike prapte sama-sata-catustaye [II]

In this verse there are two expressions which are worthy of consideration. The first is *Malava-gan-amnate*, which doubtless corresponds to *Malavanam gariasthitya* and *Malava-gana-sthiti-vasat* of the first two Mandasor inscriptions. Now, what does *Malava-gan-amnata* signify? The natural sense of *amnaya*, as specified e. g. in the *Amarakosa*, is *sampradaya* (= traditional usage). The phrase must therefore mean "traditionally handed down by the Malava tribe." This, I think, is clear and indisputable, and the other two similar phrases must be so interpreted as to correspond to this. The word *gana* must, therefore, be taken to signify 'a tribe' in all the three expressions, and *sthiti* of one inscription to be equivalent to *amnaya* of the other two. The word *sthiti* must thus mean some such thing as 'a settled rule or usage' which, doubtless, is one of its senses given by the St. Petersburg dictionary. This lexicon even quotes Sanskrit texts in support of this meaning, but does not at all give the word the sense of *sthapana* (= constitution, establishment), which is noteworthy.

The second expression in the verse cited above is *Krta-samjnite*, which qualifies the phrase expressing the date. As the word *samjnita* shows, the year 461, which is the date, is itself intended to be called *Krta*. But, as indicated by *fai-Malava-gan-amnata*, the date is clearly a year of the Vikrama era. Obviously, therefore, *Krta*

Appears to be the name of the years of this era. There were at least two instances of the occurrence of the term *Krta* in this sense in inscriptions before the discovery of the new Mandasor epigraph, but its real significance was not apprehended. They are the Bijaygadh stone pillar inscription of Visnuvardhana, and the Gangdhar stone inscription of Visvavarman. In the first the date is specified in the words *Krtem catursu varsa-satesvatita-vinfm)sesu 400 20 8, etc.*¹ The second sets forth the date in the verse: *Yatesu catuh(r)su Kri(Kfltesu satesu mu[m]-yesvasita-sottara-padesviha vatsa[resu].*² Dr. Fleet, who has edited both of these records, translates the word *Krtem* by "fully complete," but admits that it involves a straining. Besides, with this meaning the word is made redundant by *yatesu*, which is used along with it in the second inscription. But now that we know that *Krta* was the name of Vikrama Samvat, the occurrence of the term in the Bijaygadh and Gangdhar records becomes perfectly clear and intelligible.

In connection with this discussion it is necessary to take into consideration a fourth inscription, which I discovered in December 1915 at Nagarl, seven miles north of Ohitorgarh in the Udaipur State, Rajputana. The most important part of it consists in the specification of the date, which has been expressed in the following words:

Krtem catursu varsa-satesu ekasity-uttaresvasyam
'Malava-purnvayUm 400 80 1 Karttika-sukla-pancamyam.

The first portion of the date speaks of four hundred and eighty-one *Krta* years as having elapsed at the time of the gift recorded in the inscription. There can be no doubt that the term *Krta* of the Nagarl epigraph also has to be taken in the sense of Vikrama Samvat and that consequently the year 481 is of the Vikrama era. The second portion of the date makes mention of the lunar day in the words: 481 *Karttika-sukla-pañcamyam*, i. e. on the 5th day of the bright half of Karttika of the year 481. "The most

interesting expression is that which qualifies *paflcamyam*, viz. *Malava-purvayam*. What is the meaning of the word *purva* in this expression? At first sight it seems tempting to take it in the sense in which the word has been used in the phrase *etasyam purvayam*, which we meet with in Kusana and Gupta inscriptions. But a little reflection will convince anybody that it cannot suit here, because this phrase always follows the specification of the date and not precedes it as in the present record. It is worthy of note that Apte's dictionary gives 'established, customary, of long standing' as one of *the significations of *purva*. Unfortunately, no reference has been cited in support of it. But the sense suits here most excellently, and, what is more, the phrase *Malava-purvayam* of our record is thereby brought into consonance with the expressions *Malavanam gana-sthitya*, *Malava-gana-sthiti-vasat* or *Malava-gayamnate* of other inscriptions. *Matava-purva* thus means "established or customary among the Malavas." Now it deserves to be noticed that the expression *Malavu-purvayam* qualifies *paflcamyam* (*tithauj*). This, therefore, clearly shows that the Malavas had their own peculiar system of reckoning the *tithi* of the Kṛta (i. e. Samvat) year. We know that the years of the Vikrama era found in the old inscriptions present different methods of computation. Thus while some are according to the Karttikadi, others are according to the Caitradi, system. Some *tithis* again conform to the Purnimanta and some to the Amanta arrangement of the lunar months. The Malava system may have represented one of these two peculiarities or perhaps even a combination of both. Whatever the method of their computation was, this much is certain that not only the *tithis* but even the years were affected thereby. And this is the reason why we find the phrases *Malava-gaya-sthiti* and *Malava-gariamnata* used in connection with the (Vikrama) years as distinguished from the *tithis*. In the Nagarī epigraph too, the year 481 has for the same reason been expressly included in the specification of the *tithi*. As just stated, the Malavas had nothing to do with the foundation of the Vikrama era. The old name of the Vikrama eras

was Krta, whatever that name may mean. The connection of the Malavas with this era was only in regard to the system of reckoning the *tit his* and thereby the years also. In my paper on the Mandasor inscription of Naravarman I had suspected this, but this is now unmistakably demonstrated by the expression *Mulava-purvayam* of the Nagari record used as an adjective of *paficamyam (tithau)*.

NEW LIGHT ON GUPTA ERA AND MIHIRAKULA

BY K. B. PATHAK

I propose in this paper to determine the starting point of the Gupta era with the help of Jaina authors who preceded Alberuni, without relying in any way on the conflicting statements made by that celebrated Mahomedan writer, both as regards the origin and the epoch of the era so well known to the students of Indian epigraphy. I hope to be able to elucidate the problem, which has given rise to so much controversy, with greater precision and accuracy than have attended the efforts of those scholars who have already discussed this interesting chronological question. There are four important passages in Jaina literature. Of their value as contributions to the study of Indian history it is impossible to speak too highly. The first passage¹ is the one in which Jinasena says that he wrote *in* Saka 705. This has elicited an interesting dismission, and taxed to the utmost the ingenuity and learning of scholars *in* their attempts to identify the contemporary reigning sovereigns mentioned therein. The second, third and fourth passages are prophetic, in which future events are announced. Some of these events are historical, though they are mixed up with many legendary details. In the second passage^{5*} we are told by Jinasena that the Guptas reigned 231 years and were succeeded by Kalkiraja, who reigned 42 years and that his successor was Ajitanjaya. The third passage³ is the one in which Jinasena's pupil Gunabhadra says that Kalkiraja was the father and predecessor of Ajitanjaya, that he was a great tyrant who oppressed the world and persecuted the Jaina community of Nirgranthas, and that he reigned 40 years and died at the age of 70. As regards the date of Kalkiraja we learn from Gunabhadra that the tyrant was born when one thousand years of the *Dharmika kala*, commencing from the Nirvana of Mahavira,

1 Ind. Ant. vol. xv p. 143.

2 Ibid.

3 Given at the end of this paper.

had elapsed and when there occurred the union of a sarii-vatsara with Magha-naksatra, that is to say, when there occurred a Magha-samvatsara. The fourth¹ passage, which is an illuminating commentary on the second and third passages is found in the *Trilokasara*, in which Nemicaandra reproduces some of these details of the story of Kalkiraja and adds that the Saka king was horn when six hundred and five years and five months had passed by from the Nirvana of Mahavlra, and that king Kalkiraja was born when three hundred and ninty four years and seven months had gone by from the rise of the Saka king, that is, when three hundred and ninty four Saka years and seven months had elapsed. If we add 605 years and 5 months to 394 years and 7 months—

years	months
605	5
394	7

1000 years

we get 1000 years, the interval of time, according to Gunabhadra and Nemicaandra between the Nirvana of Mahavlra and the birth of Kalkiraja. The most interesting and important point which is worth noticing here is the fact that the date of Kalkiraja, who immediately succeeded the Guptas, is given in terms of the Saka era; he was born when 394 Saka years and 7 months had gone by and when, according to Gunabhadra, there occurred a Magha-samvatsara.

Before discussing the historical inferences which these facts suggest we should know the dates of the three Jaiaa authors on whose statements we place our reliance. Jiaa-sena wrote in Saka 705- He must have died about Saka 760, the latest date which can be assigned to his unfinished work, the *Adipurana*; and his pupil Gunabhadra must have completed his *Uttarapurana* only a few years later.² Hie was far advanced in years, when after finishing the re-

1 Also given at the end of this paper.

2 See my paper entitled ' Bhartrihar! and KurafrUa' *Journal B B, R. A. S.*, vol. XVIII p. 213.

maining chapters of the Ādipurāṇa, he undertook to write his own portion of the Mahāpurāṇa.¹ And the use of the past tense आसीत् with reference to Guṇabhadra in the concluding praśasti² written in the time of his pupil Lokasena clearly indicates that the former had long been gathered to his fathers by Śaka 820 (A. D. 898). It is obvious, therefore, that he wrote shortly after Śaka 760, in the latter half of the ninth century.

As regards the date of the Trilokasāra, we know that its author Nemicaṇḍra enjoyed the patronage of Cāmuṇḍarāja (A. D. 778).³ This statement is confirmed by Nemicaṇḍra himself who, in the concluding praśasti of his Gomaṭasāra, Karmakāṇḍa, ninth chapter, thus praises Cāmuṇḍarāja—

अहि गुणा वि०स०भा गणहरदेवादि इ०वि०प०ताणं ।

सो अजियसेणणाहो ज०स गुरु जयउ सो राऊ ॥

[वृत्तिः] गणधरदेवादीनां ऋद्धिप्राप्तानां गुणा यस्मिन्विभ्राताः सोऽजितसेनायो यस्य प्रतयुक्तः स राजा सर्वोत्कर्षेण वर्तताम् ।

सि०ध०तुदयत०गयणि०मलवरणेमिचंद्रकरकलिया ।

गुणरयणभूषणंमुहि मइवेला भरउ भुवनयलं ॥

[वृत्तिः] सिद्धातोदयाचले उदितनिर्मलवरनेमिचंद्रकिरणैर्वर्धिता गुणरत्नभूषणंमुवेक्ष्यमुदरायसमुद्रस्य मतिवेला भुवनतलं पूरयतु अथवा भुवने अतिशयेन प्रसरतु ।

In his Purāṇa completed in Śaka 700 Cāmuṇḍarāja tells us that he was the disciple of Ajitasena and had the title of Guṇaratnabhūṣaṇa. From Śrāvana Belgola inscrip-

1 Compare, Uttarapurāṇa, chapter 57—

जिनसेनाउगादास्मै पुराणकथये नमः ।

गुणभद्रभद्रताय लोकेनेनार्चितप्रिये ॥

2. Compare—

प्रत्यक्षीकृतकृत्यलक्षणविधिर्विशोपविद्यान्तरात्
सिद्धाताध्यापनयानजनितप्रागल्भ्यबद्धेक्षणी ।
नानातुलनयप्रमाणनिपुणोऽयमैश्वर्यैश्वर्यवितः
शिष्यः श्रीगुणभद्रभद्ररत्नयोरसोज्ज्वलद्विभूतः ॥

3 Nagar Insc. 46, Epi. Car. Vol. VIII—

विलोकसारमस्तुल [प्रबन्धान्]
[विरच्य सकीन्] अवि नेमिचन्द्रः ।
विभाति सैद्धांतिकसार्धभौम-
आमुण्डरायार्जितपादपः ॥

tions, we learn¹ that Cāmundarāja was the minister of king Rācamalladeva, an ornament of the Ganga dynasty, which was uplifted by the sage Simhanandin. This was the Gaṅga king Rācamalla IV who was reigning in A. D. 977.² These facts are also alluded to in the Sanskrit commentary on the Gomatasāra, which opens thus—

श्रीमदप्रतिहतप्रभावस्याद्वादशासनगुहाभ्यन्तरनिवासिसिंहायमानसिंहनादिर्नदितंगंगवंश-
खलामराजसर्वज्ञावनेकगुणनामधेयभागधेयश्रीमद्राज(च)मल्लदेवमहीवल्लभमहामाल्यपदविराज-
मानरत्नरंगमल्लासहायपरक्रमगुणरत्नभूषणसम्यक्त्वरत्ननिलयादिविविधगुणनामसमासादितकी
र्तिकांतश्रीमच्चामुंदरायप्रश्नावतीर्णैकचत्वारिंशत्पदनामसत्त्वरूपणद्वारेणाशेषविनेयजननिकुरं-
संबोधनार्थं श्रीमशैमिर्वर्तसैद्धांतचक्रवर्ती इष्टविशिष्टदेवताविशेषं नमस्करोति ।

The Kannada poet Ranna, who adorned the court of the Cālukya king Tailapa II, who was born in A. D. 949 and who wrote his Gadāyuddha in A. D. 982, had Ajitasena for his teacher and Cāmundarāja for his patron.³ These facts lead to the conclusion that Nemicandra lived in the latter half of the tenth century. It is thus clear that Jinasena, Gunabhadra and Nemicandra preceded Alberūnī who wrote in the first half of the eleventh century.

In order to enable Sanskrit scholars to realise the importance of the facts which Jaina literature holds in store for them, I must repeat here the exact words of Jinasena (Harivaṁśa, chapter 60)—

गुप्तानां च शतद्वयम् ।

एकत्रिंशच्च वर्षाणि कालविद्भिस्तदाहृतम् ॥ 487 ॥

द्विचत्वारिंशदेवातः कल्किराजस्य राजता ।

ततोऽजितंजयो राजा स्यादिन्द्रपुरसंस्थितः ॥ 488 ॥

वर्षाणां षट्शतीं त्यक्त्वा पंचाग्रां मासपंचकम् ।

मुक्तिं गते महावीरे शकराजस्ततोऽभवत् ॥ 552 ॥

Gunabhadra says that when one thousand years of the *Duṣṣama kūla*, commencing from the Nirvāṇa of Mahāvira, had elapsed Kalkirāja was born. Jinasena says that the Śakarāja was born when 605 years and 5 months had passed by from the Nirvāṇa of Mahāvira. If we subtract

1 Mr. Rice's Śrāvaṇa Belgola Inscriptions, Introd. p. 34.

2 From Mr. Rice's Mysore and Coorg Inscriptions,

3 Karṇāṭaka-kavi-carita, p. 54.

605 years and 5 months from one thousand years, the re-

years	months

1000	0

605	5

394	7

mainder is 394 years and 7 months. It is thus clear that, according to Jinasena and Gunabhadra, Kalkiraja was born when 394 years and 7 months had passed by from the birth of the Saka king. Nemicandra says exactly the same thing when he tells us that, after the lapse of 605 years and 5 months from the Nirvana of Mahavira, the Saka king was born, and that, after the lapse of 394 years and 7 months from the birth of the Saka king, Kalkiraja was born. Gunabhadra adds that when 394 years of Saka era and 7 months more had passed by, there occurred a Magha samvatsara—

चतुर्मुखाब्ध्यः कल्किराजाद्वाजतभूतलः ।

उत्पत्स्यते मघासंवत्सरयोगसमागमे ॥

This is a prophecy put into the mouth of Gautama-Gaṇadhara who says—

“There shall be born the king Kalkin, named Caturmukha, the oppressor of the world, on the occurrence of the union of a samvatsara with the Maghā-nakṣatra.” When a samvatsara becomes मघानक्षत्रयुक्त, it is named मघासंवत्सर. After the nakṣatra the word मघा takes the termination अण according to the sūtra of this Jainendra Vyākaraṇa—

गुरुदयात् भाद युक्तोद्भूतः (iii. 2. 5.)

गुरुर्बृहस्पतिः तस्योदयो यस्मिन् नक्षत्रे तद्वाचिनो मृदः भासमर्थाद् युक्त इत्येतस्मिन्नर्थे यथाविहितं ल्यो भवति यो युक्तोर्थः स चेदब्दः स्यात् । गुरुदयेन पुष्येण युक्तोद्भूतः पौषः संवत्सरः । फाल्गुनं वर्षम् । शब्दार्णवचंद्रिका, Benares ed p. 86.

Gūṇanandin thus explains the Jainendra sūtra—

गुरुर्बृहस्पतिरुदेति यस्मिन् नक्षत्रे तद्वाचिनो भासमर्थाद् युक्त इत्येतस्मिन्नर्थे यथाविहितं ल्यो भवति योऽसौ युक्तः स चेदब्दः संवत्सरः स्यात् । इत्यण् । एरिल्यखम् (iv. 4. 150) तेष पौषं मे (iv. 4. 157) इति यखम् । पौषः संवत्सरः पौषं वर्षम् । एवं-फाल्गुनः संवत्सरः फाल्गुनं वर्षम् । Jainendraprakriyā, part ii. p. 162, Benares ed.

Hemacandra, who owes his explanation to Śākaṭāyana, says—

उदितगुरोर्भायुकेन्द्रे (vi. 2. 5)

उदितो गुरुर्हस्परित्यस्मिन् मे नक्षत्रे तद्वाचिनस्तृतीयान्ताद् युक्तेऽर्थे यथाविहितं प्रत्ययो भवति सचेद्युक्तोर्थोद्दः संवत्सरः स्याद् । पुष्येणोदितगुरुणा युक्तं वर्षं पौषं वर्षम् । फल्गुनीभिर्दितगुरुभिर्भुक्तः फाल्गुनः संवत्सरः । उदितगुरोरिति किम् । उदितशनेश्वरेण पुष्येण युक्तं वर्षमित्यत्र न भवति । भादिति किम् । उदितगुरुणा पूर्वरात्रेण युक्तं वर्षम् । अद्द इति किम् । मासे दिवसे वा न भवति । *Bṛhadvṛtti* vi. 2. 5.

From the Jaina grammatical sūtras¹ and commentaries cited above it is obvious that Gunabhadra's expression मघा-संवत्सरयोगसमागमे means "on the occurrence (समागमे) of the union (योग) of मघा[नक्षत्र] and a संवत्सर; that is to say, मघाभि-युक्तः संवत्सरः माघः. The word माघ, in the sense of a Māgha-samvatsara, is formed from मघा, which is in the instrumental case, by the suffix अण्; the आ of मघा, being elided, is replaced by अ of the suffix अण्, while अ, the first vowel in मघा, undergoes वृद्धि. We have thus the expression माघसंवत्सर. This is the teaching of Pūjyapāda, Śākaṭāyana, Hemacandra and Guṇanandin.

The occurrence of a Māgha-samvatsara in purely literary records, apart from early inscriptions and astronomical works, is of unique interest; and its supreme importance from a chronological point of view we shall now proceed to show.

We have seen that 394 Śaka years and 7 months had elapsed at the birth of Kalkirāja. The seven months completed belong to the current Śaka year 395. The first day of the eighth month, Kārttika Śukla 1, was the day on which Kalkirāja was born, since a Śaka year commences with Caitra Śukla. The year that is actually mentioned by the Jaina writers is the expired Śaka year 394. Let us convert this into an expired Vikrama year by the addition of 135 according to the rule—

स एव पंचाग्निकुम्भिर्युक्तः स्याद्विक्रमस्य हि ।

रेवाया उत्तरे तीरे संवत्साम्नातिविधुतः ॥ २ ॥ *Jyotiṣasāra*

¹ Cf. also वस्येति च, Pāṇini vi, 4, 148, and तिष्यपुष्यसोर्नेष्टनाभि, Vārtika on Pāṇini vi. 4. 149.

The result is¹ the Vikrama year (394 + 135 =) 529 expired. This expired Vikrama year is identical with the expired Mālava year 529, given as the second and later date in the Mandasor Inscription of Kumāragupta I and his feudatory Bandhuvarman and is expressed² in the following words—

वत्सरशतेषु पंचसु विशंत्य(विशंत्य)धिकेषु नवसु चाब्देषु ।
यातेष्वभिरम्य तपस्यमासशुक्लद्वितीयायां ॥

Vikrama Samvat 529 expired, Phālguna Śukla 2

Hence it is clear that the Mālava era is the same as the Vikrama era of B. C. 57. In order to elucidate the point further, the expired Śaka year 394 may be first converted into the corresponding Christian year by adding 78 thus—394 + 78 = 472 A. D; and then this Christian year 472 can be converted into the Mālava year 529 by adding 57—

$$472 + 57 = 529$$

$$472 = 529 - 57$$

$$\text{or } 394 + 78 = 529 - 57 = \text{A. D. } 472$$

It is thus evident that the Mālava era is the era of B. C. 57, which is known to us as the Vikrama samvat.

The first year in the same inscription, which is 36 years earlier, is the Vikrama year 493 expired, Pausa Śukla 13—

मालवनां गणस्थित्या याते शतचतुष्टये ।
त्रिनवत्यधिकेब्दानां रि(क्)तो सेव्यघनस्वने ॥
सहस्यमासशुक्लस्य प्रशस्तेहि त्रयोदशे ।

If we subtract 135 from Vikrama year 493 expired we get Śaka 358 expired. It is therefore evident that Kumāragupta with his feudatory Bandhuvarman was reigning in Śaka 358 expired, exactly 36 years before the birth of Kalkirāja in Śaka 394 expired. The year Śaka 394 expired is a Māgha-samvatsara. I give below four Śaka years with corresponding cyclic years beginning with this Māgha samvatsara of Śaka 394 expired, according to the rule³ of Varāhamihira—

1 पञ्चाशद्विंशति = 135; अष्टि = 3, कु = 1. अकारो नामतो गतिः ।

2 Dr. Fleet's Gupta inscriptions, p. 83; Ind. Ant. XV. p. 198.

3 Dr. Fleet's Gupta inscriptions, Appendix III, p. 161.

Saka	394	expired	Magha-samvatsara
„	395	„	Phalgun-samvatsara
„	396	„	Caitra-sarhvatsara
„	397	„	Vaisakha-sarhvatsara

The date given in the Khoh grant of Parivrajaka Maharaja Hastin is Gupta-samvat 156, which is specified¹ as a Maha-Vaisakha samvatsara—

**षट्पञ्चाशोत्तरेऽद्विंशते गुप्तनृपराज्यमुक्तो महावैशाखसंवत्सरे कार्तिकमासशुक्ल-
तृतीयायाम् ।**

The four Saka years with corresponding cyclic and Gupta years are exhibited in the following table that the Gupta years are expired will be proved further on—

Saka 394 expired = Magha-samvatsara = Gupta 153 expired

„	395	„	Phalgun	„	„	154	„
„	396	„	Caitra	„	„	155	„
„	397	„	Vaisakha	„	„	156	„

It will be evident from the foregoing table that Gupta years can be converted into equivalent Saka years by the addition of 241, in as much as each of the four equations stated above gives us a difference of 241. Kumaragupta I with his feudatory Bandhuvarman was thus reigning in Saka 358, corresponding to Gupta samvat 117² and to Vikrama year 493—

Saka 358 = Gupta samvat 117 = Malava or Vikrama 493

And Kalkiraja was born 36 years later in Saka 394, corresponding to Gupta samvat 153 and to Vikrama year 529—

Saka 394 = Gupta samvat 153 = Malava or Vikrama 529

It is worth noting that the birth of Kalkiraja took place only 5 years later than the latest date recorded for Skandagupta—Gupta samvat³ 148, equivalent to Saka 389,—and only one year earlier than the date⁴ of his son, Kumargupta II, — Gupta samvat 154, equivalent to Saka 395.

1 Gupta inscriptions, p. 95.

2 Bharadi inscription. A. S. Progr. Rep. N. C. 1907-8 p. 39.

3 V. Smith's Early History of India, 3rd ed. p. 327.

4 Annual Progress Report of the Superintendent! Hindu and Buddhist monuments, Northern Circle, 1915, p. 6.

वर्षशते गुप्तानां सचतुःपञ्चाशदुत्तरे भूमिम् ।
शासति कुमारगुप्ते मासे ज्येष्ठे द्वितीयायाम् ॥

That the Gupta year mentioned in this inscription as well as the one mentioned in the Khoh grant of Mahārāja Hastin referred to above is to be taken as expired is evident from the following inscription of Budhagupta,¹ Gupta samvat 157 expired—

गुप्तानां समतिक्रांते सप्तपञ्चाशदुत्तरे ।
शते समानां पृथिवीं बुधगुप्ते प्रशासति ॥

The general conclusion is that all the Gupta years including those given in the above table must be taken as expired.

This point can be further cleared up by a comparison of the five corresponding years of the Vikrama, Saka and Gupta eras exhibited in the following table—

MSlava or Vikrama	Saka	Gupta
529 expired	394 expired	153
530 "	395 "	154
531 "	396 "	155
532 "	397 "	156
533 expired	398 expired	157 expired

The Gupta year 157 is specified as an expired year in the inscription of Budhagupta which has been quoted above. The difference between the expired Saka year 398 and the expired Gupta year 157 is 241. The difference between the Saka year 394 and the Gupta year 153, is also 241. The Saka year 394 is known to be expired; therefore the Gupta year 153 must be taken as expired. The conclusion that forces itself upon us is that all the Gupta years mentioned in inscriptions are expired years and can be converted into corresponding expired Saka years by the addition of 241.

We have here established five uniform equations between expired Gupta and expired Saka years, with a difference of 241 in each case. The last equation is most important.

Expired	I	157=398	Expired
Gupta year		157=398	Sakayear

This date of Budhagupta inscribed on two Buddha images is thus expressed—¹ "When the year one hundred and fifty-seven of the Guptas had expired, on the 7th day of the month Vaisakha while Budhagupta is ruling the earth." The 7th of Vaisakha belongs to the current Gupta year 158 corresponding to the current Saka year 399—

Current	!	150^399	J	,Current
Gupta year			1	Saka year

Thus the difference between current Gupta and current Saka years is also 241, the same as the difference between expired Gupta and expired Saka years. Now the Sarnath date of Budhagupta, expired Gupta year 157, is only 8 years earlier than the date of the same Gupta king given² in the Eran pillar inscription—

The date is "in the year 165, on the 12th day of the bright half of Asadha, on Thursday." We are now in a position to explain this date thus—

Expired	165=-406	,ExPired
Gupta year		
	165=406	Saka
		year

"The 12th day of the bright half of Ashadha and Thursday" belong to the current Gupta year 166 corresponding to the current Saka year 407—

Current	!	166=407	,Current
Gupta year		166=407	Saka year

Here we cannot take the expired Gupta year 165 as current and make it correspond with the current Saka year 407 as, in that case, the difference between 165 and 407 would be 242, instead of 241 as required by the statements of the Jaina authorities and the Sarnath inscription of Budhagupta thus—

1 Ibid. p. 7.

2 Gupta inscriptions, p. 89.

Expired Gupta year (a) 165* (h) 406 ,Expired Saka year

Current Gupta year (c) 166-(d) 407 ,Current Saka year

A second reason for not making the Gupta year 165 correspond with the Saka year 407 is that from our established equation—

$$\begin{array}{rcl} \text{Expired} & 157 = 398 & \text{Expired} \\ \text{Gupta year} & \text{157} = 398 & \text{Saka year} \end{array}$$

it is evident that the Gupta year 165 is 8 years later than the Gupta year 157, while the Saka year 407 is 9 years later than the corresponding Saka year 398. A careful consideration of these facts leads to the conclusion that expired or current Gupta years can be converted into corresponding expired or current Saka years by adding 241.

The date in the pillar inscription of Budhagupta has been the subject of calculation and controversy for more than half a century. Many scholars have attempted to interpret this date by the statements of Alberuni, which were admitted on all hands to be conflicting. It may therefore be interesting to point out how many statements of this celebrated Mahomedan writer can now be accepted as correct. He says¹ that the era of Ballaba is subsequent to that of Saka by 241 years. The era of the Guptas also commences the year 241 of the era of Saka. Then he mentions the year 1088 of the era of Vikramaditya, the year 953 of the era of Saka, the year 712 of the era of Ballaba and of that of the Guptas, as equivalent years. These statements are reliable as they are in agreement with our equation thus—

MSlava or Vikrama	Saka	Gupta
(a) 529	- 394	- 153
(b) 1088	- 953	= 712
559	559	559
	339	339

¹ Gupta inscriptions, Introduction, p. 23 f.

The difference between Malava 529 and Saka 394 {s 135; that between Vikrama 1088 and Saka 953 is also 135; the difference between Saka 394 and Gupta 153 is 241; and that between Saka 953 and Gupta-Valabhi 712 is also 241; the difference between the Malava year 529 and the Gupta year 153 is 376; and the difference between the Vikrama 1088 and the Gupta-Valabhi year 712 is also 376. It is also interesting to note that from the year of the birth of Kalki-
raja in Saka 394 or Gupta year 153, when the Gupta empire was still enduring, to the year A. D. 1031-32 in which AlberuDI was writing, 559 years had elapsed.¹ So that his equation (b) is as accurate as if it had been formed by adding 559 to each of the equivalent years of the three eras in our own equation (a).

An interesting peculiarity of the years of the Malava era deserves to be noticed here. The second date in the Mandasor inscription of Kumaragupta I and Bandhuvarman is the Malava year 529 expired, Phalguna Sukla 2. The equivalent Saka year is 394 expired. Deduct 394 from our present Saka year 1839 in Western India. The result is 1445. Add 1445 to 529; the result is 1974. This will be our Malava or Vikrama year on Phalguna Sukla 2 next, in Western India. This is true according to our almanac. Let us now turn to the Mandasor inscription² of Yasodharman where the expired Malava year 589 with the season of Vasanta is thus mentioned—

पञ्चसु शतेषु शरदां यातोऽश्वेकान्नवतिसहितेषु ।

मालवगणस्थितिबशात्कालज्ञानाय लिखितेषु ॥

यस्मिन्काले कलमृदुगिरां कोकिलानां प्रलापा

भिन्दतीव स्मरशरनिभाः प्रोषितानां मनांसि ।

शृङ्गालीनां ध्वनिरनुरतं भारमन्त्रश्च यस्मि-

न्नाघूतज्यं धनुरिव नदच्छ्रूयते पुष्पकेतोः ॥

प्रियतमकुपितानां रामयन्बद्धरागं

किसलयमिव मुग्धं मानसं मानिनीनां ।

उपनयति नभस्त्वान्मानभङ्गाय यस्मि-

न्कुसुमसमयमासे तत्र निर्मापितोऽयम् ॥

Here the date is the वसन्त, i. e. चैत्र and वैशाख of the expired Mālava year 589, कुसुमसमय or पुष्पसमय being synonymous with वसन्त (Amara I, 3. 18). To-day is अक्षयतृतीया, i. e. वैशाख शुक्ल ३ of the Śaka year 1839 in Western India. The expired Mālava year 589 is 60 years later than the expired Mālava year 529. Add 60 to the expired Śaka 394. The result is the expired Śaka 454 corresponding to Mālava 589. Now deduct 454 from our present Śaka year 1839; the remainder is 1385. Add 589 to 1385 and we get Mālava year 1974 corresponding to our present Śaka year on अक्षय-तृतीया. But our Vikrama samvat to-day is 1973 because it is कार्तिकादि and will be found to be identical with the Mālava year 1974 on our next Phālguna Śukla 2, as has been shown above. This may be illustrated by the following diagram—

Mālava 529	=	Śaka 394	Mālava 529	=	Śaka 394
			फाल्गुन शु. २		
	+ 60 years				
Mālava 589	—	Śaka 454			
	वसन्त				
	+ 1385 years		+ 1445 years		
Mālava 1974	}	{	Mālava 1974	}	{
Vikrama } 1973			Vikrama } 1974		
samvat	=	Śaka 1839	=	Śaka 1839	
	वसन्त		फाल्गुन शु. २		
	अक्षयतृतीया				

The conclusion that is forced upon us is that the years of the Mālava era in the times of the Guptas and the Hūnas were Caitrādi Vikrama years. This will enable us to refute the opinion of Dr. Kielhorn¹ who, while admitting that the Vikrama era was called Mālava, says "The Vikrama era was Kārttikādi from the beginning, and it is

probable that the change which has gradually taken place in the direction of a more general use of the Caitradi year was owing to the increasing growth and influence of the Saka era." This erroneous view is also shared by Dr. Fleet¹ who says—"It can hardly be doubted that the original scheme of the Vikrama years is the one commencing with the first day of the bright half of Karttika (October-November)."

The fact that the years of the Malava era are Caitradi is most important. It will enable us not only to establish the absolute identity of the Gupta era with the Valabhi era, but also to ascertain the exact difference between the years of the Gupta era and of the Malava era on the one hand, and those of the Saka era on the other. The date of Col. Tod's Verawal* inscription is Vikrama samvat 1320 and Valabhi samvat 945, Asadha vadi 13 Ravi. From Diwan Bahadur Pillai's Indian Chronology, Table x. p. 92, we learn that Asadha vadi Ravivara falls in Saka 1186 corresponding to Caitradi Vikrama 1321, and is Sunday 25th May 1264 according to the Christian era. The Vikrama year 1320 mentioned in this inscription as equivalent to Valabhi samvat 945 is thus southern and Karttikadi; therefore the corresponding Caitradi Vikrama year or Malava year is 1321. We thus get the following equation—

	Saka		Malava		Valabhi
(a)	1186	-	1321	-	945

By deducting 792 from the above we get the next equation—

	Saka		Malava		Valabhi
(b)	394	=	529	=	153

By deducting 36 from (b) we get the following equation—

	Saka		Malava		Valabhi
(c)	358	-	493	-	117

We know³ that Kumaragupta I was reigning in Gupta samvat 117 which is thus identical with the Valabhi year 117. The last equation also proves that the exact dif-

1 Gupta Inscriptions, Intr. p. 66 f. n. 2.

2 Gupta Insor. Intr. p. 85.

3 A. S. Progr. Rep. N, C. 1907-08, p. 39; Ep. Ind. Vol. x, p. 70,

ference'between the Gupta and Saka years is 241; while that between the Malava and Gupta years is 376. Here our agreement is based on Col. Tod's Verawal inscription. This argument is easier to understand than that which is founded on the Magha-samvatsara of Saka 394 expired, and which presupposes a knowledge of the grammatical sutras of Puṣyapada and Sakatayana. The conclusion arrived at by these two independent lines of argument is the same, namely, that the difference between Gupta and Saka year's is 241. We have also demonstrated that the difference between current Gupta years and current Saka years is 241. Thus—

Expired Gupta 157*398 Saka expired

Current Gupta 158 = 399 Saka current

It is of importance to note that in converting a Gupta* valabhi year into its Saka equivalent, it is not necessary to know beforehand whether the Gupta-Valabhi year is expired or current. If the resulting Saka is expired, the Gupta-Valabhi year must be expired. On the other hand, if the Saka year is current, the corresponding Gupta-Valabhi year must also be current. These observations can be illustrated by the Kaira grant of Valabhi samvat 330 and by the Verawal inscription of Valabhi samvat 927. The date in the Kaira grant is thus expressed¹—

Sam. 300 30 dvi-Margasira su. 2.

Here the Valabhi year 330 can be converted into Saka 571 by adding 241. The exact date is अधिकमागशीषे शुक्ल २. On referring to Hindu Tables we find that the intercalary Margasīrsa actually falls in Saka 571. This Saka year is therefore current and equivalent to Valabhi 330. Our equation is thus—

Current Valabhi 330-571 Saka current

The date of the Verawal inscription of Valabhi samvat 927 is thus expressed²—

1 Gupta Insor. Intr. p. 93.

2 Gupta Insor. Intr. p. 91,

SrImad-ValabhIsa[m]vat927Ph5lguna Su. 2 Sau(So)mS.
By adding 241 to 927 we get the following equation

$$\text{Valabhl } 927 = 1168 \text{ Saka}$$

By astronomical calculations the late Mr. S. B. Dikshit arrived at Saka 1167 expired as the equivalent year. Therefore the current Saka year is 1168, which corresponds to current Valabhl 927. Our equation therefore is—

Current Valabhl 927-1168 Saka current

These two records dated in current Valabhl years are most important and interesting as they amply refute the erroneous theory of Dr. Fleet that the running difference between, current Gupta-Valabhi years and current Saka years is 242. Nor can we accept as correct his opinion that the two Vikrama years 706 and 1303 are southern and the nominal equivalents of the current Valabhl years 330 and 927 respectively. For, on a comparison with the following equations—

Saka		Malava		Gupta-Valabhl
394	←	529	-	153
571	-	706	-	330
1168	-	1303	-	927

it is obvious that these Vikrama years are Malava or Caitradi and the real equivalents of the two Valabh¹ years, and do not differ from southern Vikrama years, because they are coupled with the months of Margasirsa and Phalguna in these inscriptions.

On the other hand the year 386, which is the date in the Nepal inscription of Manadeva, is expired, because it can be converted into expired Saka 627 by adding 241, and does not correspond to current Saka 628, as maintained by Dr. Fleet.¹

Alberunfs first statement that Gupta years can be converted into Saka years by adding 241 was perfectly accurate. But it was invalidated by a second statement which he made to the effect that the Gupta era dated from the extermination of the Guptas. This led many scholars to discredit his statements entirely.

1 Gupta Inscriptions, Intr. p. 95 ff.

Dr. Fleet's discovery of the Mandasor inscription was very interesting and important. But his attempt to prove that the Malava era was the same as the Vikrama era of B. C. 57 was a failure and looked like the attempt of a person who has, to use Dr. R. G. Bhandarkar's words,¹ "to determine the value of one unknown quantity by means of another unknown quantity, which cannot be done." Nor was Dr. Fleet more successful in interpreting the date of the pillar inscription of Budhagupta when he said that the Gupta year 165 was a current year and that³ "in following Alberuni's statement and adding two hundred and forty-one what is really accomplished is the conversion of a given current Gupta-Valabhi year into an expired Saka year, by which we obtain precisely the basis that is wanted for working out results by Hindu Tables, viz. the last Saka year expired before the commencement of the current Saka year corresponding to a given current Gupta-Valabhi year; and that the running difference between current Gupta-Valabhi and current Saka years is two hundred and forty-two." That this view is erroneous will be obvious from a careful consideration of the following two equations which have been explained above—

Expired Gupta year (a) 165 $\Rightarrow$ (b) 406 expired Saka year

Current Gupta year (c) 166 = (d) 407 current Saka year

Dr. Fleet has mistaken the expired Gupta year (a) 165 for a current year and made it correspond to the current Saka year (d) 407 and drawn the wrong inference that the difference between current Gupta years and current Saka years is 242 instead of 241. His final conclusion, which is also due to the above mistake, that³ "in the absence of any distinct specification to the contrary, we must interpret the years in Gupta-Valabhi dates as current years"

I Jour. Bom. Br. R. A. S., Vol. XVII, part II, p. 92. See Buhler's opinion, Ind. Ant. XV, p. 339, and Cunningham's letter, Ibid. p. 347.

2 Gupta inscriptions, Introd. p, 84,

3 Idem. p. 129 f

is equally erroneous. Dr. Fleet attacks¹ Dr. R. G. Bhandarkar's view that " the addition of 241 would turn a past Gupta year into a past Saka year; and the addition of 242, a past Gupta year into a current Saka year." But this view, which is found to be in accordance with the statements of the Jaina authorities and the Sarnath inscription of Budhagupta, must now be accepted as final and decisive on the point at issue.

Let us turn to the date of the Morvi copper plate grant,² which is thus expressed—

पद्माशीत्या युतेतीति समानां शतपञ्चके ।
गोप्ते ददाददो नृपः सोपरागेर्कमंडले ॥

This means that the king made the grant, when 585 years of the Guptas had expired, on the occurrence of a solar eclipse. The eclipse, therefore, occurred in the current Gupta year 586. Our equation is—

Expired Gupta 157 « 398 expired Saka.

Now the expired Gupta 585 is 428 years later than the expired Gupta 157. By the addition of 428 to both sides we get the new equation—

Expired Gupta 585 = 826 expired Saka

The equivalent Saka year 826 can also be obtained by adding 241 to 585. Therefore—

Current Gupta 586 = 827 current Saka

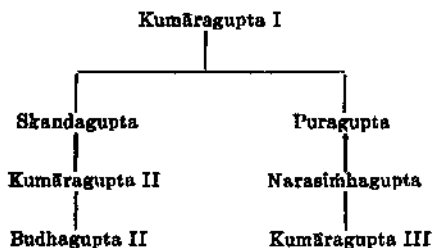
The solar eclipse alluded to in the grant is therefore the one that occurred on the new moon of Margasirsa, Saka 827 current, corresponding to the 10th November A. D. 904. There was a solar eclipse also in the following Saka year 828 current, on Jyestha Bahula Amavasya, corresponding to the 7th May, A. D. 905. Dr. Fleet's view that this second eclipse is the one alluded to in the grant is untenable as the Saka year 828 is obtainable by adding 242 to the current Gupta year 586; and this is, as we have seen, against the statements of our Jaina authorities and the two Sarnath inscriptions. Nor can we accept his reading *Oopte* and his

1 Idem. p. 84, n. 1.

2 Gupta laser. Intr. p. 97,

explanation of it as the name of a village; for on the analogy of the expression गुप्तानां शते found in the two Sarnath inscriptions of Kumaragupta II and Budhagupta we must expect the reading गुप्ते शतपत्रके in the Morvi grant. If the reading be it should be corrected into . It is thus clear that Dr. Fleet's reading and interpretation of the date in the Morvi copper plate grant are positively wrong. On the other hand the decision of Dr. R. G. Bhandarkar on this interesting point is upheld by our Jaina authorities and the Sarnath inscriptions of Kumaragupta II and Budhagupta.

The connection of Kumaragupta II and Budhagupta with the main line of the Imperial Guptas may be exhibited in the following genealogical tree—



The rule that Gupta years can be converted into Saka years by adding 241, may be illustrated thus: Skandagupta ascended the throne in Gupta sarnvat 136. In the very first year of his reign, the Gupta empire was invaded by the Hunas. Kalidasa assures us that the Hunas, who enjoyed the reputation of being the most invincible warriors of their age, were still on the Vankusu(Vaksu)tIra or Oxus banks, when he wrote his well-known verses. The Huna empire in the Oxus Basin was founded about A. D. 450. The date of the invasion of the Gupta empire by the Hunas and their defeat by Skandagupta, namely the Gupta year 136, must therefore be subsequent to about A. D. 450 by a very few years. By calculating 24 years backwards from Saka year 394, corresponding to the Gupta year 153, we arrive at Saka 370 (= A. D. 448) corresponding to the Gupta samvat 129. Now the Gupta year 129 (A. D. 448) is

the 36th regnal year of Kumaragupta I. In A. D. 448, in the reign of Kumaragupta I, the establishment of the Huna empire in the Oxus Basin may be placed. That the year A. D. 448 is the exactly correct date of this event, while the year A. D. 450 is only approximate will be shown hereafter. The Gupta year 136 (A. D. 455) is thus only 7 years subsequent to A. D. 448. Kalidasa's reference to the Hunas being the most invincible conquerors of their age, and as being still in the Oxus Basin, must have been made between A. D. 448 and A. D. 455. Kalidasa and Skandagupta were thus contemporaries. This argument needs no elaboration here, as it has been discussed at length in the introduction to my second edition of the Meghaduta, (pp. x, xi, xii) where it is shown that the fall of the Gupta empire took place towards the close of the fifth century. Jinasena, who writes a little less than three centuries later, has preserved to the world the oldest, and therefore the most reliable, text of the Meghaduta as yet discovered, while his pupil Gunabhadra says that the Kumarasambhava was widely read in his time and was the delight of every class of people, young as well as old.¹

From a comparison of the Eran pillar Inscription of Budhagupta and the Eran Boar inscription of Toramana it can be conclusively proved, as has been shown by Dr. Fleet, that² Toramana came after Budhagupta. The latest date for Buddhagupta is Gupta sarnvat 180 corresponding to Saka 421 or A. D. 499. Toramana was the father of Mihirakula. Mihirakula was defeated by Yasodharman who was reigning³ in Malava or Vifcrama year 589 corresponding to Saka 454 (A. D. 532). The first regnal year of Toramana is mentioned in the Eran Boar inscription, while

1 Compare, for instance, उचरपुराण, Chap. 59, stanza 36—

सर्वर्ष्य विषद्वी च हेतुं स्वयमपैति क ।
इत्यावालप्रसिद्धं किं न वेत्ति विषद्वीत्यते ॥ 36 ॥

with कुमारसंभव ii. 55—

विषद्वीत्यपि सर्वर्ष्य स्वयं हेतुममापतम् ।

2 Ind. Ant. vol XVIII, p. 227.

3 Gupta inscriptions, pp. 150, 158, 162.

the 15th regnal year of his son Mihirakula is given in his Gwalior inscription. These two regnal years must fall between Gupta sarhvat 180 and Malava year 589, corresponding to Saka 421 (A. D. 499) and Saka 454 (A. D. 532) respectively, according to our Jaina authorities. It is worth noting that the inscription which records the defeat of Mihirakula by Yasodharman is not dated. But from another inscription of Yasodharman dated in Malava or Vikrama year 589, the approximate date of Mihirakula is ascertained. This Mihirakula is believed by Dr. Fleet and other scholars to be identical with the famous tyrant Mihirakula, whose career has been described in such vivid colours by the Chinese traveller Hiuen Tsiang and by Kalhana in the *Rajataranginī*. On the other hand our Jaina authorities tell us that the Early Gupta kings were immediately succeeded by the great tyrant Caturmukha-Kalkin, Kalkin or Kalkiraja. He was a paramount sovereign (महीं इत्सनां स भोक्ष्यति). He was foremost among wicked men (दुर्जेनादिमः), a perpetrator of sinful deeds (अकर्मकारिन्). He oppressed the world (उद्ध्वेजितभूतलः). He asked his ministers whether there were any people on earth who did not owe allegiance to him; the reply was, none but the Nirgranthas. He thereupon issued an edict that the first lump of food offered to the Jaina community of Nirgranthas at noon every day by pious people should be levied as a tax. The Jaina Nirgranthas are allowed by the rules of their religion to take their meal at noon once a day. If any or difficulty occurs at that hour, they must wait for their meal till noon on the following day. The result of the tyrant Kalkiraja's edict was that the Nirgranthas were exposed to utter starvation. Unable to bear this spectacle, a demon appeared and killed the tyrant with his thunderbolt. Kalkiraja then went into the hell called Ratnaprabha, there to live countless ages and to endure misery for a long time.¹ We may compare this account with the statement² of Hiuen Tsiang as regards Mihirakula—"the holy saints said, in

1 See the passage given at the end.

2 V. Smith's *Early History of India*, 3rd. Ed. p. 319,

pity, for having killed countless victims and overthrown the law of Buddha, he has now fallen into the lowest hell, where he shall pass endless ages of revolution."

We have seen that the tyrant Kalkiraja was a paramount sovereign. The Mihirakula of the inscriptions also was a paramount sovereign, because he bowed down before none save the god Siva. The real meaning of the verse, in which this fact is stated, and which was misunderstood by the translators of the Gupta inscriptions, has been pointed¹ out by the present writer and by Dr. Kielhorn. Like the Mihirakula of the inscriptions the tyrant Kalkiraja came immediately after the Early Guptas; that is to say, he overthrew the Early Gupta sovereignty. The Mihirakula of the inscriptions was therefore a tyrant and must be identical with the tyrant Mihirakula of Hiuen Tsiang and of the Rajataranginī. Then again, like the tyrant Mikirakula, the tyrant Kalkiraja (A. D. 472-542)² was reigning in A. D. 520 when the Chinese pilgrim Song Yun visited this country, and was still on the throne when the Greek monk Cosmas came to India about A. D. 530. There is no denying the cogency of these arguments, which lead to the inevitable conclusion that Kalkiraja was only another name of the famous tyrant Mihirakula. It is to this great Huna conqueror that the Jaina author Somadeva, contemporary with the Rastrakuta king Krsnaraja III, alludes when he says—

नामुग्रहस्तोऽशोभितो वा कश्चित्स्वमण्डलान्वेषये प्रावेशो न (त्रि)गोच्छेदः । श्रूयते हि किं
हणाधिपतिः पश्यत्वाहिमिः सुभटैश्चित्रकूटं जग्राह ।

The Jaina version of the story of Mihirakula has this advantage over the Buddhist and Brahmanical versions that, while the two latter afford no clue to the real date of the tyrant, the former gives the exact dates of his birth and death. Not only is the approximate date of the tyrant

1 See ray paper entitled "Nripatuhga and the authorship of the Kavirajamarga." Jour. Bom. Br. R. A. S. Vol. XXII p. 82 ff; Ind. Ant, Vol. xviii, p. 219.

2 See below, p. 217.

3 Bombay ed p, 79.

deduced from inscriptions and coins amply corroborated by the Jaina authors, but they supplement, in a material degree, the information which we owe to those two independent sources.

The famous tyrant Mihirakula, accounts of whose cruel deeds have been preserved to us in Buddhist, Jaina and Brahmanical literatures, was then born on the 1st of the bright half of the month Karttika in Saka 394 expired, the cyclic year being a Magha-samvatsara, corresponding to A. D. 472. And he died at the age of 70 in Saka 464 or A. D. 542. Jinasena assigns to him a reign of 42 years, while, according to Gunabhadra and Nemicandra, he reigned 40 years. Deducting 42 or 40 from A. D. 542 we get A. D. 500 or A. D. 502. We shall accept A. D. 502 for the initial year of Mihirakula's reign. His fifteenth regnal year must be A. D. 517. His father Toramana's first year may be safely taken to be A. D. 500, coming after Gupta saihvat 180 or A. D. 499, the latest date for Budhagupta. And the figure 52 found on Toramana's silver coins corresponds to A. D. 500, the initial year of his reign. If calculated backwards, the figure 52 brings us to A. D. 448,¹ which is thus the exact date of the foundation of the Huna empire in the Oxus Basin.

The tyrant Mihirakula died in A. D. 542, just a century before Hiuen Tsiang was on his travels, and exactly 241 years before Jinasena wrote his passage relating to the Guptas. Jinasena says that he owes his information to chroniclers who preceded him. These chroniclers must be as near in time to the period of the Huna sovereignty as Hiuen Tsiang himself. In the light of these facts we feel that we are in a position to discard as baseless the opinion of the Chinese pilgrim that Mihirakula lived 'some centuries previously,' as it comes into conflict with the statements of the Jaina writers, which have been shown to rest upon contemporary Gupta inscriptions. On the same ground we should reject as valueless the view of Alberuni, admittedly a later

writer than our Jaina authorities, that the Gupta era dated from the extermination of the Guptas. This erroneous opinion of AlbSrunI, coupled with his conflicting statements as to the difference between Saka and Gupta years being 241, 242 or 243,¹ led to a fierce controversy over the epoch of the Gupta era, which has raged now for more than 78 years since 1838, when Mr. James Prinsep discussed the date of the Kahaum pillar inscription of Skandagupta. A great step in advance was made when Dr. Fleet discovered his Mandasor inscriptions. But his method of proving that the Malava era was the same as the Vikrama era of B. C. 57 left a great deal to be desired. Now that we have placed his hypothesis on a footing of certainty, unstinted praise should be given to Dr. Fleet for his interesting discovery. But that he claimed more for his discovery than was its due has been already shown. Nor should we refuse to pay a well-merited tribute to Mr. D. R. Bhandarkar for his discovery of an earlier date in the Vikrama era, namely 461, referable to the reign of Candragupta II. Mention should be made here of the synchronism between Samudragupta and the king Meghavarna of Ceylon discovered by M. Sylvain Levi to whom our thanks are due. But this synchronism, valuable as it is, should be utilized not in proving the epoch of the Gupta era, as was suggested by some scholars, but in rectifying Ceylonese chronology, which is full of uncertainty, as various dates are proposed for king Meghavarna. Nor should we omit to express our gratitude to Mr. Hargreaves who has lately discovered the two Gupta inscriptions, one of Kumaragupta II dated Gupta samvat 154, and the other of Budhagupta dated Gupta samvat 157, which have enabled us, with the help of our Jaina authorities, to prove that the Gupta years between 153 and 157 are expired and not current years.

Thus the controversy, which has raged over the epoch of the Gupta era for more than 78 years, is finally set at rest.

1 Gupta inscriptions, Introd. p. 25; Ind. Ant. Vol. XV, p. 189.

Extract from Guṇabhadra's
Uttara-purāṇa, chap. 76

अथान्यदा महाराजः श्रेणिकः क्षायिकी¹दृशं ।
 दधन्नत्वा गणार्धांशं कुड्मलीकृतहस्तकः ॥ 387 ॥
 शेषावसर्पिणीकालस्थितिं निरवशेषतः ।
 आगाम्युत्सर्पिणीकालस्थितिमप्यनुयुक्तवान् ॥ 388 ॥
 गणी निजद्विजाभीष्टुप्रसरैः प्रीणयन्सभाम् ।
 गिरा गंभीरया व्यक्तमुक्तवानिति स क्रमात् ॥ 389 ॥
 चतुर्थकालपर्यन्ते स्थिते संवत्सरत्रये ।
 साष्टमासे सपक्षे स्यात्सिद्धः सिद्ध्यर्थनन्दनः ॥ 390 ॥
 दुःषमायाः स्थितिर्वर्षसहस्राण्येकविंशतिः ।
 शतवर्षायुषस्तस्मिन्नुत्कृष्टेन मता नराः ॥ 391 ॥
 समारन्निप्रमाणां रूक्षच्छाया विरूपकाः ।
 त्रिकालाहारनिरताः सुरतासक्तमानसाः ॥ 392 ॥
 परोपि दोषाः प्रायेण तेषां स्युः कालदोषतः ।
 यतोस्यां पापकर्माणो जनिष्यन्ते सहस्रशः ॥ 393 ॥
 यथोक्तभूभुजाभावाज्जाते वर्षादिसंकरे ।
 दुःषमायां सहस्राब्दव्यतीतौ धर्महानितः ॥ 394 ॥
 पुरे पाटलिपुत्राख्ये शिशुपालमहीपतेः ।
 पापी तनूजः पृथिवीसुन्दर्या दुर्जनादिमः ॥ 395 ॥
 चतुर्भुसाह्वयः कल्की राजोद्वेजितभूतलः ।
 उपत्स्यते मघासंवत्सरयोगसमागमे ॥ 396 ॥
 समानां सप्ततिस्तस्य परमायुः प्रकीर्तितम् ।
 चत्वारिंशत्समा राज्यस्थितिश्चाक्रमकारिणः ॥ 397 ॥
 वृष्णवत्युक्तपार्षद्विर्गस्याज्ञाविधायिनः ।
 निजभृत्यत्वमापाद्य महीं कृत्स्नां स मोक्षयति ॥ 398 ॥

1 which purifies the soul permanently by entirely destroying q^r or action. Cf. Tattvartha-RSjavSrtika I I, 1, 2 and 10, Benares Ed. I, p. 69, 2 MahSvTra.

3 So three Kannada Mss. of the Jaina Matha, Kolhapur, and one NSgan Ms. of the late Manikshet of Bombay. But I reject the reading JIST in some Deccan College. Mss., which gives no sense,

अथान्येषुः स्वमिथ्यात्वपाकाविष्कृतचेतसा ।

पाषाण्डिषु किमस्माकं संत्यत्राज्ञापराङ्मुखाः ॥ 399 ॥

कथ्यतामिति पापेन प्रहव्यास्तेन मंत्रिणः ।

निर्ग्रथाः संति देवेति ते वदिष्यन्ति सोपि तान् ॥ 400 ॥

आचारः कीदृशस्तेषामिति प्रक्षयति भूपतिः ।

निजपाणिपुटामंत्रा घनहीना गतस्पृहाः ॥ 401 ॥

अहिंसाव्रतरक्षार्थं त्यक्तचेलादिसंवराः ।

साधनं तपसो मत्वा देहस्थित्यर्थमाह्वेतिम् ॥ 402 ॥

एकाग्रुपोषितप्रान्ते भिक्षाकालेगदर्शनात् ।

निर्याचनां स्वशास्त्रोक्तां ग्रहीतुमभिलाषिणः ॥ 403 ॥

आत्मनो घातके त्रायके च ते समदर्शिनः ।

क्षुत्पिपासादिबाधायाः सहाः सत्यपि कारणे ॥ 404 ॥

परपाषाण्डिवक्त्रान्यैरदत्तमभिलाषुकाः ।

सर्पा¹ वा विहितावासा ज्ञानध्यानपरायणाः ॥ 405 ॥

अनृतसंचारदेशेषु संवसन्ति मृगैः सह ।

इति वक्ष्यन्ति दृष्टं स्वैर्विशिष्टास्तेस्य मंत्रिणः ॥ 406 ॥

श्रुत्वा तत्सहितं नाहं शक्नोम्यक्रमवर्तनम् ।

तेषां पाणिपुटे प्राच्यः पिंडः शुल्को विधीयताम् ॥ 407 ॥

इति राजोपदेशेन याचिष्यन्ते निथोगिनः ।

अग्रपिंडमधुंजानाः स्थास्यान्ति मुनयोपि ते ॥ 408 ॥

तदृष्ट्वा दर्पिणो नम्रा नाज्ञां राज्ञः प्रतीप्सवः ।

किं जातमिति ते गत्वा ज्ञापयिष्यन्ति तं क्षणम् ॥ 409 ॥

सोपि पापः स्वयं क्रोधादरुणीभूतवीक्षणः ।

उद्यमी पिंडमाहर्तुं प्रस्फुरद्दशनच्छदः ॥ 410 ॥

सोढुं तदक्षमः कश्चिदसुरः शुद्धहृद् तदा ।

हनिष्यति तमन्यार्थं शक्तः सन्सहते न हि ॥ 411 ॥

1 अमत्र a pot; cf. पाणिपात्रो दिग्भर ।

2 आहति = आहार, food.

3 वा = इव, अकृतावासा ।

सोपि रत्नप्रभो गत्वा सागरोपमजीवितः* ।

चिरं चतुर्मुक्तो दुःखं लोभावनुभविष्यति ॥ 412 ॥

.....

.....

तनूजः कल्किराजस्य बुद्धिमानजितंजयः ।

पत्न्या चालनया¹ सार्धं यातैनं शरणं सुरम्² ॥ 426 ॥

सम्यग्दर्शनरत्नं च महार्घं स्वीकरिष्यति ।

जिनेन्द्रधर्ममाहात्म्यं दृष्ट्वा सुराविनिर्मितम् ॥ 447 ॥

Extract from Trilokasūtra,

Palm-leaf Ms. p. 33

इदानीं शककल्किनोरुत्पत्तिमाह—

पण छत्सय वत्सं पणमासजुदं गमिय वीरणिचुइदो ।

सगराजो सो कल्की चट्टणवतियमैहिय सगमासं ॥ 840 ॥

श्रीवीरमाधनिर्वृतेः सकाशात् पंचोत्तरपक्षतवर्षाणि (६०५) पंचमासयुतानि गत्वा पश्चात् विक्रमांकर्षकराजो जायते तत उपरि चतुर्णवत्युत्तरत्रिंशत् (३९४) वर्षाणि मत्तः (७) मासाधिकानि गत्वा पश्चात् कल्की जायते ।

इदानीं कल्किनः कृत्यं गाथापदकेनाह—

सो उभगाहिमुहो चउभुहो सदरिवास परमाऊ ।

चालीस रजओ जिवभूमि पुछइ स मंतिगणं ॥ 841 ॥

स कल्क्युन्मार्गाभिमुखचतुर्मुखाख्यः सप्तति वर्षपरमायुष्यश्च चत्वारिंशद्वर्ष(४०)राज्यो जितभूमिः सन् स्वर्गत्रिगणं पृच्छति ।

अम्हाणं के अवसा णिगंधा अग्धि केरिसायारा ।

णिब्बणवन्था भिस्सामोजी जहसथमिदिवयणे ॥ 842 ॥

1 The name of the first hell.

2 सागरोपमः = असंख्येयः Tattvārtharājavarṭika III, 38, 8. (Benares Ed. II, p. 149).

3 Also called चेलना.

4 No distinction is made between हर and अहर in these passages.

5 This means 394 according to the principle अङ्कानां शततो गतिः ; see note 9. of खट्वाहद्वि (= 2800) विज्ञातवादिद्विंशतिवित् ॥ Guṇabhadra, Uttara-purāṇa, Chap-61.

6 This is a mistake. See my paper on the date of Mahāvīra, Ind. Ant. Vol. xii. 22.

अस्माकं के अवशा इति मंत्रिणः कथयति निर्ग्रथाः संति इति पुनः पृच्छति ते की-
दृशा इति निर्धनवत्त्वा यथाशास्त्रं भिक्षाभोजिन इति मंत्रिणः प्रतिवचनं ध्रुत्वा—

तपाणिउडे णिवद्धिदपद्धमं पिढं तु सुक्क मिदिगेहं ।

इदि णियमे सचिवकदे चत्ताहारा गया मुणिणो ॥ 843 ॥

तेषां निर्ग्रथानां पाणिपुटे निपतितं प्रथमं पिढं शुल्कमिति ग्राह्यमिति राज्ञो नियमे
सचिवेन कृते सति त्यक्ताहाराः संतो मुनयो गताः ।

तं सोद्धमत्तमो तं णिहणदि वज्जाउहेण असुत्तई ।

सो भुंजवि रयणपहे दुस्सत्ताहेक्क जलरारिं ॥ 844 ॥

तमपराधं सोद्धमक्षमो सुरपतिश्च (श्वा) मरेंद्रो वज्रायुधेन तं राजानं निहन्ति स मृत्वा
रत्नप्रभायां दुस्सत्ताहेक्कजलरारिं भुंक्ते ।

तभयदो तस्स सुवो अजिदंजय सण्णिवो सुरारिं तं ।

सरणं गच्छइ चेलयसण्णाए सह समाहेळाए ॥ 845 ॥

तस्मादसुरपतिभयात्तस्य राज्ञः सुतो जितंजयसंहितश्चेलकसंज्ञया स्वमहिष्या सहितं
सुरारिं शरणं गच्छति ।

सम्मदंसणरयणं हिययाभरणं च कुणदि सो सिव्वं ।

पच्चस्वं दत्तुणिह सुरकयजिणधम्ममाहपं ॥ 846 ॥

सुरकृतजिनधर्ममाहात्म्यं प्रत्यक्षं दृष्ट्वा शीघ्रं सम्यग्दर्शनरत्नं हृदयाभरणं करोति ।

FISCAL ADMINISTRATION UNDER EARLY COLAS

BY H- KRISHNA SHASTRI

SOME of the striking features in the study of Cola inscriptions, which at first arrest the attention of the student are the elaborate detail and care shown in the wording of the documents, their revenue technicalities, the corporate nature of their transactions and the incidental light which these necessarily throw on the public and private life of the Tamil people in general. The keynote of the Dravidian genius as distinguished from that of the Aryan, has evidently to be sought for in one or more of these factors of national development. I confine myself at present to putting together such information as may be available from a study of inscriptions bearing on the second of the items noted above viz. the revenue administration and technicalities of the Cola period prior to the time of Rajaraja I—not omitting of course, to make some observations where necessary on the other points as well.

Early Tamil literature does not materially add to our knowledge of this important question. All that could be said has been ably summed up by Mr. V. Kanaka Sabhai Pillai in chapter IX of his *Tamil 1800 years ago,' where he describes the social life of the Tamil people at that remote period. Some of the salient points noted are: "The principal thoroughfares in the interior of the country were guarded by the king's soldiers and tolls were levied on these highways. The system of Government, which was far from despotic, also conduced to the public welfare. The head of the government was a hereditary monarch. His power was restricted by five councils which were known as the 'Five great assemblies.'¹ The ministers attended to the collection and expenditure of revenue and the administration of justice. Customs, tolls and land-tax formed the chief sources of revenue. Customs were levied at all

¹ Apparently the assemblies here referred to are the *pailcamatidalis* (corresponding to the modern *panchayats*) mentioned in the Gupta inscriptions.

the sea-ports. Tolls were collected on the trunk-roads used by caravans and at the frontier of each kingdom. The land-tax was paid in money or in kind at the option of the farmer. One-sixth of the produce on land was the legitimate share of the king; and for water supplied by the State, a water-cess was levied from the farmers." All these statements drawn mainly from Tamil literature, receive full support, as will be shown subsequently, from the numerous inscriptions with which the Tamil country is studded. One noteworthy point, however, is that while no definite statement has been found in literature about the organisation of village assemblies which, as stated above, forms the most important feature of Dravidian civilization, the inscriptions never fail to insist upon their existence.

There is no doubt that the Tamils, who at a distant past are supposed to have migrated to the South of India from the North-east corner of the Peninsula through the Magadha territory, must have naturally imbibed much of the Magadha culture which at that period was a model for nations to imitate. The excellent work, Kautilya's *Arthashastra*, recently brought to light by the unswerving labors of Pandit R. Shama Shastri of Mysore, has in its chapters fully devoted to administration, revenue collection, taxes, etc. There were no doubt co-operative undertakings, councils of ministers, guilds of merchants and consultative bodies of village elders. But the essentially democratic spirit of village administration in matters revenue and judicial, social and religious, as appears to have distinctly existed throughout the Dravidian kingdoms, is not to be found in the *Arthashastra* of Kautilya. That corporate life and the democratic will of the people received due consideration from the Aryan law-makers cannot altogether be denied. Epigraphical evidence too is not wanting to support this supposition. The Malavas, for instance, as early as the fourth and fifth centuries of the Christian era, had a national assembly the organisation of which was the occasion for starting a new era called the Kṛta. So was it with the Licchavis.

The earliest glimpses of Tamil civilisation available

from historical data, present a state of perfection and organisation that should make us pause and think of the long ages that must have elapsed before the Tamils as a race could have attained that stage of development. In the dawn of the sixth or rather of the 7th century A. D., to which some at least of the Tamil works extant have been assigned, lived the great Cola king Karikala who carried out a grand scheme of agricultural improvement by constructing flood-banks on either side of the river Cauvery with the assistance of "all his subordinate kings such as Trilocana-Pallava and others whose eyes were directed towards his lotus-like feet." It is evidently this great project, no way inferior in its conception and magnitude to similar administrative measures adopted by the highly famous statesmen of the present day, that still contributes in a great measure to "the rich fertile flats of paddy fields, groves of areca and cocoanut palms and forests of plantain trees" of the Cola country.. In fact it must have been mainly due to Karikala's improvement that the river Cauvery which flows through the heart of the Cola country, came to be described in literature as the golden river whose garland consisted of gardens and which was the prosperity of the Colas. Other Cola kings that came after Karikala were equally great; but their contribution to the happiness of the people by way of sound administrative measures, as in the case of Karikala, does not appear to have been much. In their time there was an upheaval of religious enthusiasm: Buddhism and Jainism which were the strong opponents of the Saivite and Vaisnavite forms of Hinduism were practically driven out of the land. The kings also took an active part in this propaganda and some of them, it may be noted, came to be considered as saints.

With Vijayalaya began a new line of Cola kings whose revenue administration is the subject of this contribution. Vijayalaya is assigned to the latter part of the 9th century A. D., a period about which the Pallavas of Kailas, who had till then been wielding suzerain power, were slowly declining and the powerful Pandyas of the

farthest South were also growing weak. Vijayalaya was entitled a Parakesarivarman 'the lion to enemy kings,' and after him the successors to the Cola throne regularly called themselves Rajakesarivarman 'lion among kings' and Parakesarivarman alternately. The famous Rajaraja I came very nearly a century later. Between him and Vijayalaya there were many ruling sovereigns; but the most prominent of these were Aditya I, Parantaka I, Gandaraditya, Sundara-cola, Parantaka II and Madhurantaka Uttama-cola. Hundreds of their records are found throughout Southern India. A perusal of their contents sufficiently indicates, in unequivocal terms, the existence of peaceful rule and an organisation of government which, as far as could be gathered, compares not unfavorably, with the conditions obtaining at present, after a distance of more than a thousand years, under the benign British rule.

Professor Krishnasvami Aiyangar (*Ancient India* pp, 163 ff.) has dealt fully with the question of Cola administration in the light of published records ranging in date roughly from A. D. 800 to A. D. 1200. What he has herein stated practically covers the whole field. The village assemblies, as stated already, formed a distinct feature of Cola administration. Full details about the organisation of these assemblies, their elective basis, qualifications for membership, disqualifications, executive committees etc. have been supplied by two very interesting inscriptions which belong to the time of Parantaka I (A. D. 907 to about 953). It must, however, be noted that it was not for the first time in the reign of Parantaka I that these assemblies were organised and brought into existence. The system was in vogue in much earlier times. Three classes of assemblies appear to have existed; those of Brahmans which were called *sabhas*; those of the general body of residents in a village which were called *urar* and those of the merchants (and professionals?) called *nagarattar*. The district assembly, *nattar* was also a body which met when, perhaps, subjects touching the interests of the whole district were discussed, or when there were no

sabhas to represent the villages within the district. Each holder of a share in a Brahman village (called *agrahara*) had the right to a seat in the village *sabha*; but he was required to be well-versed in one at least of the Dharma-sastras or Codes of law. The question of a share-holder possessing his share by purchase, present or as *strldhana*, seems to have arisen. It was decided that even such might be represented on the village council provided that they held a full share and not a fraction of it, and had studied a whole Veda with its *parisistas*. The co-operative and constructive principles on which an assembly had to conduct its deliberations were evidently fully recognised and no member was allowed to persistently oppose, on penalty of a fine, the proceedings of the assembly by saying 'nay, nay' to every proposal that was brought up. Refractoriness on the part of members, as distinguished from an honest difference of opinion, was much discouraged. No rules regulating the management of the other classes of assemblies, viz. *vrar*, *nagarattUr* and *nattar* have come to light. Evidently all general qualifications for efficient membership such as those obtained in the Brahmanical *sabhas* must have also been in force, except perhaps the knowledge of the Veda and the Mantra-Brahmana.

The thus constituted assembly of a village was known by various names such as *perumakkal* 'the big children' *perwiguri-perumakkal* 'the big children of the big assembly,' *mahasabha*, *parudai* (*parisat*), *mula-paru(jlai*, *piramadeyakkilavar* 'the old men of the Brahmadeya,' *ganaperumakkal*, 'the big children of the gana' and *alumgaxiattar* 'the gana members ruling (the village.)'¹ The assemblies generally met in temples where often special

1 The word *gana* as applied to a tribal congregation is still prevalent among many Hon-Brabranical classes of Southern India who have their own caste assemblies and *panchayats* where several questions concerning the particular society and individual members are discussed and amicably settled. The word *yajaman* among the trade-guilds and *ganacarya* among others prove the existence of such corporate life*

halls were constructed for that purpose.¹ Sometimes they are said to have assembled in theatrical halls of a temple such as those that existed in the great temples at Tanjore and Tiruvidamarudur. It was not unusual also for the village assembly to sit in council under a tamarind tree, a pepul-margossa tree or an olive tree of the village. Trees with platforms round them are a common sight in Indian villages. The regular and constitutional meetings of the village assemblies must have been partly at least responsible for the existence of these platforms. The installation also of Naga-stones on such platforms—specially under the shade of the pepul-margossa tree—may have been found necessary in view of the belief that the Nagas always sit in judgment over a just decision or a charitable deed. The constituents of the *sabhas* were the big men of the village, i. e. the aged elders, the *bhattas*, 'the learned people,' the *visistas* 'the very highly pious and upright men' and temple priestss. Sometimes children are also mentioned as members of a *sabhti*—evidently it might be for the purpose of picking up pot-tickets mentioned in the Uttaramallur inscriptions. Often the merchants (naga-rattar), residents and professionals (urar), and district representatives (natta) also took their seaj on the Brahman assemblies—the *sabhas*—though in most cases these had their own independent meetings. It must be noted that tho representative of the king, the local officer, and the agents of the parties interested in the business of the day, were also present at the meetings of the assembly. The tendency towards corporate life did not stop with their village councils mentioned above. It extended even to the internal management of a temple. The *padipadamulattar* ⁴ those that attend on the sacred feet of God,' the *tiruviiyahgat-udaiyar* or *sabhaiyar* 'those in charge of (the management of) the sacred inside (of a temple)/ *danmakattalaiyur* * those (in charge) of organised charities,' *tiruk-*

1 Have we to understand that the *sabha-mandapas* in almost every Hindu temple ot Southern India, now supposed to be the place for Nata-rSja and the divine congregation, were primarily intended for the meetings of village assemblies r

koyiludaiyilir, 'those (in charge) of the sacred (precincts of the) temple,' *devakanmigal* 'temple servants,' *upasakas*, *maheivaras*, *iri-vaisriavas*, *demr-maiiradigal* or *devar-idaic-canar*, 'the shepherds (of the temple),' etc. are frequently mentioned. In addition to these were professional guilds who settled among themselves the business that concerned their particular community.

The general assembly of the village was both a deliberative and an executive body. It met together under beat of tomtom and transacted every kind of business that concerned the local temple and the village. They sold or purchased lands on behalf of the temple and in the latter case they made the lands invariably tax-free by receiving in advance a lump amount called *irai-kaval*, the interest on which would cover the annual rent due on the land. Sometimes when the temple as purchaser was unable to pay the *irai-kaval*, they distributed the same by common consent on the whole village. They received deposits of money made on behalf of the temple or from the temple itself, or again on account of other charities, and carried out the trust from the interest accruing regularly year after year. The investments were evidently utilised for original works and improvements. They formed themselves into various committees to watch the interest of the gardens, wet and dry fields, tanks and irrigation, tolls and shop-rents, waste-lands and their reclamation, the regular management of temple services and charities etc. Once a tank having given way, the village was threatened to be flooded away. A donation was made to the tank-committee to repair the breach, and it was stipulated that the interest on that amount may be regularly handed over to the local temple. The committee was thus both a banker and a trustee. In another similar case of a breach in an irrigation canal, the banks were strengthened and perhaps also broadened by acquiring portions of lands from the adjacent landholders,—this acquisition by purchase being entrusted to the garden-supervision committee. If a canal irrigating the fields of one village had to pass through the lands of another village, the assembly

of the latter interfered, stipulated the course for the canal and charged a fee of one-in-five for the privilege. A committee was once appointed by the assembly of Uttaramattur to enquire into the purity of gold that found exchange in that village. They appointed four residents from the street called Madavldhi, two from the army and three from the Brahman quarter (*sankarappudi*),—all by election. It was stipulated that the persons selected must be neither young nor old and should have the necessary experience in testing gold. This committee examined the gold for all people and were instructed not to rub the gold on the touchstone (too much). The wax on which the rubbed gold-dust was collected, was to be handed over to the tank-supervision committee without any reservation. For arrears of land-tax, the assembly was empowered even to confiscate the lands and sell them by public auction. They made no exception even if these lands happened to belong to the temple. But as Hindus interested in the temple, they provided for the various services connected with the temple by communal contributions. Before public auction, the procedure adopted was to ask, i. e. to advertise once, twice and thrice, to know if there was any to purchase the land in question. Such sales were known as *the king's big sales'—a phrase evidently used to denote the public nature of the transaction. One record states that the sale was proclaimed twice and (the bid) called out thrice.¹ Such sales were generally adopted when the original holders of lands had given them up or had absconded owing to their inability to pay the taxes. In the latter case the assembly sold the lands by auction to recover the arrears of rent, whereas in the former, the owners themselves disposed of the lands. A wet land having become mounded up with sand owing to floods in the Cauvery, the owners neglected cultivating it for six or seven years and evidently the rent having accumulated, they asked *are there none to purchase this land?' A person

1 For a different explanation of the phrase *irukninvadu mukkalavadu*, which generally occurs in sales of land, see S I. I. Vol. I I I. p. 17, note. 2.

came forward, purchased it and presented the same to the temple.

The taxes on landed property consisted of collections in kind and in coin, and the king was by a right vested in him, entitled to enjoy a very large number of them. 'Whichever the king may lay his hands upon and enjoy' is the phrase that occurs in copper-plate grants and stone inscriptions in giving away to a donee the full possession of a property with all its rights and enjoyments. They consisted of a good number of items of service called *kudimai* (tenancy obligations) which appear to have been as strictly demanded as land-revenue (*kadamai*) itself. In making grants of villages to Gods and Brahmans the original holders (*kudis*) were first divested of their rights of tenancy, evidently it must be by compensation. In some cases the *kudis* were retained. From this it may be inferred that the tenants (ryots) had an a priori right over the lands they cultivated, being subject only to *kadamai* and *kudimai* or as defined in other inscriptions to *kudimai* 'which was tenable at the door of the tenant' and to 'the income by taxes (*varlppadu*) which the village paid.' When a land was granted, sold or exchanged (*panvartanai*), its boundaries were clearly defined, stones and milk bush were planted for demarcation purposes and the connected documents produced. If the donation was made for the first time by the king or under his orders, the *srimumukha* (Tamil: *tirumugam*) *royal order' intimating the donation was received by the assembly, was honoured by 'being placed on the head,' opened and read (in the presence of all).¹ The *ajnapati* or *anattl* who was to execute the order of the king affixed his signature and thus made the royal order take effect. Most of the land transactions referred to in inscriptions are free donations to temples, Brahmans and charitable institutions. Sometimes the property which was thus donated was purchased with all its rights and enjoyments 'in accordance to old custom'-with all land (high and low), 'where the iguana runs and the tortoise

1 The small fee that was collected in order to celebrate thus the receipt of the royal order (*tirumugam*) was called *tirumugakkcinam*,

crawls; with (slight) excess or deficiency (if any, in measurements); with specified exemptions (*parihara*) and declarations, and after paying the 'full amount (agreed upon) and receiving all the land defined.' The sale-amount was always calculated in gold-bullion of standard weight and fineness, or occasionally in coin. In the former case, the gold intended for currency is defined as * marked gold,' 'red gold brilliant as fire,' 'gold passed by the king (such as *Parakesari*, *Videldidugu*, etc.) and weighed by the standard stone of the village or of the treasury,' 'gold 9i carats fine which is burnt, cut, heated to the brilliancy of fire, stamped and found not to be deficient on the touchstone or the balance.' The sale deed thus effected was drawn up first on the palm-leaf (*olai*) and then engraved on stone and copper. When this was done it was declared to be final and no further document for the transfer or receipt of property was necessary to produce nor would any such, if produced, be considered valid.

Irrigation received the special attention of Cola administrators. Karikala's embankments on either side of the Cauvery have been already referred to. No natural source of water seems to have been allowed to waste. Irrigation tanks and wells were scrupulously kept in proper repair. Anicuts were thrown across the rivers. A special committee on each village assembly was entrusted with tank-supervision and perhaps generally with irrigation. Numerous references are found in inscriptions to channels, sluices, embankments, canals and so forth. Every grant of land, where it happened to be under an irrigation tank or canal, was especially provided with the conditions and methods of irrigation. The distribution of water was very carefully and systematically organised. Wet lands were divided for this purpose into flats severally called *kanarru*, *sadiram*, *siragu*, *mdukkam* and *padagam*, and the main and sub-channels that irrigated them received names of kings, princes, chiefs or other distinguished personages. Even the foot-paths and demarcation ridges between field and field were named and recognised, so that the revenue officers from a mere description of the boundaries, and of

the irrigation channel (*vaykkal*, *narayam* or *narasam*) under which a particular land was situated, and the name of the owner or owners, were able to spot out a field in question by reference to books which must have been maintained for that purpose. One general rule observed in the supply of water was that the fields, whatever their situation may be with reference to the main channel, were to take the water *in the manner that it flowed,¹ i. e. in its natural course—without causing any special obstructions or creating contrivances for preferential supply. Such obstructions, if any, were punished with a fine by the king or the courts of justice.

Whether sold, leased out, exchanged or presented, the land transactions in general are so clearly worded that they might be pronounced to be free from technical flaw. The vendor's undisputed right to the property is made out and expressed by such phrases as 'my tax-free land,' *in my own enjoyment,' '/give away in the manner that I have been enjoying it.' When the land is acquired by public auction, by purchase, donation, *strldhana* or exchange, the fact is recorded in the document together with details connected with all such previous transactions. The terms of a sale deed are thus described: 'the sale money agreed upon between us (parties) being received completely I sell this and declare twice and thrice that this document (by itself) shall be both the deed and the money-receipt, and that no other documents besides this, need be produced (to establish the vendor's claim).' All land within the four boundaries, including wet land, dry land, wells, ant-hills (?), mounds, fruit-trees such as the cocoanut, jaok, mango, seedlings (?), waste land, low-grounds and hollows, was given away. The writer affixed his signature to the document. Other signatures followed. In a certain case where the signatory was not able to use his hand (being perhaps ignorant of writing), another wrote for him and also bore witness.¹ The signatories were generally the

1 It might be noted that women also independently sold, purchased or presented land, but usually with a man selected as their attorney (*mudukan*).

chief citizens, arbitrators (*madhyasthas*) and the parties concerned. The boundaries were marked by stones and milk-bush in the case of villages ; and in the case of fields they were defined by roads, foot-paths, ridges, highways, irrigation canals and water-courses.

Accounts of land-transfers and revenue-receipts were most carefully kept. The Department of *Tiyaikkalam* seems to have been exclusively meant for this business. *Tinai-kkanakkan* was an accountant of the office of Rents, Rates and Taxes. Charitable grants which were exempt from taxes were maintained in the register called the *varippottagam*. A chief having presented a land to a temple with right to collect *parisai-irai*, *ecchoru*, *vetti*, etc., corresponding entries and deductions were made in the books concerning that land. Money-accounts had their own register called the 'treasury-book' (*bandara-ppottagam*). Auditing of accounts by the king's officers was quite a common thing. Sometimes special audit under imperial writ was organised when the periodical audit was found to be defective. In the 25th year of king Parantaka I (A. D. 932) such a writ was issued to re-check the accounts of the temple of Tirnneyttanam in the Tanjore District and the accountants (*varavittar*) responsible for omissions or commissions, were punished in presence of the trades' committee (*nagara-variayakkuttam*) of that village. Accountants, before submitting their accounts for audit, were oftentimes required to undergo the ordeal of holding a red-hot iron (*mala*) and to prove their honesty by coming unscathed out of it. They were even rewarded if they were found to be so, by a bonus.

The internal management of village administration being thus regulated, any deviations from, or opposition to these rules were punished by the king, the magistrate of the village, the members of the charity-committees or other seats of justice, at the option of the guilty person. Once being fined, the guilt was condoned, but the obligation to submit to the law of the land continued. No man who committed a crime by transgressing the law was permitted to produce *uydigai* and *pattigai* in order to escape

punishment. The exact sense of these terms has not been made out.

The king was apparently the highest appellate authority in his country. He had numerous officials under him to organise and manage the various departments of administration. Later Cola inscriptions mention very nearly twenty such departments, besides the military. Thus the Dravidians developed, from the very beginning of their dominancy in the South, a system of government which was a monarchy regulated and controlled by a democratic organisation, in which the will of the people was fully and freely represented. History repeats itself, and in the fulness of time the Dravidian genius must influence to a very large extent the present government of the land.

GANGAVADI

BY LEWIS RICE

AMONG the Jaina States which flourished in Southern India in early times, and held their own more or less throughout the first millennium of the Christian era, Gangavadi was one of the most interesting, and played a prominent part. It derived its name from the dynasty of the Ganga kings whose dominion it formed, and occupied the greater portion of the existing Mysore country. Its subjects are to this day represented by the Gangadikaras, the largest section still of the agricultural population, their name being a contraction of Gangavadikara.

But, long before this part was called Gangavadi, it had been the scene of important events in history. For it was the region through which, early in the 3rd century B. C., Bhadrabahu the *firutakevali* led the Jaina migration from the north of India, in order to escape a predicted famine of twelve years. Feeling his end approaching, he sent on the body of pilgrims to PunnSta, a State in the south-west of Mysore, and remained at Sravana Belgola, where he died. Hither also the celebrated Maurya emperor Candragupta is said to have accompanied him, having abdicated for that purpose. Ministering to him in his last moments as his sole attendant, Candragupta, a few years later, ended his own life at the same place. It was apparently in connexion with these movements that the separation arose of the Jainas into Digambaras and Svetambaras. Evidence is not wanting in support of these statements. First-hand information as to the statecraft of the period is now available in the *Arthasustra* of Canakya, the minister of Candragupta, of which an only copy has lately been discovered by Shama Shastri and published in Mysore. Subsequently, not only was there a seat of the Maurya government in the north of this country in the time of Candragupta's grandson Asoka, but missionaries were then sent to the southern part, under the name of Mahisa-mandala,

as well as to Vanavasa or Banavasi, on the north-west, in efforts to spread the religion of the Buddha.

The rise of Gahgav&di may be traced to the 2nd century A. D., and was about coincident with the fall of the Andhras or Satavahanas, whose name survives in the form of Salivahana, which in later times came to designate the prevailing Saka era, dating from A. D. 78. At quite a modern period Mysore is described as the Salivahana country, but the nature of the connexion is not clear. Still, one record of the 16th century dates itself by the Satavahana-saka instead of the Salivahana-saka.

Testimony to the rule of the Satavahanas in ancient Mysore is confined to the north-west, where they were immediately followed by the Kadambas of Banavasi. But the remainder of this country mostly came under the Gangas, and was hence known as Gahgavadi, which takes the forms Garigapadi and Gangapati in Sanskrit and Tamil. After the Andhras, the dominant overlords of the Dekkhan were the Pallavas, who also gained the maritime countries lying along the east coast. They claim to have set up the Kadambas of Banavasi, in the 3rd century, and assumed the rôle of patrons at the coronation of certain of the early Gangas.

Gangavadi was a Ninety-six Thousand country, the remaining portions of Mysore being occupied by the Nonambavadi or Nolambavadi Thirty-two Thousand, in the north-east, and the Banavasi Twelve Thousand, in the north-west. But the former of these was much later in formation than the latter,—about the 8th century. In the south-west was Punnata, mentioned by Ptolemy in the 2nd century, and later known as the Punnad Six Thousand. The numerical descriptions attached to the names, which are sometimes used alone, are believed to indicate the revenue value of the countries, reckoned in *niskas*, an obsolete currency of more than one rate, but popularly supposed to be equivalent to *varahas* or pagodas. Or else they may refer to subdivisions, or *riads*, which were called Thousands. That they represent the number of villages,

it is quite plain, is physically impossible, even supposing the whole areas were occupied by villages and nothing else.

The original boundaries of Gahgavadi are given as—north, Marandale; east, Tonda-nad; west, the ocean towards Cera; south, Kongu. There is no difficulty in identifying these, except the one on the north. This I have so far been unable to trace or find. But it is of importance that it should be discovered. It appears again at the time when the Gahga king Sivamara-Saigotta, who had been deposed and kept in confinement by the Rastrakutas, was released by them and reinstated. For the record says that he was again ruling the Gahgavadi Ninety-six Thousand up to Marandale as his boundary, as if to show that the whole of his kingdom even to the original limits had been restored to him. The place was probably somewhere between the Tuhgabhadra and the Krsna rivers, as one record of the time of Sripurusa indicates that his boundary then extended to the north-east of the Bellary District. Of the remaining boundaries, Tonda-nad is the Madras country to the east of Mysore, variously called Tonda-mandalam and Tundaka-visaya. It was a Forty-eight Thousand country. Cera, mentioned in connexion with the west, is Cochin and Travancore. It is doubtful, however, whether Gahgavadi really touched the ocean, though it was no doubt very near at certain points. Kohgu, on the south, is Coimbatore and Salem.

The first capital of Gahgavadi was Kuvalala, a name modified later to Kovalala, and then to Kolala. This is the present Kolar, in the eastern part of Mysore, and situated to the west of the PalSr river. It has passed through so many vicissitudes, and been the area of so much fighting in modern times, that few remains of antiquity are now to be found there, municipal improvements, it is feared, having swept away whatever relics there may have been. In the 3rd century the capital was removed to Talekad (Talanapura in Sanskrit), a place in the south-east of Mysore, in a bend of the river Kaveri, which encircles it on three

sides. Here the capital permanently remained, until its capture in 1004 brought the Ganga sovereignty to an end. It is now nearly buried under sand dunes, which continue to encroach upon it. Though this was the recognized capital, the royal residence was removed in the time of Srī-purusa, in the 8th century, to a more central position at Manne or Manyapura, some 30 miles north-west of Bangalore, on the plain lying to the east of the Devarayadurga chain of mountains, and facing Nandidroog. Such was the prosperity of the State at this period that it came to be styled the Srī-raja, or Fortunate kingdom.

The main river of Gangavadi is the Kaverī (Anglicised as Cauvery¹), the Kaberos of the Greek geographer Pliny, and designated by Hindus the Dakṣiṇa Ganga, or Ganges of the south. Its name is said to be derived from the *muni* Kavera, whose daughter Kaverī was fabled to be. But the Puranas assign to her a divine origin. According to one account, she was a daughter of Brahma, born as a mortal in the person of the virgin Visnumaya or Lopamudra, whom Brahma allowed to be regarded as the child of Kavera-muni. In order to obtain beatitude for her adoptive father, she resolved to become a river whose waters should purify from all sin. And once a year the Ganges itself is supposed to flow underground into the Kaverī at its source, so as to cleanse the stream from the pollution of the sins of the multitudes who bathe in it. The period of this mystic confluence, in Tula-māsā, needless to say, is signalized by a great religious festival. On the first occasion when the floods came down, as promised them by Parvatī, and the Coorgs plunged in to bathe, so violent was the rush of the water that it twisted the knots of the women's cloths round to the back; and in this fashion, opposed to the general custom in India, the Coorg women still wear them, in commemoration (says the Purana) of the event.

The river has its source in the Western Ghats in Coorg, and flows in a generally south-east direction through

¹ But the proper pronunciation is that of the words *car* (with *r* silent) *Mid vary*.

the Mysore to the island of {Sivasamudram, where it descends from the tableland to the lower level of the Madras country. Here it separates Coimbatore from Salem, and continuing through Trichinopoly, where is the island of Srlrangam, reaches the sea in the delta of Tanjore. Near where it enters Mysore from Coorg is a narrow gorge, below which the stream descends some 60 to 80 feet in a succession of rapids. At Ramanathpur is an old ford, by which the epic hero Rama is said to have crossed the river on his expedition to Lanka or Ceylon. Farther down, an extensive system of irrigation is carried on on both banks by means of miles of canals or channels, led off from dams across the river. This fertile region, under the name of the Astagrama, was conferred on the Vaisnava reformer Ramanuja in the 11th century. In about the middle of its course through this part is the island of SrI-Rahga, containing the historical fortress of Seringapatam. Passing on, round the site of the ancient capital city Talekad or Talakad, the river arrives at the island of Sivasamudram, where it ends its career in Mysore. Here are the celebrated Falls of the Kaverl, in which the stream hurls itself down some 320 feet in two distinct falls, one on each side of the island. The one on the west is called the Gagana Chukki (sky spray), and the one on the east the Bhar Chukki (heavy spray). The former tumbles with deafening roar over vast boulders in a cloud of foam, the whole place quivering with the impact. The column of vapour rising from it may often be seen for miles. It is at this fall that the Kaverl has been harnessed for electric power. The installation was completed in 1902, the first in India, and at that time the longest line of transmission in the world. For it conveyed the power 92 miles to the Kolar gold mines, which have profited greatly by its use, and have been provided repeatedly with additional supplies. From the same source the cities of Bangalore and Mysore obtain electric lighting, and mills are operated there. The other fall is quieter, and when in flood pours over in a continuous sheet a quarter of a mile wide. It has been compared to the Horse-shoe Fall at Niagara. Beyond the Falls the reunited

stream rushes on through wild gorges, so narrow as at one point to be called the Meke-datu or Goat's Leap. Farther on is the Smoking Rock, which from the middle of the stream throws up a column of perpetual spray, though the water around is free from any sign of agitation. •

Among the natural features of Gangavadi are many notable mountains. They rise up in all parts in more or less isolated peaks, known as droogs (Sanskrit *durga*). Possessing springs of water at the summit, they have in many cases been fortified and made almost impregnable, especially before the invention of artillery. The one chiefly connected with the Gahgas was Nandagiri, from which they had one of their titles as Nandagiri-natha. This is the well-known Nundydroog (Nandidurga), rising to about 5000 feet, standing at the end of the mountain range in the west of Kolar. At the beginning of the 9th century a Bana queen had erected the temple of Bhoga-Nandlsvara at the village of Nandi, on the northern foot, and the Kalamukha sect of Yoginshad a *matha* at the temple of Yoga-Nandlsvara at the summit. The fortifications of the Mahrattas on the hill were greatly extended and strengthened by Tlpu Sultan, from whom the place was captured by the British in 1791. In the 19th century it became a sanatorium and hill station.

The establishment of the Gangavadi kingdom is attributed to the agency of a Jaina priest named Simhanandi, known in literature. His action was induced by the arrival of two brothers, the Jaina princes Dadiga and Madhava, who had been sent away by their father Padmanabha from the north to save them from a threatened invasion of his territory. With their sister Alabbe and attendant Brahmans (presumably Jaina Brahmans) they encamped on their way at Perur, the one in Kadapa District, still distinguished as Ganga-Perur, near Siddhavattam (Sidhout of the maps). Here they met with Simhanandi, who being interested in their story, took them by the hand, and gave them instruction and training. In due time he procured for them a kingdom as a boon from the goddess Padmavati, who confirmed it with the gift of a sword. Madhava, who

Was but a boy at the time, seized the sword and wielded it with such vigour that a stone pillar he struck split in two. This was recognized as a favourable omen, and Madhava became the first king of the Gahga line. But the succession was continued in the descendants of Dadiga, and they were not long in establishing their power over the Mysore country, which was apparently without a ruler then. They mostly had the second distinctive name of Kongunivarmma.

The new rulers soon came into conflict with the Mahabali or Bana kings, who had probably preceded the Pallava on the east and been driven towards Gangavadi. Their territory is described as lying to the west of the Andhra or Telugu country, and seems to have been known as the Vadugavali Twelve Thousand. Brihad Bana was compelled to pay tribute by the founder of the Kadamba kingdom and the Banas continued in contact with Gangavadi for some centuries on the north-east, where the Nolambas were opposed to them as rival.

The Gahgas appear to have been a hardy and manly race. Of the fourth king, his mental energy is said to have been unimpaired to the end of life, implying that he lived to a great age. Of the next king it is said that his arms were grown stout and hard with athletic exercises. The fifth and sixth were interesting characters. They were named Avinita or Nirvvinita and Durvvinita. The former was the son of a Kadamba princess, and crowned while an infant on his mother's lap. He was a ruler of great activity, and on one occasion, to the consternation of his attendants, plunged into the river Kaveri and crossed it when in full flood, being known in consequence as Curcuvayda Ganga. He married a Punnad princess, by whom he had the son Durvvinita whom, on the advice of his *guru*, he attempted to set aside from the succession in favour of another son, probably by a different mother. In this he was aided by the Pallava and Rastrakiita kings, who crowned the latter, thus striving to perpetuate their patronage of the line. But Durvvinita was able to vindicate his rights and defeat this conspiracy. There is reason to believe that he

allied himself with the Calukyas, who were then appearing in the south, by giving his daughter in marriage to the prince of that family. If so, the issue of this union was a son named Jayasimha»Vallabha,whorn, after capturing the Pallava king on the field of battle, Durvvintla seated on the Pallava throne. He was engaged too in many sanguinary wars to the east.

But he was also distinguished as a scholar. For he is said to have written a commentary on the 15th Sarga of the *Kiratarjuniya*, the Sanskrit poem by Bharavi. This Sarga is remarkable for being entirely composed in verbal puzzles and riddles. One stanza contains no consonant but *n*, with a single *t* at the end ; in another, each half line read backwards is similar to the other half. He is also said to have been himself the author of a *Sabdavatara*, the name of a work always attributed to the Jaina grammarian Pujiyapada, being a *nyasa* on Panini. Possibly Pujiyapada was his preceptor. He is besides said to have made a Sanskrit version of the *Vaddakatha*, that is, the *Brihatkatha*, which is written in the Paisaci dialect. There is a great probability that this Durvvintla is the one named in Nrpatuhga's *Kavirajamargga* among the distinguished early Kannada authors.

In the 7th and 8th centuries the Pallavas suffered heavy defeats from the Gangas and the Calukyas, and lost their power. The Ganga king Srlpurusa took away from them the title of Permmnadi, which implied supremacy, and adopted it himself, handing it down to his successors. His long reign -of over 50 years was the period when the Gangavadi kingdom reached the highest point of prosperity, and was known as the Sri-rajya or Fortunate kingdom. His dates are absolutely fixed by the Javali plates, which give Saka 672 or A. D. 750 (verified by Drs. Kielhorn and Fleet) as the 25th year of his reign, corroborated by the Devarhalli plates of Saka 698 or A. D. 776, his 50th year.¹ He removed the royal residence to Marine or Manyapura, as before stated.

1 The Pennukoncja plates, newly discovered and admitted to be genuine, dispose of objections to the early chronology.

The crest of the Gangas was an elephant, and was given to them by Indra. Both Srlpurusa and his successor Sivamara were greatly interested in this animal, of which Gahgav&di or Mysore is a home, in the southern forests. The elephant *kheddahs* are a peculiarly special entertainment on the occasion of royal or viceregal visits to the State. Both the Gahga kings mentioned above wrote works on the management of elephants. That by Srlpurusa was called *Gajasastra*. But Sivamara seems to have gone far beyond. He made a deep study of the *Palakapyam*, a Sanskrit work by Palakapya or Karenubhii, and having obtained an insight into the subject as taught by this *yati* born from the mouth of a female elephant, embodied his own system in a poem of a high order, called *Oajcistnkain*, so unique in rhythm and expression that if recited before a dumb man it would enable him to recover his speech. At a later period the Yuvaraja Butugendra is said to have been like the son of Karenu in his knowledge of elephants, and five times overcame in battle the Kongas (the Tamil people of Kongu or Coimbatore), who resisted his tying up elephants, and according to ancient custom he captured herds difficult to catch.

But to return to the history. The reign of Sivamara-Saigotta, the grandson and successor of Srlpurusa, was disastrous. The Rastrakutas, who had been invading Gahgavadi, succeeded in overcoming the Gangas, never before conquered, and took the king prisoner. He was led away into captivity and the conquerors appointed their own viceroys to rule the territory. The first of these was the king Dhruva Nirupama or Dharavarsa's son Kambharasa, having the title Ranavaloka. But in the next reign, or about 814, the Rastrakutas reinstated Sivamara on his throne, the king Govinda Prabhiitavarsa and the Pallava king Nandivarmma officiating at his coronation. Although at first the succeeding king Nrpatuhga Amoghavarsa sought again to subdue the Gangas, the policy towards them changed, and matrimonial alliances brought the two families into intimate friendship. The people and their language greatly interested him, and he compiled the

Grammar called *Kavirajamargga*, with the aid perhaps of Srivijaya, the oldest manuscript yet found in Kannada.

The recovery of independence for Gahgavadi is attributed to Rajamalla or Racamalla Satyavakya, who came to the throne in 817, and these names were borne as titles by many of the succeeding kings. Others took the title of his son Nltimargga. A new era of prosperity had thus set in for the State. But contests arose on the north-east against the Banas and the Nolambas. The latter, also called Nonambas, were a branch of the Pallavas, who, on the overthrow of the main line established themselves, under the protection of the Gahgas, in the north of the country. Their subjects are still represented by the Nonabas. Inter-marriages alternated with hostilities. Nltimargga captured Banarasa's Maharajara-nad, also called the Marajavadi Seven Thousand, with its capital at Vallur, probably in Kadapa District. About the same time Nolambadhiraja was, under him, ruling the Gahga Six Thousand, which was in Kolar District, the king's younger sister having been given to him in marriage. But the Nolamba king Mahendra declared his independence in about 878, and proclaimed himself Mahabali-kula-vidhvarhsana, destroyer of the Mahabali (or Bana) family. He, however, in his turn was slain by the Gahga king Ereyappa, who took the title of Mahendrantaka. In the end the Ganga king Marasimha (961-974) overcame the Nolambas and received the title of Nolambakulantaka. But neither of the lines was totally destroyed.

Butuga II (938-953), the younger son of Ereyappa, had gained the throne by slaying his elder brother. He was a close friend of the Rastrakuta king Baddega or Amoghavarsa I I, who gave him his daughter to wife, with a dowry of four provinces in the south Bombay country. On the death of Baddega, Butuga assisted his son Krsna or Kannara I I I in securing the throne from an usurper named Lalliya. And when Kannara was at war with the Cola king Rajaditya, Butuga rendered him a farther great service by slaying that king at Takkolam in 949, having attacked him in single combat on his elephant, For this

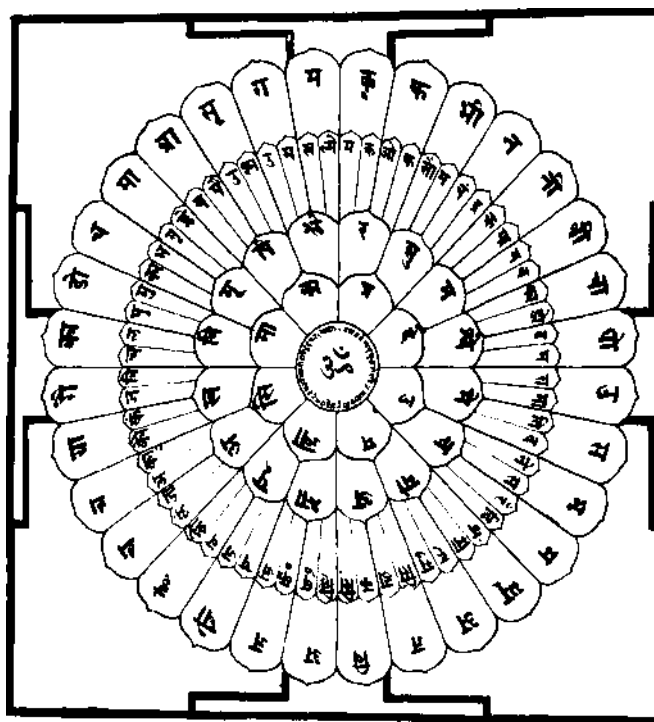
he was rewarded with the Banavasi Twelve Thousand province, and he may have been assisted by Kannara in gaining his own throne by getting rid of his elder brother. His daughter was married to the son of Krsna III, and became the mother of Indra Raja, the last of the Rastrakutas, who ended his life in despair at Sravana Belgola in 982.

Biituga was succeeded by his son Marasimha, who continued in close alliance with the Rastrakutas, and while Kannara or Akalavarsa III had engaged in extensive conquests in the south, as far as Tanjore, fought for him northwards against Gurjjara or Gujarat, and against the Western Calukya prince Rajaditya. He also put down the Nolambas. He retired in 973, and died in Bankapura in 974. The Gahga dominions now embraced the whole of the Mysore country and beyond, up to the Krsna river. In the reign of his son Racamalla Satyavakya IV, who succeeded him, was erected by his minister and general Camunda Raya, in about 983, on the highest hill at Sravana Belgola, that remarkable Jaina monument and object of worship, the colossal monolith statue of Gomata or Gommatesvara, which in daring conception and gigantic dimensions is without a rival in India. It was no doubt intended to symbolize the triumph and stability of Jainism, but in reality was fated to be more like the memorial of an expiring faith.

For the Rastrakutas had gone, and the Gangas were soon to follow. Fortune deserted the two principal Jain states of the south. The Colas, who had overwhelmed all the countries on the east up to Orissa, including the Eastern Calukyas, and were engaged in deadly struggles with the Western Calukyas, closed in upon Gangavadi. The Cola king Rajaraja had established himself in the Kolar country by 997. His son Rajendra Cola, in command of his father's forces, advanced against Talekad, the Ganga capital, and this ancient city fell in 1004, and with it the Gahga line came to an end as a sovereign power. The event was marked by Rajendra Cola assuming the title of Gahgaikonda Cola, 'the Cola **who** took Gahgai,'

So far as can be determined, the invasion approached by way of the valley of the Shimsha river, and a province named Cikka Gahgavadi was formed in what is now the Cannapatna country, with its capital at Ponganur or Honganur. The name Gahgavadi continued in use for a considerable time afterwards, but gradually dropped out in favour of the Hoysala-rajya, when the latter ousted the Colas in 1116. But the annals of the Gahgavadi dominion, which had endured for well nigh eight hundred years, were not inglorious, as we have seen, and it deserves to be held in remembrance by the flourishing State which now fills its place.

THE MANDALA OF KHANDAROHA



BOMBAY IN THE ELEVENTH CENTURY

BY HARAPRASAD SHASTRI

THERE is a manuscript in the Durbar Library, Nepal, written in bold and beautiful old Nevari characters of the twelfth century of a Tantrik work entitled the *Dakarnava*. The manuscript is on thick Daphni paper called in Nepal Vamsapatra paper. The manuscript has travelled in many countries, specially Tibet, as it bears marginal notes in Tibetan smaller hand throughout. The subject matter treated of in this work is *Indrajala* or sorcery and Tantrik worship of many spirits. The spirits worshipped are Vajravaraḥ, Iḥakini, Lama, Khandaroha, Rapini, Kakasya, Ulukasya, Svanasya, Sukarasya, Yamadadi, Yamaduti, Yamadamstii, Yamamathanī and others. It treats of Mantroddhara, Kavaca, Raksavidhi, Pujavidhi, Mudra and so on. The language is Sanskrit of a sort, like the pigeon English of the Chinese. The authors of these Tantrik Buddhist works hated the Brahmans for their fondness of correct Sanskrit—*suiabdhavadita*. They wrote simply for the sense—*arthasaranatam cisritya*. And so their language has now become as much mystic as their subject

The fifth chapter of this book treats of the worship of Khandaroha ; but what is most interesting is her *mandala* or mystic circle. This consist of five concentric circles, the whole forming an expanded lotus, with compartments marked out for petals.¹ Each petal has a letter in it. The letter is the initial letter of the name of one of the companion deities (avarana-devata) of Kandaroha whose Mulamantra is at the pericarp or karnika. The eight petals just round the pericarp form the heart of the Mantra, those following the heart form the neck. Those round the neck form the naval and those round the naval the head. The number of petals in concentric circles are altogether 8+16+64+32=120. So Khandaroha is accompanied by 120 deities. Of these 60 belong to the outer world and 60 to the inner

I See the annexed diagram of the lotus.

world: the Macrocosom and the Microcosom. The sixty spirits representing the outer world are deities presiding over different countries, districts and cities of India and the surrounding countries, not in any definite order, as will appear from the accompanying extracts containing these names. There is an exact agreement between these names and their initial letters in the petals.

The interest of this *maridala* lies in the fact that the 52nd name is *Mumbani* and the 52nd initial letter is *Mu* in the naval, showing that there was a shrine to Devi Mumbani in the island of Bombay. This shrine can be no other than the present shrine of Mumba-devI on the Malabar Hills. So Dakarnava in its fifth chapter speaks of the island city of Bombay and its eponymous shrine and deity.

The manuscript of Dakarnava, as above mentioned, belongs to the 12th century after christ. The Tengur collection of the Tibetans contains a translation of this work, and as the collection was made in the 13th century the translation may be referred to a century earlier and the composition of the Sanskrit original to a century earlier still, i. e. to the eleventh century. It may go earlier of course. But the most cautious calculation cannot place it later than the eleventh century. So here we have the earliest mention yet known of Bombay the Gate of India and the second city of the Indian Empire. It was then a small place claiming notoriety as the seat of a goddess. In Hindu India temples and shrines used to attract population as commerce and courts do now.

Salsette and Karle in the immediate vicinity of Bombay contain cave temples which are at least as old as the 5th and 6th century of the Christian era. Those who excavated these caves must have known Bombay which is so near them and so beautifully situated and hence it is probable that they erected a temple in this island too,

Dākārṇava, Extracts from Adhyāya V.

अतः परं प्रवक्ष्यामि सत्त्वानां हितकाम्यया ।
 सण्डरोहापदे स्थित्वा वज्रढाकः स्वयं प्रभुः ॥
 चतुश्चक्रसरोजेषु नाडीशतं च विंशति ।
 तेषु नामं यथान्याय्यं वक्ष्यते तत्त्वभाजनां ॥
 मध्यदेशी केलिङ्गी च ओडु कर्णाटकीसंरी ।
 सौराष्ट्री मल्लयो वैङ्गी द्रवडी च केलिङ्गकी ॥
 गालंवी तु महारठी वेरन्दी कामैरूपिणी ।
 डोहैली देविदेशी च भरौडी रौढ मोगंधी ॥
 तिरैभुत्ति(सत्ति) वहरण्डी नेपांली सरवैसिनी ।
 रौढी ढिकरी वैङ्गाली खौडी च हरिकेलीकी ॥
 सुवर्णद्वीपी सिंहैली च ढांमडी च कैत्तोरकी ।
 सिन्धु हिमालयी बुँडी कुँरुती जँडरी पँधी ॥
 जँजवती वरुँगा च ओरियॉणलम्पाकैकी ।
 जालँधरी अँबुंदी च कैश्मीरि कोशैली कँछी ॥
 जँयंती त्रिंशैली चँछी लँहरी पूररोहिणी ।
 मुम्बैनी काम्बोजैकी च भँटालिकी गृहदेवती ॥
 प्रेतपुरी वँलभी च (वमभौच) पेलैवी चोपपेलैवी ।
 हर्मशाननी उपहर्मशाननी भँहोदधितटी खँसी ॥
 म्लेच्छी च सर्वदेशकी देवी चतुःषष्टिः क्रमात् ।
 नाभिचक्रेषु योगिन्यः विज्ञेया कुलनादिकाः ॥
 हृदयचक्रे तथा अष्टभुक्तिका सर्वगामिनी ।
 प्रयागदेवकोटाश्च उज्जयिन्यां महालक्ष्मी ॥
 ज्वालामुखी सिद्धसिम्भली महिलो कौमारी पौरिकी ।
 एवं सर्वहविस्थाने मायाकार सुक्षेत्रिणी ॥
 कण्ठचक्रस्य देवी च वर्ण्यते वरनायिकी ।
 षोडशैव महाभागा घातूनां षोडशैव तु ॥
 रकौ शुक्रा मज्ज इवेदा मेघाँ चर्म माँसा अँस्थी च ।
 श्रायुः पूयाँ अस्ते स्वयंभुव चिदँ मूत्रं पित्तैलेष्मिकी ॥
 रहस्यादिपदैर्यातु तामि सदबाहिनी ।

मस्तकेषु महादेवी चके द्वात्रिंशनालिका ॥
 होमक्रमेषु सर्वत्र सर्वसिद्धि महद्भुता ।
 कृष्ण(१) कराली भीमच्छी नन्दी तीता विनायिका ॥
 चाँमुण्डी घोररूपा तु उमादेवी सरस्वती ।
 भद्रकाली महाकाली स्थूलकाली पराजिता ॥
 जया विजया अजिता जयन्ती घोरदंष्ट्री च ।
 हन्त्री चण्डी चतुष्पथी ग्रामवासिनी रौद्रिकी ॥
 काम्बोजी डाम्बी चण्डाली मातङ्गी ब्राह्मणी सुद्रिका ।
 राजपुत्री महार्द्रिकी दिव्यमदपूरिका ॥
 इत्येवं नाडिचक्रेषु खण्डरोहानुगामिनी ।
 कथयन्तु मम स्वामी किं मया[त]त्र गामिकां ॥
 धातु सर्वशरीरं तु सतुल्यकात्र भावया ।
 भूभागैवर्त्त जानीयात् देशभिन्ना भूम्येक तु ॥
 खण्डखण्डं गतो धातुरथवा देशहोरयः ।
 ण्डकारं सूचितो तेन अण्डगर्भेषु लक्षणात् ॥
 रोप्यते ह्यत्र विज्ञानं यादृशा यस्य धातुषु ।
 आलयं तं विजानीयो कर्मखण्डरोहिका स्वयम् ॥
 ह्यर्थ्यमाणं महापापं मारणो सर्वधातुकं ।
 तैश्च सत्त्वान् विगातीव खण्डरोहा सर्वकर्मिकी ॥
 नायकी वरयोगिन्यां स्वसंक्रान्ता धिती पराय ।
 मीनश्चोदयकाले तु मासि(कामा) फाल्गुनके परे ॥
 आवरगोदावरीद्वीपे महारागस्वभाविनि ।
 नाभावकारकी देवी अद्वयपदमाश्रिता ॥
 सप्तत्रिंशात्मकमध्ये उत्पद्यन्ति स्वमन्त्रजाम् ॥

ॐ वसजर्वं खवुश्रुद्धरोवहिजकाढायेकी हूनीहूये फट् व फटर्नस्वानी
 हाये हूं २ फट् २ स्वाहा ॐ ।

इदं मन्त्रप्रयोगेण मण्डनं सर्वकामिकम् ।
 एकैकस्य देवीनां मध्येषु चतुश्चक्रजां ॥
 उपायप्रज्ञात्मकं सर्वं धर्मोदयेषु मध्यतः ।
 चतुर्द्वारसमायुक्तं तोरणं तद्विभूषितम् ॥

स्नाद्यमानं महामांसं भैरवनादनादितम् ।
 लामाचक्रं तु गोमांसं डाकिनी दन्तिमांसकम् ॥
 वाराहि सर्वमांसञ्च समयसरम्भयोगतः ।
 मन्त्रसद्भावतो ज्ञात्वा न मन्त्राक्षरवाचकम् ॥
 सर्वसत्त्वेषु यद्वायं तन्मन्त्र योगिनी स्मृतम् ।
 यदि अक्षरिकं मन्त्रं लिपिगोतीव सन्निभम् ॥
 नालिकारन्ध्ररन्ध्रेषु श्वासाकारसंज्ञकम् ।
 मन्त्रयानं तु चित्तं हि आपादान्त निरोधनात् ॥
 देशे देशे तु संचारं मध्यदेशेषु चागतात् ।
 वृत्तिः कुर्यात् स्थयन्त्रेषु घटवत् पानपावयेत् ॥
 यन्त्रं श्वासने स्थित्वा तु भ्रामयेत् घ्राणचक्रवत् ।
 चेतनाभ्राम्यमाणे तु मणिरन्त्रं च पीडयेत् ॥
 नवरन्ध्रेषु बीजं च भावयेद्ब्रह्मादिना ।
 अथवा सर्वनाडीषु मन्त्रन्यासमिहाक्षरैः ॥

म क ओ क सौ म वं द्र क मा म व का डा ढ भ रा मा ति द ने
 स रँ दि वं स्वा ह सु सिं डा क सिं हि बु कु ज प ज व ओ लं ।
 जा अ का कौ कं ज त्रि च ल पु मु का भ गृ प्रे व पै उ इम उ म
 स्व म्ले । इति नाभिः ।

प्र दे उ म ज्वा सि मा कौ । इति हृदये ।

र सु भ स्वे मे च मां अ स्ना पू अं स्व वि मू पि श्ले । इति कण्ठस्य च ।

कृ क भी न ती वि चा षो उ स भ म स्थू अ ज वि अ ज षो इ
 च च शा रौ का ढो च मा ब्रा सू रा [म] इति मस्तचक्रस्य ।

अथवा अभेद्यादि नामकम् ।

तेषु चाक्षरं सर्व्व देयं मस्तचक्रके ।

इदं यन्त्रं महाधीमान् प्राणवायु विधार्य्यते ॥

चक्रक्रमे सूत्रयेत् कोष्ठ चतुषद्भलाकृतिम् ।

वर्तुलाकार सर्व्वञ्च पञ्चसूत्राणि पातयेत् ॥

अष्ट षोडश चाष्टौ द्वात्रिंश कोष्ठकं मतम् ।

कर्णिकास्थानमासाद्य भ्रमणं प्राणशक्तिभिः ॥

यावातवधूती वायु तावद्यन्त्रमिहोच्यताम् ।

यदि वा चैव कुर्वीति मन्त्रं गीयति कालिकाम् ॥
 घनिः प्राणसमाकीर्णो नवनाडी तु रोधयेत् ।
 न रोगं न जरा न कष्टं न क्षुत्पिपासकं सदा ॥
 एवमादिमनन्तं च न व्याधिं मरणादिकम् ।
 पञ्चमण्डलके चाथ वाहयेत् सर्वयन्त्रकम् ॥
 धातुरायतनान्यादि भक्षयेदमृतयोगवान् ।
 इत्याह भगवान् स्वामी वज्रडाकस्तथाभूतः ॥
 सर्ववीरसमायोगात् वज्रसत्त्वः परं सुखम् ॥

VIRUPAKSA II OF VIAYANAGAR

BY S. KRISHNASWAMI AIYANGAR

THE period intervening between the death of Devaraya II in A. D. 1449 and the accession of the first Saluva, Narasihga or Narasirhha, was one of darkness and there prevailed some confusion as to the succession of rulers following Devaraya. That Mallikarjuna, Immadi Prauda Devaraya, son of Devaraya II by Ponnaladevi, succeeded his father upon the throne is now placed beyond doubt by the *Gangadasapratapavilasam* and the copper plate in possession of Ramacandrapura Matha (Nagar 65).¹ The problem that is proposed to be taken up here is, who succeeded Mallikarjuna and what was the actual character of the succession? The further consideration of this question is rendered necessary by the discovery² of a copper plate grant³ issued by Virupaksa on the day of his coronation in the year Saka, *Vasu~asta-guna-bhu* (1388), the year Parthiva, karttika, krsna-pancam (fifth of the dark half), about November-December of the year A. D. 1466.

The passages pertinent to this question in the book above referred to are these:—Virupaksa should have succeeded to the throne in Saka 1387, according to Mr. Krishna Shastri, who seems inclined to regard him as the son of Mallikarjuna. Virupaksa's dates range between A. D. 1466 and 1485. What is more, Mr. Shastri rejects Professor Kielhorn's acceptance of Virupaksa as the son of Devaraya II by Sirhhaladevi, and would regard him rather as the son of Devaraya's brother, Pratapadeva, 'who acquired the kingdom from his elder brother.'¹ The other passage is Ferishta's description of the position of Narasihga and the mention in the *Burhan-i-Maasir*

1 Epigraphia Carnatica, Vol. vii, ii, pp. 283-4. For a discussion of this point and for the whole period reference may be made to my "A little-known chapter of Vijayanagar History," Madras 1916.

2 By Mr. A. Rangaswami Sarasvati, B. A., the University Research student, working with me.

3 Printed in full at the end of this paper,

of Malur as a principal fort in the kingdom from which KancI was attacked; and the utter absence of any reference to the ruling power in all these transactions indicates a want of understanding between Narasihga and Virupaksa which would warrant the inference that Virupaksa perhaps came to the throne by means which did not commend themselves to the powerful viceroy.

The position then is this. Mallikarjuna died in A. D. 1465-6 or thereabouts, and his half brother succeeded, setting aside his two nephews, Rajasekhara and Virupaksa. These naturally created a powerful party against him and he was not perhaps quite worthy of the exalted position.

The points actually demanding reconsideration are: (1) whether Virupaksa the successor of Mallikarjuna was the son of Devaraya II or of his brother Pratapadeva; and (2) whether he actually usurped the throne setting aside the sons of Mallikarjuna, namely, Rajasekhara and Virupaksa.

The Satyamahgalam plates¹ of Devaraya II refer to a brother (*anujanma*) of Devaraya by name Pratapa Deva. He was successively governor, under his elder brother, of Terukanambi in Mysore, Mulbagalrajya, and later still of Maratakanagara pranta, the district round Vrnicipuram (Maratakanagara). This prince pre-deceased his brother, having died in A. D. 1446.² He does not appear to have been associated with Ghanadrirajyam (Penukonda Government) particularly. With these facts let us proceed to examine the Srisailam plates with us at present. The passage pertinent to the question runs thus—

Tasya³ NarayanIndevyam utpannah subhalaksanah I
Prataparayaityakhyam agamat parthivottamah H
Gunairanekairavanltalesmin
virajamanah sukrtaptakirtih I
Nijagrajat prapta- *Ghanadrirajyah*
sadhkrtarthl janaparijatah II

1 Epigraphia Indica III. p. 37 ff.

2 Rice, Sr5v. Bel. Insorip. p. 125,

3 I. e. Vijayasya.

Tasya Siddhaladeviti bharya laksanasarhyuta I
 Laksmir Narayanasyeva jata trijagadambika II
 Tasyarh Sivah pradurabhud gunadhya
 namna Virupaksa iti prasiddhah
 Rajadhirajah ksitipalamaulir
 vadanyamurthi karunaikasindhuh II
Nijapra tapadadhigatya rajyam
 samastabhagyaih parisevyamanah I
Khadgagratah sarvaripun vijitya
 sammodate viravilasabhiimih II

There are two other inscriptions bearing upon the point. Malavalli 121 published in the Epigraphia Carnataka III is the first; the second is the one relied upon by Rai Sahib Krishna Shastri, who in his report for the year 1914 states :—"The father of Virupaksa was Pratapa or Praudha-Pratapa. I have suggested (Arch. Sur. Rep. for 1907-8, p. 252, note 5) that this cannot be identical with Devaraya II as Prof. Kielhorn apparently thought (Epigraphia Indica V, Appendix II, 18† a †) but must be his younger brother Pratapa Devaraya who is mentioned in the Satyamangalam plates of Devaraya II as having held a high office under his royal brother. (Epig. Ind. III. p. 36). This is supported by what is stated in the present inscription, viz., that the former 'acquired the rule of the kingdom of Ghanadri (i. e. Penugonda) from his elder brother. Again, the wife of this Pratapa and the mother of Virupaksa was Siddhaladevi as given in our record. Mr. Rice, however, gives the name as Sirhhaladevi in Ep. Car. Vol. III. Malavalli 121. It is possible that Sirhhaladevi is a mistake for Siddhaladevi. Virupaksa is stated in our record to have secured his succession to the Vijayanagar throne by his own prowess (*?uja-pratapcit*). Evidently there was some trouble in the succession subsequent to the death of Mallikarjuna Immadi-Prauda Devaraya I. " This grant is dated almost exactly a year after that of the Srisailam plates. In respect of details these two agree; while in material particulars these two together differ from the Malavalli plates (of date A. D. 1474, six years later than the

Srilsailam plates) which have in place of the first four lines—

Tasya Narayanldevyam *prfidurasit yaiodhanah* I
PraudhapratUpavibhavah Pratapakhyo mahipath II
 Gunairanekairavanltalesmin
 virajamanah sukraptakirtith
 Nijagrajapraptam *anadirajyam*
 sadhlkrtarthl vraja-parijatath II

All the plates apparently make the same statement in the first two lines, namely, to Vijaya by Narayanldevi was born a king called Pratapa, because of 'the possession of mature valour.' The words *Mahipati* and *Parthivottamah* seem unmistakably to indicate that he had been actually king. Besides the term *Praudha* before *Pratapa* has been associated with the king Devaraya almost invariably to form a part of his name, while it is nothing like so closely associated with the name of his brother. The terms *ana-dirajyam* (immemorial kingdom) and *vrajaparijatdh* (the most excellent among the 'Yadus') would seem to have the same tendency. The substitution of *Ghanadri* for the word *anadi* does make a change in significance, while that of *vraja* for *jana* or vice versa does not really matter. There really is nothing so far to compell the conclusion that the person referred to is not Devaraya II. The expression *nijagrajat praptam*, with the variant *nijagraja* for the first part, does make a material alteration which seems to have led to the Government Epigraphist taking it as referring to Devaraya IP's brother Pratapadeva. Assuming the reading *nijagrajat* to be the correct reading, he takes it that this part refers to Pratapadeva son of Vijaya, who probably was the governor of Ghanadirajyam under his brother. If, on the other hand, it is taken as referring to Devaraya II, we have no knowledge of an elder brother of his, nor of his having been governor of Ghanadri. If again it is possible to take Ghanadri with *nijagraja* instead of *nijagrajat*, the meaning would be that Devaraya II got the Penukonda viceroyalty from his elder sister, possibly Harima referred to in a Chitaldroog

record,¹ the wife of Saluva Tippa who was viceroy of Mulbagal-maharajya (major province).

While, therefore, it is just possible that the reading may actually be the one or the other, the actual expressions used seem to refer to a monarch that ruled and not to a younger brother who did not occupy the throne at all. The decision must then rest upon the KancI inscriptions² on which the late Prof. Kielhorn based his conclusions. The expressions actually used are *Sri-Vlrapratapa Devarayamaharayar kumarar Mallikarjunadeva Maharayar* (Mallikarjuna, Saka 1387, the son of the glorious Vlrapratapa Deva Maharaya) in respect of Mallikarjuna; and *Sri Devaraya Maharayar kumarar srl Virupaksadeva Maharayar* (the glorious Virupaksadeva Maharaya, Saka 1392, the son of the glorious Devaraya Maharaya).

The dropping of the term Vlrapratapa in the second of these records cannot be held to state that Virupaksa was the son of Pratapa Devaraya, as we have no warrant for assuming that this prince was ever known by the designation Devaraya, though this forms part of the name Pratapa Deva who is also often known as Prataparaya. The doubts and the difficulties raised by the three copper plates of Virupaksa notwithstanding, it would be difficult to resist the conclusion that *Mallikarjuna and Virupaksa were sons of Devaraya II by different wives.*

In regard to the second part of our thesis, namely, whether Virupaksa usurped the throne, we are at one with Hai Sahib Krishna Shastri in suspecting that there was some trouble in the succession of Virupaksa to the throne, whether it be after the death of Mallikarjuna or before. The expression *nijapratapad adhigatya rajyam* justifies the suspicion, as also the attitude of the viceroys and the ascent of the Saluvas to supreme power. On this point we get unexpected light from the Vaisnava work *Prapanamrtam* compiled in the reign of Venkatapatiraya, who

1 SrTmSn Sste prasasto Vijayanrprasuto DevarSyaksitmdrah i
Tasyagrajaya Hariraahganayah praneSvarah Saluva Tipparajah I
(Chitaldroog, 29, Ep, Gar. XI),

2 Indian Antiquary X X I. p. 322.

died in the year A. D. 1614, by a disciple of the grandson of Kumara Tatacarya, the contemporary of Ramaraya who fell at Talikota in A. D. 1565. In writing the story of Yetur Singaracarya, the founder of the Yetur section of these Tatacaryas he has the following—

Nrsirhharyo mahatejah sarvasastravisaradah 1
Eturunama nagaram sa prapa sumahayasah II

Tasminn Eturunagare kancit kalam samasthitah
Tasmin kale mahateja Virupakso mahabalalah
Sasasa rajyam dharmena vijaye nagare nripah
Dristvasahisnavas sarve Virupaksasya vaibhavam II
Jnatayo hiriisifcum yatnan cakrire baladarpitah
Virupakso viditvatha tesam tat karma krtsnasah II
Disantaram avasthaya nirgatya nagarad bahih
Gudho rahasi kasminscit kancit kalam ninaya sah II
Tatali sampadya mahatlm senaih sa caturanginlm I
Kenapyajiiatavrttanta nisi the sa ball mahan II
Vijayam nagaram prapya Virupakso nrpottamahl
Nissesam sarva satrunam vadhamcakre mahabalahl
Vijayakhye tatas tasmin nagare purvavat fcada I
Rajyam prasasayahs tasthau sarvalokamahipatihll
Nislthe bandhavas sarve tena ye nihata nrpahi I
Pisacabhutas te sarve putrapautradika janah
Tam nrpam pidayamasur Viriipaksam divanisam
Visrjya rajabhavanam Virupakso mahamatihll
Punar anyad vidhayasu rajavesma mahabalalah
Rajyam prasasayaiis tasthau tatra sarvajanaais sahall
Pratiratram pisacanam tesam kolahalo ravahl
Pratapas ca mahans tatra sruyate rajavesmani II
Paisacyamocanarthaya tesam rajamahatmanal
Kanyagobhumidanani grhadananyanekasah II
Punyavratanyanekani krtany anyani yani ca I
Sa tair na mocita danair ghorapaisacyavedana II

Without actually translating tho passage, the substance of it may be given as follows: Nrsirhharajra (*vulgo*

Sihgaracarya) was in residence at Yetur for some time having come there from KancI (?). Virupaksa was then the ruling sovereign in Vijayanagar. His cousins and others getting jealous of his great prosperity made his position very uncomfortable. Virupaksa went into exile and had to bide his time. Sometime after, having collected together a large army, he attacked his enemies and destroyed all his relatives that caused him so much trouble. He then ascended the throne but the royal palace at Vijayanagar had become unfit for residence because his victims, having become *pisucas*, haunted the whole city and made life impossible. Then the story goes on to say that Singaracarya by reading the Ramayana in the ghost-haunted part of the city, released the ghosts from the *paiidea* life, and thus rid Virupaksa of this pest. Virupaksa's grant to this Acarya was in gratitude for this great peace that the Acarya gave him.

The two expressions that occur in his inscriptions, *nijapratdjm̐d adhigatya rajyam* 'having taken possession of the kingdom by his own valour,' and *khufj yd gratas sarvaripun vijitya* 'having overcome all his enemies at the point of the sword,'¹ seem but the voice from the grave of what is described in comparatively clear, though somewhat coloured, language by the hagiologist. That this expression is *sanyramatah* 'in battle/ would alter the purport but little, though it would give the deed perhaps a dignity that it did not possess. Even in this slight change there might have been more than meets the eye. Paisaca life is the fate of those that die 'bad deaths' (*durrriaru\ia*) and death in war entitles one to *avarga* (Indra's heaven). There is one other minor change also noticeable. The coronation grant (the Srisailam plates) has *pltryam tiimhusanam*, the throne of his father, at the worst the throne of his ancestors. This gets altered in the Malavalli grant into *divyam nimhasanam* (the divine throne). Whether the alteration was made by accident or design is more than can be decided at present. The Srisailam plates belong to Saka 1388, the Bellary plates to the next year, and the **Malavalli Hi**, to A. D. 1396.

These three grants studied comparatively in the light of the passage from the Prapannamrtam leave hardly any doubt that Virupaksa waded through slaughter to the throne; and this incident perhaps finds a distant but inaccurate echo in the story that Nuniz has to relate of the events following the death of Devaraya II. If this conclusion should turn out to be correct in the light of further research, it would remove another dark spot in Vijayanagar history and make the position of the Saluvas clearer, exhibiting the Saluva usurpation in the true light of a patriotic and wise act of far-seeing statesmanship.

Transcript of the

Srisnilam... Plu.t... pf .ViriiiTikṣa

[I.2] श्रीगणाधिपतये नमः । नमस्तुंगशिरश्चुंबिचन्द्रचामरचारवे । त्रैलोक्य-
नगरारंभमूलस्तंभाय शंभवे ॥ मद्रामोदन्नमद्भुजनिवारणकरोज्ज्वलः । अव्या-
द्वणपतिविश्वं विश्वविघ्ननिवारणः ॥ अत्युज्ज्वलमुदाराङ्गं घृष्टिकायं बिभर्ति यः ।
सपायादखिलं विश्वं विष्णुरेष सनातनः ॥ अस्ति श्रीकमलालयानुजतया
दीव्यन्नभोमण्डले नक्षत्राधिपतिः प्रभाभिरनिशं दिङ्मण्डलोद्धासक(त) । क्षीराब्धि-
प्रभवः कलानिधिरिति ख्यातस्सुधांशुस्स्वयं मौलौ यस्य विभूषणत्वमगमच्छं-
भोर्भवानीपते ॥ तस्यान्वयेन संभूतो यदुनीम महीपतिः । तद्गंजजेन भूरेषा
वासुदेवेन पालिता ॥ अभूदस्मिन्महावंशे प्रभूतभुजविक्रमः । संजातलक्ष्मी-
संपन्नः संगमो नाम भूपतिः ॥ विजित्य शत्रूनासिलान्जगत्प्रभुः सम्मोदते
वीरविलाससंश्रयः । समस्तविद्यानिपुणः प्रतापी धर्मैकभूस्सर्वकलासुको-
विदः ॥ अभूदस्मान्महाभूपाद्भुकरायमहीपतिः । प्रचंडतरदोर्दंडसंहि-
तारातिविक्रमः ॥ कर्नाटलक्ष्मीस्सविलासमास यस्मिन्महीपे महनीयकीर्तौ ।
भूमिस्तथैवाप वसुन्धरात्वं स्थिरेति नाम प्रथमं गुणौघैः ॥ क्षोणीपालनमेव कर्तुम-
निशं जातौ बिलोकाधिपावेकीभूय च बुकरायनृपतौ पीताम्बरेशावुभौ । नास्मा
चापि तयोः प्रसिद्धिमगमद्भूवल्लभः श्रीयुतः सर्वौ सागरमेखलां भुवमिमां संपा-
लयन्दीव्यति ॥ राजा हरिहराख्योसौ महादानानि षोडश । विधाय लक्ष्मीसंपन्नो
भाति सर्वगुणाश्रयः ॥ तस्य मेलांबिकाजानेः प्रादुरासीद्यशोधनः । प्रतापदेव-
[II.2] रायाख्यस्तनयो विनयान्वितः ॥ प्रतापवक्त्रौ पारिजंममाणे शुष्कास्तुरुष्का
अपि यस्य राज्ञः । रिपुक्षितीन्द्राश्चनिरस्तधैर्याः कान्तारवल्मीककृतात्मरक्षाः ॥

तस्य देमांबिकाभर्तुः पुत्रश्चाशुनिषूदनः । विद्याविन(य)संपन्नो वीरो विजय-
भूपतिः ॥ तस्य नारायणीदेव्यामुत्पन्नः शुभलक्षणः । प्रतापराय इत्याख्या-
मगमत्यार्थिवोत्तमः ॥ गुणैरनेकैरवनीतलेऽस्मिन् विराजमानः सुकृताप्तकीर्तिः ।
निजाग्रजात् प्राप्तवनाद्रिराज्यः सार्धकृतार्थी जनपारिजातः ॥ तस्य सिद्धल-
देवीति भार्या लक्षणसंयुता । लक्ष्मीनारायणस्येव जाता त्रिजगदंबिका ॥ तस्यां
शिवः प्राबुरभूणाढ्यो नाम्ना विरूपाक्ष इति प्रसिद्धः । राजाधिराजः
क्षितिपालमौलिर्वदान्यमूर्तिः(ः) करुणैकसिन्धुः ॥ निज[प्रत]प्रतापादधिगत्य
राज्यं समस्तभाग्यैः परिसेव्यमानः । स्वद्वाग्रतः सर्वैरिपून्विजित्य संमोदते
वीरविलासभूमिः ॥ सिलीकृतसुरत्राणो द्रावितान्ध्रमहीपतिः । हिंदुरायसुर-
त्राणस्त्रिराजमुजयोन्नतिः ॥ वैरिराजगजेन्द्राणां पंचास्यः परभीतिकृत । श्रित-
पद्मासुधाभानु-इत्यादि विरुदोन्नतः ॥ तुंगभद्रासरिर्त्तरे विरूपाक्षस्य सन्निधौ। पित्र्यं
सिंहासनं प्राप्य पालयन्नवनीमिमां ॥ पुण्यश्लोकाग्रगण्योसौ विरूपाक्षक्षितीश्वरः।
धर्मस्थानगतैस्तद्भिः संयुतो धरणीसुरैः ॥ शालिवाहननिर्णीतशकवर्षक्रमागते ।
वस्वष्टगुणभूयुक्ते पार्थिवारूये च वत्सरे ॥ कार्तिकाख्ये च मासेस्मिन्नसिते पंचमी-
तिथौ । राजाधिराजसर्वज्ञो राज्ञां पर(मे)श्वरः ॥ विरूपाक्षक्षितीपालो विरूपाक्षस्य
सन्निधौ । निजपट्टाभिषेकस्य पुण्यकाले नृपोत्तमः ॥ प्रतापाह्वयविख्यातगिरे राज्ये
त[II. २]थैव च । कंनाडौशिर्माणाख्यात आतुकूरेति विश्रुतं ॥ कैला(स)स्थित
एव शंभुरधुना श्रीपर्वते सर्वदा पार्वत्या सह संवसत्तातिमुदा लोकत्रयं पालयन्। यस्ति
ष्ठत्यथ तस्य सेवकविधौ श्रीलिंगचक्रेश्वरः श्रीमात्र पर्वतमल्लिकार्जुनमहादेवस्य पा-
दार्चकः ॥ कैलासोपरि ये स्थितामरगणा[या]वापृथिव्यां च ये मुख्यसिद्धगणम(?)
प्रभृतयस्तैः सार्धमयापि यः । वाराणस्यधिवासतामधिगतः श्रीपर्वतेयं मुदा श्रीसि-
द्धप्रतिपन्नवैभवतया मिक्षाप्रवर्तिते(?)च ॥ अंगरंगादिभोगाय पर्वमासोत्सवाय च ।
तपस्विभ्योन्नदानाय विरूपाक्षक्षितीश्वरः ॥ द्वौ स्वाभिमतवाप्त्यै श्रीगिरौ सन्नि-
वासिने । प्रतापाख्यगिरे राज्ये वराहाणां चतुश्शतं ॥ अष्टरापरिविख्यात आतु-
कूरेति निश्चितं । विरूपाक्षपुरं चेति प्रतिनाम्ना विधाय च ॥ सहि(पु)ण्योद-
कदानधारापूर्वं यथाविधि । निधिनिक्षेपवार्यश्म अक्षिण्यागामिसंज्ञकं ॥ सिद्ध-
साध्य इति ख्यातमष्टभोगैश्च संयुतं । कुल्यारामादिसंयुक्तं समस्तबालिसंयुतं ॥
द्वौ पर्वतसंस्थस्य मल्लिकार्जुननामतः । दीव्यमानस्य णावस्य विरूपाक्षक्षिती-
श्वरः ॥ तपस्वी स च संतुष्टः संयुतः परयामुदा । राजानमाशिषं चक्रे चिरंजीवी

भवत्विति ॥ तैस्तैस्सामन्विताश्चिह्नैर्दिक्षु प्राच्यादिषु क्रमात् । सीमानो यस्याग्रहार-
स्य लिख्यते देशभाषया ॥ श्रीकानाढबोलगण आतुकूर ग्रामदचतुस्सीमेयविव-
रमूडलु लोल्ललपिनापुत्ता पुरदसीमेमेर । अनंतपुरदसीमेमेर । बांहलपिनापुरद-
सीमेमेर ॥ [III. 1] बाहलअनंतपुरदसीमेमेर करि वेनसीमेमेर । वुथालसीमेमेर
नंदिकुट होलसीमेमेर नेतिपले होलसीमेमेर रामापुरद होलसीमेमेर रंद्देश्वरद होल-
सीमे गेबुरुगमरनकुडिपोतु राजपल्लिय होलमेरेसीमे । ईशान्य दलपे जरमहुगेमेर ।
रंतितुसिरुमलातुकू रिगे प्रतिनामविरूपाक्ष पुरद चतुस्सीमा ॥ भारद्वाजोद्यबोधी-
मान् चिक्रतम्मतनूभवः । बह्वचो गंगणार्योसौ वृत्तिमेकामिहाश्रुते ॥ काश्शपो याजु-
षो धीमान् नारणार्यतनूभवः । रायसाधिपरंगार्यो वृत्तिद्वयमिहाश्रुते ॥ त्वष्टा श्री-
मुद्गणाचार्यसुनुश्शासनलेत्तकः । वीरणस्सुगुणो धीमान् वृत्तिद्वयपतिः स्वयं ॥ दान-
पालनयोर्मध्ये दानाच्छ्रेयोनुपालनं । दानात्स्वर्गमवाप्नोति पालनादच्युतं पदं ॥
स्वदत्तां परदत्तां वा यो हरेत वसुंधरां । षष्टिर्वर्षसहस्राणि विष्टायां जायते क्रिमिः ॥
स्वदत्ताद्द्विगुणं पुण्यं परदत्तानुपालनं । परदत्तापहारेण स्वदत्तं निष्कलं ब(भ)वेत् ॥
एकैव भगिनी लोके सर्वेषामेव भूभुजा । न भोज्या न करग्राह्या विप्रदत्ता वसुन्ध-
रा ॥ सामान्योयं धर्मसेतुर्नृपाणां काले काले पालनीयो भवद्भिः । सर्वानि-
तान्भाविनः पार्थिवेन्द्रान् भूयोभूयो याचते रामचन्द्रः ॥

THE JAIN TEACHERS OF AKBAR

BY VINCENT A. SMITH

THE concluding section of Ain 30 of Book II of the *Ain-i-Akbari* is entitled 'The Learned Men of the Time,* who are enumerated as being 140 in number, divided into five classes. The first class, 'such as understand the mysteries of both worlds/ headed by the name of Abu-1 Fazl's father, Shaikh Mubarak, ends with No. 21, Adit (Aditya), probably a Brahmanical Hindu. The first twelve names are Muslim. Nos. 13-21 are all Hindu in form. Blochmann evidently knew nothing about the persons indicated by those nine names, as he gives no note on any one of them. No. 16, Hariji Sur, was, as will be explained, an eminent Jain.¹

We need not trouble ourselves now with Abu-1 Fazl's second, third and fourth classes. His fifth class, 'such as understand sciences resting on testimony (*nnkl*)' comprises Nos. 100-140, all of whom, except the last two, are Musalmans. The names of those two, Nos. 139 and 140, are given respectively as Bijai Sen Sur and Bhau Chand, again without comment by Blochmann. They also were distinguished Jains.

The important fact that Akbar welcomed Jain teachers and listened to their instruction for at least twenty years has been ignored in the extremely unsatisfactory account of his life and actions given in modern history books. Indeed, this fact has been made known only by an anonymous article in an obscure publication in 1910, which will be described presently.

The erroneous notion that Buddhists took part in the debates on religion, held first in the Ibadat-khana or House of Worship, and subsequently in the private apartments

1 The spelling *Jain', not 'Jama' is used intentionally. People do not ordinarily speak Sanskrit.

2 So much erroneous nonsense has been written about the 'Ibadat-kh' that it is well to state briefly in this place the facts, which will be explained more fully in an essay to appear in an early number of the

of the palace at Fafchpur-Slkri rests on the mistranslation of a passage in the *Akbanmma* committed by Chalmers in his manuscript version and copied first by Elliot and Dowson and then by von Noer.

Abu-1 Fazl relates that at the end of September, or early in October, 1578, the discussions in the '[*badat-khana* were carried on by the representatives of many creeds 'Sufi, philosopher, orator, jurist, Sunni, Shui, Brahman, Jati, Slura, Charbalc, Nazarene, Jew, Satr (Satran), Zoroastrian, and others enjoyed exquisite pleasure' (Vol. III, Chap, xlv, p. 365 of Beveridge's version). The words Jati and Slura, which of course refer to Svetambara Jains, were mis-translated by Chalmers, as 'Jains, Buddhists.' That error, having been adopted by Elliot and Dowson (Vol. VI, p. 59), misled von Noer, who drew the erroneous inference that * it may be concluded with not too slight probability that there were Buddhists at Fathpur' (transl. Beveridge, T. 327,

Journal of the Royal Asiatic Society. The '*ladat-khana*, or House of Worship, was built by order of Akbar early in 1575 as a debating hall for the accommodation of the doctors of rival schools of Muslim theology only. For about three years the discussions were confined to the Islamic domain. In 1578 Akbar ceased regular attendance at the mosque, and during tint ye.ir admitted Jains and representatives of sundry other sects and religions to the disputations in the 'l *badat-khana*. In Sopt 1579 he compelled the '*ultima* to issue the 'Infallibility Decree' which made him supreme arbiter in all disputed questions relating to Islam. Discussion on the subject in the Debating Hall thus became superfluous. In 1580, 1581, and 1582, the debates in which the Jesuits joined seem always to have been held in the private apartments of the palace.

The House of Worship was a large, commodious, handsomely decorated building, probably capable of accommodating several hundred people, erected in the gardens of the palace not far from the dwelling of Shaikh Salim Chishti. No trace of it has been found, and its exact site is totally forgotten. The reason for such oblivion probably is that in 1579, or soon after, the hall was demolished as being useless. Akbar had ceased to be a Musalmun from about 1580; and from the beginning of 1582, when he promulgated the *Din llahl*, his apostasy was open and avowed. He never resumed his old faith, and died as he had lived for twenty-three years, a believer in One God, represented on earth by His Imperial Majesty. All the statements in this note can be fully proved, and will be dealt with in my work on Akbar, which will be published as soon as war conditions at the Clarendon Press permit.

note). In reality, there is not a particle of evidence that any Buddhist ever attended tho debates, or that Akbar acquired even the slightest knowledge of Buddhism. Abu-1 Fazl himself knew little about the subject, because he could not find anybody in India competent to teach him. He says expressly:—* For a long time past scarcely any trace of them [Buddhist monks] has existed in Hindustan, but they are found in Pegu, Tenasserim, and Tibet. The third time that the writer accompanied His Majesty to tho delightful valley of Kashmir [*sat.* A. D. 1597], he met with a few old men of this persuasion, but saw none among the learned.¹ It thus appears that Akbar never had an opportunity of meeting any learned Buddhists, and that no Buddhists took part or could have taken part in the discussions at Fathpur-Sikri.

But the Jain holy men undoubtedly gave Akbar prolonged instruction for years, which largely influenced his actions; and they secured his assent to their doctrines so far that he was reputed to have been converted to Jainism.

The correct name of the Jain who 'understood the mysteries of both worlds' was Hlravijaya Suri, and the names of the two teachers mentioned by Abu-1 Fazl as * understanding sciences resting on testimony (*nakl*),¹ such as religious law, traditions, and history, were Vijayasen Suri, and Bhanucandra Upadhyaya.

We will now briefly discuss the relations of these three teachers with Akbar.

H iravijaya

Hlravijaya, the most distinguished of Akbar's Jain instructors, who was credited with the conversion of the emperor, was born in Samvat 1583=A. D. 1526-7, at Palanpur (Prahlanan Patan), an ancient town in Gujarat. At the age of 13 (A. T. 1539), he took up the religious life under the guidance of Vijaya Dana Suri, who sent him to the Deccan to study logic, in which he became proficient. In A. D. 1557 he was given the title of Vacaka at Nadulai

or Naradpur, and two years later was made a Suri at Sirohi in south-western Rajputana. He thus became the leader of the Tapagana or Tapagaccha section of Jain ascetics.

In the *Pattavali* of the Tapagaccha his biography is entered in the following terms:—

'58. Hlrvijaya, who converted the emperor Akbar (*ef.* Kharatara-Pattavali, *sub* 61), born Sam. 1583 Marga⁰ sudi 9, at Prahladanapura; *diksha*, 1596, Kartika vadi 2, at Patana; *vachakapada*, 1608, Magna sudi 5, at Naradapurl; *suripada*, 1610, at Sirohi; died 1652, Bhadra⁰ sudi 11 [A. D., 1595] at Urhnanagara.'¹

The reference to No. 61 of the Kharatara-gaccha (*ibid.* p. 250) is of interest because it credits the saint Jinacandra of the Kharatara section with having 'converted the Emperor Akbar to the Jain religion.' His name is not entered in any of Abu-1 Fazl's lists, and I have not found any other mention of his presence at Akbar's court.

The fame of Hlrvijaya having reached Akbar's ears, the emperor sent swift messengers to summon him to court. Shihab Khan (Shihabu-d-din Ahmad Khan), the Governor of Gujarat, on receiving the imperial commands, arranged for the departure of the Suri, who made over the charge of his community to Vijayasena. The Suri, in strict compliance with the rules of his order, declined all the gifts and conveyances offered by the governor. He walked the whole way, much to the amazement of the emperor, who provided for his reception with great pomp. Akbar, being busy at the time, **made** his guest over to Abu-1 Fazl, who entered on the discussion of religious subjects with him. When Akbar was at leisure, he received instruction concerning Dharma from the Suri, who explained the nature of the five vows observed by Jain ascetics—namely, non-killing, truthfulness, refusal to accept anything not freely offered, celibacy, and abstinence from possession of wealth in the form of money, etc. The emperor pressed certain books on his guest, who accepted

1 IClatt, *Ind. AnU* vol. XI (1882), p. 256.

them reluctantly and then gave them to the Agra library, meaning presumably that of the Jain community at that place.

The Suri retired to Agra for the rainy season of 1582, returning to Fathpur-Sikri at the beginning of the cold season. He persuaded the emperor to issue various commands in accordance with Jain doctrine, and to extend them in the following year, 1583. Fishing in the great lake called Dabar, evidently that at Fathpur-Sikri, was prohibited. The title of Jagadguru or World Teacher, was conferred on the Suri, who quitted the capital in 1584, leaving Santicandra Upadhyaya behind him at court, Hiravijaya spent the rainy season of 1585 at Allahabad, designated as Abhiraraabad,¹ and that of 1586 at Agra. During the rains of 1587 he was the guest of 'Sultan Deorah or Deodah',² the chief or zemindar of Sirohi, who was much attracted by the doctrine of the Suri who had attained his rank as such at Sirohi in A. D. 1553 (Sam. 1610). Later in the year 1587, Hiravijaya returned to Patan (Pattan) in Gujarat. He starved himself to death in the approved Jain fashion in A. D. 1595 at the age of sixty-nine, A *stupa* was erected to commemorate him.

The basis of this paper is the essay by 'C' entitled * Hiravijaya Suri, or the Jainas at the court of Akbar,¹ published in a number of the *Jaina-Sasana*, a little known periodical printed at the Angrezi Kothi, Benares City, in Vira Sam. 2437=A. D. 1910, pp. 113-128. The author of that essay was the first to make public the identification of the three Jain names in Abu-1 Fazl's lists. He makes extensive quotations from several metrical Sanskrit works, of

1 This name for Allahabad is quoted by 'C' from one or other of the Jain Sanskrit poems. It means 'abode of delight', and probably never was current. I have not met it elsewhere.

2 'Sultan Deorah' is a corruption of the name Surthan, a DeorS Rajput, who was the RSo of Sirohi in the reigns of Akbar and Jahanglr, and refused to recognize the imperial supremacy. The DeorSs are a branch of the Chauhsns. Akbar had sufficient control over Sirohi to be able to pass the town when he wished to do so, as he did in 1573 See Imperial Gazetteer (1908) s. v. Sirohi.

which two are not mentioned by Guerinot in his *Essnl de Bibliographic Jaina*, Leroux, Paris, 1906; or in the supplement to that work, entitled ⁴ *Notes de Bibliographie Jaina* ' printed in the *Journal Asialique*, Juillet - Aout, 1909, pp. 47-148.

The poems cited by ' C ' are:—

- (1) *Jaqadguru-kfiviyam*;
- (2) *Him-mubhaqyam*; by Devavimala Gani, ed- by K. P. Parab (Kavyamala, No. 67), Bombay 1900, with the author's commentry;¹
- (3) *Krparam-kosa*: a panegyric on Akbar, composed by Santi(Santi)candra.

Further information about them would be welcome.

Klatt noted the following particulars concerning works connected with Hiravijaya Suri—

' 4 *Pattuvall* of the Tapa-gachchha.

The *Gurnfwali* of Dharmasagara-gani (Samvat 1629) is printed in Weber, *Verz.* II, pp. 997-1015. This is the original edition of Dh. Ail the Poon a Mss. contain the revised edition, made Samvat 1648 [=A. D. 1591] by the order of Hiravijaya-Siiri . . . Later works are—the *Pattavall* contained in Sarga IV of Devavimala's *Hiravijaya-caritra*, see *Journ. Germ. Or. Sw.*, vol. 47, p. 315/ (Klatt and Leumann, *Tnd. Ant.*, vol. XXIII (1894), p. 179).

Vijayasena Suri and Bhanucandra Upadhyaya

We have mentioned that Hiravijaya, when starting on his long journey to court, put Vijayasena in charge of his sect or congregation, and that when Hiravijaya quitted Fathpur-SikrI in 1584, Santi(Santi)candra remained at court. He composed an eulogy of the emperor, entitled *Krparasa-kosa*, ' Treasury of the Quality of Mercy ' describing and praising all Akbar's merciful acts. This elaborate piece of flattery used to be read to Akbar, who was pleased with it. Late in 1587 when Santicandra desired to return to Gujarat, the emperor gave him *farmans* abolishing the *jizya* tax on non-Muslims, and prohibiting

slaughter of animals to a large extent. The forbidden days were extended so as to comprise half the year.

Bhanucandra continued to reside at court. His pupil Mahamahopadhyaya Siddhicandra composed a commentary on the latter half of the *K'ddambari* of Bana. He had the reputation of being able to do 108 things at a time, and so secured from Akbar the formal title of *K hush-fa ham*, or intelligent.' From the colophon to the commentary on the *Kadambari* by Siddhicandra we learn, through C's quotations, that his teacher, Bhanucandra, a Mahopadhyaya, had taught Akbar 1000 names of the Sun, and had obtained from the emperor in 1593 *anna na* abolishing the tax on pilgrims to the holy hill of Satrunjaya at Palitana, and directing that all the sacred places should be made over to Hiravijaya Siiri.

Vijayasena Suri was then invited to the court, which continued to reside ordinarily at Lahore until 1598. He vanquished 363 learned Brahmans in formal debates to Akbar's satisfaction and so earned the title of Sawai. He made Bhanucandra an Upadhyaya or instructor, the expenses of the ceremony, amounting to 600 rupees, being defrayed by Abu-1 Fazl.¹

Probably Bhanucandra continued to reside at the court until the end of the reign in 1605. However that may be, the details given above prove conclusively that Akbar's close intercourse with Jain teachers lasted for at least twenty years, from 1578 to 1597 inclusive.

A person called Shah Sauvarnika Tejapaia induced Hiravijaya in 1590 to consecrate the temple of Adisvara or Adinatha on the Satrunjaya hill, the 'Shatrunja' of the *Imperial Gazetteer*, adjoining the town of Palitana in Kathiawar. In the porch of the eastern or front entrance

1 The ordinary ascetic is called a Sadhu. 'The next step to which he can rise is that of Upadhyaya or instructor. An exceptionally clever monk may be chosen from amongst the others as teacher, when he is expected to study the scriptures and teach them to his fellow monks. Amongst the Tapa"gaccha no monk can be chosen as an Upadhyaya till he has been an ascetic for at least A year' (Stevenson, *The Heart of Jainism*, p. 239). See *Aln*, vol. III, p. 206

of that temple there is an exceptionally long Sanskrit inscription, comprising 87 verses in various metres, the composition of Hemavijaya, and dated 1650=A. D. 1593.¹

The long record has high historical value as a trustworthy contemporary account of Akbar's dealings with his Jain teachers. It will be well first to quote Buhler's summary of the contents. He notes that the inscription enumerates sundry Jain leaders, of whom the third is Hiravijaya, and proceeds—

'(3) HIRAVIJAYA (Klatt No. 58), verses 14-24, who was called by Sahi Akabbara [Shah Akbar] to Mevata, and persuaded the emperor in Samvat 1639 I = A. D. 1582] to issue an edict forbidding the slaughter of animals for six months, to abolish the confiscation of the property of deceased persons, the *Sujijia* tax, and a *Rulka*;² to set free many captives, snared birds and animals; to present Satrunjaya to the Jainas; to establish a Jaina library (*Faustakam bhdyddiimm*), and to become a saint like king Srenika;' who converted the head of the Lumpakas, Meghajl;¹ made many people adherents of the Tapagachchha;

1 References are.—(1) short notice in Kielhorn's 'List of the Inscriptions of Northern India,' appendix to *Epiuraphia Indica*, vol. V, No. 308; (2) Buhler, abstract of contents of Inscr. No. XII of 'Jaina Inscriptions from Satrunjaya' in *Ep Ind*, II, p. 38, and transcript of text, *ibid.*, pp. 50-59; (3) parts of text and transl. in Cs' es3ay above cited. The translation is quoted as from * J. B. R. S., August, 1844,' but really from the *Journal of the Bombay Branch of the R As. Soc*, for 1841. pp. 59-63.

' Possibly a tax on Jaina pilgrims visiting their holy places may be meant—see also EIplnnstone's *History of India*, p. 339 (6th edition. The *Sujijia* tax is, of course, the *Jizya* or capitation tax on infidels) IG.B.J.

3 Or Bimbisara, the fifth Saisunaga king of Magadha, who is be* jioved by the Jains to have been a zealous adherent of their religion, as well as his son Ajatasatru (See *tt +If /.*, 3rd Ed., p. 35 n., and S. V. Venkatesvara Aiyar in *Ind. Ant*, 1916, p. 12).

4 'Regarding the Lumpakas see Bhandarkar, *Report on Sanskrit Mss.*' for 1883-4, p. 153' IG.B.J. 'C'(p. 114) states that Meghaji Rsi, being convinced of his errors, became a pupil of Hiravijaya. Gudrmot, abstracting Weber, writes—' 7. Secte Padimaron (Lumpaka). Fondle par LumpSka in Samvat 1508. [---A.D. 1451J. Elle a pour caractere fondamentale d'dtre opposee au culte des images' {Bibl. Jaina, No. 336, p. 176),

caused many temples to be built in Gujarat and other countries; and made many natives of that country, of Malava, and so forth, undertake pilgrimages to Satrunjaya. No. CXVIII commemorates one of these pilgrimages, which was undertaken by Vimalaharsha and 200 others. The same inscription states that Hiravijaya belonged to the *Sapha* race. He died, according to XIII by starvation, at Unnatadurga, in Samvat 1652, Bhadrpadā Sukla 10, and his *padukas* were erected in the same year, on Marga. vadi 9, Monday, by Udayakarna of Stambhatirtha (Cambay)¹ and consecrated by Vijayasena. (4) Vijayasena (Klatt No. 59), (verses 25-34), who was called by Akabbara [Akbar] to Labhapura (Lahor), received from him great honours, and a *phuramana* [*farman*], forbidding the slaughter of cows, bulls, and buffalo-cows, to confiscate the property of deceased persons and to make captives in war; who, honoured by the king, the son of Choli-begam² (Choll Vegama), adorned Gujarat. Latent date Samvat 1650.'

The nature of the orders issued by Akbar in conformity with the advice of his Jain monitors is sufficiently indicated by Biihler's summary of the great inscription as quoted above. The testimony of that record is fully confirmed by Badaoni, who adds that infringements of the rules concerning the killing of animals were treated as capital offences. Akbar, in adopting such rigorous measures, followed precedents set by Harsa and various other ancient Indian kings, who preferred the life of a beast to that of a man.³

1 Stambhatirtha, a Sanskritized form of KhambSyat or Khambat,

2 Choll or Chui! Begdm was an epithet applied to Akbar's mother, Hamlda Bano Begani, on account of her painful wanderings in the desert (*chul*), prior to her son's birth. Humayun conferred the title *Chull* on the attendants who followed him through the deserts (*Akbarnama*), tr. (Beveridge, vol. I, p. 412).

3 The interpretation 'capital punishment' is that of Blochmann, *Ain*, Vol. I, p. 200). Lowe renders simply 'punishment,' adding that many a family was ruined, and his property confiscated * (page 331 and Errata). Blochmann seems to have been right. For the practice of Hindu kings, see *Early Hint, of India*, 3rd ed., pp. 181, 344.

The order forbidding the confiscation of the property of deceased persons is expressed in the text of the inscription (v. 32) by the words—

'the whole estate of the dead was to be released.' The command professed to repeal the rule of practice under which the Mogul emperors were accustomed to seize the property of any deceased subject who left an estate worth confiscating. The order of repeal, like many other benevolent enactments issued from time to time by Akbar and his successors, was not acted on. When Akbar's mother died in 1604, leaving a will directing her estate to be shared among her male descendants, the emperor disregarded her injunctions and seized the whole for himself, as Du Jarric relates.¹

According to Badaoni (Lowe, p. 404), the legislation of A. H. 1002 (= A. D. 1593-4) provided that—

'An inspector and registrar of the effects of those who died or disappeared was to be appointed. So that if any one who died had an heir (P. 391), after it had been proved that he did not owe anything to the imperial exchequer, was not a *karori* (tax-gatherer), or a banker receiving deposits, the heir might take possession of it; otherwise it passed into the imperial treasury; and until they got a receipt from the treasurer, they were not to bury the deceased.'

Those rules, it should be observed, were issued long after the decree obtained by the Jains which professedly abolished the confiscation of the estates of deceased persons in general terms. The modified rule of 1593 was not observed, and the protection given to the subject was illusory. There is abundant evidence that Akbar and his successors ordinarily seized all estates worth taking. There was much 'make see,' to use the Chinese phrase, about the orders repeatedly issued to abolish burdensome imposts and practices.

The *jizya* was supposed to have been abolished universally in the ninth year of the reign (1564); and when Gujarat was annexed in 1573, the abolition should have

taken effect in that province. But the inscription shows that it did not, and that a fresh order of abolition was required in 1593. Probably the local governor disregarded the concession made to the Jains at that date, just as he had disregarded the general orders of 1564. The Viceroys, as a matter of fact, could ordinarily do what they pleased in all questions of administration, and in many cases were personages far too powerful to be seriously checked by imperial authority, even in the days of Akbar, who was stronger than any of his successors. Unfortunately, we know little about the actual administration of Akbar's empire, but enough is on record to permit of no doubt that the noble sentiments and benevolent enactments which figure so largely in the panegyrical books were translated into practice in a manner extremely imperfect.

To sum up. Akbar never came under Buddhist influence in any degree whatsoever. No Buddhists took part in the debates on religion held at Fathpur-Sikri, and Abu-1 Fazi never met any learned Buddhist. Consequently his knowledge of Buddhism was extremely slight. Certain persons who took part in the debates and have been supposed erroneously to have been Buddhists were really Jains from Gujarat. Many Jains visited the imperial court or resided there at various times during at least twenty years, from 1578 to 1597, and enjoyed ample facilities for access to the emperor. The most eminent Jain teacher who gave instruction to Akbar was Hiravijaya Suri. The two other most important instructors were Vijayasena Suri and Bhanucandra Upadhyaya. The doings of those three persons are recorded in Sanskrit poems entitled (1) *Jagadguru-kavyam*; (2) *Hira-saubhagyam* ; (3) *Krpa-rasa-kosa*; and (4) *Hiravijaya-caritra*; as well as in the *Pattavali* of the Tapa-gaccha section of the Jain community, and in the inscriptions at Satrunjaya, especially the long record No. XII comprising 87 verses, composed by Hemavijaya and set up in A. D. 1593 at the Adinath temple. The documents prove that Akbar's partial acceptance of the doctrine of *ahimsa*, or abstention from killing, and sundry edicts intended to give effect to that doctrine,

resulted directly from the efforts of Hiravijaya and his colleagues.

The two creeds which had the most influence upon Akbar's mind from 1578 to his death in 1605 were Jainism and Zoroastrianism.

The emperor granted various favours to the Jain community. Abu-1 Fazl made use of his opportunities to compile an excellent and generally accurate account of the Svetambara sect, derived from personal communication with learned men of that community, especially Hiravijaya Suri. He failed to meet any learned member of the Digambara sect, and consequently observes that his account of the Digambara peculiarities 'has been written as it were in the dark.'¹

1 *Ain*, tr. Jarrett, vol. III, p 210. Mrs. Stevenson's book entitled '*The Heart of Jainism*', Oxford University Press, 1915, and *Outlines of Jainism* by Jagmenderlal Jaini, M. A., Cambridge University Press, 1916 may be recommended to students of the subject. Abu-1 Fazl does not acknowledge the extent of the Jain influence on Akbar's views and practice. He confines himself to a compliment on his master's toleration, which embraced all sects, even the Jain, which the Brahmans abhorred.

SOME NOTES ON WILLIAM HAWKINS

(1607-1612)

BY H. G. RAWLINSON

HPHE first actual attempt to establish communication between England and the Moghal court was made by the two great pioneers of British enterprise in the East, Sir William Osborne, Lord Mayor of London, and Richard Staper, who is described on his monument at St. Helen's, Bishopsgate, as "The greatest merchant of his time and the chiefest actor in the discovery of the trades of Turkey and the East Indies." They organized a party of four Englishmen under one John Newbury, an experienced traveller who had been to the Levant and knew Arabic. Armed with a letter from Elizabeth to the Emperor Akbar, in which they were represented as being induced to undertake the journey "by the singular report of Your Imperial Majesty's humanity in these uttermost parts of the world,"¹ they sailed, on Shrove Tuesday 1583, on the *Tiger*, bound for Aleppo. This event evidently became, as it deserved to be, historic, for nearly twenty years after, Shakespeare could still make the First Witch in *Macbeth* say—

Her husband's to Aleppo gone, master o' the *Tiger*,
and we must suppose that the remark would not have been made unless it was likely to be appreciated by the audience. Of the party which set out thus bravely, only one, Ralph Fitch, returned. He reached England on April 29th, 1591. From Aleppo they had travelled to Bagdad, Basra and Ormuz, where they were arrested by the Portuguese and sent off to Goa. At Goa one of their party settled down; the rest broke their parole, and after many

1 It is interesting to know that reports of Akbar's tolerance and culture had reached England, (doubtless through the Portuguese, though the actual source cannot be traced) at so early a date. So Mildenhall (to whom *vide infra*) writes of Akbar's "renowned kindness to Christians," as "so much blazed throughout the world that it had come into the uttermost parts of the ocean." Purchas, Ed. Macle hose, Vol. I I . p. 300.

almost incredible adventures, arrived at the court of Akbar at Agra. Here another of the band was tempted to enter Akbar's service and deserted them. Newbury then arranged that he should return overland, while Fitch, the remaining member of the company, should travel to Bengal and await him there. Newbury apparently intended to fit out a ship to return and fetch Fitch, but he perished, "unknown how or where," says Purchas, some time after leaving Lahore. After Newbury's departure, Fitch set out to fulfil his part of the contract. From Agra he struck eastward, travelled down the Ganges to its mouth, took boat to Burma, (which he explored pretty thoroughly), and visited Java and the Malaccas. He returned home by the route by which he had come, touching at Ceylon on his way. His report on his travels forms a most valuable document, and is the first detailed account of the East from an English pen.¹

In 1599, encouraged by reports of Linschoten,² Fitch and others, the London merchants determined to form a Company for trading with India by sea. The defeat of the Spanish Armada had seriously damaged the prestige of the Catholic powers, and the attempts to reach India by the North-west and North-east passages had proved fruitless. Hence it was resolved to try the Cape route, in defiance of the Portuguese, Papal Bulls notwithstanding.³ At first the Merchant Adventurers were chiefly attracted by the spice trade of the Malaccas, which offered an easy way of making large profits, but in 1599 Staper renewed his attempt to establish a treaty with the Mughal Empire.

1 *The long, dangerous and memorable voyage of Mr. Ralph Fitch, merchant, of London, by the way of Tnpolts in Syria to Ormuz, to Ooa in East India, to Cambaia, to the river of Ganges, to Bengala, to Bacola, to Chonderi, to Pegu, to Siam, etc, begun in the year 1585 and ended in the year 1591.* Apud Hakluyt, V. 465.

2 This famous Dutchman went to Goa in the suite of the Archbishop in 1589 and befriended Fitch there. His *Itineratio* (1596) became the leading work on India. It was translated into English in 1598, and has been republished by the Hakluyt Society.

3 The Bull of Alexander VI, 1494, had given to Portugal the exclusive right to all discoveries East and South of the Azores, and to Spain all discoveries West and South of the same point. See Purchas, I I. 32 ff,

John Mildenhall, who was chosen for this errand, travelled to India by the overland route through northern Persia. He took his own time over the journey, and did not reach Lahore until 1603. On reaching Agra, he was kindly received at first by Akbar, until the Jesuit mission, perceiving the dangers of Protestant rivalry to the ascendancy which they had gained over the Emperor, commenced the bitter opposition to an English alliance which they maintained so unswervingly throughout the next reign. On being asked by Akbar what they knew about the English, "they flatly answered," says Mildenhall, "that our Nation were all thieves, and that I was a spy sent thither for no other purpose to have friendship with His Majesty, but that afterwards our men might come thither and get some of his ports, and so put His Majesty to much trouble."¹ They further hindered negotiations by bribing his interpreter to abscond; but Mildenhall learnt Persian, and according to his own story, scored a brilliant diplomatic victory, "to my own great contentment, and as I hope, to the profit of my nation." Accordingly, Akbar ordered that "whatever privileges or commandments he would have, should be presently written, sealed and given, without any more delay or question." Unfortunately, the *far man* was not forthcoming, and it is difficult to avoid the conclusion that Mildenhall was a rascal who did not scruple to invent whatever he thought might please his employers. Staper apparently thought the same, for a note in the Company's minutes for 1609 states that his application for further employment was rejected as he was "not thought fit to be engaged." He came to a bad end, for we learn from the diary of one Nicholas Withington, preserved by Purchas, that he "had been employed with three English young men, which he poisoned in Persia to make himself master of their goods, but he was likewise poisoned, yet by preservations lived for many months after, but swelled exceedingly, and so came to Agra with the value of 20,000

¹ See his letter to Staper "from Gastrin in Persia, Oct. 3, 1606" in *purohas*, II. 299.

dollars.*¹ Here he died early in 1614, having, as the Jesuits told Withington, "given all his goods to a French Protestant to marry his bastard daughter in Persia and bring up another." The Company employed Withington, Steele and others to recover property belonging to them, with partial success.

The East India Company did not, however, abandon the project. The first two "voyages" had, as we have seen, gone to the Spice Islands. When the third fleet made ready to sail, it was determined that one vessel should be sent to Surat, to establish a factory there by treaty with the Mughal Court, buy calicoes, and rejoin the rest at Bantam; by which means, writes Captain Keeling, the "General" of the expedition, they "would lay the best foundation for gain against another year that ever I heard of."² Surat was chosen for many reasons. As the great *entrepot* of the Mughal Empire on the Western coast of India, it was, in the words of a contemporary traveller "a city of very great trade in all classes of merchandize, a very important sea-port, yielding a large revenue to the king and frequented by many ships from Malabar and all parts." The Portuguese had recognized this, and in 1530-4, Antonio de Silveira burnt the ships in the harbour and razed the town to the ground, killing all living things within reach. Since its conquest by Akbar in 1572, however, they had left it alone,³ and hence it did not come under the Company's agreement not to trade with any place "in lawful and actual possession of any Christian prince at amity with England, who would not accept of such trade."

The ambassador selected for this mission was William Hawkins, a nephew of the great Sir John, the terror of the Spanish Main. He was one of eleven children, two of

1 **Purchas**, IV. 173. Withington came out with Captain Best in **the Tenth Voyage**.

2 **Purohas**, VI. 59.

3 By a curious oversight, the Portuguese established no factories at the Cape of Good Hope, Singapore, or Surat, all places of the utmost Strategic and commercial importance.

whom, besides himself, were connected with the East India Company.¹ He had seen fighting under Fenton off Brazil and had been in the Levant, where he learnt Turkish.² Hawkins sailed as master of the *Hector* from Erith on March 8th 1607. Captain Keeling, on the *Dragon*, accompanied him as "General." A third ship, the *Consent*, Captain, David Middleton, sailed independently,³ and it was well for them that they did, for they reached the Cape on July the 27th, whereas Keeling did not make it until December 17th.⁴ He had been blown right out of his course to the Brazil coast, and owing to scurvy and lack of water, was forced to put into Sierra Leone to refit. Here an interesting event is recorded by Keeling. On Sept. 5th, the crew of the *Hector* acted the tragedy of *Hamlet*. On the 30th Captain Keeling asked Hawkins to dinner, "where my companions acted *King Richard II*"; and on the following day, he again "envited Captain Hawkins to a ffishe dinner, and had *Hamlet* acted aboard me, wch 1 p'mitt to keepe my people from idleness and unlawful games, or sleepe."¹ The voyage was altogether very long and tedious. Socotra was only reached in March 1608. Here, acting on the advice of some friendly Gujarati sailors, they awaited the bursting of the S. W. Monsoon. On June 24th they parted, Keeling for Bantam and Hawkins for Surat, armed with a duplicate of the Commission under the Great Seal. He arrived on August 4th and came ashore on the 28th.

1 Giles Hawkins was a factor at Bantam; Charles was a partner in the Sixth Voyage. Markham, *The Hawkins Voyages*, xln. note (Hakluyt Society's Publications).

2 Ibid, xliv.

3 She left Tilbury on March 12th, Purchas III, 51; cf. his marginal note, II. 502.

4 Keeling's Diary in Purchas, II. 508.

6 So Rundall, in *Narratives of Voyages to the North-West*, (Hakluyt Society) p. 231. This was published in 1849. Since then someone has stolen the page from Keeling's Ms. diary. For plays on board ship, cf. *The Lancaster Voyages*, p.147, where Sir Henry Middleton at Cape Verde "had a great feast and a play played," on the *Trade's Increase*, June 18th X610.

The following interesting description of Surat as they found it, from the pen of William Finch, one of the company, is preserved by Purchas: ¹

" The city is of good quantity, with many fair Merchants' houses therein, standing twenty miles within the land upon a fair river. Some three miles from the south of the river, (where on the south side lieth a small low island overflowed in time of rain), is the bar, where ships trade and unlade, whereon at springtide is three fathom water. Over this the channel is fair to the city side, able to bear vessels of fifty tons laden. The river runs to Bramport (*Burhanpur*), others say to Musselpatan. As you come up to the river, on the right hand stands the Castle, well walled and ditched, reasonable great and fair, with a number of fair pieces, some of them of exceeding greatness. It hath one gate to the Green-ward, with a drawbridge and a small port on the river-side. The captain hath in command two hundred horse. Before this lieth the Medon (*Maidan*), which is a pleasant green, in the midst whereof is a May pole to hang lights on and for other pastimes on great Festivals. ²

On this side the city lieth open to the Green, but on all other parts is ditched and fenced with thick hedges, having three gates, of which one leadeth to Variaw, ³ a small village where is the ford to pass over to Cambaya way. Near this village on the left hand lieth a small Aldea (village) on the river-bank, very pleasant, where stands a great Pagoda, much resorted to by the Indians. Another grate leadeth to Bramport, a third to Nonsary (*Navsari*) a town ten cose (*kos*, two miles) off, where is made a great store of calico, having a fair river ⁴ coming to it. Some ten cose further lieth Gondoree* and a little further, Belsaca ⁶, the frontier town upon Daman.

1 IV. 2? ff.

2 Probably a *dipmal* or larapstand.

3 A hamlet on the north side of the town.

4 The Puma River.

5 Probably Gandevi.

6 BalsSr.

Hard without Nonsary gate is a fair tank,¹ sixteen square, enclosed on all sides with stone steps, three-quarters of an English mile in compass, with a small house in the midst. On the further side are diverse fair tombs with a goodly paved court, pleasant to behold; behind which groweth a small grove of mango-trees, whither the citizens go forth to banquet. Some half cose behind this place is a great tree much worshipped by the Banians, where they affirm a Dew (*Deva*, god) to keep, and that it hath often times been cut down and stocked up at the Moores' command and yet hath sprung up again. Near to the Castle is the Alphandica (*alphandega*, customs house), where is a pair of stairs for lading and unlading of goods: within are rooms for keeping goods till they are cleared, the custom being two and half for goods, three for victuals, and two for money. Without the gate is a great Gondoree or Bazaar. Right before this gate stands a tree within an harbour, whereon the Fokeers (*fakirs*), which are Indian holy men, sit in state. Betwixt this and the Castle, on the entrance of the Green, is the market for horse and cattle. A little lower, on the right over the river, is a little pleasant town, Ranele,² inhabited by a people called Naites,³ speaking another language, and for the most part seamen: the houses are fair therein, with fair steps to each man's door, the streets narrow. They are very friendly to the English. Here are many pleasant Gardens, which attract many to pass there their time: and on the trees are an infinite number of great Bats which we saw at Saint Augustine's, hanging by the claws on the boughs, making a shrill noise. This fowl, the people say, engendered in the ear: on each wing it hath an hook, and giveth the young suck."

Hawkins landed and was politely received by the local authorities, who, however, referred his case to " Mocreb

1 The Gopi Talao.

2 Rander, (called Ranel by Barbosa).

3 *Nnyata*, Arab merchants and sailors who settled there in 1225, Ct Stanley's *JJarbosa*, 67.

chan," or Mukarrab Khan, the Viceroy of Cambay and Surat, afterwards known to the English as their most relentless opponent. The messenger to Cambay was delayed by the violence of the monsoon ; meanwhile, in spite of some opposition, Hawkins started to trade in such articles as might be profitably sold at Bantam ; for it was decided to send the *Hortor* to join Keeling as agreed on, while Hawkins himself went to Agra to present his petition. The *Hector* was soon loaded up. Master Marlow was put in command and farewells were said and Hawkins returned to his work at Surat, when " the next day,¹ going about my affairs to the great man's brother, I met with some ten or twelve of our men, of the better sort of them, very much frightened, telling me the heaviest news, as I thought, that ever came unto me, of the taking of the barks by a Portugal frigate² or two, and all goods and men taken, only they escaped." Finch³ gives further details. " These frigates were Portugals, which desired one come to talk with them, and Master Bucke rashly doing it, they detained him, and after (I and Nicholas Ufflet being ashore) Master Marlowe and the rest began to flee; the oockswain would have fought, which he would not permit, but running aground through ignorance of the channel, they were taken going on the sandy island by Portugal treachery, and the fault of some of themselves,⁴ nineteen with Master Bucke; but ths Ginne put off the Pinnace, and notwithstanding the Portugal bullets, rowed her to Surat. Four

1 October 2nd. Tho passage is from Hawkins' .diary, *aput* Purchas, III. 4.

2 A light galley, used for river work.

3 Finch, *apud* Purchas, IV. 20.

4 So Hawkins—But the Company thought otherwise. " We are informed by Bucke and Marlowe," they write, " that they were destitute of powder and other means to defend themselves, which was a great neglect in your part to be so secure as not to arm and animate your men thoroughly." *First Letter Book*, 316. These men were taken from Goa to the Trunk at Lisbon where they remained till 1610, in great want. *Jbid.* 306. Their crime was " trading in the East without the king of Spain's licence*"

escaped by swimming and got that night to Surat, besides Nicholas Ufflet and myself, near twenty miles from the place." It subsequently transpired that the *Hector* herself had got away, only the longboat and her crew being captured; but Hawkins found himself in an awkward plight. He was surrounded by enemies. Mukarrab Khan, instigated by the Portuguese, tried to kidnap him and steal his goods. He decided that his best course was to lay his case before the Emperor at Agra; and on February 1st, 1609, he set out for the capital, leaving Finch, who was down with dysentery, to look after his goods at Surat.

After sundry attempts had been made to murder him *en route*, Hawkins presented himself to Jahangir on April 16th at Agra. The king was pleased to see him, and Hawkins found that he could make himself understood in Turkish, which is not far removed from Turki, the ancestral tongue of the descendants of Babur. Jahangir liked new acquaintances, especially good fellows who could hold their liquor, and Hawkins entertained him vastly with stories of his travels. No wonder the "Portugalls," who since the time of Akbar had held a distinguished position at the court, became like "madde dogges.*" Hawkins, Nicholas Ufflet, and the 'boy,' Stephen Gravener, became mysteriously ill, and the latter died. Thereupon Jahangir gave his friend a wife out of the Royal Harem to cook his food, and so avoid untoward accidents in the future. This lady was a daughter of Mubarik Shah, an Armenian Christian who had risen to distinction in Akbar's service. The marriage service was read by Ufflet, until such time as a more formal ceremony could be performed by a regular Chaplain. The king now seemed quite won over. He gave Hawkins his commission, written under his Golden Seal, to be sent to Surat, together with a stinging reproof to Mukarrab Khan for his bad behaviour to the English. Hawkins was now in high glee; he was with the Tung day and night (usually until the World Grasper was removed, the worse for drink, to the Harem); at the audience, he stood within the coveted Red Rails; and Jahangir, in an outburst of friendship, **went so far as to**

offer him, if he would stay at the court, a pension of £ 3,200 a year, a troop of horse, and any concessions for the Factory that he liked to ask! Finding, like Philip II of Spain, that "Achins" was a difficult name to pronounce, Jahangir gave him the title of "Inglis Khan," (in Persia, it is the title for a Duke, Hawkins parenthetically explains). To all of which, our envoy, seeing that "it would feather my nest and do Your Worships a service," as he writes to his masters, cheerfully acquiesced.

His triumph, however, was destined to be short-lived. The nobles and the "Portugalls" were consumed with jealousy. The Viceroy of Goa sent a letter (accompanied by a handsome present) warning Jahangir that if the English got a footing in the country, he would eventually lose his harbours and his trade altogether. This, according to Hawkins, was the cause of his downfall. "The king went from his word, esteeming a few toys which the Fathers had promised him more than his honour." "It is true," His Majesty cynically remarked, "that the commandment for the Factory was sealed and ready to be delivered; but upon letters received from Mocrebcán, and better consideration had on the affairs of his ports in Guzerat, he thought it fitting not to let him have it." Unfortunately for Hawkins there was another Englishman at Agra who kept a journal, and he supplements the story in a very different fashion, though, as there was no love lost between the two, we must, perhaps, allow something for the writer's malice. This was John Jourdain¹ of the *Ascension*, which, with the *Union*,² had set out in 1608 on the Company's Fourth Voyage, and had been wrecked on the shoals in the Gulf of Cambay. The survivors had found their way to Surat, where, owing to the lack of control exercised by the Master, Captain Sharpeigh, they had been

1 For details, see his Journal, edited by Foster for the Hakluyt Society, Series II, Vol. XVI.

2 The *Union* went on to Achin. After a disastrous voyage she went on the rocks off Andierne in Brittany on **her return journey**.

involved in various broils,¹ and had finally set out for Agra. Jourdain says that Hawkins had at first acquired popularity at Court by winning the favour of Asaf Khan, a powerful nobleman, whose sister was the famous Nur Jahan, afterwards Jahangir's wife, and whose daughter married Jahangir's favourite son Prince Khurram. After a while, however, by trying to drive a hard bargain in trade, Hawkins offended the Queen Mother and Khwaja Abul Hassan, the Chief Secretary. Abul Hassan took his revenge in an amusing fashion. The king was a great drinker, but was ashamed of his vice, and cruelly punished those who talked of his orgies or of the part they took in them. "The king," says Jourdain, "was informed that some of his great men were bibbers of wine and that before they came to the Court daily, they filled their heads with strong drink, and commanded that upon pain of his displeasure none of his nobles that came to his court should drink any strong drink before their coining. Now Abdelhasan, knowing that Hawkins was a great drinker, feed the porter (as is supposed) to smell if he had drunk any strong drink, which is easily discerned by one that is fasting. So the chief porter finding that Hawkins had drunk, he presently carried him before the king in presence of the whole Court, where, by the mouth of Abdelhasan, being Secretary, it was told the king he had drunk strong drink. Whereat the king paused a little space, and considering that he was a stranger, he bid him go to his house, and when he came next he should not drink. So being disgraced in public, he could not be suffered to come into his accustomed place near the king, which was the cause why he went not so often to Court."²

1 One Tom Tucker had got drunk and killed a calf. This enraged the "Banyans," who paid a handsome sum to the authorities every year to stop cow-killing. Captain Downton found it impossible to open a beef market for the same reason (Downton in Purchas IV. 220).

2 Jourdain's Journal, p. 104 ff. Hawkins was lucky. Some unfortunate nobles, after a banquet to welcome the Persian ambassadors, boasted of the "merry night past." For this JahSngir had them flogged alniobt to death. *Embassy of Sir Thos. Roe*, Ed. Foster, pp. 303-4,

Whether this was true or not, Hawkins was now out of favour. "Stay I would not, among these worthless infidels," he writes, but unfortunately Mrs. Hawkins* relatives objected to her leaving India. At first he thought of asking the Jesuits (who were ready to do anything to get rid of him) to give him a passport to settle in Goa, with full liberty of conscience, and eventually returning to England when opportunity offered. Jourdain, however, pointed out the dangers of this. News had come of the appearance of a fresh English fleet off the coast of Cambay and Jourdain proposed to go and join it. "I told him," he writes, "if he went to Goa his life would not be long, because he had much disputed against the Pope and their religion, and was apt to do the like again there, if he were urged thereunto, which would cost him his life, and the sooner because of his goods. But he answered that the Fathers had promised to get him a pass from the Viceroy, and also from the Bishop and priests, that he might use his own conscience. I told him the same cause would be his destruction, if he went. So he was persuaded to go that way and I was persuaded to go the other way, although he urged me very far, promising great wages; but his promises were of little force, for he was very fickle in his resolution, as also in his religion, for in his house he used altogether the custom of the Moors or Mahometans and seemed to be discontent if all men did not the like."¹ With this malicious hit, Jourdain parted from Hawkins on July 28th, 1611, and reached Surat in October. Here he found Sir Henry Middleton with the Sixth Voyage, his flagship being the magnificent *Trades Increase*, a great vessel of 1,100 tons, the pride of the Mercantile Navy.² The coast was closely blockaded by the Portuguese admiral, Don Fransisco de Soto, who refused to allow any trade with the shore, and Jourdain had some difficulty in getting on board. Hawkins followed in November, having ap-

1 Jourdain, *op. cit.* p. 161.

2 The other vessels were the *Peppercorn* (Captain, Nicholas Downton), the *Darling* and the *Samuel*.

parently taken Jourdain's advice. But he outwitted his wife's relatives in an amusing way. He persuaded the Jesuits to make him out duplicate passports, one an open one licencing him to settle down as a trader in Goa, the other a secret permit to return to England "and what agreements I made with them to be void and of none effect, but I should stay and go when I pleased." What marginal notes on "Jesuiticall Sanctitie" would a similar procedure on the part of his opponents have evoked from the worthy Purchas!

Hawkins, his wife and the other Englishman were taken on board under an armed escort, Mukarrab Khan, overawed by the Portuguese fleet, peremptorily refusing to allow a factory to be opened or any English traders to be left behind at Surat. Before starting Middleton made a most valuable discovery, acting on information supplied by Jourdain from native sources.¹ This was the location of the famous Swally Hole, a fine roadstead seven miles long and a mile broad, protected from the sea by a long sandbar. Here a fleet could ride at anchor much more safely than among the shifting shoals of the Tapti. Swally became the port of Surat and acquired great fame.² Otherwise Middleton had accomplished nothing during a stay of one hundred and thirty-eight days. On his way out he had been robbed and imprisoned by the Arabs at Mocha, and he was burning for revenge. Accordingly his fleet weighed anchor and sailed along the coast to Dabul, destroying Portuguese shipping, and then crossed over to Aden and blockaded the mouth of the Red Sea. Many Mahomedan ships were held up for ransom, including the huge *Rahhni*, a pilgrim ship belonging to the Queen Mother, which paid 15,000 reals of eight. The blockade was spoilt by the arrival of Captain John Saris with the Eighth

1 Hawkins, refusing to give his enemy any credit, says that Middleton discovered Swally "miraculously," "and never known to any of the country."

2 "Tho Road of Swally and the Port of Surat are fittest for you in all the Mughal's country.....The Road of Swally is as safe as a pond." Roe, *apud* Foster II. 345.

Voyage; as usual, the rival commanders could not agree, and unfortunate squabbles about precedence rendered co-operation between the two fleets impossible. On October 19th, 1612, they set sail for Tiku in Sumatra, where, in the following January, Hawkins and his wife took a passage on the *Thomas* homeward bound. They reached Saldania Road on April 2nd, and here Hawkins' diary ends. He "dyed on the Irish shore,"¹ no doubt, like so many of the adventurers of his time, of disease contracted in the East.

Hawkins' mission was, directly, a failure. He had failed to obtain from Jahangir even the worthless *farmans* he bestowed upon other English ambassadors. Jahangir, convinced by the Jesuit Fathers that the English were a paltry and distant race who wanted to rob him of his trade, took no notice of him when he had exhausted his stock of novelties and good stories. The English are not even mentioned in that monarch's voluminous memoirs. Nor was any change likely to come about while the Portuguese fleet could blockade the coast at will. A decisive victory at sea was supremely necessary for English prestige. But indirectly the results were very important. Hawkins had thoroughly explored the resources of the Moghal Empire (of which he wrote a very able account) and had investigated the possibilities of Surat as the site for a factory. Hawkins may not unfairly claim to be ranked among the founders of the Indian Empire.

A few words on the adventures of the rest of the company may not be out of place. Finch died at Bagdad in trying to reach home by the overland route.² The ill-luck which pursued Sir Henry Middleton throughout his "tired, crost, and decayed" voyage, clung to him to the end. The "princely *Trade*" "for beauty, burthen and strength

1 Purchas, *Pilgrimage* (1626) p. 521. The mortality was very high, Down ton, Middletjn, Aldworth, and a host of others never saw home again. Tho life of a man was "two monsoons," says Ovington of Bombay, and this was true of tho Kast in general.

2 He had been very badly treated by Hawkins, if we can believ Jourdain, *vp. at.* 157.

surpassing all merchants' ships whatsoever," ran on a coral reef, and had to be careened at Bantam, Here she was set on fire by the Javanese. The terrible climate killed most of the crew, Sir Henry being the first to go—⁴¹ most of heartsore," say the old records. Jourdain found that one hundred and forty had perished, and the rest were "like ghosts or men frightened" and "scarce able to go on their legs." *Quce rpgio in terris nontri non plena labor is?* is a quotation which Purchas not inaptly applies to our struggles for a footing in these Eastern seas.

Mrs. Hawkins had no difficulty in consoling herself. She had brought from Agra diamonds worth £6,000, no doubt procured by her step-father, Abraham de Duyts, Prince Khurram's court-jeweller, and the Company gave her 200 Jacobuses as "a token of their love." She married Captain Gabriel Towerson of the *Hector*, her first husband's old ship, and in 1617 returned to India with Mrs. Hudson and her maid, Francis Webb. Richard Steele and Mrs. Golding the Chaplain were her fellow passengers, Sir Thomas Roe being then at Agra as English Ambassador.

The party arrived at Agra on November 2nd, Steele having married Francis at the Cape. Mr. Golding, who was very fond of the ladies, followed them to Agra disguised as a native, for which unclerical conduct Sir Thomas Roe had him arrested. Sir Thomas disliked them all, and writes of them as follows—"I found him (Steele) high in his conceits, having somewhat forgotten me, Master Kerridge and him at wars, which I endeavoured to temper on all parts; but for his wife I dealt with him clearly, she could not stay with our safety nor his masters' content; that he had ruined his fortunes if by amends he repaired it not; that she should not travel nor live on the Company's purse; I know the charge of women, that if he were content to live himself like a merchant, as others did, frugally, and to be ordered for the Company's service and to send home his wife, he was welcome; otherwise I must take a course with both, against my nature. Having to this persuaded him, I likewise practised the discouragement of Captain Towerson about his wife (you know not the

danger, the trouble, the inconvenience of granting these liberties); to effect this, I persuaded Abraham, his Father-in-law here, to hold fast; I wrote to them the gripings of this Court, the small hope of relief from his alliance, who expected great matters from him."¹ Accordingly, Gabriel Towerson let his wife return to her own people/ while he went to the Far East to take charge of the English Factory at Amboyna. Here he and the other factors were barbarously murdered, after nameless tortures, by the Dutch in 1623. A similar fate had already befallen John Jourdain seven years previously; the Dutch admiral treacherously shot him on his own quarter-deck, after he had surrendered to superior forces, off the town of Patani on the coast of the Malay Peninsula.

1 Embassy of Sir Thomas Roe, Ed. Foster I I . 478.

2 This was in 1618. In 1619 she and her mother wore "railing" at Towerson for his desertion of her, and trying to borrow Rs. 220 from Kerndge, Chief of the Surat factory. She was still worrying in 1627, *English Factories* Ed. Foster, T, 169, 327, etc.

NOTE ON AUTHORITIES

These may be divided into (1) Miscellaneous Records and Correspondence of the East India Company; (2) Journals kept by the Voyagers themselves; (3) Selections from these Journals, with other miscellaneous matter, edited by Hakluyt and Purchas.

The Correspondence, Factory Records, Court Minutes and Letter Books of the Company are now partly available to the student, thanks to the labours of Foster, Birdwood, Danvers, Sainsbury, Forrest, and other workers in this field.

The original journals of the Voyagers have survived in a very imperfect condition, probably being neglected because Purchas and Hakluyt had published the most interesting portions of them. These precious fragments have been edited from time to time by the members of the Hakluyt Society. For our purpose the most important are the three imperfect abstracts of Reeling's voyage in Markham's *Voyage of Sir James Lancaster*, pp. 108-120, and the journals of John Jourdain and Sir Thomas Roe, edited by Mr. W. Foster.

Purchas, after the death of Hakluyt, was entrusted by Sir Thomas Smyth, the first Governor of the Company, with all its logs and journals. How he used them may be gathered from his marginal note. "This journal of Captain Reeling's and that of Captain Hawkins, written

at sea-leisure, very voluminous in a hundred sheets of paper, *I have been bold so to shorten as to express only the most necessary observations for sea and land affairs.*" For this he has been somewhat severely taken to task. But the matter was very unwieldy, (in Maclehose's reprint it covers as it is twenty volumes of nearly six hundred pages each), and the standard of historical accuracy was not always what it is to-day. In the preface to Churchill's *Collection of Voyages*, John Locke wishes that "the author (Hakluyt) had been less voluminous, delivering what was really authentic and useful, and not stuffing his work with . . . so many warlike exploits not at all pertinent to his undertaking, and such a multitude of articles, charters, privileges, tatters, relations, and other things little to the purpose of travels and discoveries."

A CHAPTER FROM THE LIFE OF SHIVAJI

(1665-1666)

BY JADUNATH SARKAR

A little after 9 o'clock in the morning of 11th June, 1665, while Mirza Rajah Jai Sinha was holding court in his tent at the foot of Purandar fort, Raghunath fandit, the envoy of Shivaji, came in and reported to him that the Maratha chief had arrived to offer his submission. High officers of the Mirza Rajah were sent to welcome him on the way and usher him. On entering the tent he was cordially received by Jai Sinha, while armed Rajputs stood around to guard against any treacherous movement on the part of Shivaji!

Meanwhile, the siege of Purandar was pressed on, the lower part (named Vajra-garh or Rudra-mala) having been captured before. Some more defensive works (*Khand Kala* ? = demi-lunes or horn works) were assaulted and carried by the Mughals immediately after Shiva's arrival, and the fighting could be distinctly seen from the interior of the Rajah's tent. Shiva then offered to surrender the fort and prevent useless bloodshed. Jai Sinha, therefore, ordered the fighting to cease, and sent some of his own officers with an agent of Shiva to take possession of the fort in the name of the Emperor and let the garrison depart unmolested. This was effected on the next day.

Shiva had travelled without any baggage or retinue, and therefore Jai Sinha lodged him in his office tent as his guest. Up to mid-night the two sides higgled for the terms of a permanent place. But Jai Sinha knew the strength of his position. As he wrote in his despatches to the Emperor, "I declined to abate a single fort. Gradually, after much discussion, we came to this agreement:— (a) That 23 of his forts, the lands of which yielded 4 lakhs of hun as annual revenue, should be annexed to the Empire; and (b) that VI of his forts, including Rajgarh, with an annual revenue of 1 lakh of hun, should be left to Shiva, on condition of service and loyalty to the imperial throne."

Shivaji, however, begged to be excused from attending the Emperor's court like other nobles and Rajahs, and proposed to send his son, as his representative, with a contingent of 5,000 horse, (to be paid by means of a jagir), for regular attendance and service under the Emperor or the Mughal governor of the Deccan. This was exactly the favour shown to the Maharana of Udaipur. As he pleaded with Jai Sinha, "By reason of my late unwise and disloyal acts, I have not the face to wait on the Emperor. I shall depute my son to be His Majesty's servant and slave, and he will be created a Commander of Five Thousand with a suitable jagir.....As for me sinner, exempt me from holding any *mansab* or serving in the Mughal army, But whenever in your wars in the Deccan, I am given any military duty, I shall promptly perform it.'*

In addition to the above terms, Shivaji made another and a conditional engagement with the Mughals: "If lands yielding 4 lakhs of *hun* a year in the lowlands of Konkan (Tal-Konkan) and 5 lakhs of *hun* a year in the uplands (Balaghat Bijapuri), are granted to me by the Emperor and I am assured by an imperial *farmiin* that the possession of these lands will be confirmed in me after the expected Mughal conquest of Bijapur, then I agree to pay to the Emperor 40 lakhs of *hun* in 13 yearly instalments." He was expected to wrest these lands from the Bijapuri officers by means of his own troops.

Here we detect the shrewdness of Jai Sinha's policy in throwing a bone of perpetual contention between Shivaji and the Sultan of Bijapur. As he wrote to the Emperor, "This policy will result in a three-fold gain : *first*, we get 40 lakhs of *hun* or 2 krores of Rupees ; *secondly*, Shivaji will be alienated from Bijapur; *thirdly*, the imperial army will be relieved from the arduous task of campaigning in these two bioken and jungly regions, as Shiva will himself undertake the task of expelling the Bijapuri garrisons from them." In return for it, Shiva also agreed to assist the Mughals in the invasion of Bijapur with 2,000 cavalry of his son Shambhuji's *mansab* and 7,000 expert infantry under his own command.

These terms were reported to the Emperor for ratification, together with a letter of submission and prayer for pardon from Shiva (but really drafted by Jai Sinha's secretary Udai Raj) and a despatch from Jai Sinha recommending the acceptance of the terms and the granting of a robe of honour to Shiva. They reached Aurangzib at Delhi on 23rd June and he was pleased to accede to them all.

The treaty of Purandar being thus happily concluded, Jai Sinha on 14th June dismissed Shivaji with his son Kumar Kirat Sinha, for the transfer of his forts to Mughal hands. They reached Kondana at noon of the same day. It was evacuated by the Marathas and Kirat Sinha was left there in occupation, while Shiva moved on to Rajgarh (where he arrived on the 15th and halted for a day). On the 17th Shiva sent Shambhuji with Jai Sinha's officer Ugrasen Kachhwah from Rajgarh, and they reached Jai Sinha's camp the next day, when news arrived of the surrender of Rajgarh and four other forts.

Jai Sinha then began to make preparations for the invasion of Bijapur, in order to prevent his large army eating its bread in idleness after its recent victorious campaign against Shivaji. In September he received the Emperor's despatch accepting all his recommendations about Shiva together with a gracious *far man* stamped with the impression of his palm) and a robe of honour for the latter. Jai Sinha invited Shiva to come and receive these marks of imperial favour with befitting solemnity. "Shivaji, then in Adil Shahi Tal-Konkan, immediately on hearing of it, travelled quickly and reached my camp on 27th September, 1665. On the 30th, I sent him, with my son Kirat Sinha and my Pay-master Jani Khan, to advance and welcome the imperial letter on the way."

A little mummary was acted on the occasion, to satisfy the etiquette of the Mughal court: "As Shiva had worn no weapon on his person from the day when he had come like a penitent offender to wait on the Rajah to this date, Jai Sinha now gave him a jewelled sword and dagger and pressed him to put them on" (*Alamgh'-namah*, 907)

The ceremony completed his restoration to the good grace of the Emperor.

Jai Sinha then dismissed Shivaji to enable him to gather his contingent of 9,000 men and make the necessary preparations for the coming campaign, promising him two lakhs of Rupees from the imperial treasury for the purpose. Shiva promised to join Jai Sinha the day before he started.

At last, on 20th November, 1665, Jai Sinha set out on the invasion of Bijapur, from the fort of Purandar. The Maratha contingent, 9,000 strong, under Shiva and his kinsman (*khwest*) Netuji Palkar,—“whom the Deccanis regard as a second Shivaji,”—formed the Left Centre of the Mughal army.

During the first month of the campaign, Jai Sinha's march was an uninterrupted triumph. From Purandar to Mangalbirah (Mangalvedhe), a fort 32 miles north of Bijapur, the invaders advanced without meeting with any opposition; the Bijapuri forts on the way were either evacuated in terror or surrendered at call to Shiva's troops who had been sent ahead by Jai Sinha to capture them. Phaltan, about forty miles south-east of Purandar was entered on 7th December; Thathora, 14 miles north of Phaltan, on the 8th; Kh&wan about a week later; and Mangalbira itself on the 18th.

The invaders marched on, and then, on 24th December, they came into touch with the enemy for the first time. Next day a Mughal detachment under Dilir Khan and Shivaji marched 10 miles from their camp and fought a Bijapuri army of 12,000 under the famous generals Sharza Khan and Khawas Khan and their Maratha auxiliaries under Jadu Rao [Ghorpure?] of Kalian and Venkoji, the half-brother of Shivaji. The Deccanis evaded the charge of the cavaliers of Delhi, but harassed them by their “cos-sack tactics,” dividing themselves into four bodies and fighting loosely with the Mughal divisions opposite. After a long contest, Dilir Khan's tireless energy and courage broke the enemy's force by repeated charges, and they retired in the afternoon, leaving one general (Yaqut the

Abyssinian) and 15 captains dead on the field and many flags, horses and weapons in the Mughal hands. But as soon as the victors began their return march to camp, the elusive enemy reappeared and galled them severely with rockets from the two wings and rear. The Maratha rear-guard under Netuji bore the brunt of the attack but stood its ground well. When the Deccanis hemmed Netu round and pressed him hard, he called for reinforcements from Kirat Sinha and Fath Jang Khan and with their aid repulsed the enemy. Jadu Rao of Kalian received a musket shot, of which he died in five or six days. Shivaji and his brother Venkoji fought on opposite sides !

After a two days' halt, Jai Sinha resumed his march on the 27th. The next day, after reaching the camping ground in the evening, he detached a force to attack and expel the Bijapuri army from the neighbourhood. The fight soon became general, and Jai Sinha himself had to charge the enemy's largest division. Shivaji and Kumar Kirat Sinha, seated on the same elephant, led his Van and dashed into the Deccani ranks. After a hard fight, the enemy were put to flight, leaving more than a hundred dead and many more wounded.

On 29th December, 1665, Jai Sinha arrived at Makhnapur,¹ ten miles north of Bijapur fort. Here his advance was stopped, and after waiting for a week, he was forced to begin his retreat on 5th January, 1666, as he found his fondly hoped-for chance of taking Bijapur by a *coup de main* gone. He was not prepared for a regular siege, because, in his eagerness "to grasp the golden opportunity" of attacking Bijapur while undefended and torn by domestic factions, he had not brought any big artillery and siege materials with himself. On the other hand, Adil Shah had put the fort of Bijapur in a strong posture of defence ; its walls had been repaired, large quantities of provisions and material laid in, its regular garrison augmented by 30,000 Karnatic infantry, and the country round for a radius of seven

1 In the Persian Ms. the name may be read either as *Makhanah* or as *Nagthana*. The latter is a village 8 miles N. N. E. of Bijaj ur,

miles laid waste, drained of its water supply, and denuded of its trees. At the same time he had sent a picked force under Sharza Khan and Siddi Masaud to invade the Mu-ghal dominions and make a diversion in Jai Sinha's rear.

On 27th January, the retreating Mughal army reached a place 16 miles *from* Parenda, and there halted for 24 days. Here we shall leave it, as the historian of Shivaji is, not concerned with its operations any further.

On receiving the unexpected check before Bijapur, Jai Sinha looked round, to create a diversion. As he writes in a despatch to the Court, "At my request the Emperor had sent a robe of honour and jewelled dagger for Shiva, who was ready to co-operate at the siege of Bijapur, but.....I did not deem it expedient. Shiva said to me,—'If you detach me, I can go and capture for the Emperor Panhala, of which I know all the exits and entrances, while the garrison are off their guard. I shall raise so much disturbance in that district that the enemy will be compelled to divert a large force from their army to oppose me.' As his words bore promise of action, I sent him away on his promised errand."

This was about 11 th January. Five days later Shiva reached the environs of Panhala, and delivered an assault on it three hours before sunrise. But the garrison were on the alert and offered a stubborn defence. A thousand of Shiva's followers fell down, killed and wounded. When the rising sun lit up the scene, Shiva at last recognised that it was madness to continue the struggle, and drew back sullenly to his own fort of Khelna [Visalgarh], about 20 miles westwards. But his troops continued to ravage that quarter and succeeded in drawing and detaining there a force of 6,000 Bijapuris under Siddi Masaud and Randaula Khan.

The news of Shivaji's failure at Panhala reached Jai Sinha on 20th January. The evil was aggravated by the desertion of Netuji. Taking offence with Shiva for some reason or other,—probably because he deemed his valuable services and gallant feats of arms inadequately rewarded,—Netu accepted the Bijapuri bait of 4 lakhs of hun and, ds-

serting to Adil Shah, raided the Mughal territory with great vigour and effect. Jai Sinha could not afford to lose such a man; and so he lured Netuji back (20th March) with many persuasive letters and the granting of all his high demands, viz. the *man sab* of a Commander of Five Thousand in the Mughal peerage, a Jagir in the settled and lucrative old territory of the empire (as distinct from the ill-conquered, unsettled, ever-ravaged recent annexations in the Deccan), and Rs. 38,000 in cash.¹

Netuji's defection at the end of January, 1666, greatly alarmed Jai Sinha. If Shiva were to do the same, the entire Maratha army would swell the enemy's ranks and the Mughal invaders would be crushed between them. As he wrote to the Emperor, "Now that Adil Shah and Qutb Shah have united in mischief, it is necessary to win Shiva's heart by all means and to send him to Northern India to have audience of Your Majesty." The Emperor having consented to this proposal, Shiva was formally permitted by Jai Sinha in March to set out for the imperial court.

How Shivaji journeyed to Agra, how he asserted his dignity against the proud governor of Aurangabad, how he was received in audience by Aurangzib on 12th May, 1666, how he was forbidden the court and then placed under police guard, and how finally he escaped from Agra on 19th August and, after many romantic adventures on the way, returned to Rajgarh in December 1666, I have told in detail from all the available Persian sources, in the *Modern Review* for August 1907, pp. 153-161. A few scraps of additional information about Shiva's doings at Agra which I subsequently gleaned from the news-letters of Aurangzib's court, have been printed by Mr. G. S. Sardesai in his *Marathi Miyasat*, new edition, i. 325. It is now necessary to turn to the affairs of the Deccan, especially Jai Sinha's anxieties, plans and acts, during Shiva's absence from-home.

1 Aurangzib's punishment of the traitor was stern. After Netuji had been outwardly conciliated and re-employed by the Mughals, he was suddenly arrested at Dharur, in October, 1666, sent to Delhi in chains, and forced to embrace Islam (as Muhammad Quh Khan) as the only means of saving his life, February 1667.

When, at the darbar of 12th May, Shivaji impatiently complained that he had not been treated by the Emperor according to his just expectations, Aurangzib wrote to Jai Sinha to state clearly and fully what promises he had made to Shivaji on behalf of the Mughal government. Jai Sinha replied enumerating and explaining the clauses of the Treaty of Purandar which I have given above. The Emperor's intentions with regard to Shiva when at Agra are thus described in a letter written by Jai Sinha's secretary, reporting the Mirza Rajah's speech : "The Emperor had excluded Shiva [from the darbar] for a few days on account of the ignorance [or disregard] of the etiquette of the imperial court which Shiva had displayed on the day of his audience. Afterwards it was his intention to.....send him back with honour and favours."

But the confidential despatches of Jai Sinha to the Emperor and the prime minister Jafar Khan show that there was much political trickery below the surface of the affair. Shiva had been sent away from the Deccan early in March, as we have seen, to guard against the possibility of his adding to Jai Sinha's troubles. .

Jai Sinha's word had been pledged for the safe return of Shivaji to his home. He, therefore, was anxious to prevent the murder or even long imprisonment of Shiva at Agra. As he remarked in a letter to Bhojraj Kachhwah, evidently for communication to Kumar Ram Sinha (his representative at the imperial court), "Act in such a way [in the affair of Shiva] as to secure the safety of the imperial dominions and the sanctity of my word and your word."

After that angry scene in the Public Audience Hall of Agra fort, Shiva had been forbidden the Presence, and his intermediary at Court, Kumar Ram Sinha, had been told by the Emperor that he would have to stand bail and security for the good conduct and presence of Shiva at Agra pending further orders. Evidently Aurangzib changed his mind soon. As Jai Sinha writes to his son, "As at first the Emperor had strongly insisted that Shivaji should be taken out of your bail and security, I had hoped that, after the

arrival of my former letter disavowing your responsibility for Shiva, you would be easily relieved [of your responsibility for him]. Now, I learn from the Emperor's letters that he wishes you to guard Shiva. Wait for a few days and pass the time as you have done in the past, till the decision of my prayer,—viz. either I should be retained in the command of the Deccan army with full power and adequate reinforcements or recalled to Court. Thereafter make the necessary application about Shiva [viz. your being relieved of the charge of him]. "

And again, "you have written that tho Emperor is thinking of leaving you at Agra in charge of Shiva, by ostensibly appointing you commandant of the fort or Faujdar [of the district]." This was exactly what Jai Sinha wanted to avoid. So, he instructed his son to beseech the Emperor to take him with him during the march, saying that he had never before been separated from the imperial company.

Aurangzib agreed to the proposal. Then tho question arose, what was to be done with Shiva? Was he to be made to accompany the Emperor [as a political suspect under surveillance] or was he to be left in any fortress? On this point Jai Sinha replied,—"If the Emperor resolves to set out on a campaign, it would be expedient to leave Shiva at Agra. He ought to be conciliated and assured that he would be summoned to tho court after it had arrived in the Deccan. His son should, as a matter of policy, be kept with the Emperor, in order that his followers may not be thrown into despair, but may loyally serve us. [H. A. 197a].

A little earlier Jai Sinha had recommended a similar policy: "When I prayed that Shiva might be permitted by the Emperor to return home, affairs [in the Deccan] were in a different condition. Now that they have changed altogether [i. e. adversely for the Mughals], it is not at all politic to send him to this side. Please detain him in such a way that his officers may not despair [of his life or return home], go over to Adil Shah, raise disturbances and thus compel us to divert a force to their quarter." [H. A. 194a].

Jai Sinha was adversely spoken of in the imperial court in connection with Shiva's conduct at Agra. Here is his indignant defence of his action in relation to the Maratha hero—

"The Emperor himself had appointed me to the command of the expedition against Shiva. By the grace of God and the good luck of the Emperor, I brought it to a successful conclusion in the shortest possible time, and then, by a thousand devices I succeeded in sending him with his son to the imperial Presence. The Emperor is aware of it and yet the courtiers are saying, 'When you knew Shiva to be this sort of person, why did you send him to Court?'.....When I sent him off against Panhala, people here [i. e. my rivals in the Mughal camp] began to say that I had helped him to escape from our hands. And now that I have sent him to the Emperor's Presence, they are saying, 'Why did you send him here ?' Such remarks spoil the success of the half-finished Bijapur business." [H. A. 194b-195a].

Jai Sinha's position was rendered infinitely worse by Shiva's escape from Agra on 19th August 1666. He had been disgraced in the eyes of the Emperor by the failure of his invasion of Bijapur. And now his son Ram Sinha was openly suspected of having connived at Shiva's flight. As he writes in bitterness, "All the plans and devices that I had employed in sending Shiva to court have been spoiled, and measureless distraction has fallen to my lot. But there is no remedy against Fate and what is written on a man's forehead. I learn from the letters of some court agents that there is a proposal to dismiss Ram Sinha from his rank (*matiasab*) and jagir, because Shiva's Brahman followers, at the instigation of selfish men [my enemies at Court], have alleged that the flight of Shiva was due to the advice of Ram Sinha, and resulted from the latter's omission to watch him well. May God give death to the man who cherishes the very thought of such an act of faithlessness in his heart! Why should Shiva's men's words be believed against mine, when I had reduced him to such an extremity [in war] ?" [H. A. 201a].

The anticipated return of Shivaji to the Deccan greatly added to Jai Sinha's fears. As he wrote on 5th November, 1666 :—" The times are bad for me. My anxieties are ceaseless. The lying Bijapuris are wasting time [by delusive negotiations]. There is no trace or news of the fugitive Shiva. My days are passing in distraction and anxiety. I have sent trusty spies, under various disguises, to get news of Shiva." [H. A. 200a].

About this time the officers left by Shiva in the Deccan when leaving for Agra began to display ominous activity, Sayyid Masaud, the Mughal qiladar of Raigarh, wrote to Jai Sinha's Paymaster complaining of the lack of provisions etc. in the fort, and the collection of lead, gunpowder, rockets and infantry in the neighbourhood of Raigarh by some men who gave themselves out to be Shiva's followers and pretended that they intended to invade Bijapuri territory. At this alarming news Jai Sinha sent orders to provision the fort as a precaution and to hold it strongly, pending the arrival of Udai-bhan [the permanent qiladar ?], A reinforcement of 500 infantry under Sukh-man Chauhan was also ordered to be thrown into the fort if necessary, [H. A. 234a and b].

At last, in December, 1666, definite news was received of Shiva's arrival at Rajgarh. As Jai Sinha's secretary wrote, "Trusty spies have now brought the news that Shiva himself has arrived but is very anxious about his son who has not returned with him. He professes a determination [to submit] to the imperial government. But who knows what is in his heart ? For some time past Mahadji Nimbalkar, the son of Bajaji, the Zamindar of Phaltan and son-in-law of the infernal Shiva, has been causing disturbances in the region of Poona and other places. My master [i. e. Jai Sinha] has appointed the jagirdars of that tract, such as, Tanaji¹ Bhonsle and others to Supa, Halal Khan to Indapur, Ghalib Khan to Chamargunda, Hassan Khan, Abdur Rasul and other Deccanis also to that side, and Trimbakji Bhonsle and others to Raisin. Before the others could arrive at their posts, Tanaji Bhonsle went to his

1 The name may be also read as *Bnbaji* or *Nanaji*.

jagir and getting an opportunity attacked Mahadji, sent many of his followers to hell, captured his flag, *torah** 150 horses, arrows etc., and returning lived in peace of mind. As the Deccanis have some [unknown] need for the flag and *torah*, Mahadji trod the path of submission and humility ; but Tanaji declined [to restore them]. At last, four days afterwards, that wretch got help from the Bijapuris and attacked Tanaji by surprise. That loyal and martial officer fought valiantly on foot, till he fell in the Emperor's service. And Anaji (or Dataji) Deshmukh went to hell in the neighbourhood of Pandharpur. It is reported that Mahadji also was wounded.....Jai Sinha at first wanted to march there in person [and retrieve the disaster], but was persuaded to give up the idea, lest the Bijapuris should take advantage of his absence. So, he has decided to send Abdul Hamid with 5,000 men to that quarter." [H.A.tolbl

Then, in a letter to the prime minister Jafar Khan we have an astounding proposal from Jai Sinha to entrap Shiva by the false proposal of a marriage between his daughter and Jai Sinha's son, and get him murdered during his journey to the Rajput general's camp—

"I have not failed, nor will I do so in future, to exert myself against Bijapur, Golkonda and Shiva in every possible way.....I am trying to arrange matters in such a way that the wicked wretch Shiva will come to see me once, and that in the course of his journey or return [our] clever men may get a favourable opportunity [of disposing of] that luckless fellow in his unguarded moment at that place. This slave of the Court, for furthering the Emperor's affairs, is prepared to go so far,—regardless of praise or blame by other people,—that if the Emperor sanctions it, I shall set on foot a proposal for a match with his family and settle the marriage of my son with his daughter,—though the pedigree and caste of Shiva are notoriously low and men like me do not eat food touched by his hand (not to speak of entering into a matrimonial

connection with him), and in case this wetch's daughter is captured I shall not condescend to keep her in my har-em. As he is of low birth, he will very likely swallow this bait and be hooked. But great care should be taken to keep this plan secret. Send me quickly a reply to act accordingly." [H. 4.139a].

This letter throws a lurid light on the political morals of the 17th century. When people argue that Afzal Khan could not have possibly intended to stab Shivaji during an interview, they should remember that the sanctimonious Jai Sinha was prepared to prove his loyalty by lowering his family honour and laying a fatal snare for Shivaji, a brother Hindu.

[Authorities:—(1) H. A. or *Haft Anjuman*, a collection of letters written by Jai Sinha's secretary Udai Raj (described in my *History of Aurangzib* ii. 314-315). (2) *Alamcjirnamahy* Persian text In the Bibliotheca Indica Series. (3) *Tarikh-i-Shivaji*, India Office Library Ms. as translated by me in the *Modern Review*, 1907 (described in my *History of Aaranzib*, ii. 306-307). (4) Khafikhan's History in Bibl. Ind Series (*ibid.*, 303). (5) *Basedin-i-Satu* tin* (*ibid.*, 308).]

PALÆORAPHIC NOTES

BY V. . SUKTHANKAR

IN the field of the palaeography of Northern India the beginning of the sixth century of the Christian era is marked by the advent of a new epoch of alphabet, which is chiefly characterised by the acute angles that show themselves at the right or lower ends of letters, as well as by the wedges which are superimposed on the tops of the vertical or slanting lines, and which is, therefore, variously styled as the 'Acute-angled' or 'Nail-headed' alphabet.¹ The epigraphic documents of the period from the sixth to at least the beginning of the eighth century form an unbroken record of the use of this alphabet in Central and Northern India. This type was in course of time supplanted by a rival alphabet; and the characters of the inscriptions of the next century present the incipient stages of the Northern Nagari, the fully developed forms of which may be seen in the Kauthem (Miraj State) copper-plate grant² of the Calukya king Vikramaditya V (A. D. 1009). The distinguishing feature of this type is the substitution of horizontal covering strokes in place of the wedges, and right angles in place of the acute angles of the previous variety. The general course of the evolution of Nagari out of the acute-angled alphabet is evident enough;³ but the determination of the actual period of transition is a problem which naturally presents certain difficulties. The earliest forms of the transition alphabet are differentiated from those of its predecessor merely by the flattening of the above-mentioned wedges. These forms are supplied by the characters of the Multal (Central Provinces) plates of the Rastrakuta Nandiraja Yuddhasura dated in the year corresponding to A. D. 708-9, and other inscriptions of a later date. In other respects the characters of the Multal plates link on directly to the acute-angled

1 Buhler, *Indische Palaeographie*, p. 40.

2 *Indian Antiquary*, Vol. 16, pp. 15 ff,

3 Buhler, *op. cit.*, pp. 501.

alphabet, and Buhler was therefore perfectly right in looking upon them as the last phase of this variety.¹ The distinctive peculiarity of Nagarl, it must be emphasised, lies in the widening of the acute angles into right angles as well as the addition of the flat top stroke which, so to say, covers the entire breadth of the letters at their upper end. Both these characteristics are unmistakably manifest in the Kanheri inscriptions of the Silahara feudatories Puilasakti and Kapardin I I. ² Thus upto the beginning of the eighth century (A. D. 708 : the Multal plates) the acute-angled alphabet was still current in Northern India; on the other hand, as we see from the Kanheri inscriptions (A. D. 851 and 877), Nagarl had come to be used as an epigraphic alphabet by the middle of the ninth century.

* We might therefore set ourselves the question, at what period does this change set in V Are there any records³ written in Nagarl, of a date earlier than the above-mentioned Kanheri inscriptions ? Buhler was inclined to suppose that the northern Nagarl was in use at least since the beginning of the eighth century.⁴ The inscriptions which appear to lend support indirectly to this view form the following series:⁵ (1) the Samangad grant⁶ of the Rastra-

1 Buhler, *op. cit.*, p. 50.

2 Inscriptions Nos. 15 and 43; see *Indian Antiquary*, Vol. 13, p. 135,

3 I wish to exclude therefrom the signatures or facsimiles of signatures of Ourjara princes on the copper-plates of Kaira (of A. D. 628 and 633), of Dabhoi (A. D. 642), of Nausri (A. D. 705) and of Kavi (A. D. 736) appended to texts written in a southern alphabet. From those royal sign-manuals it does not necessarily follow that the alphabet in question was used at that period commonly for epigraphic purposes.

4 Buhler, *op. cit.*, p. 51.

5 The earliest of these is dated A. D. 754. But Buhler argued that as an inscription from the Kanarese country, viz. the Pattadkal pillar inscription of Kirtivarman II (*Epigraphia Indica*, Vol. 3, pp. 1 ff.), which was caused to be incised by a Brahman from Northern India, shows the mixture of the Nagarl and acute-angled letters, we could assume the use of Nagari since the beginning of the eighth century. For my part, I must say, I have not been able to trace any Nagarl letters in this inscription.

6 Edited by Fleet, *Indian Antiquary*, Vol U, p. 105.

kuta Dantidurga (Bihler, Palaeographic Tables, Plate IV, Col. XXII), bearing a date corresponding to A. D. 754, from Western India; (ii) the Dighva-Dubaul plate¹ of Mahendrapala I, and (iii) the Bengal Asiatic Society's plate of Vinayakapala² (of the Imperial Pratihar dynasty), believed by Bihler to be dated in the years corresponding to A. D. 761 and 794-5 respectively, from Northern India. We shall presently return to a detailed consideration of the Samangad grant, but let us first examine the characters of the other two records a little more closely. It is true enough that we find here distinctly Nagari characteristics, e. g. (i) in the above-mentioned right angles of *gha* (PI. IV, col. XXI; 10) *pa* (col. XXI; 27), *ma* (col. XXIII; 31), *ya* (col. XXI, XXIII ; 32), and *sa* (col. XXIII; 37) ; (ii) in the flat top stroke of *pa* (col. XXIII; 27), *ma* (col. XXIII; 31), *ya* (col. XXIII; 32), *sa* (col. XXIII; 37), and *sa* (col. XXIII ; 38). Of special interest is the form of *ja* (col. XXI, XXIII; 14). In the Dighva-Dubaul plate it has entirely lost its original characteristic element of three parallel bars as, for instance, in the specimen³ quoted in the immediately preceding column (XX; 14) of the same table ; but in the other grant the transformation is still more striking. The lower portion of the letter forms a clearly developed double curve, while the (originally horizontal) middle bar is all but vertical.

Now with regard to these alleged specimens of early Nagari the following is to be noted. As far as the alphabet of the Dighva-Dubaul plate is concerned, the term Nagari seems to me to be applied to it with doubtful propriety.⁴ Bihler has classed it rightly as an instance of the acute-angled variety.⁵ The absence of the covering stroke in *gha* (col. XXI; 10), *pa* (col. XXI; 27), *ma* (col. XXI ; 31), *ya*

1 See Fleet, *Indian Antiquary*, Vol. 15, p. 106.

2 *Indian Antiquary*, Vol. 15, p. 140.

3 Multai plates ; see Fleet, *Indian Antiquary*, Vol. 18, p. 231.

4 It is called North-Indian Nagari by Dr. Fleet, *Indian Antiquary*, Vol. 15, p. 106.

5 Bihler, *op. cit.* p. 50.

(col. XXI; 32), *m* (col. XXI; 37), and *sa* (col. XXI; 38) shows that it has not passed the transition stage; while the sporadic acute angles, for instance, in *ma* (col. XXI; 31) and perhaps *sa* (col. XXI; 37) entitle it to be considered a phase of the acute-angled alphabet. This is, however, only a matter of nomenclature. No such doubt can be entertained with regard to the copper-plate 'grant of the Pratihara king Vinayakapala of Mahodaya, which is certainly one of the earliest instances (if, indeed, not the earliest instance) of the use of Nagari forms for epigraphic purposes as far as Northern and Central India are concerned. None the less is the conclusion of Buhler regarding the phase marked by these two plates in the evolution of Nagari wrong ; the reason is that both these records were considerably antedated by him. The mistake lay in the erroneous interpretation put in his time upon the syllables *satiivatsro* forming part of the date of the record. Here the ligature *tsro* (as was first pointed out by Dr. Hoernle) must be looked upon as consisting of the *t* of *samvat* and *sro*, which latter apparently stands for the multiplicative factor 100, a conclusion which has now found general acceptance.¹ The numerical symbols thus correspond to the figures 955 and 988, which when referred to the Vikrama era yield the dates A. D. 898 and 931, and, therefore, relegate the plates to the end of the ninth and the beginning of the tenth century respectively, that is, fully 137 years later than the date assigned to them by Buhler.

The expunging of these two records from their place at the end of Plate IV of Biihler's Tables has the effect of breaking up the series mentioned above, and with it disappears a solid block of evidence for the supposition that Nagari forms were commonly in use for epigraphic purposes since the beginning of the eighth century. It may be incidentally remarked that even from a consideration of the advanced forms of the plate of Vinayakapala, this

1 An independent proof of the correctness of this view has now been supplied by the date of the newly discovered Partabgad Ins. noticed by Mr. D. R. Bhandarkar in the *Indian Antiquary*, Vol. 45 (1916), p. 122.

is a satisfactory conclusion, as the latter fits in much better in its new place near the Siadoni¹ inscriptions from Central India, the dates of which run from A. D. 968, than in juxtaposition with the Multal plates and the Baijanath² inscription. It is, however, an extremely fortunate circumstance that in this instance the palaeographic conclusion finds a substantial corroboration from an independent source of evidence.

But to return to the question of the earliest use of Nagari, it may be observed that the alteration in the reading of the date of the plates of the Pratihara grants leaves in the main the thesis of Buhler untouched; for, in assigning the earliest known specimen of Nagari to the middle of the eighth century, Buhler³ was relying on the Samangad grant⁴ of Dantidurga which purports to be dated in the year corresponding to A. D. 754; and it must be admitted that in these plates we find not the slightest trace of the wedge formation nor of the acute-angles, but, on the other hand, the frequent use of top-strokes (which cover the entire breadth of the letters) and the right angles which, as remarked above, are so characteristic of Nagari. Moreover, as the reading of their date is beyond all doubt certain, the existence of these plates is *prima facie* evidence in support of Buhler's view. But, on the other hand, one cannot entirely ignore the fact that these plates occupy a very isolated position in the progressive development of Nagari. For, the next earliest records in which we again find anything like Nagari forms belong to the beginning of the following century, viz. the Hadrian pur and VanI copper-plate grants of the Rastrakuta Govinda III issued in the year corresponding to A. D. 808 ;" but it may be pointed out that in this grant of Govinda III, the Nagari characters are used not exclusively as in the alleged grant of Dantidurga,

1 Buhler, *op. cit.*, Plate V. col. VII.

2 Buhler, *op. cit.*, Plate V, col. T.

3 Buhler. *op. cit.*, p. 51.

4 *Indian Antiquary*, Vol 11, pp. 106 ff. and facsimile.

5 *Indian Antiquary*, Vol. 6, p. 59; Vol. 11, p. 158.

but side by side with others which are distinctly acute-angled. This distinction is worth noting: and I shall shortly have occasion to refer to it again.

As remarked above, there can be no possibility of doubt concerning the reading of the date of the Samangad grant: it is given both in words and numerical figures which tally with each other admirably. But this circumstance does not exclude the possibility that the plates may not actually belong to the year to which they refer themselves ; and, in my opinion, the date is too early by at least a hundred years, if not more. It is true that the space of a century often does not make an appreciable difference in palæographic matters. Moreover, while tracing the minute changes in the shape of individual letters, even of co-eval documents, we are by the nature of the circumstances forced to utilise for purposes of comparison alphabets from whatever locality they happen to be preserved, which is not the most satisfactory basis of comparison. We must further reckon with the personal indiosyncrasies of the engraver which are mostly an indeterminate factor. It is therefore right to add here that the following remarks regarding the age of the Samangad grant are made with the diffidence which the circumstances call for.

We shall now turn to the alphabet of this alleged grant of Dantidurga and examine it more minutely with a view to determine the standard of development reached by it. From what I have just said it follows that the best course would have been to select for comparison such documents as belong to the same epoch and are executed in the same part of the country. I should have preferred therefore to cite for comparison two copper-plate charters of the Rastrakuta king Krsnaraja I which have recently been brought to light: the one found at Talegaon (Poona district) has been briefly reviewed in the *Progress Report of the Archaeological Survey, Western Circle*, for the year ending March 1910; but the other, found at Bhandak (Chanda District, Central Provinces), has as yet received no further publicity beyond the bare mention of its discovery.

It is regrettable, therefore, that it is not possible to reproduce them here and make them available for the examination of the reader, as no description can adequately take the place of a facsimile. Out of the plates which have already been edited and which lend themselves for use in this connection, the Daulatabad plates¹ of the Rastakiita Sankaragana (dated in the Saka year 715 corresponding to A. D. 793) are as suitable as any other. When these two sets of plates are placed side by side, it will be noticed at once that there is a wide gap separating their alphabets. The characters of the Samangad grant are far in advance of those of the Daulatabad plates, which are executed nearly forty years *later* than the alleged date of the former grant. The difference between them is now the more difficult to explain as the advanced types of the Dighva-Dubauli and Vinayakapala plates are no longer available for bridging over the intervening gap.

A comparison between the alphabets of the two plates reveals the following points of difference between them. In place of the covering stroke of the letters *gha*, *pa*, *ma*, *ya* and *na* of the Samangad grant we have ornamental protuberances in the other plate. As regards *gha* it is worth noting that an example of the tripartite open form (in line 4, twice) of the Daulatabad plates can be seen in as late a record as the Pehva Prasasti,² which is assigned by Buhler himself to cir. A. D. 900. Characteristic of a later epoch is the form of *ja* in the Samangad grant which originally and even in the Multai plates (A. D. 708-9) consisted of three nearly parallel bars connected at one end. Subsequent development of the letter is as follows. The lowest bar develops a notch at its free end, and the middle inclines downwards. Incidentally it may be observed that this is the form of *ja* in the Bhandak plate of Krsnaraja I (A. D. 772). In the Vinayakapala plate the notch develops into a curve, so that the lower portion of the letter forms a

1 Ed. D, R. Bhandatkar, *Epigraphia Indica*, Vol. 9, pp, 193 fit., and facsimile.

2 Buhler, *op. cit.*, Plate V, col. III,

double curve, while the (originally horizontal) middle **bar** is all but vertical. The change is perfectly gradual, and is, I think, a good index of the age of a document. The *ja* of the Daulatabad plates marks an intermediate stage between the two limits: the lowest bar is slightly bent backwards, while the middle bar, though inclined downwards, is near its point of attachment almost horizontal. In the Samangad plates, however, the typical *ja* shows further progress in so far as the lowest bar is bent double, while the middle bar is well on its way to become vertical. Most noticeable and important are the characteristic acute angles in the Daulatabad plates as, for instance, in *ma*, *ya*, *la* and *sa*. In the Samangad grant, on the other hand, the acute angles have widened into right angles. Thus with respect to the Samangad grant the Daulatabad plates of Sarikaragana will have to be looked upon as a retrograde type. But the latter is no exception in this respect. In fact, an examination of the hitherto published records of the century intervening between the Samangad grant (alleged date A. D. 754) and the Kanheri inscriptions (cir. A. D. 850) will prove that it is not possible to produce a single instance of an inscription which is on the same stage of graphic development as the plates of Dantidurga. The alphabet of every other inscription of this period will appear archaic or retrograde in comparison with the Samangad grant.¹

It may be at once admitted, that there could be no exception taken to the circumstance that an inscription contains some forms which are slightly more advanced than those of other records of the same or even slightly later period. In the above-mentioned grants of Govinda III, for instance, we find side by side types with wedges and those

1 See for instance, Kielhorn, *List of Inscriptions of Southern India*, Nos. 794, 808, 809, 835, 867. In these examples it will be found that **the** top Stroke is attached to the left vertical of the letter and does not **cover** the entire breadth of it unless the vowel sign is appended to the letter, in which case the sign was drawn in continuation of the top **stroke**. Another feature is the sporadic presence of acute angles in **the** letters *yha*, *pa*, *ma*, *ya*, etc.

with long covering strokes, that is to say, a mixture of the acute-angled and another more advanced alphabet. While on the other hand, the Gwalior inscription¹ of Bhoja, which is roughly fifty years later in date, shows forms which are on the whole acute-angled. This is quite natural. In the case of the Samangad grant, however, the outstanding consideration for suspecting its authenticity is the circumstance that it contains not merely advanced forms, but that these should be used to the entire exclusion of others which must have been current at the epoch. The use of the advanced forms is not arbitrary: the regularity with which they recur shows that they had become fixed types at the time the document was concocted. The consideration that further search may bring to light other records which will supply the missing links seems to me to be a futile consolation. At any rate I should say that an essential preliminary condition for re-establishing the impugned authenticity of this grant will be the actual discovery of a sufficient number of dated records that will supply forms which can bridge over the gulf between the epoch marked by, let us say, the Multal plates and the Samangad grant. Unless and until evidence of this nature is forthcoming, one might, in my opinion, legitimately doubt if the plates belong to the epoch to which they refer themselves.

Another fact which corroborates the suspicion is the following. It is a matter of common experience that forged plates are generally very inaccurate as regards their orthography. The reason for this may be that the text which was being copied was not familiar to the executors of the forgery. Be that as it may, if this be any criterion, it will have to be admitted that the Samangad grant stands the test very badly, as the text of that record is in a lamentably corrupt condition. Dr. Fleet's transcript does not show all the mistakes of the original; for instance, the very first syllable of the first verse (line 1) Dr. Fleet reads as *sa*; it is as a matter of fact a clear *ia*. In 1. 8 the third syllable is *va* ; Dr. Fleet transcribes it with *vi* But

1 Buhler, *op. cit* Plate V, col. II.

there are worse blunders than these in the text. The half-verse beginning with *nltavadhe* etc. (1. 17) has been mutilated beyond recognition, as a comparison with the Bhandak grant of Krsnaraja will prove.¹ But the most significant blunder is the one in the verse beginning with *sri* madyuva*" (1. 16). The first quarter of this verse must in the original have read something like *srīmad-Bhuvagarta nama*. The forger having misread the ligature *dbhu* as *dyu*, must have added conjecturally *ti* after *va* so as to complete the word *yuvati* and then in order to adjust the number of syllabic instants of the quarter, proceeded to convert the final *ma* into an *anusvura*. In doing so, however, he obliterated completely the word *Bhuvagana*, the name of the queen, a word which the writer probably did not know at all. Significant is also the fact that the Samangad grant is the only early Rastrakuta grant, so far discovered, in which verses *sabhruvibhanga* etc., and *KaficUa* etc. (11.23 ff.) occur in this order; elsewhere the latter precedes the former. It is unnecessary however to labour the point any further.

Lastly, I should like to call attention to the use of decimal figures in expressing the date of the Samangad grant. Is this an anachronism? That is no doubt a difficult question to answer. The Samangad grant is certainly no longer the earliest known specimen in which the decimal notation comes into use, as remarked by Dr. Fleet thirty-four years ago. But, it would be, if genuine, still one of the few inscriptions of a date earlier than the ninth

1 *Indian Antiquary*, Vol. 11, pp. 112 ff.—

Sam8uga4 (Dr. Fleet's transcript)—

nltdLvadheCi the)mtvnkesajagatah pafitnyati[h]* | Dr. Fleet does not translate the dubious *riitavadhemiya* ; the rest he renders with 'who protected the expanse of the whole world ' 1

BhSndak plates (verse 12)—

nitnvarthamivase\$ajanataprarthitliyatil m] | Translation: '(From her he obtained a son) like unto material well-being (*artha*) from (i. e. as a result of) righteous conduct (*niti*), (a son who was, as it were,) the future (prosperity) prayed for by the whole of mankind.'

century in which decimal notation is used.¹ As far as the grants of the successors of Dantidurga are concerned, it may be noted that in both the (unpublished) records of Krsna I, the Alas plates² (A.D. 770) of Yuvaraja Govinda I I, and all the plates of Govinda I I I upto the Saka year 735 (t. e. A. D. 813) and the majority of his other records,³ the date is given merely in words. A noteworthy exception is a record of the Rastrakuta Kakkaraja of Gujarat of the year A. D. 757, where the date is expressed both in words and numerical figures. In this instance the symbols which are employed, be Lt remembered, are not decimal as in the Samangad grant, but letter-numerals. But with reference to the use of the decimal notation I may add that in view of the mode of dating in the Gurjara inscription⁴ of the Kalacuri year 346 (A. D. 594), of the Valabhl inscription⁶ of the Gupta year 365 (?) (i. e. A. D. 685 ?) and some others, one might surmise that the Gurjaras and perhaps their neighbours in Gujarat had adopted the more advanced system of decimal notation much earlier than their contemporaries further south. We know, however, so little definite about the early use of this notation in India that it would be unwise to formulate a solution which happens to suit a particular case. I leave it, therefore, here as an open question whether we can legitimately assume the prevalence of the use of decimal notation in the heart of the Southern Maratha country as early as the eighth century, especially in epigraphic records which admittedly affected a certain amount of archaism. Worth noting, however, is the fact that even to Biihier the forms of the numerals in the Samangad grant appeared to be * strongly modified cursive forms.¹⁶ But here again we are on shaky ground for want of sufficient material on which to base a definite conclusion.

1 Buhler. *op. cit.*, pp. 78 f.

2 Ed. D. R. Bhandarkar, *Epigraphia Indica*, Vol. 6, p. 209 and plates.

3 See Kielhorn, *List of the Inscriptions of Southern India*

4 Ed. Dhruva, *Epigraphia Ivdica*, Vol. 2, pp. 19 ff., and plate.

5 *Journal of the Bengal As. Soc.*, Vol. 7, p. 968.

6 Buhler, *op. cit.*, p. 79.

In this connection one is irresistibly reminded of the Dhiniki plate¹ of Jfiikadeva of Saurashtra bearing the date V. [79]4 corresponding to A. D. [73]7. In this instance also, the numerals expressing the date are decimal and the alphabet is a well developed form of Nagari. The details of the date, however, leave (in the concurring judgment of Kielhorn and Dr. Fleet) no doubt as to its being a forgery.² It is unfortunate, therefore, that the details of the date of the Samangad grant are not capable of verification.

Taking all things into consideration, the balance of evidence points, in my opinion, strongly to the conclusion expressed above, viz. that the Samangad grant is spurious. This conclusion, if granted, would have the important result of taking the epoch of the use of Nagari in epigraphic documents forward by at least a hundred years. For, as remarked above, if we leave out of consideration the Samangad grant, the next earliest inscriptions which are written throughout in Nagari are the Kanheri inscriptions of the Silahara princes Pullasakti and Kapardin I I . These nearly co-eval inscriptions exhibit the regular use of top-strokes covering the entire breadth of the letters, as well as rectangles (as opposed to the wedges and acute angles) in *gha* (Buhler's *Palseographic Tables*, Plate V, col. V ; 13), *pa* (col. V ; 30), *ya* (col. V ; 35), *sa* (col. V ; 40) and *sa* (col. V ; 41). The Radhanpur and VanI plates of Govinda I I I . , which contain a mixture of both the acute-angled and transition types, appear now in a different light. They do not represent a retrograde movement but a progressive one. Preceding as they do by about fifty years the earliest known inscriptions in which Nagari forms are exclusively employed, they represent a true transition stage.

As the outcome of the analysis here undertaken, we arrive at the following conclusion. The very earliest dated inscriptions hitherto known which are written throughout in Nagari characters are the inscriptions (cir. A. D. 850) of

1 *Indian Antiquary*. Vol. 12. p. 155 and plate.

2 See references under Kielhorn, *List of the Inscriptions of Northern India*, No. 8.

the Silahara princes, from the Kanheri Caves in Western India. These show (i) the top-stroke covering the entire breadth of the letter, and (ii) rectangular corners. Transition stages leading upto these forms have been already-discussed. In these the top stroke never covers the entire breadth of the letters, while some characters retain their former acute angles; the form of *ja* is also a significant index. The subsequent course of the development of Nagari in Western India can be traced with the help of the below-noted inscriptions of the Rastrakutas of Malkhed and Lata belonging to the period cir. A. D. 850-950. A minute examination of these records will also provide further support to the inference that the Kanheri inscriptions should be placed at the middle point of the evolution of the Nagari out of the acute-angled alphabet. Following are the inscriptions above referred to:

1. Kielhorn's Southern List No. 77, Saka 789 (A. D. 867). The Bagumra plates of the Mahasamantadhipati Dhruvaraja II—Dharavarsa-Nirupama of Gujarat—regarding the alphabet of which Buhler remarks (*Ind. Ant.* Vol. 12, p. 181) that the letters resemble those of the Samangad plates.

2. Ibid No. 81, Saka 810 (A. D. 888). The Bagumra plate of the feudatory Rastrakuta Krsnaraja Akalavarsa of Gujarat. In this instance the top-stroke covers the entire breadth of the letter, and rectangular corners are prominent

3. Ibid Nos. 86-187, Saka 836 (A. D. 914). The Bagumra plates of the Rastrakuta Maharaj&dhiraja Indra I I I. Here the development of Nagari along the two main lines indicated above is completed.

4. Ibid No. 91, Saka 852 (A.D. 930). The Cambay plates of the Rastrakuta Maharajadhiraja Govinda IV. This superbly engraved record may be looked upon as a standard to which the Nagari of the tenth century was tending.

5. Ibid No. 92, Saka 855 (A. D. 933). The Sangli plates of the Rastrakuta Maharajadhiraja Govinda IV the cha-

racters of which are of the same type as the Bagumra inscriptions of Indra III.

6. Ibid No. 94, Saka 867 (A.D. 945). The Saiotgi (Bijapur District) pillar inscription of the reign of the Rastrakuta Krsna III, Akalavarsa. The forms are perhaps somewhat more archaic than those of the plates mentioned above.

Additional reference will be found in Buhler's *Indische Palaeographie*, p. 51.

So much for the earliest use of Nagari in Western India. Regarding its use in Northern India, I should like to add the following observation which arises directly out of a fact noted above. Buhler's mislection of the date of the Vinayakapala plate, as we have seen, led him into an error regarding the period at which this alphabet became an epigraphio alphabet in Northern India. Having thus erroneously dated this instance of the use of Nagari in A. D. 794-5 he found that the succeeding, that is the ninth, century was practically bare of Nagari inscriptions, and had to admit that it was not till the middle of the tenth century that this alphabet comes again into general use in that part of India. Buhler was, I think, substantially right in saying that in Northern and Central India the Nagari appears first in the copper-plate grant of Vinayakapala, but that event has to be dated in A. D. 931. It remains to determine the transitional stages during the latter part of the ninth and beginning of the tenth century; but it would appear as if there are no Nagari inscriptions belonging to the eighth or even the early part of the ninth century from Northern India.

Grammar and Philology

BBAGVADGITA FROM GRAMMATICAL AND LITERARY POINTS OF VIEW

BY V. K. RAJWADE

A claim is sometimes made for the Bhagvadgita that, besides being a philosophical or rather ethical work, it is one of the best poems of the world. I intend to subject this claim to criticism in this paper and find out how far it can be sustained.

Mammata who is the highest authority on Sanskrit poetics defines poetry as a conglomerate of words and sense free from faults, possessed of distinctive qualities and containing figures of speech. Jagannatha who is the next best authority on the same subject improves on this definition as he subordinates sense to expression. Poetry according to him is word or expression conveying charming sense. European writers also attach the same importance to style. One of them (Puttenham) calls it the image of man, for 'man is but his mind, and as his mind is tempered and qualified, so are his speeches and language at large.' Dryden says : 'In poetry the expression is that which charms the reader and beautifies the design.' Coleridge's definition of good prose is—proper words in their proper places—and of good verse—the most proper words in their proper places. 'The words in prose ought to express the intended meaning and no more ; if they attract attention to themselves, it is, in general, a fault. But in verse the words, the media, must be beautiful and ought to attract notice.' Wordsworth says : 'It is unphilosophic to call language or diction the dress of thoughts; I would call it the incarnation of thoughts.' De Quincey, commenting on this, remarks : 'If language were merely a dress, then you could separate the two. But you can no more deal thus with poetic diction than you can with soul and body. The union is too subtle, the intertexture too ineffable—each co-existing not merely *with* the other, but each *in and through the other*.'

Mr. Hudson Maxim, who has criticised current definitions of poetry, says: 'Poetry obeys the law of conservation of energy. By poetry a thought is presented with the utmost economy of word-symbols.' He approvingly quotes Herbert Spencer's statement: 'As language is the vehicle of thought, there seems reason to think that in all cases the friction and inertia of the vehicle deduct from its efficiency, and that in composition the chief, if not the sole thing to be done is to reduce this friction and inertia to the smallest possible amount. Economy of the recipient's attention is the secret of effect, alike in the right choice and collocation of words, in the best arrangement of clauses in a sentence, in the proper order of its principal and subordinate propositions, in the judicious use of simile, metaphor, and other figures of speech, and even in the rhythmical sequence of syllables.' 'But,' says Mr. Maxim, 'language is not merely a vehicle of thought; it is also an instrument for the conversion of energy into pleasurable emotions. Considered as a vehicle of thought, that language is best which utilises, with the greatest economy, the maximum of energy of both hearer and speaker in the production of pleasurable emotions as concomitants of the thought conveyed.' Anything that increases the friction and inertia of the vehicle—every fault of grammar and diction for instance—causes a waste of the recipient's energy and thus lessens the pleasurable emotion. Mammata mentions all such faults in the seventh section of the *Kāvya-prakāśa* and gives illustrative examples.

All writers—poets included—should scrupulously avoid faults of grammar. In Sanskrit शुभ्, वत्, रम्, प् (1st and 4th conj.), च्यु, स्था with अव्, वृत् with नि, and लम् are *Ātmanepada*, and कोङ्, व्रज्, विज् and इज् are *Parasmaipada*; but in the *Gītā* they are almost always used in the *wrong pada*. विज् with उद् is once (v. 20) used in the *Parasmaipada*. निवसिष्यसि (xii. 8) ought to be निवत्स्यसि. मा शुचः (xvi. 5) means 'do not be pure.' As the sense is 'do not be sad,' it ought to be मा शोचः or मा शाचीः. प्रसविष्यच्च (iii. 10) is quite unaccountable. प्रसविष्यच्च is conditional. There is no warrant for using this mood with

मा and dropping the अ, for मा is used before the aorist (माङि लुङ्) and the imperfect (स्मोत्तरे लङ् च) only. Besides there is not even the मा here. In यमः संयमतां (x. 29) the correct form is संयच्छतां. It is difficult to say whether हे सखेति (xi. 41) is an instance of *wrong sandhi* or wrong vocative, whether the author thought सख् to be the vocative singular of सखि like राम or whether he dropped the इ of इति after सखे for the sake of the metre. The latter conjecture is probably the right one, for we have प्रियः प्रियायार्हसि (xi. 44) where there is a double sandhi viz. प्रियायाः+अर्हसि = प्रियाया अर्हसि = प्रियायार्हसि. We have also शक्यः + अहं = शक्य अहं in xi. 48 and 54. Sandhi is neglected in मय्येव अत ऊर्ध्वं (xii. 8). सेनानीनां (x. 24) ought to be सेनान्यां. It is doubtful whether ब्राह्मणाः in ब्राह्मणास्तेन वेदाश्च (xvii. 23) refers to the caste or to the Brāhmaṇa portions of the Vedas. In the latter case it ought to be ब्राह्मणानि. If it be the caste, there is no reason why it should precede the Vedas and sacrifices. That objection would not arise against the second interpretation, as the Brāhmaṇas are part and parcel of the Vedas.

सर्वेभ्यः पापकृत्तमः (iv. 36) and न तस्मात्प्रियकृत्तमः (xviii. 69) are *wrong cases* as also तेषां के योगवित्तमाः (xii. 1). सर्वेषां °षु पापकृत्तमः, न तस्मात्प्रिय-कृत्तरः and तेषां के योगवित्तराः are the right expressions. In the last only two kinds of persons are compared. There is no authority for the dative in सत्यं ते प्रतिजाने (xviii. 65), for it does not fall under प्रत्याह्व्यां ध्रुवः. योगस्य जिज्ञासुः (vi. 44) and धर्मस्य अध्वधानाः (ix. 3) ought to be योगं जिज्ञासुः and धर्मं or धर्मे अध्वधानाः and मद्भक्तेषु अभिधास्यति (xviii. 68) should be मद्भक्तान् or मद्भक्तेभ्यः अभिधास्यति. The verb नम् governs the accusative while the particle नमस् governs the dative. गरीयसे ब्रह्मणोऽप्यदिकत्रै नमेरन् (xi. 37) is wrong. In वक्तुमर्हस्यशेषेण दिव्या ह्यात्मविभूतयः (x. 16) and हन्त ते कथमिष्यामि दिव्या ह्यात्मविभूतयः (x. 19) विभूतयः should be विभूतीः. मे ध्रुणु (x. 1 etc.) and मे निषेध (xviii. 13) seem to be influenced by Prākṛit expressions. एतद् संशयं (vi. 39) and इदं महिमानं (xi. 41) may be mis-readings. In प्रकृतेः कियमाणानि etc. (iii. 27) कर्माणि seems to be the object of कर्ता which however is a noun; कर्माणि must be कर्मणां. कर्मे in iv. 24, कर्माणि in v. 10, पुण्यं in viii. 8, and मां in ix. 14 and 22 and in xii. 6 have to be construed twice. This fault recurs in a few other places also.

In न हि प्रपद्यामि ममापनुद्यात् (ii. 8), अपनुद्यात् should be अपनुदेत्, because no benedictive is wanted here. In v. 21 and xv. 3 and 4 there is nothing to connect the two halves of the stanzas. The Ātmanepada in i. 1 (अकुर्वत), iii. 12 (दास्यन्ते), iii. 21 and iv. 37 (कुरुते), and ix. 27 (कुरुष्व), and the Parasmaipada in xvi. 15 (दास्यामि) are meaningless, as also the future forms in ii. 52 (गन्तासि) and in xviii. 69 (भविता).

There are many instances of *clumsy or intricate constructions*. Some typical ones are the following—

अस्माकं तु विशिष्टा ये तान्निबोध द्विजात्तम ।

नायका मम सैन्यस्य संशयं तान्ब्रवीमि ते ॥ १.७

How are we to construe नायका मम सैन्यस्य? It cannot be अस्माकं सैन्यस्य ये विशिष्टा नायकाः, because मम shall have to be neglected and also because it would be a far-fetched construction. A way out of the difficulty would be to understand ये before नायकाः in the second line. Similarly कैमेया सह योद्धव्यमस्मिन्नणसमुद्यमे (i. 22) stands disconnected. There is nothing to connect it with the preceding half or the succeeding stanza. The queerest stanza is ii. 67—

इन्द्रियाणां हि चरतां यन्मनोऽनुविधीयते ।

तदस्य हरति प्रज्ञां वायुर्नाविमिबाम्भसि ॥

For an intelligible construction we have to alter the forms of words as well as to supply certain links.¹ यो बुद्धेः परतस्तु सः (iii. 42) = यस्तु बुद्धेः परतः सः is incomplete; यः really is unnecessary, for the construction can be बुद्धेः परतस्तु सः (आत्मा). कर्मणो ह्यपि बोद्धव्यं (iv. 1) really means कर्म हि बोद्धव्यं. In v. 21—

बाह्यस्पर्शेष्वसक्तात्मा विन्दत्यामनि यत्सुखं ।

स ब्रह्मयोगयुक्तात्मा सुखमक्षय्यमश्नुते ॥

यत्सुखं requires for its correlative तत्सुखं. The construction should be बाह्यस्पर्शेष्वसक्तात्मा आत्मनि यत्सुखं विन्दति तत्सुखमक्षय्यं तच्च ब्रह्मयोगयुक्तात्मा अश्नुते; सः has no place in this sentence.² In xi. 27 and 28 विद्वान्ति has two objects, viz. त्वां and वक्त्राणि. In ii. 35—

भयाद्विनादुपरतं संस्यते त्वां महारथाः ।

येषां च त्वं बहुमतो भूत्वा यास्यसि लाघवम् ॥

1 यदा (यत्) मनः चरन्ति इन्द्रियाणि (चरतां इन्द्रियाणां) अद्विषधये (अज्ञातभावतः) तदा (understood) तत् अस्व प्रज्ञां हरति.

2 Equally clumsy or intricate are viii. 2, 9 and 10, x. 39 second half, and xviii. 60.

we have a tough construction, for येषां is a stumbling block. If येषां be altered to तेषां the difficulty may be got over. In ये चैव सात्त्विका भावा राजसास्तामसाश्च ये । मत्त एवेति तान्विद्धि etc. (vii. 12) तान् should be ते, which should be placed somewhere before इति. In (vii. 21)—

यो यो यां यां तनुं भक्तः भ्रक्षयार्चितुमिच्छति ।

तस्य तस्याचला श्रद्धा तामेव विदधाम्यहम् ॥

there is nothing corresponding to यां यां तनुं. We expect तस्यां तस्यां तन्वां; तामेव must be omitted. The Stanza दिव्यमास्यांबरधरं (xi. 11) is intended to be construed with xi. 9 and 10 but cannot be so constructed, for all the adjectives qualify देवं which has no syntactical connection with दर्शयामास or ऐश्वरं रूपं. Three constructions seem to be mixed up in xviii. 21 पृथक्त्वेन तु यज्ज्ञानं etc. यत्तुज्ञानं पृथक्त्वेन (वर्तते) तज्ज्ञानं राजसं विद्धि; or यज्ज्ञानं सर्वेषु भूतेषु नानाभावाच्चेति तत् etc.; or यज्ज्ञानं नानाभावान् पृथग्विधान् वेति तत् etc. The worst example is perhaps xviii. 50—सिद्धिं प्राप्नो यथा ब्रह्मा तथाप्राप्नोति निबोध मे where आप्राप्ति is misplaced. It should have been सिद्धिं प्राप्नो यथा ब्रह्माप्राप्नोति तथा मे निबोध. It violates the rule that the words of one sentence ought not to be mixed up with those of another.

The components of certain compounds have been misplaced as those of अनलाकौ (= अर्कानलौ xi. 17), जन्मकर्मफलप्रदां (= कर्मफलजन्मप्रदां ii. 43, where कर्मफल or जन्म may be omitted), चैलाजिनकुशोत्तरं (= कुशाजिनचैलोत्तरं vi. 11), धनमानमद (= मानधनमद xvi. 17), and दिव्यानेकोद्यतायुधं (= अनेकदिव्योद्यतायुधं xi. 30, to suit the other adjectives). Compounds like मदर्पणं (ix. 27), दिव्यगन्धानुलेपनं (xi. 11), ब्रह्मसंस्पर्शं (सुखं vi. 28) are bad and cannot be regularly dissolved. It is hard to say whether कामहेतुकं (xvi. 8) and अहेतुकं (xviii. 22) are compounds or Taddhitis; in either case there is no rule to explain them. The suffix वत् can be used only in three cases, viz. तेन तुल्यं क्रिया चेद्वतिः, तत्र तस्येव and तवर्हे. None of these sūtras is applicable in कृत्ववत् (xviii. 22) and in अयथावत् (xviii. 31). The third case may explain अयथावत् if यथा is used for याथार्थ्यं, i. e. as a noun. यथात्मवान् (xii. 11) and अनादिमत् (xiii. 12) are considered wrong, for the rule is that वत् etc. should not be added where a Bahuvrīhi compound can give the intended meaning (न कर्मधारयान्मत्वर्थयो बहुव्रीहिवत्तदर्थप्रतिपत्तिकरः); यतात्मा and अनादि are quite significant: at least यतात्मा is, while अनादिमत् might be the negative of आदिमत्.

दीर्घसूत्री (xviii. 28) is in the same category. Amara gives दीर्घसूत्र which is correct by the above rule.

Mammata insists on the use of proper *correlatives*, but the Gītā uses तस्य for अस्य and vice versa, यस्य for तस्य, एभ्यः for तेभ्यः, एतत् for तत्, and ततः for तदा. Sometimes wrong words are used, as for instance विसृज्य for उत्सृज्य, and संविम for उद्विम (i. 47), योगैः for योगिभिः (v. 5), द्वेय for द्वैत (v. 25), स्पर्शन for स्पर्श or स्पर्शोद्भिद्य and रसन for रसना (xv. 9), अन्यसन for अन्यस (xvii. 15), मनीषिणां for मनुष्याणां (xviii. 5), अन्यथा for अन्यत् (xiii. 11), प्रमुखतः for संमुखे (i. 25). अमृतं शृण्वतः (x. 18), एते द्वौरोर्विमुक्तः (xvi. 22) and सुखसंगेन बध्नाति (xiv. 6) are instances of careless Sanskrit, while अपान्नेभ्यो दीयते (xvii. 22) is unidiomatic.

The Gītā offends against economy of words most egregiously by interspersing *expletives* like च, एव, अपि, तु, हि, उत, इ and other meaningless single words plentifully, and by using expressions that in no way add to or emphasize the meaning. For instance एव is used about eighty times when no restriction or certainty is intended. In लोक-संग्रहेषापि संपश्यन् कर्तुमर्हसि (iii. 20) we have both एव and अपि, which, if not used as expletives, would contradict each other. By एव Arjuna would be compelled to look to the preservation of society alone but by अपि he would have an additional motive for his activity. Like Janaka he would secure salvation and like Kṛṣṇa he would preserve society by action. One of these two must be omitted. Again तु when not expletive signifies distinction. It is doubtful if it has any meaning in उभयोरपि दृष्टोऽतस्त्वनयोस्तत्त्वदर्शिभिः (ii. 16) and in अविनाशि तु तद्विद्धि (ii. 17). In the first case तु leads one to expect a distinction between the two lines as though the author wanted to differentiate the philosophical view from the popular view, but as current or traditional explanations go no such differentiation can be discovered. In the second case तु again raises the same expectation but does not satisfy it. Similarly अपि in the first case seems to say—whereas according to popular view only *one* thing has an end (अंत), according to philosophers both have an end. But the whole point of अपि and तु is lost when अंत is made to mean निश्चय or real nature.

Sometimes एव and च are repeated to fill up gaps. दिव्य, आत्मन् and अव्यय in their various forms सर्वशः, अक्षेपतः and पृथक् are also made to serve the same purpose. We have in one and the same sentence सर्व and अखिल (iv. 33), सततं and नित्यशः (viii. 14), नमस्कृत्वा and प्रणम्य (xi. 35), पुनः and भूयः (xi. 39), अचल and ध्रुव (xii. 3), and उक्त्वा twice (ii. 9). In सुहृन्मित्रार्युदासीनमव्यस्यद्वेष्य (vi. 9) we have three pairs, the components of each having the same meaning. The पर भावमजानंतो ममाव्ययमनुत्तमं of vii. 24 is altered to परं भावमजानंतो मम भूतमद्देश्वरं (ix. 11), but one fails to see the necessity of the alteration; moreover भूतमद्देश्वरं is hard to construe and interpret. It is simply a stop-gap or a filler. Sometimes these fillers spoil the sense as in प्राणास्त्यक्त्वा धनानि च as though riches were dearer to the warriors than life, or in आवृतं ज्ञानमेतेन...कामरूपेणानलेन च (iii. 39) as though fire would envelop but not burn knowledge, or in सत्रैव सति कर्तारमात्मानं केवलं तु यः (xviii. 16) where केवलं qualifying आत्मानं would make the आत्मन् an agent in company with certain other factors, whereas the Gītā says emphatically नान्यं गुणेभ्यः कर्तारं (xiv. 19) and यः पश्यति तथात्मानमकर्तारं (xiii. 29). Again one of the constituents of देवी संपत् 'divine or blessed character' is said to be नातिमानिता (xvi. 3). Did the writer approve of some portion of pride but not of over much? It is clearly opposed to अमानित्व in xiii. 7.

Another source for filling out is a host of vocatives such as हृषीकेश, गुडाकेश, कमलपत्राक्ष, अनघ, परंतप, महाबाहो, भारत, भरतर्षभ, पार्थ, कौंतेय, अर्जुन, धर्मजय, अरिसूदन, पुरुषर्षभ, कुंस्तत्तम, कुंस्तवीर, सव्यसाविन्, देहधृता वर, and of epithets like वीर्यवान्, नरपुंगव, समितिजय, परमेष्वास; at times a stanza has two or even three vocatives as for instance भूतभावन भूतेश देवदेव जगत्पते x. 15 which is simply a string of such expletives. In xvi. 19 the plural संसारेषु and in iv. 26 संयमाभिषु serve apparently the same purpose of filling out.

Prepositions are still another source: प्र and सं seem to be prominently the favourites of the author who uses each of them some fifty times¹ without adding to or altering the sense of the verbal forms, though that is the object

¹ No references are here given everywhere as the forms could easily be located from the valuable word-index to the Gītā supplied at the end of the Anandashram edition (No. 34).

generally served by prepositions. Thus प्र prefixed to दध्मन्, पश्यामि, दुष्यति, वदति, सिध्येत्, व्यथित, जानानि, निधाय, द्विषंतः, ईप्सु, and उच्यते; -सं to जनयन्, जायते, आधिगच्छति, आचरन्, आरंभ, तरिष्यति, अतीतानि, उत्थ, दृश्यते, उद्धर्ता, प्रवृत्तानि, अतीत्य, स्मृत्वा and उद्भवः;—परि to शुष्यति, दह्यते, अवतिष्ठते, उपासते, समाप्यते, चिंतयन्, त्याग, and ह्याता;—अनु to पश्यामि, सज्जते, चिंतयन्, म्मर, दर्शन, संततानि, and प्रपन्न;—अभि to अहन्यत, असूयंतः, उत्थान, जानाति, प्रवृत्त, युक्तानां, अधिक, अर्च, and रतः;—वि to कंपितं, निवर्तते, मुह्यति, भ्रम, मोक्षसे, वर्जित, अपैत, दाहिनः, and लग्न;—and नि to हत्वा, बध्यते, गच्छति, and बोध—do not bring out any special sense. जायते is similarly used with the prefixes अभि, उप and सं. Sometimes two prepositions are prefixed superfluously, as for instance वि and अति to तरिष्यति (ii. 52) and वि and अप to आधिल्य (ix. 32). प्रकीर्त्या is the same as कीर्त्या, प्रपश्य as पश्य, समाहर्तुं as संहर्तुं, and समायुक्त is संयुक्त. Sometimes wrong prepositions are used, as परि for आ in परिचक्षते (xvii. 13), उप for अव in उपधारय (vii. 16), प्र for आ in प्रसक्त (xvi. 16) and सं for वि in समाप्नोषि (vi. 40). प्रत्यनीक (xi. 32) is the opposite of and not the same as अनीक. दुर्निरीक्ष्यं (xi. 17) should be दुरीक्ष्यं. Similarly गृह्यते is without नि in vi. 35, युज्यते without प्र in xvii. 26 and भ्रिताः without आ in ix. 12. A complete list would be four times as large.

Though so lavish of expletives, the Gītā does not seem to mind lacunæ. प्रमुखतः is wanted after महीक्षिता (i. 25), अपि after आनतायिनः (i. 36), तत् to correspond to यत् in ii. 8, इव after स्वर्गद्वारं (ii. 32), तदा in ii. 58, अपि after अन्यत्र (iii. 9), and also after either विगुण or खनुष्ठितात् (iii. 35), अति before जाग्रतः (vi. 16), इव after प्रियायाः and अपराधं before सोढुं (xi. 44), यः before त्यजेत् (xviii. 8), and तस्मै after अभ्यसूयति (xviii. 67). In xi. 28 some such words as शब्धं is required to qualify समुद्रं, which would thus come into line with वक्त्राणि which is qualified by अभिविज्वलति.

We should expect the Gītā to be honey-combed with purple passages, if it were a poem and a poem worthy of being placed in the highest class of poetry. A philosophical poem is a misnomer if the philosophy is not allegorized. The Gītā has not the slightest pretention to allegory. Its aim is to convince by argument and not to visualize, except in one place. The appeal almost everywhere is to reason and when it occasionally does appeal to emotion, it does so, because emotion on those occasions cannot be

divorced from reason. The immortality of the soul is a theme where reason alone would be impotent but for its ally, viz. emotion. Here it must be acknowledged that emotion is the highest kind of reason. Other such passages are ii. 55-59 about the स्थितप्रज्ञ, iii. 17-18 about the आत्मतृप्त, v. 14-20 about the ज्ञानी. Lower in scale are i. 28-46 where Arjuna is overwhelmed with grief, ii. 45-53 about कर्माधिकार, vi. 18-23 about अकर्म, vi. 39-40 about ज्ञान, v. 8-13 about action being due to *indriyas*, vi. 29-32 where the Yogin sees Brahma everywhere, ix. 22-34 about the true devotee, xii. 12-19 and xiv. 23-26 about the ज्ञानी, and xvi. 4-26 where the two kinds of mental endowment, divine and diabolical, are spoken of. Still lower in scale are ii. 39-44 about the unified and diversified wills, iii. 20-24 where the enlightened perform acts for the preservation of society, and vi. 14-19 where the true Yogin is defined. None of these passages is pure gold, most of them being tarnished more or less by defects. All the poetic passages taken together number two and fifty lines at the most, the rest being mere versified prose.

If there is one subject that is more amenable to poetic treatment than any other, it is the greatness of the soul. It is capable of putting the mind into the highest divine afflatus and demands vast knowledge and operation of all the faculties. The passages we have referred to above are too meagre and the artist would feel happy if he were given larger elbow-room such as he would find in chapters x. and xi. Everything that is great in the universe being an incarnation or manifestation of the deity; and the divine vision or revelation: these are subjects that would delight, inspire and exercise any poetic genius. The way in which an artist deals with these topics would show his mettle. Even Kālidāsa, Bhavabhūti, Bāna, Shakespeare, Milton, Shelley would have been on their trial and yet there is not the slightest doubt that they would have acquitted themselves worthily, endowed as they were with an inexhaustible store of images and a faculty that knew how to work on those images. They would have given a life-like description and produced an immortal picture, the

main characteristic of which would have been unity in the midst of vastness. The question before us is whether the author of the *Gita* has brought together the best possible images, whether he has marshalled them in due order and whether he leaves on our mind an effect of unity and vastness.

Towards the end of chapter x, the Bhagavan says that he has mentioned only illustrative examples of his greatness, that in fact everything that is grand, or splendid or powerful is a portion of his light. Yet there are things in this chapter that possess none of these qualities. Some no doubt are grand, as the Himalayas, the ocean and the Ganges ; some splendid as the sun and the moon ; and some powerful, as the wind, the fire, the lion, the eagle and the crocodile. A few of these again may have two characteristics or even all the three, as for instance kings and such mythical beings as Indra, Kubera, Prahlada, Airavata and Uccaisravas. But by which of these qualities shall we characterize the Sama-veda, the Brhatsama, Brhaspati, Bhrgu, and Narada ? These are simply the best of their class. The letter *ar*, the Dvandva compound, and the month Margasirsa happen to be the first though not necessarily the best of their series. Again *Arundhati*, etc. are considered best among women because they happen to be feminine in speech. But the heroines and noble ladies of our epics—a mere utterance of whose names soon after waking in early morning is deemed auspicious—Sita, Tara, Anasuya, Mandodari, Savitri, Damayanti and Tara-mati of blessed memory, Urvashi, Rambha and Sakuntala unsurpassed in beauty, Sarasvati the goddess of speech: these have been forgotten; so also are Rama the ideal hero, son and husband, Hanuman celebrated for devoted self-sacrificing service, Ravana notorious for undying hatred of Rama, Laksmana the type of devoted brotherhood, Hariscandra true to his word, Dharma, conscience incarnate, and Nala. The Architect and the Physicians of the gods are conspicuous by their absence. If the *Asvattha* is the best of trees, *Soma* is the best of creepers. But the latter has been passed over, Instead of these we have

वाद and द्यूत which are mere acts, दंड and नीति which are means, चेतना a common characteristic of creatures, etc. What sort of greatness do these possess and what sort of pride or pleasure can Kṛṣṇa or for that matter any one feel in calling himself 'gambling' which is simply a civilized form of filching? It is rather strange that Kṛṣṇa, Arjuna and Vyāsa who are so intimately connected with the story of the Mahābhārata and Gītā should be mentioned as the best of their clan, family or class. Can they be so detached from self, so impartial as to look upon themselves in that light?

A few things have been dragged in for mere alliteration as पवनः पवतां, कालः कल्पतां and वादः प्रवदतां. It is this love of alliteration that has betrayed the author into a solecism like यमः संयमतां where संयमतां should be संयच्छतां. This correct form would read as well, but then the meretricious ornament would be missed. The writer cannot forget his own trade; like a pedant he must bring in the alphabet and grammar, which last is of a seamy character as we have seen above. No one can trace the source of his statement that the Dvandva is the first of compounds. In a description of divine greatness one expects order and progressiveness, the absence of which is felt everywhere. The Vedas, the gods, the senses and animate creatures are spoken of in stanza 22, trees and divine sages in 26, weapons, cows, lust and snakes in 28, demons and calculators in 30, purifiers, warriors, aquatic creatures and rivers in 31, letters, compounds, eternity and the creator in 33, death and such pretty damsels as fame, wealth, speech in 34 : Many would be amazed at finding themselves in such queer company. Cows, how soever tolerant, would not put up with the society of snakes. Order there is none. Any quarter, any half, any couplet may be placed anywhere, the writer's chief anxiety being how to complete the couplet. Great things and small have been simply huddled up.

To illustrate greatness the author starts with the all pervasive soul and the statement 'I am the beginning, the end and the middle of creatures' (x. 20, which is repeated in

32 with the substitution of creations for creatures'). This must lead to an anti-olimax if there be any order. To leave an abiding, clear impression small things should have been stated first, and these should have led up gradually to great and greater things till the whole enumeration culminated in the description of the universal soul. The author should have followed some logical method. As it is, it is nothing but a miserable welter. It is a small objection to say that half the things mentioned are fabulous.

The description of divine greatness in chapter x fills Arjuna with an ardent desire to visualize that greatness. Yet very few things mentioned in that chapter are seen in the universal vision. No particular gods are referred to except Brahma who is seated in the lotus and the Asvins. Poor Rsis jostle in company with serpents. The splendour of the vision would be equalled if a thousand suns shone simultaneously in the sky. In this transcendental blaze Arjuna sees innumerable arms, legs, bellies, mouths, jaws, and eyes, and into the cavernous mouths warriors on either side rushing and encountering death like moths rushing into burning fire. The vision occupies all inter-space between earth and sky and all the directions and yet curiously wears a crown and carries in hand the mace and the disc like the ordinary Krsna, and like him too is clad in resplendent garments, decked with garlands and annointed with scented pigments. This gay image is absolutely incongruous with the monstrous many-armed, many-legged, many-mouthed, many-jawed, and many-bellied apparition which terrifies Arjuna and the three worlds. With strange forgetfulness Arjuna desires to see Krsna with the traditional crown and the other fixtures in stanza 46. Are we to suppose that it was a moving picture as in a cinematograph wherein Krsna appeared now gay and now frightful? It is a pity that with his endowment of a divine sight Arjuna saw only arms, legs etc. and gods demi-gods, sages and demons all agog with terror. Even a modern writer like the author of the Vyahkatesa-stotra could imagine countless worlds penetrating space. Even Milton could think of worlds on worlds revolving. In spite of

stellar systems by far greater than the one with which we are familiar, planets other than the earth, -Saturn with its rings, comets with tails and the golden galaxy, the universe of Arjuna was narrowed down to three worlds. What are countless arms and other physical appendages in comparison with these marvels or even with such earthly phenomena as mountains, volcanoes and oceans ? Could the mutability and perishableness of the universe have been less impressive, had these grander images been pressed into service ? Arjuna could have seen worlds resolving into nebula and new worlds forming out of it. His attention is however confined to the traditional three worlds and their contents, to the sun and the moon, to the mythical gods, demigods and giants, to sages and serpents. He is struck dumb at this insignificant vision and bows in front, behind (?), and on all sides (?), and repeats his bows a thousand times and again and again. Throughout he talks like a driveller, and in very bad Sanskrit. The interlocutors and Vyasa are Hindus to their very tips. The whole vision is steeped in Hindu mythology and Hindu belief, whereas a vision of the universe ought to transcend all such limitations. It ought to surpass all the discoveries, past and future, of astronomy and other cognate sciences. It ought to be truth itself. Like the preceding chapter this too deals in fabulous matter. It moreover abounds in slovenly unclassical Sanskrit and in mistakes of grammar some of which have been pointed out above. It is a failure both in respect of style and vision and, along with the preceding chapter and a few others, appears immaterial. The first stanza of the new chapter seems to connect it with chapter ix or even with chapter vi.

The test of good poetry lies in renewal and increase of pleasure at every fresh perusal. But one is pained to state that the Gita does not satisfy this test. The imperfections by far out number the beauties.

It may be said that when a work is enshrined in faith and becomes an object of veneration to millions, it has a claim to be considered invulnerable and that faults of grammar, style and reason are impertinent. Such a view

is intelligible and deserves respect. Men of faith **would** and should ignore this criticism completely as I should be sorry to hurt their feelings. But when men take their stand on reason and not on faith and assert that the Gita has spoken the last word on ethics and that it is the best poem in the world, they lay themselves open to attack. These people ought to demonstrate that the defects shown in this paper are no defects, that the style is the most poetical style according to the most authoritative definitions of poetry, or that these definitions are wrong. Exigencies of verse is no excuse, for Sanskrit literature abounds in verse that is scrupulously correct and chaste. There is no reason why Vyasa should trip where, not to speak of Kalidasa and his compeers, even lesser artists have succeeded.

I must explain my own position. Our old writers did not scruple to write in the name of Krsna or Siva as the old Hebrew prophets spoke and wrote in the name of Jehova. They felt that God spoke to mankind through them, that they were mere transmitters of God's will. Inspired though they thought themselves to be, they could not transcend the limitations of their knowledge. Their ignorance and knowledge, their superstition and faith, the tradition and faith in which they had been nurtured came into play and left their impress on their work.

INFLUENCE OF ANALOGY IN SANSKRIT

BY V. S. GHATE

EVERY language, as it passes through the different periods of its growth, is seen to undergo a multiplicity of changes. Such changes consist not only in the addition of new words from different sources, or of new ideas due to a general progress in thought, but in altering the very form of the words already existing and their signification. Thus if we look to a language like English or Marathi, we shall see that the language as it is at present is quite different in form from what it was a few centuries ago, so that one knowing the Marathi of to-day, may not necessarily be able to read with equal ease, the Marathi of the 13th or the 14th century.

Such linguistic changes are found to be not merely accidental or whimsical, but governed by certain phonetic laws which can be established after a careful study of the different stages of a language, and a comparison of more than one language passing through a similar course. How and why such phonetic laws came to govern a particular language, it is difficult to say. As language is a mechanical product, the result of the particular vocal organism, a difference, of course qualitative, in the structure of the organism may lead to a difference in pronunciation, which, in the course of time, may substantially alter the form of the product. It is thus that different dialects come into existence. Race and climate may have their share in this work of change, but very generally, it is the desire for ease of utterance, the natural tendency to economize vocal effort, which accounts for it a good deal.

Such phonetic laws which belong to the so-called science of Philology, are not, however, laws in the sense in which, the laws of Mathematics and natural sciences are laws. In the case of the latter, you can predict with certainty the result that would follow, when you know the law holding in the particular case. The laws can never fail, as long as all the conditions and the qualifications required are

there intact. With language, however, the case is different. Every phonetic law has a large number of apparent exceptions. In the first place, any phonetic law is true only with a particular language, under particular environments of time and place. But, even in this limited sphere, the law fails us several times. Why is it so ? It is due to the very nature of language which these laws have to govern. In linguistic change there are not only physical elements, but psychological elements also. The mechanism which finally produces language is at first set into work by the human will. Thus there are always two factors, mutually opposed to some extent, that are at work in the development of a language. Phonetic laws, mainly relating to the physical element, tend to produce variety; but at the same time the psychological factor is at work, which tends to produce simplicity out of variety, of course as far as it is consistent with intelligibility. The less bound we are by tradition, the more free is the psychological factor, and the greater the scope for analogy. Thus the apparent exceptions to any particular phonetic law do not at all affect the truth of the law, but only tend to confirm it; since they can be explained as due to the other element, very generally by means of analogy. Analogy proceeds to work in some such way;—if there is a likeness of signification, why should there not be a likeness of form ? If there is a likeness of function, why should there not be a likeness of form ? Thus, if we have a word like *brother*, why should we not have words like *father* and *mother*, because all are equally words of relationship? . It must be noted here that the form '*brother*' is phonetically regular, while '*fader*' and '*mader**' would be the phonetically regular forms. But we have instead *father* and *mother* due to form-association with *brother*. If we have a form like *pduh*, why not also have *patyuh* and *sakhyuh*, since all the three words express relationship; though *pltuh* can be phonetically explained, while *patyah* and *sakhyah* should be the phonetically regular forms ? It is thus that analogy works to produce simplicity out of variety; it tends to the unification of the grammatical system, and the simplification of the mecha-

nism of speech. Thus to account for linguistic change, merely the doctrine of the strict order in phonetic development is not sufficient; it must be complemented by the doctrine of analogy. It is the object of this paper to illustrate the working of this factor of analogy from Sanskrit, to show how the apparent exceptions to certain phonetic rules are only due to analogy.

It may be said here that there cannot possibly be any scope for analogy as far as Sanskrit is concerned, because, since the time of Panini's grammar, supplemented by the works of Katyayana and Patanjali, every writer and speaker of Sanskrit has tried to conform as exactly as possible to the rules laid down; and that Sanskrit has ceased to be a spoken language in the full sense of the word, i. e. amongst the masses. So, there being no linguistic change possible, there is no scope for analogy.

So far the statement is true. But there is another point of view of looking at Sanskrit. If we look at the past history of the Sanskrit language, at the various stages as represented by the Vedas, the Brahmanas, the Upanisads, and the epics, we cannot but observe a gradual linguistic change going on. As a descriptive grammar of the Sanskrit language (i. e. a grammar which brings together and classifies all the grammatical facts of a language at a particular stage), Panini's work cannot be surpassed. But there are other kinds of grammar which are more interesting and valuable. A historical grammar of Sanskrit, for instance, regarding classical Sanskrit in relation to the Sanskrit of the Vedas and the epics on the one hand, and to the Prakrit dialects on the other hand, would testify to an immense linguistic change, and to the working of analogy. We can go still further and consider Sanskrit in relation to Avesta, Greek and Latin, which have been now conclusively proved to be sister-languages, at first so many dialects springing from the common parent, the Indo-German language (which has so far of course only a hypothetical existence). Thus in addition to a descriptive and a historical grammar, there can be a philological or comparative grammar of Sanskrit; and here there would be

even a greater scope for linguistic change and the working of analogy. For convenience's sake, I mean to restrict myself to this last sphere only; that is to say, I shall try to illustrate the working of analogy, in so far as Sanskrit is considered as one of the members of the Indo-germanic family.

It is now conclusively proved that the vowel *a* in Sanskrit sometimes represents an original *a*, e. g. Sanskrit *djati* is Greek *ayei*, sometimes an original *e*, e. g. Sanskrit *dsti* is Greek *co-rt*, and lastly an original *o*, e. g. Sanskrit *pdti* is Greek *irons*. Immediately connected with this phenomenon is another, viz. that the original yelar and labio-velar sounds are represented in Sanskrit sometimes by the velar (or guttural) and sometimes by the palatal sounds. Thus, Sanskrit *karkata* = Greek *KapKivos* and Sanskrit *yuga* = Greek *tyov*. But Sanskrit *ca* = Greek *re* = Latin *que*; and Sanskrit *jya* = Greek = Lithuanian *gija*. This difference in the representation in Sanskrit of the original *k*, *g*, *gh* sounds, i. e. sometimes as *k*, *g*, *gh*, but sometimes as *c*, *j*, *h*, is accounted for by the law of Palatalisation. According to this law, an original guttural is palatalised in Indo-Iranian, if it is followed by the vowels, *i*, *e*, or an *a* or *ā* which represents an original *e*, or the consonant *y*. Otherwise it remains unchanged, i. e. if followed by *u* or *o*, or an *a* or *ā* which represents an original *o* or *a* or any other consonant. It is this law which is at the root of the phenomenon of a mutual exchange of the gutturals and the palatals so often seen in the forms of one and the same root or stem. Thus, for instance, in the form *cakara*, the perfect 1st person singular of the root *kr* or *kar*, we see that the *k* is changed to the corresponding palatal *c* in the reduplicative syllable; so also in *jaghana*, we have *gh* in the original root-syllable, while we have *j* the corresponding un-aspirated palatal in the reduplicative syllable. And this difference of representation can be easily explained if we know that the vowel *a* in the reduplicative syllable represents an original *e* which is also the vowel of reduplication in Greek, and that the *a* in the root-syllable represents an original *o* which is the strong vowel cgrres-

ponding to *e*. A very striking illustration of this law is provided by the forms *hand* and *ghnanti*, the 3rd pers. singular and plural of the present of the root *han* which must have been originally *ghen* as shown by its representative in Greek *Oetlco*. In *hanti*, the original *gh* becomes *h*, i. e. is palatalised owing to the following *a* which was originally *e*, but in *yhnanti*, the original guttural holds its own, since it is no longer followed by a palatalising vowel.

But this phonetic law of palatalisation is often disturbed in its work by analogy. This law would naturally tend to produce a variety of forms, sometimes a guttural, and sometimes a palatal. But analogy would try to have a simplicity as far as consistent with intelligibility. Thus we find that sometimes the palatal uniformly takes the place of the guttural or vice versa. This is very often seen in declension and conjugation. Thus with the root *han* itself, we see that the forms *hatfiah* and *hatha*, for instance, have the palatal only on the analogy of *hanmi* and *hanti*, just to have a symmetry of form, though really speaking the *a* in the former forms is not an *e* but a sonant nasal *n*.

The declension of the word *vac* also illustrates the same phenomenon. The final of the root *vac* and of the noun *vac* is originally a guttural *k*, as is shown clearly by the forms *ukta*, *vaktum* in Sanskrit itself, and the forms *vox*, *vocis* in Latin. Thus the nominative singular form *vdk* is phonetically regular, since the guttural should hold its own before *s*, the case-termination. The forms *vacah* and *viici* are also phonetically regular, since the guttural should naturally be palatalised before the vowel *a* originally representing *c* and the vowel *L*. But the form *vacant* is phonetically irregular, since the original termination of the accusative singular is *m* which should become *a* after a consonant. So the proper form would be *vaka*, the guttural being preserved. But analogy works here in two ways. Because several forms before the vowel case-terminations show the palatal, why not have the palatal throughout, before all vowel-terminations? So we have *vacau*, *vacant*, and so on. *Vacant* instead of *vaca* is again due to analogy, Under the influence of the *a*-stems (e. g. *devam*).

So also the word *vacas* illustrates the same generalisation of the palatal at the cost of the guttural, when placed by the side of the corresponding word in Greek. Thus the nom. sing, *vacas* should be phonetically *vakas*, because it corresponds to ; the *a* following *c* is an original *o*, which is not a palatalising vowel. But this is due to the influence of the forms of the gen. and loc. sing, for instance, which are *ixicasah* and *vacasi*, and in which the palatal is phonetically regular, since the corresponding forms are end . The work of analogy in the present case is facilitated by the fact that the vowel-gradation in the stem before strong and weak case-suffixes, which existed in the original language and which is preserved in Greek in the present instance, is completely obliterated in Sanskrit since both the vowels *e* and *o* have come to be represented, by *a*.

There are also instances of a generalisation of the guttural at the cost of a palatal. The infinitive form *kartum* should be phonetically *cartum*; since the *a* after *k* is an original *e* ; but the guttural has got the better of the palatal, owing to the influence of a large number of forms like *krta*, *cakdra* etc., which show the guttural, though rightly. The old-Persian infinitive *cartanaiy*, however, shows the phonetically regular palatal. So also the forms *kah*, *kam*, *katara* connected with the interrogative pronoun show the guttural rightly, as is clearly shown by the parallel forms *ico-Oev* and *trerepos* in Greek, and *quo-d* in Latin. But the forms *kim*, *kiyant* and *kidrs* have the guttural, in spite of the presence of the palatalising vowel, only under the influence of analogy. The phonetically regular palatal is seen preserved only in the isolated particle *cid* which has escaped being overrun by the guttural, perhaps owing to its change of signification.

The final *a* of the word *snusa* cannot be explained except as being due to analogy. The corresponding words in Greek and Latin are *wis* and *nurus* leading to an original *musus* or *snusos*. The *a* in Sanskrit comes in only under the influence of the very frequent feminine ending *a*.

The form *tulayati* is regular, as is shown by the corresponding form *rekavibv* ; but it has also led to another form *tolayati*, on the analogy of the root *budh* leading to *bodhayati*. The real character of the *u* (which is not original, but which has come in secondarily in the same way as *turayati* from *tr*) was lost sight of, and it was confounded with an original *u*. So also the form *Sphotayati* from *Sphut* can be explained only as due to analogy, ' because the cerebral *t* in *Sphut* clearly shows that the *u* is not original but has come in the place of the *r* necessary for the cerebralisation.

The treatment of the Sanskrit *j* and *h* is very interesting. We find that these two sounds are found to behave in two different ways, especially at the end of roots, under similar circumstances. Thus, to take the two roots *yuj* and *yaj*, we have from the former such forms as *ydga*, *yuktd*, *yugvan*, *yoksyatl*; but from the latter, such forms as *yaj na*, *yajvan*, *yastave*, *ayat*. In the same way the root *duh* gives such forms as *dugdhd*, *su-dugha*, *adhok* ; while the root *lih* gives *lidhd*, *leha*, *alet*. Thus it is found that there are really two series : one, the original palatals (e. g. in *yaj* and *lih*) and the other, the secondary palatals derived from the original velars, which reassert themselves before certain sounds, like the *ta* of the past passive participle.

This distinction which is found in Sanskrit is also confirmed by the different representation of the two series in Avesta where *z* represents the original palatals *j* and *h*, while *g* or *j* represents the secondary palatals. Thus corresponding to Sanskrit *yajati* and *vafati*, Avesta has *yazulti* and *vazaiti*; while corresponding to *hanti*, it has *jaintL*. Now, many times in Sanskrit, the two series get interchanged under the influence of analogy; that is to say, the *h* of the old palatal series behaves as if it were of the secondary palatal series, and vice versa. Thus the root *muh*, the *h* of which is a secondary palatal, has not only the phonetically regular form *mugdha* showing the original guttural, but, by its side, it has also *mudha* on the analogy of *lidha*. On the other hand, the root *dih* the *h* of which is an original palatal, as is shown by the forms in Avesta (e. g.

daez, dista), has the form .*ligdha*, instead of the phonetically regular *dlalw*.

Before the hard consonants of the palatal, lingual and dental class, there is inserted, after a final *n*, a sibilant of each of these classes respectively, before which the *n* becomes *anusvara*. Thus *tan* + *tanftulan* gives *tanstandulan*. Now this insertion of a sibilant, which is regularly observed in classical Sanskrit, but not very often in the Veda, is not at all arbitrary, but it really involves a historical survival. In a large majority of cases, the final *n* is an original *ns*. Thus, for instance, the accusative plural termination of the *a*, *i*, and *u* stems was originally *ns* but afterwards, the *s* was dropped, conferring a compensatory lengthening on the preceding vowel. The same fact is confirmed by Greek, where we have accus. plu. of , afterwards becoming with the *v* dropped and the preceding vowel extended. The original *ns* is also proved by a peculiar Sandhi in the Veda, where a final *aw*, *in*, *un* or *rn* followed by a vowel is treated as if it were a nasalised vowel followed by a visarga. Thus, *mahan* + *asi* gives *mahan-asi*; *rasmin-iva* gives *rasminriva*. In classical Sanskrit, however, this insertion of a sibilant after a final *n* is almost generalised; that is to say, extended to those cases even where there is no historical justification for the presence of the *s*. Thus because we have *gacchan* + *tatra* = *gacchanstatra* (the original form being *gacchans*), we have also by analogy, *a-bharan* + *tatra* = *abfiaraiistatra*, or *kasmin* + *cit* = *kasminscit*, without any real reason for the *s*. This transference by analogy is facilitated by the fact that the original presence of the *s* was altogether forgotten, and the insertion of the sibilant was looked upon as only arbitrary, without any etymological reasons. Thus if we have it in one case, why not have it in other cases also, apparently similar?

A phenomenon of an external Sandhi is often transferred to an internal Sandhi, under the influence of analogy. Thus a final mute, when followed by a nasal, often becomes a corresponding nasal, instead of a corresponding soft unaspirate. Thus we have *tat* + *mama* = *tanmama**

The same is afterwards extended to forms like *anna*, *chinna* etc., where the *d* of the root becomes *n* before the following nasal; so also we have forms like *mrnmaya*; though otherwise, in similar cases of internal Sandhi, we have forms like *udnah* from *udan*, *vidma* from *vid*, *garut-mant* and so on.

Another illustration of a similar transference of external Sandhi to internal, is supposed to be provided by such forms as *havirbhih*, *mandbhih*, etc. The final *s* of *havis* and *manas* is treated as if it were a regular visarga at the end of a word; though, really speaking, the *s* ought to be softened before the following soft consonant; and the forms should be *havidbhih* coming from an original *havizbth* and *vianadbhih* coming from *manazbhih*. So also we should have *haviksu* and *manatsu*, as expected phonetically, but we have *havihsu* and *manahsu* instead. These may be regarded as instances of transference by analogy, but perhaps these forms may imply some historical survival too. It is held that most of the so called suffixes (of declension as well as of conjugation) were once independent words and were afterwards, by their constant association with other words, gradually knocked down into abbreviated suffixes. Thus the visarga in the forms above may be a survival of this fact. It is to be noted also that in the Padapatha of the Vedic texts, such forms as *havirbhih* are written with the mark *s* (avagraha) inserted between *havih* and *bhih*, implying that they are two members of a compound word. The designation *pada* (base) in such cases, may also have something to do with this.

Coming more particularly to declension, we have very interesting instances of the influence of analogy. The declension of pronouns has very much influenced that of nouns, and amongst nouns, the *a* and *n* stems have very much influenced the rest. The original instrumental singular termination was *a* not only with consonant stems, but even with vowel stems. Thus we have in the Veda forms like *yajna*, *mahitva*. But even in the Veda, and regularly in classical Sanskrit, the *a* stems have as a rule the termination *na* with the change of the final *a* of the stem to *e*. Now,

this is nothing but a case of transference from the pronoun, where the *na* is original, as we see from forms in the related language. Thus corresponding to *tena*, (or *tyena* in Veda), we have old Persian *tya-na*, Gothic *pan*. (This suffix *na* is very probably the same as appears, for instance, in Sanskrit *cana*, *vina*, *kuruta-na* (in Veda), or in Latin *pone*).

The forms of the Nominative plural of *a* stems like *devasah* by the side of *devah* which alone is found in classical Sanskrit, are also due to the influence of what is called the proportionate analogy. In the case of consonant stems, the nominative plural has an *as* in addition to the form of the nominative singular (the suffix *s* being dropped). So it might have been argued that just as the nom. sing, *rriarut* gives the nom. plu. *marutah*, so the nom. sing, *devah* should give *devasah*—[*marut*: *marutah* :: *devas* : *devasah*]. Or perhaps this may be a case of adding double endings ; as for instance, we have *mahatvata* in Veda, *children* in English, in Greek, or *dasya~tva*, often used in modern Marathi.

The accusative plural form of *a* stems may also be similarly explained, as being due to analogy. Thus *devah*, *devam*:: *devah* *idevan*; or it may be a case of compensatory lengthening as said above.

The Vedic instrumental plural of *a* stems is also influenced by other stems. Thus the original form should be, for instance, *devaih*, as is clearly shown by the Greek

but by its side we have *devebhih*, which is due to the analogy of *agnibhih*, *satrubhih*, etc.

The original genitive plural termination is *am* not only with consonant stems, but also with vowel stems, as is shown by the Greek and the Latin *deum*. But Sanskrit has instead *anam* for *a* stems, from which it is then transferred to *i* and *u* stems. In the Rgveda, we have only a very small number of examples of simple *am* instead of *anam*, like *caratam* for instance. Now this *anam* was transferred to *a* stems from the feminine *a* stems, which acquired it in the first instance from the *n* stems. Thus to take two words *atman* and *bala*, *atman* has forms

like *atmabhih*, *atmasu* and *atmanam*; the word *bala* has also *balabhih* *bcllasu*; then why should it not also have *Wlariam* ? Thus, *atmabhih*: *atmasu* : *atmanam* :: *balabhih* : *bfilasu*: *balanam*. And this transference by analogy must have been facilitated by the nominative singular forms *atma* and *bala*, which are exactly alike. Another reason must have been that the suffix *am* would give the form *balam* which can not be distinguished from the accu. sing. form. Afterwards it was transferred to *a* stems, probably owing to the similarity of form in the nom. plural. Thus, *balah*: *balanam* :: *devah*: *devanam*. In old Persian also, we have *baganam* from *baga* (= a god).

The neuter nom. plural of *a* stems is also influenced by the *n* stems. The original suffix is *a*, as shown by Vedic forms like *yuga* and Gothic *juka* and Latin *iuga*. But the *n* stems in the Veda had both kinds of forms like *dhama* and *dhamani*, which must have given rise to such forms as *yugani* by the side of *yuga*; and afterwards, as the *n* stems had only the regular forms like *riamdni*, the *a* stems also preserved only forms like *yugani*, the forms like *yuga* being completely lost. Afterwards the same was transferred to neuter stems in *i*, *u* and *r*.

The instr. sing. of the feminine stems in *a* is also influenced by the pronominal declension. The original form is found in Vedic Sanskrit, e.g. *asva* instr. sing. of *asva* (fern), corresponding to which we have also forms like *asvaya* in Greek. But later we have *asvaya* on the model of *taya*, which is probably the original form with pronouns, as appears from the corresponding old Lithuanian *taja* and old Bulgarian *tojat*.

The loc. singular *aivayam* was probably formed to distinguish the regular *asvai* from the dat. sing. which would also be *asvai*; and afterwards the forms *aivayai* and *asvayah* of the dat. and abl. sing. were modelled after *devyam*, *devyai* and *devyah*.

The instr. sing. forms of *i* and *u* stems are also modelled after *n* stems. Thus instead of directly adding *a* to the stem, we have forms like *agnina* and *satruya*, on the

analogy of *badina* and *ayuna*, from *balin* and *ayun* respectively.. Thus, *balibhth*: *balisu* : *balina* :: *agnibhih* : *agnisu*: *agninU*. This analogy was perhaps facilitated by some words which were both *i* and *in* stems.

The neuter stems in *i* and *u* are very much influenced by the *n* stems, before vowel-terminations. Thus we have forms like *varinli*, *vari'ne* and so on, exactly like *baline*, *balinah*. This transference was best facilitated by the identity of the forms for the nom. plu.; for we had already forms like *varim*, instead of the Vedic *vari*, which came to exist on the analogy of forms like *yugani*.

Nouns ending in *r*, like *pitr*, *micltr*, present a very interesting illustration of the influence of analogy. They were originally stems ending in *ar*, as is shown by the related languages. Thus Sk. *pitdr* « Gk. = Lat. *pater*; and several case-forms also agree in all these languages. But coming to the accusative and the genitive plural, we have in Sanskrit forms like *pitrsu* and *pitrtam*; whereas we should expect, as phonetically regular, *pitrah* and *pitram*, corresponding to the allied forms *iraripas* and *irarpav*. It was the similarity of the forms *pitrbhih* and *pitrsu* to *agnibhih* and *agnisu*, which must have brought this change. Thus, *agnibhih*: *agnisu* : *agnin*: *agninam* :: *pitrbhih* : *pitrsu*: *pitfn* : *pitfriam*. So also *matfh* (f.) was due the analogy of *matlh*; and *datrni* (neuter) was in the same way influenced by *varini*; until at last the original character of the stems as ending in *ar* was forgotten, and they were regarded as regular vowel-stems ending in *r*.

So also the nasal in the neuter nom. plural of *as* stems like *manas* is not original, but is due to the analogy of the stems in *mant* and of words like *pratyafic*, where the nasal is original. Thus *dhlmat*: *dhlmanti* :: *manas*: *manafhsi* (instead of *mariasi*); and then the nasal was further extended to nouns like *havis* and *caksus* which give *havimsi* and *caksumsi*.

Coming to conjugation we find that in Sanskrit *mi* is the termination of the 1st pers. sing, present, throughout all the conjugations, whether they have a thematic vowel or

not. But originally there was a distinction. The thematic verbs had *o*, while it was only the non-thematic verbs that had *mi*. Thus we have in Greek *φέρω*, Latin *fero*, Gothic *baira*, which should be in Sanskrit *bharā* instead of the actually existing *bharāmi*; (It is to be noted that this form in *o* is probably preserved in the Vedic subjunctive forms like *bravā* and the old Avestic *spasyā* corresponding to Latin *specio*); while we have *εἰμι* corresponding to Sk. *asmi* and Avesta *ahmi*. In Sanskrit, however, this distinction was lost, and *mi* was applied throughout, under the influence of some such analogy as—*dviṣmaḥ* : *dveṣmi* :: *bharāmaḥ* : *bharāmi*; or *dviṣe* : *dveṣmi* :: *bhare* : *bharāmi*.

So also the suffix of the 1st pers. sing. of the imperfect is *m* which should appear as a nasal consonant after a vowel but as a vowel *a* after a consonant. Thus in Greek, we have *ἔφερον* corresponding to *ā-bhara-m*; but *ἦν* (= *ἦρα* = *ēs-m*) which should be *āsa* in Sanskrit; but instead, we have *āsam*, only on the analogy of *ā-bharam*.

In the potential, *yā* and *i* are the suffixes added to non-thematic verbs before the strong and weak personal terminations respectively; thus we have in Greek *είν* (= original *er-in-v*) and old Latin *stem* corresponding to Sanskrit *syām*, in the 1st pers. sing. But in the 1st pers. plural, we have *είμεν* (= orig. *er-i-mēn*) and Latin *s-i-mus* which should correspond phonetically with *sima* in Sanskrit; but instead we have *syāma*. So also *τιθε-ιν-ς* corresponds to *dadhyāḥ*, but *τιθε-ι-μεν* should correspond to *dadhīma*, but instead we have *dadhyāma*. Thus the *yā* originally peculiar to the strong terminations is, in Sanskrit, extended to weak terminations also, on the analogy of the conjugation of thematic verbs, and because the personal terminations were found to be sufficient to distinguish one form from the other, without there being the necessity of any difference in the stem.

A similar tendency is seen, for instance, in the imperfect of the root *as* 'to be'. In the present, the original difference of vowel-gradation in the stem before strong and weak terminations is preserved. Thus we have, *ā-mi*, but *ἔ-μι* *ās-ti* but *s-anti*, just as we have with the root *i* 'to go',

e-mi but *i-mtiḥ*. In the same way, in the imperfect, we should have *as-am* (= *a + as-am*) but *a-s-ma* («*a + s-ma*), but we have instead *asma* ; that is to say, the singular has extended its form of the stem, throughout, on the analogy of the thematic verbs.

The Sanskrit root meaning 'to hear' is originally *sru*, which is preserved in *sruṭ*, *srdtum*, and the *u* also appears in Greek and Latin *in-clutus*. But the *ru* is changed to *r* in the conjugation. Thus we have *sryd-mi*, *sru-mdh* etc. One possible explanation suggested is that in the form , the original *ru* followed by an *u* in the immediately next syllable, (*sru.r.iu*) *mftt* have been at first changed to *r* by dissimilation, in order to avoid two syllables with *u*; and then this *r* must have been perhaps extended by analogy, to even the strong forms, which had *rio* instead of *nu*.

Another result of the influence of analogy is the phenomenon of the transference of roots from one conjugation to another. Thus the verbs *tisthami*, *pibdm*, *jighrami* must have originally belonged to the reduplicating class or the third conjugation, the roots being *stha*, *pa* and *ghra*. But as we have for instance *bhavami*, *bhavamciḥ*, *bhavasi*, so why not also have *tisthamah*, *tisthasi* ? And the change of the reduplicating syllable both in regard to the consonant and the vowel must have weakened their tie to the reduplicating class; and finally they came to be looked upon as belonging to the first class. In the same way, verbs like *krntati*, *muncati*, which originally must have belonged to the seventh conjugation, afterwards came to be looked upon as belonging to the thematic class. The same is the case with verbs like *cakas* and *jaks* which originally belonged to the reduplicating class (the roots being *kas* and *ghas*) but which afterwards were transferred to the second conjugation.

In Greek and other European languages, the vowel of the reduplication syllable in the Perfect is *e*. Thus we have in Greek *δέ-δορκα*, *κέκλιται*, in old Latin, *memordi*, *cevidi*. This *e* was phonetically represented by *a* in Sans*

kcrit. Thus, *dadarsa*, *jaghana*. Afterwards the original character of this *a* being forgotten, the reduplication-vowel became *a*, *i*, *u*, according as the vowel of the root was *a*, *i*, *u*. Thus if *han* gives *jaghan*, why should *nt* not give *ninl* or *su*, *sum* ? Thus the reduplication-vowel was regularly assimilated to the root-vowel. The original condition of the reduplication-vowel is preserved in the form *babhuva* (orig. *bebhuvā*) instead of *bubhuva*, and in the Vedic *sasUva* instead of the classical *susuva*. A similar assimilation is found in Latin also, e. g. *momordi* for *rnemordi*, *pupugi* for *pepugi*. The reduplication-vowel in the third conjugation was originally *i*, as is **mown** by *riBtim^tamifii* in Greek, and also by the Sanskrit forms *tisthami*, *jighrami* etc. But this was also subjected to the influence of the perfect reduplication and thus the reduplication vowel came to be assimilated to the root-vowel.

The perfect forms like *pecima*, *tenima* are apparently anomalous ; but can be explained as due to analogy. The change of the root-vowel *a* to *e* was phonetically just in the case of, for instance, *sedima* which was originally *sazdima*, (= *sa-s(a)d-i-7na*) the *a* suffering a compensatory lengthening, and the *z* being dropped. Compare, for instance, *edhi*, the imperative 2nd pers. sing, of *as*, which corresponds to *azdhi* in Avesta). So also in the case of *yemima*, the *e* is phonetically regular; for the form was originally *ya-im-ima*, *im* being the weak grade or samprasarana of *yam*. The original character of the *e* in such cases was, in the course of time, forgotten ; and then it was extended to forms like *tenima*, where it had no phonetic explanation. The Vedic form *paptima* instead of the classical *petima* testifies to the fact that this extension of *e* was a later result of the influence of analogy.

As regards the non-conjugational tenses, Sanskrit grammarians have a three-fold division of roots, *set*, *amt* and *wet*, according as an *i* is inserted or not or is inserted optionally between the stem and the personal terminations. There are hard and fast rules regarding this insertion of *i*. But the original Indo-germanic language does not seem to know this distinction, as appears from Greek, Latin and

even the Avesta. I-t is a question how this distinction came to exist and to occupy such a prominent place in Sanskrit. One explanation suggested is that the distinction must have at first started from the so-called dis-syllabic roots, which existed from the beginning, as distinguished from the mono-syllabic roots. Thus *iruta* and *sro-tum* arise from the root *irey* ; but *bhuta* and *bhavi-tum*, from *bheui* or *bhavi*. Thus the *i* naturally found its place in the case of these dis-syllabic roots. So from the root *jend mrjani* we have a perfect form *jajn-i-ma*, from the root *rude* or *rudi*, we have *rurud-i-ma*. This second vowel of the root is represented in Greek sometimes, as for instance, in , (instead of Afterwards, by analogy, the * was extended in Sanskrit to other roots which were not at all originally dis-syllabic. Thus we have,

jajna: *jajflima* *dadarka* : *dadrsima*
or, *rurodu*: *rurudima* andi *vavarta* : *vavrtima*,

although the roots *dri* and *vrt* are mono-syllabic. The same is the case with the aorist and the future. Thus with the root *jr* or *jari*, which is dis-syllabic, we have *a-jarisam* (ef. Greek and then the *i* was extended to other monosyllabic roots by analogy. In *vartiqyami*, the *i* is due to analogy only and is not phonetically just, the root being mono-syllabic. In the same way, the *i* in >the case of past passive participles and infinitives is to be explained.

The .s Aorist (6th variety) is a curious illustration of analogy. A root like *bhas* gave a form like *a-bhasi-mm* in the usual way; but later *bha* and *bhas* were confounded and the form *a-bhasisam* was taken to have come from *bha*. Then by analogy, the formation was extended to other roots ending in *a*, and we have such forms as *a-yasisam* etc.

A similar working of analogy is seen in the case of OAUSAIS in *p*, like *sthapayami*, *dapayami* etc. A root like *dip* gave in the regular way *dlpayati*, which was afterwards confounded as being the causal of another root *dl*. Then the *p*-formation was extended to other cases like *yapayamu*. The root *i* '* to go' gives not only *uyuyati* but *apayati*, due to

Some such analogy as *sthita: sthapayami: : ita: apayami*. Or perhaps the *p* causal formation may be due to a confusion of the denominative with the causal. Thus, for instance, from the noun *dlpa* 'a lamp' is formed the denominative *dipayati*, which was afterwards taken to be a causal from *di*, exactly in the same way as, from the nouns *pala* and *ghata* are formed the denominatives *palayati* and *ghatayati*, which were afterwards taken to be direct causals of the roots *pa* and *han*.

So far, I have adduced some of the instances from Sanskrit grammar which illustrate the influence of analogy, and these too I could not deal with exhaustively within the limits of an article. Many more instances can be added; but I think that what has been said so far, may be quite sufficient to give an idea as to what a powerful factor analogy is in the formation of a language, side by side with the working of phonetic rules. Its influence is too great to be neglected; and those who are daunted by the numerous exceptions to a phonetic rule and allow their faith in the science of language to waver will do well to remember this fact.

There is a good deal of literature on the subject of analogy; but in most of such works Greek and Latin play an important part, while Sanskrit has a subordinate place. In the comparative grammars of Indo-European languages the space for any particular language is necessarily limited; and as far as I know, analogy by itself with special reference to Sanskrit is nowhere treated. I hope, therefore, that this enumeration of some examples of analogy from Sanskrit, though brief and rough, will have its usefulness.

A PEOPOS DE LA RACINE LUBH

PAR A. MEILLET

T E dialecte de l'Inde sur lequel repose la langue du Rgveda est celui du Nord-Ouest, donc celui qui est le plus voisin de la région iranienne. Il veut la peine d'examiner si ce dialecte n'offre pas avec l'iranien certains points de contact.

Parmi les points de contact, le plus frappant sans doute est le traitement de Tancienne liquide indo-européenne l. Comme l'iranien, la langue du Rgveda ignore la liquide l, qui y est confondue avec r; par exemple, en regard du *linquo* 'je laisse,' le védique = *frtaAtfe*, et en face du gotique *film* 'beaucoup,' il a *purtl*.

Le parler d'autres régions de l'Inde avait conservé la distinction de r et de /; et le Sanskrit classique, qui représente un type védique employé par des hommes de régions diverses, a souvent introduit des formes avec /; par exemple, en lieu du latin *lingo*, le Rgveda a une racine *rih* (soit *riljd*), tout comme l'avestique a une racine *riz*; mais le Sanskrit classique a *lih* (soit *ledhi*) avec l, comme le latin, le grec, le germanique, le slave, l'arménien. C'est l'une des innovations, qui montrent le mieux le caractère composite du Sanskrit classique.

Si, dans une racine comme *rih*, qui avait r dans le Rgveda, le Sanskrit classique a introduit /, k plus forte raison on conçoit que / figure dans une racine inconnue du Rgveda. C'est ce qui arrive pour la racine *lubh*; cette racine ne se trouve pas dans la partie ancienne du Rgveda, on signale seulement une forme *lobhdyanti* de causatif dans le mandala x du Rgveda. C'est pour cela que cette racine qui commençait par / en indo-européen—qu'on compare gotique *Ijap* 'cher,' latin *lubet* 'il plaît',—existe en Sanskrit seulement avec l initiale. C'était une racine inconnue au dialecte du Nord-Ouest.

Il n'y a pas là un simple hasard: inconnue au Nord-Ouest de l'Inde, cette racine indo-européenne l'était aussi à l'iranien, où l'on n'en signale aucune trace. A la concor-

dance entre les tr a t t m m t i p h o n e " tiques de l dans l'Iran at dans le Nord-Ouest de l'Inde, s'ajoute ici une concordance du vocabulaire, qui inherite l'attention.

On trouverait sans doute quelques autres cas analogues a celui-ci. Par exemple, le grotpe de mets laksam laksma lakstm etc. n'a aucun correspondant coritftt en il est a peine represents dans le Rgveda swrtotit dtate ta parties anciennes; et le fait qu'il present l irtontee ge, dans le Rgveda, il appartient au petit nombre des erements empruntees a des parters autres que ceux da Nord-Onest.

Bien que Tiranien, d'une part, et les larigttes de l'Inde de Fautre, forment deux ensembles qui s'opposent flefctfe-ment, il semble done que, en une cestaitie mesufe, les parlars du Nord-Ouest, dont le Bgveda offre la forme ta plus ancienne, fournissent une transition entrfc Mindion et l'iranien.

A PROPOS DE L'ACCENT D'INTENSITÉ EN INDO-ARYEN

PAR JULES BLOCH

DANS un ouvrage sur *la formation de la langue marathe*, dont la guerre a retardé la publication,¹ je me suis cru autorisé à écarter de l'explication historique toute théorie phonétique fondée sur l'hypothèse d'un accent d'intensité.

Lorsqu'on examine l'évolution phonétique de l'indo-aryen, dans son ensemble, il est impossible de ne pas être frappé de l'analogie des altérations subies par les voyelles dans cette famille et dans la famille romane; dans les deux groupes, les voyelles finales des polysyllabes sont tombées, tandis que les pénultièmes ont subsisté; le timbre des voyelles intérieures s'est altéré. Or, en ce qui concerne le roman, on sait par quelques témoignages anciens, et surtout par la concordance universelle des divers dialectes modernes, que ces altérations ont été déterminées par un accent d'intensité pénultième, combiné avec un contre-accent initial; cet accent a succédé en latin à un ton ou accent de hauteur, dont la place dans le mot dépendait de la quantité des syllabes finales. Rien de plus naturel, semble-t-il, que de supposer qu'en moyen-indien aussi, il s'est développé un accent d'intensité remplaçant le ton védique disparu. Ainsi M. Bhandarkar (Wilson lectures, p. 152) écrit: "la syllabe pénultième est renforcée dans tous nos dialectes par un accent qui tend à faire allonger cette syllabe et à faire tomber la voyelle finale." C'est à peu près la formule romane.

Mais d'abord l'exemple du roman peut être trompeur. Les mêmes effets peuvent provenir de causes différentes: ainsi en scandinave la chute d'une voyelle finale peut suffire à déterminer l'allongement de la voyelle précédente,

¹ Toutefois la partie dogmatique, qui a servi de thèse du doctorat, a été communiquée à plusieurs amis; M. Turner en a même dès à présent discuté le chapitre concernant l'accent dans J. R. A. S., 1916, p. 203 et suiv.

et Ton sait que la chute des voyelles finales est un phénomène général, indépendant de l'accentuation. De même, en latin le ton seules a l'origine de l'abaissement des voyelles longues atones dans *Apollinis* *ancora*. *buttrum*, qui sont des emprunts aux formes grecques *'AiroWwos*, *ayyypa*, *ftovrvpov*.

De plus, outre que le détail des faits n'est pas entièrement comparable dans les deux groupes de langues, l'analogie est forcée dans le principe même. La place du ton en latin est déterminée par la quantité de la syllabe pénultième; le ton, et à sa suite l'accent roman, portent sur cette pénultième si elle est longue, sur l'antépénultième, si la pénultième est brève. En védique, au contraire, l'accentuation est indépendante de la quantité des syllabes et de la forme du mot; elle a une valeur non phonétique, mais grammaticale et sémantique. De ce fait, ou l'accent pénultième suppose du moyen-indien doit être considéré comme une innovation, et le rapprochement avec la famille romane s'évanouit; ou Ton est amené à compliquer la première hypothèse d'hypothèses subordonnées pour expliquer comment le ton védique à place libre a pu aboutir en moyen-indien à un accent à place fixe.

Dans ce second cas on voit se manifester entre les deux histoires qu'on prétend rapprocher une différence nouvelle et grave, lorsqu'il s'agit de l'accent: différence de clarté. Les règles de l'accent roman se découvrent aisément à la simple inspection des dialectes modernes; elles sont précises et simples, les effets en sont plus ou moins violents suivant les régions, mais ils sont constants. C'est ce qui se produit dans les langues comportant un accent d'intensité. Ainsi le simple examen du grec moderne révèle un accent prenant la place du ton ancien. De même, il est aisé de reconnaître qu'en germanique le ton ancien a cédé la place à un accent initial. Dans l'Inde, rien de pareil; les théories se contredisent et s'établissent mal; pas plus que pour la période ancienne, les faits ne sont établis, de façon sûre, pour la période moderne.

Il paraît donc prudent de s'abstenir d'alléguer des observations insuffisantes et contradictoires pour étayer

une hypothese hisforique qui n'est pas indispensable pour l'explication qu'elle pretend fournir.

Par contre, l'examen des faits contemporains meriterait d'etre repris, abstraction faite de tout prejuge historique, de toute construction theorique, et de facon independante dans les divers dialectes.

C'est aux indigenes qu'il faut, de preference, remettre le soin de cette enquee. Dans toute etude de linguistique descriptive, il arrive assez vite un moment ou l'oreille d'un etranger hesite, quand elle ne va pas jusqu'a l'induire en erreur, et dans l'etude de l'accent en particulier, les habitudes linguistiques d'observateur risquent de fausser gravement les resultats de son enquee. Si Ton a admis que le Sanscrit classique comportait un accent d'intensite, au moins dans les recitations modernes, ce n'est pas un hasard: ce sont deux Allemands, Haug et Biihler, qui ont fait les premieres experiences, et ils ont confondu les alternances de longues et de breves qui fournissent le rythme traditionnel du Sanscrit, avec des variations d'intensite; or les enregistrements phonographiques de recitations sanscrites n'ont donne aucune trace d'intensite: ceci ne fait que confirmer l'avis d'indigenes consultes. De meme, Sir George Grierson, dans une lettre qu'il m'a fait l'honneur de m'adresser jadis, supposait que les Anglais qui n'entendent pas d'accent dans les langues de l'Inde, sont trompes par le fait que l'accent ne s'y trouve pas comme en anglais, rapproche le plus possible de l'initiale.

On sait, d'autre part, que les appareils enregistreurs ne fournissent pas le moyen de noter l'accent, comme ils donnent, par exemple, la hauteur ou la quantite. L'intensite mecanique d'un phoneme depend de l'amplitude et de la frequence des vibrations; mais ce sont la des phenomenes qui varient suivant la hauteur et l'articulation meme du phoneme: ainsi pour un meme debit d'air une voyelle fermee est moins intense qu'une voyelle ouverte; pour un meme debit d'air aussi un son est d'autant plus intense

1 J'en avais fait l'observation avant la guerre " la formation de la langue marathe " p. 51.

qu'il est plus élevée. Du reste l'intensité m'acoustique, et même la perceptibilité auditive ne se confondent pas avec l'intensité telle que la sent le sujet parlant; elles y contribuent, mais il faut compter en outre avec les rapports prévus comme normaux entre l'intensité des divers éléments du langage pour un débit sans accentuation, et avec les alterations de ces rapports reconnus comme dépendants de l'accentuation. Ces appréciations délicates échappant à l'appareil mécanique, il est indispensable de s'adresser à l'auditeur averti.

Une première enquête s'impose: déterminer dans quelle mesure le phénomène, s'il se réalise, est conscient aux sujets parlants. Il ne faut pas s'attendre à trouver souvent chez eux une notion claire de l'accent; la plupart des grammairiens indigènes omettent même entièrement la question, mais le cas peut se présenter. Au témoignage de Sir George Grierson, le pandit Chotu Ram Trivedi connaissait l'accent, et lui donnait, "en *Bhasa*" le nom d'*udatta*; par contre un Panjabi cultivé, mais qui n'avait jamais réfléchi à la question, disait au même savant que l'accent chez lui s'appelait *dabau* "pression": il est vrai qu'un autre Panjabi consulte par moi ignore le mot dans cette acception. Enfin, en bengali, c'est (au témoignage de Mr. J. D. Anderson) *jor* "force", qui désigne l'accent, par opposition à *surer uthau o naman* "élévation et Tabaissement de la voix."

Du reste, à défaut de l'existence d'un terme plus ou moins technique pour le désigner, à défaut même de la conscience de sa réalité, l'accent peut être sensible de façon indirecte: en français ou il est à peine perceptible, il subsiste pourtant en ce sens que dans le débit normal, il apparaît comme fautif, s'il est mal placé: *épouvantable* paraît expressif, parce qu'exceptionnel: *épouvantable* avec un accent violent, apparaîtra comme emphatique, mais normal; *épouvantable* est nettement barbare. Autre fait: à Paris, dans le débit populaire, la pénultième s'allonge et devient plus intense: *quat(re) sous la livre*; dans le français provincial de l'Est, cet accent pénultième est bien marqué et courant; à un français normal cet accent paraît ridicule. Des faits de ce genre permettent de déterminer

Vexistence psychique et la place de l'accent. Il faut, de plus, s'attendre à trouver des perturbations d'accent dues à la place du mot dans la phrase ou à la valeur psychologique du mot de la phrase. Ainsi on sait qu'en bengali le début d'un groupe de mot reçoit à la fois un ton plus haut, une intensité plus forte et une quantité plus longue, indépendamment de toute intention rhétorique: *ar kasta barai na* : "n'ajoutez pas à mes ennuis." *Baara bhala katha*: "c'est une très bonne histoire" se prononce *Bawra bhala hatha*, inversement *kathata bara bhala*: "l'histoire est très bonne."

C'est la Vorigine du *Chi-chi English*, le défaut caractéristique de tout étudiant bengali, à ses débuts dans l'apprentissage de l'anglais.—Dans d'autres langues, l'accent, s'il existe de façon sensible, pourra être déplacé pour des raisons d'emphase: en français, le mot de valeur d'une phrase reçoit un accent initial, surtout s'il débute par une consonne occlusive ou spirante, (Rondet. *El. de phonétique*, p. 251) *peu d'ord, beaucoup, énormément*. On trouvera peut-être dans l'Inde des faits analogues; il s'agira d'en déterminer la généralité.

Enfin, si l'on sait observer sans se laisser guider—ou tromper—par une hypothèse historique préconçue, on s'apercevra peut-être que l'accent n'aura pas la même intensité et ne sera pas soumis aux mêmes lois dans tous les dialectes. M. Turner apporte (J. R. A. S., 1916, p. 212) une observation intéressante: les Gujratis disent que les Marathes chantent en parlant, tandis que pour un Marathe, le Gujrati a un débit saccadé. D'autre part Navalkar qui nie l'accent en marathe signale dans cette langue un ton initial qui pourrait bien s'accompagner aussi d'une faible intensité: *tettie rahave*: "il faut rester là"; il semble que le panjabi possède même un *staccato* à l'italienne: on prononce *calan* comme s'il y avait un *talid*, c'est à dire presque *callan* (communication de Sir George Grierson).

Il est en effet naturel de prévoir des divergences dans les différentes langues et même à l'intérieur de chaque langue, L'accent n'est pas un phénomène stable; ainsi le

ton indo-europeen avait disparu des la p6riode la plus ancienne du latin; plus tard l'intensite initiale du latin archaïque a cede le pas a un ton nouveau determine par la quantite des finales; ce ton du latin classique est devenu un accent, qui en francais devient insensible ou instable; enfin, en francais contemporain on assiste a la naissance d'une nouvelle accentuation encore mal definissable. Combien de variations ne peut-on pas s'attendre a trouver dans un pays ou l'indo-aryen ne s'est pas repandu partout a la meme date, ni avec la m8me rapidit6, et ou les langues qu'il a remplacees ont pu, en s'eteignant, laisser, comme il arrive constamment, des empreintes profondes sur le systeme phonetique de la langue nouvelle! Il n'est pas interdit de prevoir que Tetude de Taccent, menee de facon desinteresse et independante dans chaque region, peut servir non seulement a preciser ou rectifier nos notions sur Tindo-aryen medieval, mais a eclairer de lumieres indirectes Thistoire de la colonisation linguistique de TInde.

Kavya and Alahkara

DATE OF SŪDRAKA'S MRĀCHAKATĪKA

BY K. C. MEHENDALE

THE attempts hitherto made by distinguished Orientalists and Sanskrit scholars to settle the date of the *Mr̥chakatika*—of that kingly playwright Sūdraka—have resulted in more or less plausible conjectures. This is quite natural in consideration of the unsettled state of Indian chronology and the meagre and elusive data available from evidence both internal and external.¹ Pischel is said to have been once inclined to ascribe the play to Bhāsa; but later on he gave up this view in favour of a bold theory that Daṇḍin, the author of *Kāvyaadarśa*, wrote the play. The reasons adduced by him in support are palpably wrong. He has not correctly understood the passage² from the commentary of Pratiharendurāja on Udbhaṭa's *Kāvya-lankārasaṅgraha*, and he has quite missed the point of the learned and rather long drawn discussion introduced by Daṇḍin in connection with the well-known verse लिप्यतीव तमोऽङ्गानि वर्षतीवाऽङ्गनं नमः at *Kāvyaadarśa* iii. 226-234. Evidently Daṇḍin is here quoting the verse which many previous writers on *Alaṅkāra* were misled by the presence of the particle *iva* in regarding as containing the figure *Upamā*. Daṇḍin strongly controverts this view and conclusively proves that the figure in question is *Utpreksā*. Peterson³ asserted that the *Mr̥chakatika* belonged to a period when "people had begun to forget how to write good Sanskrit" and consequently Daṇḍin who quotes it cannot be a very old writer (*cir.* 6th century A. D.)

Prof. K. B. Pathak holds that the Prākṛit as found in the *Mr̥chakatika* is older than that occurring in the three dramas of Kālidāsa, and that therefore Sūdraka must be

1 Ind. Antiquary for March 1911, pp. 87-89.

2 Pischel's ed. of Rudraṭa's *Śṛṅgārātilaka* page 18, and Udbhaṭa's *Kāvya-lankārasaṅgraha* p. 26 (Nir. Sag. ed.)—अतः एव दृष्टिना लिप्यतीव..... निष्कलतां गता इत्यादिर्गभीकृतातिशयोक्त्यामेव स्वमेव महता प्रयत्नेनाप्यधावि.

3 Preface to *Dāśakumāracarita* part III, p. 7 (Bom. Sk. Series).

considerably anterior to Kalidasa. This view appears to be probable in the light of the accidental coincidence of the fourth distich of the *Mrcchakatika*, ix. 33, with the fourth distich of the Kalidasa's *Kumarasambhava*, ii. 32, (v: p-ftjffiftferaO- Of course it is hazardous to establish any case of borrowing on the strength of this isolated agreement. The custom of self-immolation as prescribed for the *sarva-hvira* sacrifice, the mention of the promulgators of the science of thieving, the description of the paraphernalia of burglary, the reference to the successful rescue of Udayana by his trusted and devoted minister Yaugandharayana, the Indramakha festival, the Ratna-sasthi fast and vow observed by Dhuta, the four modes of ordeals, the law-giver Manu quoted, the representation, on the stage, of sleeping and strangling in direct violation of the rules of Bharata, the use of the technical terms of gambling together with the employment of the words

the exact signification of which has been lost and which have gone out of vogue, the flourishing state of Buddhism and the attitude of tolerance towards it, a Brahman allowed to take a Sudra as a lawful wife unto himself—a practice strictly prohibited in the Kali age : all these facts in their cumulative effect easily lend themselves to establish the antiquity of the play. Messrs. Raddi Shastri and Paranjpye, in the Introduction to their edition of the play, have assigned it to the first century before Christ.

Lovers of Sanskrit cannot but be grateful to Mr. T. Ganapati Shastri, Curator of Sanskrit Manuscripts in the Palace Collection, Travancore State, to whom belongs the credit of bringing to light the plays of Bhasa till then regarded as irrecoverably lost in the abyss of time. It is an undoubted fact that the *Charudatta* formed a unit in the of Bhasa. It is referred to by Abhinavagupta (dr. 1000 A. D.) in his *Natyavedavivrti*. Abhinavagupta, while commenting on the 13th stanza of the 19th chapter of Bharata's *Natyasastra* alias *Natyaveda*, says¹—

1 This commentary, the *Natyavedavivrti*, is still unpublished; and I owe this quotation to the kindness of Mr. T. Ganapati Shastri,

सर्वस्येव हि कार्यस्य प्रारब्धस्य फलार्थिनः

एता अनुक्रमेणैव पञ्चावस्था भवन्ति हि ॥

ननु मानुषव्यापारे नायकस्य तत्सचिवादेवा भवन्वेता अवस्थाः प्रतिनायकेऽप्येकम् तत्र परमसदुपायपेक्षया यत्र तु दैवायतं फलं वर्धते तत्र कथम् । न च वर्ज्यतां पुरुषकार-मात्राभिमानिनां दैवमवजानानां चार्वाकादिमतमेयुषां सः । दैवबहुमानव्युत्पत्तये हि पुरुष-कारोऽप्यफलस्तदभावोऽपि सफलः प्रदर्शनीयः । अत एव दरिद्रचारुदत्तादिरूपकाणि तद्वि-षयाणि । तस्माद्दैवायत्तत्वे कथमेतदवस्थापञ्चकं तत्परिहर्तुमाह सर्वस्यैव हीति । दैवादा-गच्छतोऽपीत्यर्थः । तत्राऽपि हि यद्यप्यभिनायको न वर्तते तथापि यत्र फलं भवति तत्राव-श्यमवस्थाभिर्भाव्यम् । स एव च परं फलेन तदानीमर्थी भवति यमर्थमधिकृत्य प्रवर्तत इति हि प्रयोजनलक्षणं वदन्ति ।

The *Cārudattu* printed in the Trivendrum Sanskrit Series is evidently a fragment, though the remark अवसितम् appears in the colophon of one Ms. A reference to the *Sarasvatikanṭhābharapa*¹ (cir. 1050 A. D.), *Pariccheda* v, stanzas 599-600 shows that Bhoja is quoting from a work and that too a drama in which Viṭa is addressing Śākara. The passage of similar import from the *Mṛcchakaṭika* deserves being placed side by side for the purpose of useful comparison. Moreover the following passages from the *Cārudattu* unmistakably shadow forth matter for further acts of the play which Bhāsa must have woven into it—

- (a) पापं कर्म च यत् परैरपि कृतं तत्तस्य सम्भाव्यते (चा० i. 6);
- (b) संवाहकः—(स्वगतम्) गिउणं खु पञ्चाचक्खिदो णि । को हि गाम अपणा किदं पञ्चअआरेण विणासेदि । (*ibid.* ii p. 44);
- (c) सज्जलकः—नरः प्रत्युपकारार्थी विमत्तो लभते फलम् ।
द्विषतामेव कालोऽस्तु योऽस्या भवतु तस्य वा ॥
(*ibid.* iv. 7);
- (d) गणिका—भगेहि अत्तं जदा अय्यचारुदत्तो अभिसारइदध्वो तदा मण्हेमि ति ।
(*ibid.* iv. p. 71);
- (e) गणिका—एहि इमं अलंकारं गण्हिअ अय्यचारुदत्तं अभिसारिस्सामो ।
चेटी—अज्जए तह । एदं पुण अभिसारिआसहाअभूदं दुट्ठिणं उण्णमिदं ।
(*ibid.* iv, p. 86).

1 Page 740, ed. Jibananda—

भान्यः कलत्रवान् मुक्तविभवो गुणवान् विटः ।

स तथा—

अकार किं प्रार्थनया प्रादारेण विभेज वा ।

अकार्यवर्जं मे ब्रूहि किमसिद्धं करोमि ते ॥

Cf. *Mṛcchakaṭika* (Bom. Sk. Series), p. 340—विटः । नारु करोमि वर्जयित्वा स्वकायम्.

47 [Bhandarker Com. Vol.]

It also deserves to be noted that the *Carudatta* is not wound up with the usual concluding benediction. Thus we can infer that Bhasa must most probably have completed the *Carudatta*. Or perhaps the copy of the *Mrcchakatika* which Bhoja used might have contained the passage referred to above in place of the correspondidg reading in the editions of the *Mrcchakatika*. But the latter alternative seems to be unlikely in as much as even the two Mss. E and K, which hailed from Saugor and Jeypore,—Central India—and on which the late Mr. N. B. Godabole relied for his edition of the *Mrcchakatika*, contain no trace of that reading. In this connection it also deserves to be mentioned that the *Saras v* at Jkanthabharana reads the 22nd verse of the *Mrcchakatika* Act viii. as—

पलिचले लम्बदशाकलाभं पाथालभ शुतशदेहि छतं ।

मंशञ्च खादु तुह तुहि कादु वकुवकुवकुचुकुवकुसि ॥

and that this reading is not found in the editions.

From the considerations set forth above, it would not be unsafe, in the present state of our knowledge, to conclude that the *Carudatta* of Bhasa was the original which Sudraka worked up into his *Mrcchakatika*. It is, however, an unfortunate circumstance that the *Carudatta* has been recovered only in part and that we are thus left in the dark in respect of the full and adequate material which otherwise would have been available to us from the remaining portion of the *Carudatta* for settling the *terminus a quo* of the *Mrcchakatika* and incidentally furnishing additional data for determining the much discussed date of Bhasa himself.

The *terminus ad quern* for the *Mrcchakatika* is settled by the following passages from the *Avaloka*¹ of Dhanika—

(a) विप्रादीनां शांततैव न ललित्यम् । यथा मालतीमाधवमृच्छकटि
कादौ माधवचारुदादिः ।

(b) यथा वा—मल्लशतपरिपूतं गोत्रमुद्रासितं यद् etc.

(c) कितवधूतकारादिधूर्तसंकुलं तु मृच्छकटिकादिवत्संकीर्णप्रकरणम् ।

(मृच्छ० x. 12).

This Dhanika was one of the literary circle at the court of Parmar Munja of Malva (A. D. 974-995).¹ Dhanika thus belongs to the end of the tenth century, which is thus the later limit of the Mrcchakatika. The earlier limit is however not so easy to settle. Vamana² (cir. 775 A. D.) in his Kavyalankarasittravrtti supplies two quotations which have an important bearing upon this line of inquiry—

- (a) यासां बलिर्भवति मद्ब्रह्मदेहलीनां
हंसैश्च सारसगणैश्च विलुप्तपूर्वः ।
तास्वैव पूर्वबलिस्तदयवाङ्मुरासु
बीजाञ्जलिः पतति कीटमुखावलीढः ॥
- (b) द्यूतं हि नाम पुरुषस्याऽसिंहासनं राज्यम् ।

The first quotation appears in a modified form in the Mrcchakatika Act i.; but it rather agrees more with Bhasa's Carudatta, Act i. 2. The second occurs in the Mrcchakatika Act ii. but, strangely enough, it is not found in the Carudatta. These facts, taken in conjunction with Vamana's remark³ that the works of Sudraka and others supply copious illustrations of the artistic characteristic of composition called Slesa, clearly lead to the conclusion that Sudraka was, in the latter half of the eighth century already known as an author with a recognised place in the realm of letters. From the way in which Vamana is giving the above quotations it appears quite probable that Sudraka must have written the Mrcchakatika. Except the latter drama and a solitary verse⁴ no other work of Sudraka is as yet known to the Sanskrit world of letters.

Having established so much let us see if we can possibly derive any further light to help us in this investigation from Bana's Kadambari and Harsacarita. It is significant that Bana in the introductory verses prefixed to the

1 Ind. Antiquary xxxvi, pp. 168-170 and J. R. A. S. xv, 175.

2 Nir. Sag. ed. pp. 60 and 56.

3 Ibid. p. 38—सुद्रकादिरचितेषु प्रबन्धेष्वस्य सुयान्त्रपथो दृश्यते.

4 No. 1271, Vallabhaddeva's Subhāṣitāvalī—स्वामी हि सर्वव्यसनानि हन्तीत्य-
लीकयेतऋषि संप्रतीतम्. ज्ञानानि सर्वव्यसनानि तस्यास्त्यागेन मे मुग्धविलोचनायाः ॥ सुद्रकस्य.

Harṣacarita eulogizes Bhāsa the dramatist, and omits Śūdraka. It is well known to Sanskrit scholars that the basis of Bāṇa's Kādambarī is the Bṛhatkathā of Guṇādhya, of which there exist two faithful and independent renderings in Sanskrit: the Bṛhatkathāmañjarī and the Kathāsaritsāgara. Bāṇa, in writing his masterpiece of romance, has changed the name of the hero of the original Kathā from king Sumānasa (or Sumanasa) of Kāñcanapuri to king Śūdraka of Vidiśā. Now is this substitution haphazard or deliberate? Bāṇa in his Harṣacarita¹ mentions a Śūdraka one of whose emissaries deprived Candraketu the lord of the Cakoras and his minister of life. This information does not help us; so is the case with the hero of the Kādambarī where he is described as the fountainhead of all polite arts and as a sovereign possessing all the advantages of power and position,—no reference or indication is however given as to his authorship or as to his being blessed with a son. This description evidently savours of being technical and stereotyped. The dynastic lists given in the Purāṇas and collected by Mr. F. G. Pargiter make no mention of any Śūdraka. Kṣīrasvāmin² (cir. 1075 A. D.) while commenting on Amara ii. 8. 2 gives a list of Cakravartins among whom the following names occur—

विक्रमादित्यः साहसिकः शकान्तकः ।

शुद्धकस्त्वभिनित्रो वा हलः स्याच्छालिवाहनः (v. l. सातवा०) ॥

In the commentary on the Vākyapadīya of Bhartrhari a king Śūdraka is mentioned—लोकेऽपि राजपुत्र इत्युक्ते कस्य राज्ञः शुद्धकस्येति प्रश्नोत्तरयो राजपदार्थप्रविभागः etc. The author of the commentary Hṛdayaṅgamā, while commenting³ on Daṇḍin's Kāvyaśārṇā i. 15 makes mention of a Śūdraka: सदाश्रयम्—हर्षशुद्धकोदयनादिसत्युल्लसमाश्रयम्. A Śūdraka (v. l. Śūdrka), whose life was written conjointly by Rāmila and Somila, is mentioned by Rājasekhara.⁴ All these references go to

1 Harṣacarita, p. 270 (Bom. Sk. Series).

2 Mr. G. K. Oak's ed. of Amarakośa with the commentary of Kṣīrasvāmin, p. 122.

3 Kāvyaśārṇā, ed. by Prof. M. Rangacharya, p. 14.

4 R. G. Bhandarkar's Report on the Search for Sk. Mss., 1887-81, p. 1.

prove that a great king named Sudraka was known to old Indian tradition, which information is already vouched for by the writer of the Prelude to the *Mrcchakatika*. There Sudraka is said to have lived for one hundred years and ten days. The *Ain-i-Akbari* of Abdul Fazal mentions, among kings of Bengal, a king of the Khatri caste named *Sadhrak* whose reign lasted for 91 years.¹ Abdul Fazal assigns 2418 years to the reigns of 24 Khatri princes of Bengal 'who kept aflame the torch of sovereignty from father to son in succession.' All this is on its very face unhistorical. The other items of information about Sudraka given in the Prelude are that he was a Ksatriya par excellence, that he performed the horse-sacrifice which involved him in many hostilities, and that he possessed boundless and resourceful energy (*aflimwr*). The writer of the Prelude has used the Perfect in describing Sudraka. The latter must therefore have lived a considerable time before him. In the present state of our knowledge it is very difficult to exercise reservation in the matter of accepting such information. It may be that Sudraka may have, for ought may turn up to the contrary, come upon the swelling tide of the vigorous Brahmanic revival so gloriously inaugurated by the Gupta emperors. The *Rajatarahgini* mentions a Sudraka who was distinguished by eminent courage and energy.² Kalhana appears to regard him as coming after Vikramaditya. It is very difficult to say exactly who this Vikramaditya is. The contemporaneity of Matrgupta, Pravarasena II, Mentha (or Bhartmentha) and Vikramaditya, indicated by Kalhana, and reminiscences of which are preserved in Sanskrit literary tradition, makes it highly probable that this Sudraka may have lived about 550-600 after Christ, the second well-known blank in Indian history. This literary tradition is preserved in the anthologies of Jalhana (cir.

1 The *Ain-i-Akbari* of Abdul Fazl translated by Col. H. S. Jarrett, Vol. II, pp. 144-146.

2 *RSjatarangini* (Bora. Sk. Series), iii. stanza 343—

13th century), Sarhghadhara and Vallabhadeva. The verse-

लिम्पतीव तमोद्गानि वर्षतीवाञ्जनं नमः ।

is ascribed to Vikramaditya by Jalhana and Vallabhadeva» while in the Samgadharapaddhati it is ascribed to Vikramaditya and Mentha jointly. The verse occurs in the Balacārīta and the Carudatta of Bhasa, and consequently the amusing mess of the anthologists and the conjectures of Pischel may be safely passed over.

It may thus be seen that the Mrcchakatika of Sudraka had not attained that degree of celebrity in the time of Bana which would merit a necessary and complimentary reference to it in the beginning of the Harsacarita. It may also appear that before the Paicatantra in its two recensions was compiled, the Mrcchakatika had already been a popular work. In Pancatantra I, the 14th and the 15th stanzas of the Mrcchakatika Act iv are reproduced. Also the 90th stanza in Tantra II is a reproduction of Mrcchakatika iii. 25. The Pancatantra in its present form cannot be earlier than Damodara Gupta's Sambhallamata (cir. 775 A. D.) and Rudrata's Srrigaratilaka (cir, 850) in as much as the stanzas **पर्यङ्कः स्वास्तरणः** (799) and **सार्धं मनोरथशतैस्त्व धूर्तं कान्ता** (i. 41) occur in Tantra I. 174 and Tantra IV. 8 respectively. So long as the remaining portion of the Carudatta of Bhasa, viz. from the fifth act to the conclusion, remains unrecovered, it may not be of much avail to interpret and discuss for the purpose of this paper the evidence supplied by the judicial astrology, the court-trial and the state of Buddhism in the Mrcchakatika. Provisionally we may assign Sudraka to the middle of the sixth century after Christ.

THE MAKING OF THE SANSKRIT POET

BY F. W. THOMAS

THE Sanskrit rhetoricians have, as is well known, their profound or subtle theories of the nature of poetry; and these, of which the most interesting are concerned with the ideas of *citra*, *dhvani*, and *rasa*, will no doubt be treated in due time in the promised work of Professor Jacobi. A simpler matter, the training of the poet, I propose here to illustrate by a handful of citations, which I have put together from the works of various writers on *Alahkara*.

The limitations of the study of poetics as a means to the production of poetry are clearly recognized by Dandin (*Kavyadarka*, I. 103-5)—

" Both natural fancy and much reading, free from error,

" Also tireless application, are the source of this perfection of poetry,

" Though there be wanting that wondrous fancy.

" Consequent upon a quality of antenatal impression,

" Yet speech, when courted with learning,

" Infallibly grants at least some gratification and effort.

" So away with sloth, let SarasvatI ceaselessly

" With labour be courted by those who would win fame.

" Men who have laboured even upon a slender gift

" Can take part in companies of bright spirits. "

This distinction of natural genius from culture, without depreciation of the latter, reappears in most of the rhetoricians, who commonly employ the three terms *pratibha* * fancy ; *vyutpatti* ' culture', and *abhyasa* ' practice '. Rudrata adds something of his usual precision (*Kavyalahkara*, I. 14-20)—

- " In the making of this (poetry), charming through rejection of unessentials and adoption of essentials,
- " A triad is employed, namely faculty, culture, and practice.
- " That whereby there is constantly in the concentrated mind a flashing of ideas in various ways,
- " And unlaboured words present themselves, is faculty.
- " ' Fancy,' so named by others, it is twofold, natural and created:
- " From being born with the man the natural is the higher of the two :
- " Since only as a means to its own development it seeks the secondary,
- " While the created is somehow produced through culture as a primary.
- " Through knowledge of metre, grammar, arts, the world, words and meanings,
- " Discrimination of suitable and unsuitable, this briefly is culture.
- " At large what is there that it is not ? In this world no matter, no expression
- " But may be an element in poetry. Hence it, this second (culture), is omniscience.
- " Having acquired all that is knowable under a good poet, a good man, only,
- " Night and day let one having 'faculty' practise with appreciation poesy."

V&mana's directions (*Kavyalankara-vrtti* I I . 1 sqq.) **are** to the same effect : but, as they include some further details, partly of a quaint character, we need not scruple to **adduce** them here—

- " Elements of poetry **are** the world, **the soienes**, and miscellaneous.

- " The world is worldly usage.
- " Tradition of words, lexicology of meanings, metre, doctrines of the arts, and of love, politics and so on are the sciences.
- " From tradition of words comes word-suggestion.
- " From lexicology of meanings comes certitude of the import of words :
- " Since what is not allowed is not allowable.
- " From metre comes decision of metrical doubt.
- " From doctrine of arts, realization of the essence of the arts.
- " From doctrine of love, (realization) of the procedure of love.
- " From politics, (realization) of policy and impolicy.
- " Also therefrom comes ingenuity of incident.
- " Miscellaneous are perception of aim, application, attendance upon seniors, trial, fancy and attention.
- " Perception of aim is acquaintance with other poets.
- " Application is exertion in composing poetry.
- " Attendance upon seniors is listening to those who are authorities in teaching poetry.
- " Trial is adoption and rejection of words,
 - [Cora. To this effect there is the verse—
 - " So long is there adoption and rejection, while the mind wavers :
 - " Once settled tho word's retention, straight Sarasvati's work is perfect.
 - " When the words are beyond suffering replacement,
 - " The expert in wording call that word-ripeness. J
- ** Fancy is the seed of poesy.
- " Attention is concentration of mind.
- " This is by means of place and time.
- " The place is solitude,
- " The time the fourth watch of the night".

Vamana's commentary does not appreciably amplify this scheme, which, especially in the particularization of time and place, is sufficiently definite, without, however, going counter to the dictates of nature. No doubt there are nigRt poets and morning poets : whether the former or the latter are meant, perhaps Vagbhata (see below ' early hours ') may help to decide.

It is, however, the Jaina writers who let us participate most particularly in the secrets of the poetic studio. I commence with the two Vagbhata's and end with Hem-chandra, who gives the fullest directions.

The author of the *Vagbhalalahkara*, son of Soma, (first half of the 12th century) expounds as follows (I. 3 sqq.) :—

" Cause thereof (/. a. of poetry) is fancy, and culture its adornment.

" Application effects its abundant outflow—so the saying of the old poets.

" Furnishing suggestions of tranquil words and adaptation of new matter,

" The flashing thought of a good poet is fancy, towards every point alert.

⁴⁴ Unusual intelligence, based upon instruction in the doctrines

" Of words, morals, action, love and so forth is termed culture.

" Incessant devotion to poetic composition under a senior

" Is known as practice : thereof we expound some little of the procedure.

" By a string of words having charm of composition, but void of meaning

" One should master in view of poesy the metres one and all.

" Afterwards comes weight through combination, non-omission of *visarga*,

⁴⁴ And avoidance of failure *oisandhi*, these being causes of charm of composition. (*Illustration follows.*)

- " If, owing to inexperience, adaptation of new matter fails to present itself,
- " One should practise even in conversation the art of giving form to meaning. *{Illustration follows.}*
- " Composing another's matter would also be practice in poetic usage:
- " It is not advisable, since thereby the poet becomes a thief.
- " However, in *samasya* (verse-filling) a taking of another's poetry may be a merit in a poet:
- " For he makes new matter joining on thereto.
- " Tranquillity of mind, fancy, early hours, application,
- ⁴⁴ Insight into various Sastras—these are the cause of sense-inspiration.
- " With a view to detail of the subject to be described let him acquire readiness in combining it
- " With attributes or with sentences, such as similes etc. in the second half. "

The author suggests practice in the arts of expansion and compression, and notes certain conventions relating to the Sanskrit language and the usage of the poets (*kavi-saftgati*).

The other Vagbhata, the son of Nemikumara who belongs to the 14th (?) century, in his *Kavyunsumna* gives to the poetic conventions (' absence of flower and fruit in the Asoka tree ', ' opening of the blue lotus etc in the daytime, ' darkness that can be handled ', ' whiteness of fame and laughter, ' etc.—things affirmed or ignored without regard to fact) the prior place, and then proceeds to the actual training. His matter being identical with that of Hemachandra, an earlier authority to whom we hasten, we give only his brief text without the explanations and examples in his commentary (I., page 12 of the edition in the *Kavyamala* 43).

" Training is ' shadow-dependence' upon the poems
 " of great poets, sometimes by way of 'imaging,'
 " sometimes by way of ' copy-sketch,' sometimes by
 " ' corporeal resemblance,' sometimes by ' foreign-
 " city-entrance ' likeness—these in progressive sequ-
 " ence ; dependence in one line, two, three ; depend-
 " ence in sayings ; verse-filling and word-replacing;
 " practice with meaningless words and so on.

" Among these ' imaging' is where the sense is the
 " same, but the form, by different expressions, is
 " other.

" ' Copy-sketch' is where with only a certain
 44 amount of difference there is an appearance of dis-
 " tinction of the one from the other.

" Where even with difference of subject there is,
 " owing to extreme similarity, an impression of
 " identity, that is ' corporeal resemblance.'

" Where the poem's actual capital is one, but the
 " garnishing is widely different, that is ' foreign-city-
 " entrance' likeness."

Hemachandra, the celebrated Jaina polygraph (12th century A. D.), whose Kavyanusasana with his own commentary has been published, like the works of the two Vagbhata, in the Kavyamala series (No. 71, Bombay, 1901), commences with ' fancy ' (*pratibha*), ' culture ' (*vyutpatti*), and ' practice ' (*abhyasa*), and then goes on to deal with ' training' (*iiksa*), pp. 8 sqq.—

" Non-mention of even the actual, mention of even
 " the not-actual, restriction, dependence in the form
 " of 'shadow and so on,' etc., are the trainings.

" *Of even the actual : i. e., of genus, substance,
 " quality, action, and so on, non-mention. Of even the
 " not actual: i. e., of genus and so on, as before men-
 " Hon. Restriction : i. e., confining to one application
 " a more widely applicable genus and so on. ' Shadow-

" *dependence*" by way of a sort of ' imaging," painted
 " copy-sketch,' ' corporeal equivalence,' ' foreign-
 " city-entrance ' likeness. In virtue of the *and so on*
 " dependence in word, line etc., as may seem proper,
 " upon another poem. In virtue of the *etc.*, filling-
 " up verses and so on. These are the trainings,"
 from Commentary (omitting illustrative verses):—

" *Shadow: i. e., of the sense. .Dependence thereupon is*
 " in some oases *by way of imaging . . . as is said—*

" Where the sense is the same entirely, but the
 setting is in other expressions,

" That poem, not fundamentally different, would
 be a sort of ' imaging.'

" In some cases by way of ⁴ copy-sketch ' . . . as is
 said—

" Through a moderate elaboration of particulars
 a subject appears as if different;

" Such a poem is by experts in the matter termed
 a 'copy-sketch.'

" In some cases by way of ⁴ corporeal equivalence *
as is said—

⁴⁴ Where despite difference of matter identity is
 apprehended through extreme resemblance,

" That poem, similar by' corporeal equivalence,'
 even clever men compose.

" In some cases by way of ⁴ foreign-city-entrance '
 likeness. as is said—

" Where there should be substantial identity, but
 the garnishing is widely divergent,

" That poem, similar by ' foreign-city-entrance ',
 may be enjoyed by good poets,

" And of these four the superiority is in ascending
 order.

The commentary then proceeds to illustrate the borrow-
 ing of a word, a line, two lines, three lines, but would not
 allow four lines (a whole verse), which it describes as

complete theft. It then deals with the borrowing of part of a word, and of a phrase or saying (*ukti*), and continues:

" Should it be apprehended that this (borrowing of a phrase or saying) should not be advised, since they say—

" ' By lapse of time a man's other thefts may pass;

" ' Word-theft passes not away even to sons and grandsons.'

" This is met by the * as may seem good' of the text.

" ' This man is unknown, I am known,' ' This man is without position, I have position,' ' The putting forward of this is inappropriate in him, appropriate in me,' * This man's words are like tonic (*guduci*), mine are like wine ' (*i. e.*, our style and aim are different), ' This man disregards the specialities of dialect, I regard them,' ' This is obsolete, ' * This had a foreign author,' 'This has a worn-out subject ' (or ' occasion '), ' ' This was composed by a mere barbarian '—for these and such reasons you may acquiesce in word-plunder and matter-plunder, so says Avantisundarl. And they say—

" ' No poet-person but is a thief, no trader-person but is a thief :

" ⁴ Without reproach he thrives who knows how to conceal.

" * One poet is a creator, an adapter another,

" * A coverer-up another, a developer.

" * Whoso here in word, sense, saying, should discern somewhat novel,

" * And copy something old, be he looked upon as a great poet. ' "

We then proceed to deal with *smnasya* (filling-up verses), and the conventional ideas of poetry in detail.

The last part of this extract brings us close to the subject of plagiarism, that penumbra of literary craft. Literature, being a traditional, social, and developing art in

which the new has to incorporate somehow and to imply the old, must always include this debatable borderland. It might be interesting to classify the cases, psychologically, ranging from unconscious suggestion, positive and negative to habitual harpyism and careers which are 'one long appropriation clause,' or according to the object appropriated, word, idea, quotation, use of a metre, subject and so forth. Our Indian theorist does not go far into the matter. It must be confessed that, though he stops short of 'I take what is good for me where I find it,' he allows his appropriator a fair latitude. But upon reflexion the reader will admit that in most of the excuses which he accepts there is a good deal of human nature, and that they have often prevailed in practice outside of India.

The thief proper was, however, clearly an apprehended danger, and his character is distinguished in a verse of Bana's *Harsacarilla* (Introductory Verses, 6).

"By modifying phrases and hiding the signs of authorship

"The poet, unacknowledged among good men, is divined a thief."

But he figures in prefaces seldom in comparison with the poet's more usual enemies, the *khala*, or hostile critic, and the *pisuna*, the envious man.

What was the object that our poet set before himself, and what was the judgment to which he appealed? The oldest writers (except Bhamaha), seem to have mentioned only fame (*klrti*) and delight (*priti*, *pramoda*, *ananda*) as the purpose of poetry; and herewith Dandin (I. 105), Vamana (I. 5), Bhoja (I. 2), and Rudrata (I. 21-2), seem to be content. But before long it became customary (see Bhamaha, 11. 2599, *Kavyaprakasa* I. 2, Vagbhata II., I. 2, *Sahityadarpana*, 1. 2, *Ekavall* I. 9, *Alahkaraiekhara* I. 1) to add 'wealth' (*dhana*), 'social accomplishment,' 'escape from ills,' 'instruction,' and generally the *trivarga* (profit, pleasure, virtue); later even the *caturvarga* (anticipated by Bhamaha) which adds *moksa*, the liberation of the soul.

The *trwarga* or *caturvarga* is a consequence of the correct use of words, * since a single word properly used and understood is a source of all good in this world and the next,' while 'instruction' is defined as like the teaching of a mistress (*kanfatulyatayopadesa*), 'Be like Rama, not like Havana,' in contrast with that of the scriptures and the sciences, which command as a lord or advise as a friend. This reminds us of Matthew Arnold's 'Charm is the poet's alone.' Some writers, like Vagbhata I., (I. 2) and Hemacandra (p. 4) demur to items of the traditional enumeration, commonly illustrated by examples, on the ground that such objects are not characteristic of poetry, but realizable by other means.

The Sanskrit poet was fully conscious of the truth contained in Horace's verse that there were 'kings before Agamemnon,' but that their names have perished for lack of a sacred poet. Dandin writes (I. 5) that—

"The image of the glory of ancient kings, through finding in speech a mirror,

"Though they be no longer here, itself, behold, does not wane."

to the same effect Rudrata (I. v. 5)—

"For when the fruit of their deeds, heaven, etc., is exhausted by time,

"Not even the names of kings would exist, were there not good poets."

and an anthology verse runs (*Subhasitavali* v. 150, cf. also 160, 167, 186)—

"The hundred-weights of gold, the throngs of rutting elephants

"Bestowed by Great Harsa upon Bana's merits, where are they now?

"But his glories, limned by Bana in his **flowing** verse,

"These pass not, I trow, **even at the aeon's waning**, to decay."

Indeed, it is plain that our poets looked in **general** to the **favour** of courts. Even **their** 'instruction as by a mis*

treasure' is designed for the "tender" minds of princes and great men, which might not tolerate the undiluted lessons of science and history. Lively pictures of such literary diversion at courts are familiar to us in the amusing *Bhojaprabandha* and in Hemacandra's *Probandha-cintamani* (as also in Persian literature).

But the less exalted lover of literature is not overlooked. This is the *rasika* or *mhrdaya*. Hemacandra defines him (p. 3)—

"The *sahridaya* is one whose mind-mirror being made
" spotless by practice in studying poetry, he has with
" a sympathy of heart a fitness for identifying him-
"self with the matter described; "

and he adds that 'the poet himself, who, according to Bhoja's commentator likewise (*Sarasvatikardhabharana*^ 1.2), is also a spectator (*stimajica*) of his own work, has taste of the sentiment (*rasa*) only in his enjoying phase, since being poet is apart from being enjoyer.' The anthologies express vividly the victorious effect of good poetry, as in (*Subhasitavali* 163, ef. 158 and 165)—

" What poetry is that that should not stir the heart,
as if it had drunk much wine,

" Should not by force of its sentiment thrill the hair
even of those with minds befogged by envy,

" Make the head tremble, the cheeks redden, the eyes
fill with tears,

" Mainstay the voice intent on chanting out the
imagined theme V "

The poets and critics from whom these extracts have been taken were not employing a language that could be called dead, not even a language holding the position of Latin in Europe during the middle ages. In a sense they were artificial. They were carefully schooled; they practised assiduously, like Stevenson. They appealed to an instructed audience; and they were competitive. Hence we must not judge from a modern standpoint their adherence to old themes, their conventionality in ideas and ex-

pressions, of which a small selection is to be found in Dr. Otto Walter's *TJbereinstimmungen in Gedanken, Vergleichen und Wendungen beiden indischen Kunstdichtern von Valmiki bis auf Magha*, Leipzig, 190—(A dictionary of such things was long ago proposed by the writer of this paper). Undoubtedly they made ample use of their note-books and collectanea; and how many of the constant *slesas*, for instance, can boast a life of a thousand years! The envious man is always double-tongued like the snake and has poison in his mouth; the king's toe-nails are always polished by the jewels in the crowns of prostrate rivals; affection (*raga*) is always redness (*raga*), and fame is always whitening the heavens. This is the poetical convention (*sahgati*), which naturally was the whole stock-in-trade of the poor poet (*kukavi*), who belonged only to the genus; when the great (*mahakavi*) or creative (*utpada*) poet makes use of such things, we must think of his audience, which knew them very well and concentrated its attention upon the new turn given to them, or the rival whom, as in the case of Magha with Bharavi, he was bent upon outdoing. He is engaged upon a work of art. Though his range is narrow, his fancy (*pratibha*) is real and fertile, as any anthology will most abundantly show. His sentiment is not artificial or 'complicated', but natural. His work is, as he says, 'a special creation free from the laws of destiny' (*Kavyaprukaia*, I. 1); and so it is not 'life'; but in quality, form and content it is literature, which is more truly perhaps an antidote to life.

PRE-DHVANI SCHOOLS OP ALANKARA

BY V. V. SOVANI

IN the opening portion of Alankarasarvasva Rajanaka Ruyyaka (Mankhaka, according to Pandit T. Ganapati Shastri of Trivandrum), before giving the view of the Dhvanikara, briefly reviews the opinions of Bhamaha, Rudrata, Vamana, Udbhata, Vakroktijivitakara, and Bhattanayaka relating to the Dhvani doctrine to show the stage at which criticism had arrived before the advent of the Dhvani School. In the present paper an attempt has been made to show that there were three schools of criticism before the Dhvani school appeared on the horizon, viz. (1) the Rasa school, (2) the Vakrokti school or the school of Alankaras, and (3) the Riti school or the school of Gunas.

Samudrabandha in his commentary¹ on the Alankarasarvasva thus classifies the schools of criticism—

इह विशिष्टो शब्दार्थौ कान्यम् । तयोश्च वैशिष्ट्यं धर्ममुखेन व्यापारमुखेन व्यङ्ग्य-
मुखेन वेति त्रयः पक्षाः । आद्येऽप्यलङ्कारतो गुणतो वेति द्वौविध्यम् । द्वितीयेऽपि भगि-
तिवैचित्र्येण भोगकृत्त्वेन वेति द्वैधम् । इति पञ्चसु पक्षेष्वप्य उद्भटादिभिरङ्गीकृतो द्वितीयो
वामनेन तृतीयो वक्रोक्तिजीवितकरेण चतुर्थो भट्टनायकेन पञ्चम आनन्दवर्धनेन ।
व्यक्तिविवेककाराभिमतस्त्वनुमानपक्षः सिद्धान्तप्रदर्शनसमनन्तरं विचारासहत्वेन दूषितत्वाद्
मङ्गलस्य पूर्वपक्षत्वेनायनभिमत इत्याहुः । एषु प्रस्थानेषु स्वाभिमतं प्रस्थानं तस्य सर्वै-
रङ्गीकरणीयतां च दर्शयितुमेषामुपन्यासः ।

I will try to show that Vakroktijivitakara may be included in the Alarikara school, as he merely elaborates - Bhamaha's Vakrokti.² Bhattanayaka, on the other hand, is the exponent of Bharata's Rasa school, as will be shown presently. So the former views belong to the three different schools of criticism, obtaining before the rise of Dhvani.

The Rasa school: The oldest writer extant of this school is the sage Bharata, whose views we learn from chapters vi, vii and xvi of his Natyasastra. Bharata's conception of poetry is dramatic,³ and it is upheld by Vamana in

1 Trivandrum Sanskrit Series edition, page 4. 2 Bhamaha ii. 85.

3 NStyasSstra xvi. 118, always quoted from the KSvyamSla edition.

i. 3. 30-32 and by Abhinavagupta in his commentary on the sixth chapter of the Nāṭyaśāstra, where he says—काव्यं ताद-
नुह्यतो दशरूपकात्मकमेव ।...सर्गन्वधादौ हि नायिकाया अपि संस्कृतेवोक्तिरित्यादि
बहुतरमनुचितम्.

Bharata deals with Rasas and Bhāvas in chapters vi and vii and treats of 36 lakṣaṇas, 4 poetical tropes, and 10 poetical excellences in chapter xvii. Of these the 36 lakṣaṇas or dramatic embellishments were later included under alaṅkāras¹ or under guṇas and alaṅkāras.² Guṇas, doṣas and alaṅkāras were all subordinated to Rasas by Bharata.³ That Rasa is predominant in poetry is seen from Bharata's statement⁴—न हि रसादृते कश्चिदर्थः प्रवर्तते. At the beginning of chapter vii Bharata says—वागङ्गसत्त्वोपेतान् काव्यार्थान् भावयन्तीति भावाः and Abhinavagupta in his commentary on the same explains it thus—काव्यस्यार्थो रसाः । अर्थ्यन्ते प्राधान्येनेत्यर्थः । न त्वर्थशब्दोऽभिधेयवाची । स्वशब्दानभिधेयत्वं हि रसानां ध्वनिकारादिभिर्दर्शितम्.

The genesis of Rasa is thus illustrated by Bharata⁵—
अत्राह—यदाऽन्योन्यार्थसंभूतैर्विभावानुभावव्यञ्जितैरेकानपञ्चाशता भावैः सामान्य-
गुणयोगेनोभासिष्पद्यन्ते रसास्तत्कथं स्थायिन एव भावा रसत्वमाप्नुवन्ति । उच्यते ... ।
बह्वाश्रयत्वात्स्वामिभूताः स्थायिनो भावाः । । यथा नरेन्द्रो बहुजनपरिकारोऽपि स
एव नाम लभते नान्यः सुमहानपि पुण्यस्तथा विभावानुभावव्यभिचारिपरिष्कृतः स्थायि-
भावो रसतां लभते. Here we may note that the underlined expressions anticipate the *vyañjanā* function of the Dhvani theory as also the *bhāvakatva* function advocated by Bhaṭṭanāyaka.

The Rasābhāsas do not seem to be formally recognised by Bharata, though he appears to have hinted at them,⁶ as we learn from Abhinavagupta's commentary Abhinavabhāratī on the Nāṭyaśāstra, ch. vi, which is partially reproduced in the Dhvanyālokalocana.⁷ We next meet with them in the Kavyālaṅkārasaṅgraha of Udbhaṭa (iv. 6) where they receive the designation *ūrjāsvin*, and we encounter them

1 Kāvyaadarśa ii. 367, and Daśarūpaka iv. 84 with Avaloka.

2 Sāhityadarpaṇa, ch. vi. p. 332, Durgaprasad's edition.

3 Nāṭyaśāstra, xvi. 104.

4 Ch. vi. p. 62; cf. also Bharata vii. 7

5 Ch. vii. p. 70.

6 Vide ch. vi. 40—अङ्गपराङ्मुक्तिर्या तु स शब्दः ।

7 Page: 23; and 66, Nir. Sag. edition.

again in the Dhvanikārika ii. 3, the first half of which is attributed to Śrīngaratilaka with a different line for the latter half by the author of Pratāparudrayaśobhūṣaṇa.¹

Before passing further we may note that according to Bharata, as interpreted by his commentator Abhinavagupta, Rasa was the very essence of Nāṭya. Abhinavagupta in explaining Nāṭya-rasa in the concluding portion of the prose, just before verse 33 of chapter vi, says—नाट्यात्समुदायरूपाद् रसाः । यदि वा नाट्यमेव रसाः रससमुदायः । नाट्य एव च रसाः । काव्येऽपि नाट्यायमान एव रसः काव्यार्थः ।

We also find the same in the Dhvanyāloka,² where Ānandvardhana says—एतच्च रसादितात्पर्येण काव्यनिबन्धनं भारतादावपि सुप्रसिद्धमेवेति प्रतिपादयितुमाह—scil. ध्वनिकारिका, ch. iii. 33, to support which statement Abhinavagupta in his Locana, p. 182, cites from Bharata—वृत्तयः काव्यमातृकाः (Nāṭyaśāstra, xx. 62, where we read वृत्तयो नाट्यमातरः). To depict Rasa, it is necessary to observe the rules of propriety (aucitya) and hence Bharata has laid down that the hero of a Nāṭaka must be well known and exalted.³

Bharata's lakṣaṇas are all illustrated in the Sāhitya-darpaṇa under lakṣaṇas and nāṭyāṅkāraṇa by Viśva-nātha.⁴ The four poetical figures are illustrated with their subdivisions by Bharata himself.⁵ Bharata's ten poetical defects may also be learnt from the third chapter of Daṇḍin's Kāvyaadarśa. It is not so very easy, however, to understand very clearly what Bharata's guṇas actually mean. For example, Professor Hermann Jacobi⁶ asserted that Bharata's prasāda guṇa was identical with Daṇḍin's samādhi guṇa, proposing to read 'mukhya' instead of 'mukha' in Bharata xvi. 95. It seems, however, that Bharata meant by prasāda 'a sly hint' or 'suggestion,' as illustrated by Prasannarāghavā, prologue, stanza 7, and is thus similar to the figure Mudrā of Candrāloka

1 Page 90, K. P. Trivedi's edition.

2 Ch. iii. p. 181.

3 Dhvanyāloka, ch. iii. p. 149 ; Nāṭyaśāstra xviii. 10

4 Pages 316-332, Durgaprasad's edition.

5 Nāṭyaśāstra xvi 41-82.

6 Z. D. M.-G. lxiv. p. 138, continued footnote.

and Kuvalayananda.¹ My view is based on the restatement of Bharata's view and its illustration in Hemacandra's *Alankaracudamani* on his own *Kavyanusasana*.² Bharata's ten poetical excellences are defined and illustrated, as contrasted with Vamana's and Dandin's, in the *Alahkaracudamani* of Hemacandra, pages 195—200. As Hemacandra has largely borrowed from older works—such as the *Kavyamimāṃsā* of Rajasekhara, chapters ix, xiv-xviii, Rudrata's *Kavyalankara* (in *Alankaracudamani*, chapters v and vii), Mahimabhatta's *Vyaktiviveka*, Abhinavagupta's statement of the views of Bhattalollata, Dandin, Srisankuka, Bhattanayaka, Bhattatota and himself (as found in his commentary on the sixth chapter of the *Natyasastra* in the course of the explanation of *Rasalaksana*)—therefore, I venture to think that this comparative view of Bharata's, Dandin's, and Vamana's *gunas* also is based on some older and authoritative work, possibly the sixteenth chapter of Abhinavagupta's commentary on the *Natyasastra*, which, among others, is wanting in the manuscript of the Trivandrum Palace Library.

Bharata's doctrine that *Rasa* is the essential factor in poetry is accepted by Rudrabhatta in his *Smṛgatilaka* i. 5-6 and in the stanzas attributed to him in the *Prataparudrayasobhusana*.⁴ It is also accepted in the *Agnipurana*,⁶ in Rudrata's *Kavyalankara*,⁰ in Rajasekhara's *Kavyamīmāṃsā Kavirahasya*,⁷ as well as in Bhojadeva's *Sarasvatīkanthabharana*.⁸ So all these may be said to belong to the *Rasa* school. Bhattanayaka the author of *Hṛdayadarpana* (a commentary on Bharata's *Natyasastra*, as appears from the opening portion of the *Abhinavabharatī*) holds practically the same view, as may be inferred from Abhinavagupta's observations in *Locana*.⁹ Professor H. Jacobi says in the Introduction (pages 5 and 17) to his translation

1 Vide pages 146-147, *Nirṇayasagar* edition.

7 Chap. iii. p. 6.

2 Page 196, *K5vyam5lff* edition.

8 Chap. v 8.

3 Pages 43-55, *Trivandrum Sans. Series* edition.

9 Pp. 11, 12, 15 68,

4 Pages 90 and 334-335 in K. P. Trivedi's edition.

5 Chapter 336 verse 33, chapter 338 verses 9-11.

6 Chap. xii. 2, as explained by NamisSdhu.

of Dhvanyaloka that Udbhata also held that Rasa was predominant in poetry, as can be seen from Kavyalankara-sahgraha vi. 17. Now on the 77th page of the Nirnayasagar edition of the same, we see that the above-mentioned verso is not from Udbhata, but is a citation from some other writer in Pratharendu raja's vrtti, as it is introduced by

. Further the verse can have no logical place in Udbhata's Compendium as Samudrabandha in his commentary on the Alahkarasarvasva (page 4) says distinctly that Udbhata gives prominence to alankaras. Lastly Udbhata has included Rasavat, Preyah, and Urjasvin among alankaras. Hence Udbhata belongs to the Alankara school. Udbhata was the Sabhapati of king Jayapida of Kasmira (779-813 A. D.), as accepted by Professor H. Jacobi in his paper, *On the Vakrokti and the Antiquity of Dandin*

I have spoken of the *Easa school of Bharata*, because Bharata has made gunas, dosas, and alankaras subordinate to Rasa on the ground that they constitute the *vacika abhinaya* or *anubhava*, which necessarily calls forth Rasa, as can be seen from the Rasalakṣanasūtra² and also the definitions of anubhava (vii. 5), and abhinaya (viii. 6) and its subdivisions (viii. 9). Vacika abhinaya is treated by Bharata in chapters xiv-xx; and chapter xvi, which deals with lakṣanas, alankaras, dosas and gunas, comes naturally under vacika abhinaya. The Dhvani school as well as Bhattanayaka's Hrdayadarpana are in agreement with Bharata on this point, and may be said to have only developed the teaching of Bharata, as can be seen from the passage from Nāṭyaśāstra, chapter vii, cited above. Even Mahimabhaṭṭa says

. The only difference between the Dhvanikara, Bhattanayaka, and Mahimabhaṭṭa was as regards the *function par excellence* which is operative in poetry.

Bharata's Nāṭyaśāstra stands at the beginning of the **Christian era** and may be much older, as shown by;

1 Z. D. M. Q. Vol. xlv, page 138.

2 Chapter vi, page 62.

3 Page 22, Trivandrum Sanskrit Series edition.

Professor E. J. Rapson in his article ' Drama (Indian)' in the Encyclopedia of Religion and Ethics.¹ Rudrabhatta seems to be considered as the predecessor of Rudrata, and Rudrata is assigned to the middle of the ninth century A. D. by Professor R. Pischel in the Introduction to his edition of the Sringaratilaka (pp. 12 and 26), a date accepted by Professor H. Jacobi and confirmed by Rajasekhara's mention* of Rudrata's Kakuvakrokti figure (Rudrata ii. 16). The treatment of poetics in Agnipurana, chapters 336-347, knows not the Dhvani theory at all and therefore its treatment of poetics is of the Pre-dhvani stage, like that of Rudrabhatta's Sringaratilaka and Rudrata's Kavyalahkara. Further Anandavardhana cites two verses on page 222 of the Dhvanyaloka which are found in Agnipurana, chapter 338, stanzas 10-11; and chapter 344, stanzas 14-15. Dhvani or Aksepa is given as a Sabdarthalankara, while the Kavirajamarga of Nrpatahga or Amoghavarsa, written shortly after 814 A. D.,⁴ mentions Dhvani as a figure of speech, as shown by Professor K. B. Pathak in his edition of the work in the Bibliotheca Carnatica. Bhattanayaka's Hrdayadarpana, Rajasekhara's Kayyamimahsa, and Bhojadeva's Sarasvatikanthabharana are, on the other hand, all later than the Dhvanikara, as they all notice the views of Anandavardhana, the author of Dhvanyaloka. Mahimabhatta's Vyaktiviveka is professedly a criticism of Dhvanyaloka.

The Alahkara school: The oldest extant writer of this School is Bhamaha whose work, the Kavyalankara, has been published as an Appendix in Mr. Trivedi's edition of the Prataparudrayasobhusana. Bhamaha is to be placed before Dandin, as shown by Professor H. Jacobi in his article on Vakrokti above cited. Mr. Trivedi also

1 Volume 4, page 886, §§ 3 and 4.

2 Translation of DhvanySloka, pages 56-57, footnote 3.

3 In **his** Kavyamfmsa Kavirahasya, page 31, Gaekwad Oriental Series edition.

4 Vide Journal B. B. R. A. S. Vol. xx, p. 304.

has collected presumptive evidence for the same in his Introduction to *Pratāparudriya* and *Bhāmaha*, (pp. xxxii-xxxv). The mention of the *Nyāsakāra* by *Bhāmaha* in vi. 36-37 need not disturb the above conclusion, because in the *Harsacarita* of *Bāna* we find on page 86 (Nir. Sag. ed.)—कृतगुण्यदन्यासाः which is explained in *Śāṅkara's Sāṅketa* as—कृतोऽन्यस्तो गुण्यदे दुर्बोधशब्दे न्यासो वृत्तिर्विवरणं (sic. वृत्तिविवरणं) येः. Hence it follows that *Bāna* clearly refers to the *Nyāsa* on *Pāṇinīsūtravṛtti*, from which we can see that it was already studied in the earlier part of the seventh century A. D. by students of *Pāṇini*. *Bhāmaha* seems to refer in iii. 55 to *Raghu* xiv. 7-8, and in i. 42f. to *Meghadūta* and hence is probably later than *Kālidāsa* (who, according to Professor K. B. Pāthak¹, flourished in the latter half of the fifth century A. D.). *Bhāmaha* therefore is probably of the same age as *Bāna*, because *Bhaṭṭi* seems in xxii. 34 to allude to *Bhāmaha* ii. 20. Further *Bhaṭṭi* seems in canto x to illustrate *Bhāmaha's* figures of word and sense, in canto xi his *mādhuryaguna*, in canto xii his *Bhāvika alankāra* as the pre-eminent excellence of composition, in canto xiii his Sanskrit and Prākṛit Kāvya and in cantos x-xiii his *Prasādaguna* as shown by *Jayamangalā* thereon, which confirms the same thing. Now *Bhaṭṭi* lived at the end of the sixth and towards the beginning of the seventh century A. D., as stated by Professor H. Jacobi in his paper above referred to.

The main point of difference between *Bharata's* system and *Bhāmaha's* school is that while according to *Bharata* the all-absorbing element of poetry is *Rasa* (*Nāṭyasastra* vii. 7), it is *Vakrokti* according to *Bhāmaha* (*Bhāmahā-lāṅkāra* ii. 85), *Vakrokti* being the basal principle of all *Alāṅkāras*, among which *Rasas* also are included. *Bhāmaha's* idea of *Vakrokti* can be clearly understood from *Bhāmahā-lāṅkāra* i. 23, 34, 36; ii. 85-86; v. 66; vi. 23, in addition to ii. 81-84. In vi. 23 *Bhāmaha* characterises poetic speech as *vakra*, and in i. 5. a poet is said to be 'one who possesses Imagination.' From ii. 81 we can see

1 Vide his Introduction to his second edition of *Meghadūta*, p. xi.

that *vakra* connotes 'addressing itself to superhuman images, which exist only in the poet's world,' as becomes quite clear from Pratihārendurāja's exposition.¹ In i. 30 Bhāmaha says that all the subdivisions of poetry mentioned by him in i. 16-30 are admissible to the designation of *Kāvya* in so far as they possess *vakrasvabhāvokti* or 'imaginative speech. In ii. 86 Bhāmaha says that Hetu, Sūksma, and Leśa are not poetic figures, since they are not enlivened by *Vakrokti*. The following from *Rasagan-gādhara*² throws light on Bhāmaha's position—

अत्र वदन्ति । काव्यालङ्कारः । वैचित्र्यात्मनो विचित्रित्वविशेषस्याभावात् ।
स हि जन्यतासंसर्गेण कविप्रतिभाविशेषस्तन्निर्मितत्वप्रयुक्तश्चमत्कृतिविशेषो वेति उक्तम् ।
न चानयोरन्यतरस्याप्यत्र संभवः । हेतुहेतुमद्भावस्य वस्तुसिद्धत्वेन कविप्रतिभानिर्णीतितत्वा-
योगात् ।

Udbhata accepts *Kāvya* as a figure (vi. 7).

The charming feature of a composition is called by Bhāmaha (iii. 52) the figure *Bhāvika*, which visualises objects both past and future. The sources of this life-like representation are the prespicuity of language, excellent acting and striking, exalted and novel ideas (Bhāmaha iii. 53). Now the prespicuity of language is the *prasāda guṇa* of Bhāmaha ii. 3. The other factors of *Bhāvika* originate in *utīṣayokti* or *vakrokti*; for, according to Bhāmaha (ii. 85) objects are discovered to our vision by *Vakrokti* (सेवा सर्वत्र वक्ताक्तिरनयाऽर्थो विभाव्यते), or are rendered suitable factors of *Rasa*. Both these senses seem to be justified, because in *Nāṭyaśāstra* chapter vii Bharata says—विभावितं विज्ञातमित्यनर्थान्तरम् while Abhinavagupta says in his *Dhvan-yālokalocana* (page 208)—प्रमदोद्यानादिर्विभावतां नीयते विशेषेण च भाव्यते रसमयीक्रियत इति—while explaining Bhāmaha's सेवा सर्वत्र वक्ताक्तिरनयाऽर्थो विभाव्यते. Bhāmaha has used *vibhāvvyate* in this double sense in order that the *Alankāras* and the *Rasas* may both originate in *Vakrokti*. *Vakrokti* first renders objects vivid to the imagination, and subsequently the *Rasas* are rendered *apparent* (रसवर्णितस्यष्टाङ्गारादि रसम्—

1 *Kāvya*lāṅkārasaṅgraha, pp. 40-42, Nir. Sagar edition.

2 Page 470, *Kāvya*malā edition.

Bhāmaha iii. 6). This is further elucidated by Abhinavagupta's observation¹ in *Locana*, page 69,—काव्येऽपि च कोकनाट्यधर्मस्थानीये स्वभावोक्तिवक्रोक्तिप्रकारद्वयेनालौकिकप्रसन्नमधुरौजस्विदाब्दसमर्पमाणविभाषादियोगादियमेव रसवार्ता, and by Alaṅkārasarvasva-kāra's observation—स्फुटप्रतीत्युत्तरकालं तु साधारण्यप्रतीतौ स्फुटप्रतीतिनिमित्तक औत्तर-कालिको रसवदङ्कारः स्यात्. However, Bhāmaha did not consider that *Rasa* was invariably present in a poem. What must be present in a poem as such is *Vākrokti* or imaginative speech only (Bhāmaha i. 30). The following observations of Jagannātha² shed further light on Bhāmaha's view—

काव्यजीवितं चमत्कारित्वं चावशिष्टमेव । ... । यत्न रसवदेव काव्यमिति साहित्य-दर्पणे निर्णतम् तत्र । वस्त्वलङ्कारप्रधानानां काव्यानामकाव्यत्वापत्तेः । न चेष्टापत्तिः । महाकविसम्प्रदायस्याकुलीभावप्रसङ्गात् ।

Hence Jagannātha³ defined *Kāvya* as रमणीयार्थप्रतिपादकः शब्दः while Bhāmaha's definition⁴ is शब्दार्थौ सहितौ काव्यं युक्तं वक्रस्वभावोक्त्या. .

Bhāmaha does not distinguish between *Guṇas* and *Alaṅkāras*, because he calls the *Bhāvika* figure a *Guṇa* as well.⁵ This is made explicit⁶ by his commentator thus—समवायवृत्त्या शैर्योदयः संयोगवृत्त्या तु हारादय इत्यस्तु गुणालङ्काराणां भेदः । ओजः-प्रभृतीनामनुप्रासोपमादीनां चोभयेषामपि समवायवृत्त्या स्थितिरिति गुणलिकाप्रवोहेणैवैषां भेद इति. However, Udbhata (iv. 2, 6, 8) differs from Bhāmaha (iii. 5, 7, 10) regarding *प्रेयः*, *ऊर्जस्विन्*, and *समाहित*. Udbhata further considers that *Bhāvas* are indicated by their own names, by their factors, by their ensuants, and by the accessories singly or collectively, while *Rasas* are indicated by their names, factors, ensuants, accessories, and permanent feelings singly or collectively.⁷

*Vakroktiṭīvitakāra*⁸ has further developed the *Vakroti*

1 Page 180, *Kāvya-mālā* ed. 2 *Rasa-gaṅgādhara*, *Kāvya-mālā* ed., p. 7

3 *Ibid.* page 4. 4 Bhāmaha, i. 16 and i. 30. 5 *Ibid.* iii. 32.

6 Mammaṭa, *Kāvya-prakāśa* chapter viii, pages 566-570, Zalkikar's 2nd ed. Vide also *Alaṅkāra-cūḍāmaṇi* by Hemaçandra, *Kāvya-mālā*, p. 17.

7 *Kāvya-alāṅkārasaṅgraha* pages 48-49.

8 See *Alaṅkārasarvasva* p. 8 (*Kāvya-mālā* ed.) with Jayaratha thereon, pp. 8-9 with *Samudrabandha* thereon, also *Vyaktiviveka*, pages 28, 37, 58 and 64; and *Vyaktivivekavicāra* pages 16, 36, 37 and 43-44. *Vakroktiṭīvitakāra* is also alluded to by Kāmadhenu, page 6, on *Vāmana* L. 1.

of Bhamaha, so as to make it cover the entire domain of Dhvani. From Alankaravimarsinl of Jayaratha,¹ we learn that Vakroktijivitakara *Kuntaka* (Vyaktivivekavicara, pp. , 16 and 32) rejected such figures as Yathasankhya on the same grounds as those of Bhamaha (ii. 86).

Dhvanyalokalcana thus criticises² the doctrine of *Vakrokti*—यदि तावदतिशयोक्तेः सवालङ्कारेषु सामान्यरूपता सा तर्हि तादात्म्यपथे-
वसायिनीति तदव्यतिरिक्तो नैवालङ्कारो दृश्यत इति कविप्रतिभानं न तत्रापेक्षणीयं स्यात् ।
अलङ्कारमार्गं च न किञ्चिद् दृश्यते । अथ सा काव्यजीवितत्वेन तु विवक्षिता । तथाप्यनौ-
चित्येपि निबध्यमाना तथा स्यात् । औचित्यवती जीवितमिति चेद् औचित्यनिबन्धनं
रसभावादि मुक्त्वा नान्यत्किञ्चिदस्तीति तदेवान्तर्भासि मुख्यं जीवितमित्यभ्युपगन्तव्यं
न तु सा ।

Vakroktijivitakara is later in age than Dhvanikara, as stated by Jayaratha.³

The Riti school: The chief writers of this school were Dandin and Vamana. Dandin is already shown to be posterior to Kalidasa and belongs to the latter half of seventh century, after Christ.⁴ Vamana is said to be identical with the minister of king Jayaplda of Kasmlra f 779-813A. D.) by Professor H. Jacobi in his paper above referred to.

The doctrine of Riti was older than Bhamaha, who refers to the Vaidarbha and Gaudlya styles of poetry (Bhamaha i. 31-36) as recognised by writers on poetics who preferred the former in spite of many excellent ideas in the latter. Bhamaha (i. 34) says that a Vaidarbha kavya is merely melodious to the ear like singing, is naive, tender, transparent but wanting in imaginative expressions and charming ideas. That this description of Vaidarbhl by Bhamaha was not off the point is seen⁵ from the dictum—

1 Alankarasarvasva, page 8.

2 Page 208, Kavyaraala ed.

3 Alankaravimarsinl, KavyamSIS, p. 12.

4 Professor K. B. Pathak in his Introduction to the second edition of MeghadCta, page xiii, citing Indian Antiquary for 1912, page 237.

5 Compare also the vrtti on AlankSrastttra I. 2. 21 and Bihlana in Vikram8nkadevaoarita i. 9.

विपद्योस्वरसौभाग्या वैदर्भी रीतिरिष्यते--in Vamanavrtti on AlankSra-sutra i. 2. 11.

Dandin was the first, as far as we know, to distinguish between the Vaidarbhl and the Gaudiya and to show that the former was for very good reasons adjudged the better of the two (Kavyadarsa i. 41-100). Other writers like Rudrata (ii. 5-6) considered that the Vaidarbhl was devoid of any Samasas or compounds, while Gaudiya had the longest compounds. This does not seem to be the case, because in the Kavyadarsa i. 84, which gives an illustration of Vaidarbhl style, there is a long compound extending over the first half of the stanza, although the compound is easily understood and elegant.¹ Dandin thus contrasts the two styles of poetry—Vaidarbhl is well-knit, intelligible, even, chiming, mild, compact, and heightened; while the Gaudiya is highly alliterative, stiff, non-harmonious, harsh, impetuous, bombastic, and exaggerated. Kanti or heightened speech which, Dandin says, is a Guna of the Vaidarbhl style, is thus contrasted with Atyukti or exaggeration of the Gaudiya style.² This Kanti of Dandin is the Atisayukti or Vakrokti of Bhamaha, chastened by propriety, as we can see from Dhvanyaloka and Dhvanyalokalocana, pages 207-208. So we see that what was considered essential in poetry was an Alankara for Bhamaha, while the same, chastened by propriety, was considered a Guna by Dandin. Further, Dandin considered that Samadhior metaphor, which he thought of as a* Guna³ was the all-in-all in poetry⁴ and was observed by all the poets.

The ten poetic excellences were considered as the very life or breath of the Vaidarbhl style, while poetic tropes were considered as the attributes of poetry which contributed to its grace. Poetry was defined by Dandin as a set of words, regulated by agreeable sense or idea.⁸ The definition of poetry by Dandin is very close to Jagannatha's definition in Rasagangadhara.⁶

Dandin's conception of Rasa was objective and was

1 Kavyadarsa i. 83.

3 Ibid, i. 93.

5 Ibid, i. 10.

2 l. Ibid, 85-92.

4 Ibid, 1.100.

6 Page 4, K5T. ed.

the same as Bhaṭṭalollata's, as explained by Abhinavagupta in the Abhinavabhāratī on chapter vi of Bharata's Nāṭyaśāstra, where he says—एवं क्रमहेतुमभिधाय रसविषयलक्षणसूत्रमाह—विभावानुभावव्यभिचारिसंयोगाद् रसनिष्पत्तिः । अत्र भङ्गलोच्छ्रयप्रभृतयस्तावदेवं व्याचक्षुः । विभावादिभिः संयोगः अर्थात्स्थायिनस्ततो रसनिष्पत्तिः । अत्र विभावश्चित्तवृत्तेः स्थाय्या(त्मिका)या उत्पत्तौ कारणमनुभावाच्च न रसजन्या अत्र विवक्षिताः । तेषां रसकारणत्वेन गणनानर्हत्वात् । अपि तु भावानामेव येऽनुभावा व्यभिचारिणः (ते) चित्तवृत्त्यात्मकत्वाद्यपि न सहभाविनः स्थायिना तथापि वासनात्मतेह विवक्षिता । दृष्टान्तेऽपि व्यञ्जनादिमध्ये कस्यचिद्वासनात्मता स्थायिवदन्यस्योद्भूतता व्यभिचारिवत् । तेन स्थाय्येव विभावानुभावादिभिरुपचितो रसः स्थायी भवत्वनु(प)चितः । स चोभये (मुख्यया वृत्त्या रामादाव)नुकार्येणुऽकर्तार्यविकारानुसन्धानबलादिति । चिन्तरानानात्वा (sic. चिन्तनानान्वा)यमेव पक्षः । तथाहि दण्डिनाऽस्यालङ्कारलक्षणेऽभ्यधायि—रतिः शृङ्गारताङ्गता । (प)रूपबाहुल्ययोगेनेति (Kāvya-darśa, ii, 281), अधिकृत्य परं कीर्तिं कोपो रौद्रात्मता गतः (Ibid, ii. 283) इत्यादि.¹ This objective view of Rasa, namely that it was produced in the original hero primarily and in the actor secondarily, and was developed by factors, ensuants, and accessory feelings, otherwise remaining as instinct—was responsible for the subordinate position given to Rasa in the Alankāra school as well as the Riti school.

It was Vāmana, who perfected the system of Dandin, and who is considered the authority in the Riti school. In his Vṛtti on Alankārasūtra I. i. 1, Vāmana says—काव्यशब्दोऽयं गुणालङ्कारसंस्कृतयोः शब्दार्थयोर्वर्तते । भक्त्या तु शब्दार्थमात्रवचनोऽङ्गप्रसूते. Now of the two embellishers Gunas and Alankāras, Gunas are the essential factors of poetic charm, which is only heightened by poetic tropes (Alankārasūtra III. i. 1-3). According to Vāmana I. 2. 6 (रीतिरात्मा काव्यस्य) 'style is the soul of poetry.' Kāmadhenu² thus explains the aphorism—व्याचष्टे—रीतिर्नामेति । रिणन्ति गच्छन्ति अस्यां गुणा इति रीयते क्षरत्यस्यां वाक्स्मधुधारेति वा रीतिः । अधिकरणार्थे किन् प्रत्ययः । करङ्कगात्रकल्पकर्कस-तर्कवाक्यवैलक्षण्यप्रकटनप्रमत्तमस्फुरताहेतुः कश्चन स्वभावोऽत्रास्मेति उच्यते. Riti is thus that distinct character of poetry which sharply separates it from philosophical writings, which are harsh and wanting in life as a dead body. Riti is further defined and analysed in i. 2. 7-8 as—विशिष्टा पदरचना रीतिः । विशेषो गुणात्मा.

1 Vide page 57 of the Alankāracūḍāmaṇi of Hemacandra on his own Kāvyaśūbhāṣana, where this is reproduced almost verbatim.

2 Kāvyaalankārasūtravṛtti with Kāmadhenu, pp. 15-16, Vāṇivillāsa ed.

Vamana said perhaps that it was no doubt true that we did not find distinct Rasa in every poetical piece, and hence if our investigation included into its domain «all varieties of poetry, we must make our definition wide enough to cover the sphere of those varieties of poetry also, which developed no Rasa. He, however, emphasized the necessity of distinguishing between those characteristics of poetry which are quite essential, and those which are of secondary importance. These essential characteristics he further divided into verbal or formal, and material. The verbal attributes prepare a suitable vehicle for poetic images, so that even a slightly charming idea is greatly appreciated when conveyed by the elegant style Vaidarbhi.¹

Vamana made a great advance over the Alarikara school by including Rasas among the necessary characteristics of poetry. Dandin had allowed Rasas to be included among Alahkaras.³ He had meant by Madhurya absence of vulgarity³ and did not contemplate the inclusion of Rasas under Madhurya as he himself explicitly says in ii. 292. Now Vamana, who had great partiality for dramatic poetry⁴ saw that Rasas were among the essential properties of poetry and included them under Kanti.⁵ Absence of vulgarity was considered as essential but was included under UdarataV'

Another improvement he made, which is also important to note. Dandin had included Bhavika, the property of the entire composition, among the Alankaras, just as Bhamaha did in Kavyalankara iii. 52-53. The Bhavika of Dandin (ii. 364-366) was analysed into the Arthagunas, Slesa (iii. 2. 4) the fifth variety of Ojas (iii. 2. 2, vrtti), Samata (iii. 2. 5), Samadhi (iii. 2. 6-9) Madhurya (iii. 2. 10), and lastly Arthavyakti (iii. 2. 13).

The Rlti school is given the credit of having dimly

1 AlankSraeHtra i. 2. 21.

4 AlankarasBtra i. 3. 30-33.

2 Kavyadartra ii. 275; ii. 280-292. 5 Ibid, in, 2.14.

3 Ibid. i. 51, i. 62, and ii. 292.

6 Ibid. iii. 2.12.

perceived the true nature of poetry by the Dhvanikāra.¹ The criticism which Mammata has made on Vāmana's view² is not very convincing; and Mammata's own system is open to a similar criticism, as is clearly shown by Kāmadhenu.³ The difference between the Dhvani school and the Riti school is thus summarised by Kāmadhenu⁴—
 रीतिध्वनिवादमतयोरियांस्तु भेदः—तत्र प्रथमे रीतिरात्मा काव्यस्य तद्व्यवहारप्रयोजका
 गुणाः । चरमे तु ध्वनिरात्मा स एव तद्व्यवहारप्रयोजक इति । उभयत्राप्यात्मनिष्ठ गुणाः ।
 शब्दार्थयुगलं शरीरम् । तन्निष्ठ अलङ्कारा इति च सर्वमविशिष्टम् ।

Both the Alāṅkāra school and the Guṇa school have left their impression on the Kāvya-prakāśa of Mammata, as can be seen from Mammata's definition of Kāvya (i. 4). The Kāvya-prakāśa is considered the standard work on the Dhvani system of poetics, and therefore the commentators try to justify its views everywhere. However, here the commentators have not quite succeeded in showing the consistency of the definition.⁵ The definition becomes quite intelligible when we remember that Mammata was influenced by Vāmana (III. i. 1-3), although no doubt Mammata considered Guṇas as primarily attributes of Rasas and only secondarily of letters.⁶ To a less extent he was influenced by the Alāṅkāra school, as he allows a Kāvya to be devoid of Alāṅkāras in a few cases.⁷ However Bhāmaha's Vakrokti does appear in Kāvya-prakāśa, under the name of Praudhokti⁸—
 प्रौढोक्तिमात्रनिष्पन्नशरीरोऽर्थवत्पु-
 ण्यो ध्वनिः ।

1 Dhvanyāloka, Kāvya-mālā edition, iii. 52, page 231.

2 Kāvya-prakāśa, chapter viii, pages 571-572 (Bom. Sk. Series) 2nd ed.

3 On Vāmana's Alāṅkārasūtra iii. 1. 4 on pages 72-73 of the Kāvya-
 alāṅkārasūtra-vṛtti, Vāṇivilāsa edition.

4 Ibid. page 72. 5 Vide Zalkikar's second edition, pages 12-21.

6 Vide Kāvya-prakāśa-vṛtti on viii. 1. 7 Kāvya-prakāśa i. 4.

8 Chapter iv. pages 160-161, as also Dhvanyāloka, pages 105-106.

SOME NOTES ON BHAMAHA

BY K. P. TRIVEDI

THE oldest writer¹ on poetics whose work is- at present • available is Bhamaha. He is quoted with great reverence by learned authors like Anandavardhana, Abhinavagupta, Mammata, Hemacandra, Jayamangalakara, Pratiharenduraja, and others; and is given the first place among old Alankarikas by Alankarasarvasvakara,² Vidya-dhara,³ and Vidyanaatha.⁴ The object of this paper is to make a somewhat critical survey of Bhamaha's work⁵ with a view to examine the grounds on which he is held in such great reverence by subsequent authors of profound learning.

The broad line of distinction between ancient and later Alankarikas is that the former attach much importance to the *gunas* and the *alahkaras*. The suggested sense in their opinion goes simply to contribute to the beauty of the expressed sense, which is predominant. Owing to this undue importance attached by them to the *alankaras*, the very works of Bhamaha and Udbhata go by the names of "Kavyalankara" and "Kavyalankara-sarasangraha" respectively.

Bhamaha has divided his work into six *paricchedas* or sections. At the end of his work he enumerates the subjects that he has dwelt upon in these sections. Five topics have been treated in six sections as under—

1 That he is older than Dandiin is clearly shown by me in the Introduction to my edition of the *Prataparudrayasobhuṣana* in the Bombay Sanskrit Series and also in my article on the "Priority of Bhamaha to Dancjin" in the Indian Antiquary, Vol. XLII, October 1913, pp. 258-264.

२ इह हि तावज्ज्ञानदोषोऽप्यधृतयश्चिरतनालंकारकाराः प्रतीयमानमर्थं बाध्योपस्कारकतयालंकारपक्षनिश्चिह्नं मन्यन्ते । अलं० सर्व०, p. 3.

3 यत् पुनरलंकारकोटिविविधत्वं वस्तुष्वनेरुद्भावस्य भामहादयस्तदपि विश्वविशुद्धम् । पक्षा० p. 30 (Bom. Sans. Series).

4 पूर्वेष्वो भामहादिभ्यः सादृ विहिताञ्जलिः । प्रताप०, p. 4 (Bom. Sans. Series).

5 The *Kāvyāṅkāra*, printed as an Appendix to my edition of the *Pratāparudra*.

- 1 *Kāvyaśarīra* or the body of poetry, in 60 verses ;
- 2 *Alaṅkāras* or figures of speech, in 160 verses ;
- 3 *Doṣas* or demerits in composition, in 50 verses ;
- 4 *Nyāyanirṇaya* or settling the logic of poetry, in 70 verses ; and
- 5 *Śabdaśuddhi* or grammatical purity, in 60 verses.

The importance of the cultivation of good poetry is very well shown by Bhāmaha in the following verse—

धर्मार्थकाममोक्षेषु वैचक्षण्यं कलासु च ।

प्रीतिं करोति क्रीर्तिं च साधुकाव्यनिबन्धनम् ॥

Mammata's well known verse काव्यं यशसेऽर्थकृते^१ exactly corresponds to this. The only additional idea in it is that poetry instructs a man gently and lovingly, like a beloved. In his *Ekāvalī* Vidyādhara shows that the Vedas are प्रभुसंमित—like a lord—owing to the authoritative manner in which they direct the reader to follow certain rules, and are शब्दप्रधान—having words as predominant—since even a slight change of words in them would be productive of sins;² that mythological works are मित्रसंमित—like a friend—since they advise us in a friendly way, and are अर्थप्रधान—having sense as predominant; and that lastly poetry is कान्तसंमित—like a beloved—since it advises us in a delicate manner, and is ध्वनिप्रधान—having the suggested sense as predominant, words and their primary sense being both made subordinate to the powers of suggestion.³

Abhinavagupta's remarks on the verse धर्मार्थकाममोक्षेषु^४ are worth reading.⁵ He observes that though the cultivation of poetry gives proficiency (vyutpatti) in arts, the most prominent fruit of its cultivation is pleasure. What is meant to assert is that vyutpatti or proficiency comes from the study or the cultivation of other works of literature also, but poetry gives pleasure in addition to it. The

1 ईश्वरात्म्यधापाठे प्रत्ययायस्य वर्तमानत्—*Ekāvalī*, Bom. Sans. Series, p. 13.

2 शब्दार्थौ गुणतां नीत्वा ध्वजनप्रवर्णं यतः—*Ibid.*, p. 15.

3 श्रोतृणां ध्रुवतिर्यगप्यस्ति यथोक्तम्—धर्मार्थकामं इति तथापि प्रीतिरेव प्रधानम् ।

अन्वयात् प्रभुसंमितेभ्यो वेदादिभ्यो मित्रसंमितेभ्यश्चेतिहासादिभ्यो कोऽस्य काव्यरूपस्य ध्रुवतिर्यगेत्येवार्था-
वासमित्यलक्षणो विशेष इति प्राधान्येनानन्द एव उक्तः । अतुर्वर्गध्रुवत्वेरपि नानन्द एव पारमार्थिक
लक्ष्यं कलम् । ध्वन्या० p. 12.

English poet Oowper has very well expressed this pleasure on the part of poets even when their work of the selection of appropriate words is beset with great trouble. His excellent lines are worth quoting—

There is a pleasure in poetic pains
Which only poets know. The shifts and turns,
The expedients and inventions multiform
To which the mind resorts, in chase of terms,
Though apt, yet coy and difficult to win,

Are occupations of the poet's mind
So pleasing and that steal away the thought
With such address from themes of sad import,
That, lost in his own musings, happy man !
He feels the anxieties of life, denied
Their wonted entertainment,—all retire.

Bhamaha winds up his first section by similar ideas, comparing the work of poets to that of a garland-maker, in as much as both have to take up what is good and reject what is bad and to select proper places for proper objects. His concluding verse is—

Lord Macaulay in his Essay on Milton expresses the same idea when he speaks of the magical influence of poetry. He says—"We often hear of the magical influence of poetry. The expression in general means nothing; but applied to the writings of Milton, it is most appropriate. His poetry acts like an incantation.....Change the structure of the sentence, substitute one synonym for another and the whole effect is destroyed." This felicity of expression—the unchangeableness of words—is what Sanskrit writers on poetics call *mattri*, *sayya*, or *pcika*. Vidyanaatha's definition of *iayya* is—

67.

It is the repose of words in their mutual favourable-

ness like the repose of the body in a bed. The mutual friendship of words so close that they cannot be replaced by their synonyms constitutes what is called *sayyā*. Mallinātha¹ explains it as under—

पदानां परिनिर्वैमुख्यं विनिमयासहिष्णुत्वम् । एतदेव मैत्री शय्येति चाख्यायते
यथात्मदीयश्लोके चंद्रोदये—

निशाकरकरस्पर्शाग्निशया निर्वृतात्मना ।

अमी स्तम्भादयो भावा व्यज्यन्ते रज्यमानया ॥

Here we cannot replace निशाया by क्षपया—अत्र निशादिपदस्थाने क्षपादिपदान्तरप्रक्षेपे पदानां परस्परमैत्रीभङ्गः ।

This is one sort of *pāka*, viz. *śabda-pāka* or maturity of expression that comes from a long study of good poetic works. But this felicity of expression, *vāg-vidagdhatā* as Bhāmaha calls it, is useless without a high poetic power, which comes very rarely to some one only from poetic genius of a very high order. By itself it is like possessing wealth without modesty and night without the moon—

विनयेन विना का श्रीः का निशा शशिना विना ।

रहिता सत्कवित्वेन कीदृशी वाग्बिदग्धता ॥

गुरुपदेशादप्येतुं शास्त्रं जडधियोऽप्यलम् ।

काव्यं तु जायते जातु कस्यचित् प्रतिभावतः ॥ भामहालंकार १. ४-५

Thus what is wanted in poetry is not *śabda-pāka* alone but *artha-pāka* also. अर्थपाक is अर्थगम्भीरिमा—depth of sense. It is of various sorts, of which ब्राह्मपाक and नारिकेलपाक are mentioned by Vidyānātha (प्रता^२ p. 67)—

अर्थगम्भीरिमा पाकः स द्विधा हृदयंगमः ।

ब्राह्मपाको नारिकेलपाकश्च प्रसूयान्तरौ ॥

These varieties are brought about by different tastes of different poetic sentiments, like varieties of food. Without *pratibhā* or poetic genius such a charm in expression and sense (शब्दचमत्कार and अर्थचमत्कार) cannot be brought about, and Bhāmaha therefore very rightly says—

काव्यं तु जायते जातु कस्यचित् प्रतिभावतः ।

That is, *pratibhā* is absolutely necessary for the composition of poetry ; it is found in some one only, and in

1 *Taraṇa* on the *Ekāvālī* pp. 22—23. The following verse of Mallinātha describing the rise of the moon seems to be from his *सुधीरचरित*,

him also not at all times (जातु-कदाचिदेव). It is only in a few happy hours, when a man is fired by poetic genius of a superior kind, that he is able to compose what deserves to be called poetry.

Mammata also places *pratibhā* which he calls *śakti* as the first and the most important of all the requisites for the composition of poetry.¹ Now *pratibhā* is defined as intelligence that buds forth in new and newer sprouts. The verse which defines it, defines also *kavi* and *kāvya* as under—

प्रज्ञा नवनवोन्मेषशालिनी प्रतिभा मता ।

तदनुप्राणनाजीवदूर्णनानिपुणो कविः ॥

तस्य कर्म स्मृतं काव्यम्—हेमचन्द्र's काव्यानु०, p. 3

In the opinion of the above writer a poet is one who is skilled in the description animated by poetic genius; and his composition is known as poetry. Though Bhāmaha, like the above author, attaches much importance to *pratibhā*, he does not ignore other essential requisites of a secondary nature for the composition of poetry. He mentions them in the following verses—

शब्दस्फुटोऽभिधानार्थः² इतिहासश्रव्याः कथाः ।

लोको युक्तिः कलाश्चेति मन्तव्याः काव्यैर्वैवशी³(?) ॥

शब्दाभिधेये विज्ञाय कृत्वा तद्विदुपासनाम् ।

विलोक्यान्यनिबन्धांश्च कार्यैः काव्यक्रियादरः ॥ १. ९-१०

Thus one who desires to be a poet must know words, prosody, powers and senses of words, mythological stories, the world, arguments, and arts; he must also wait upon poets and study the works of others.

1 Compare—शक्तिर्निपुणता लोकशास्त्रकाव्याद्यपेक्षया ।

काव्यज्ञाशिक्षयाप्यस इति हेतुस्तद्वद्भवे ॥ काव्यः १. ३

The singular form हेतुः shows that शक्ति, निपुणता and ज्ञानास are the combined causes for the composition of poetry.

2 Bhaṭṭodbhaṭṭa, who has composed a commentary called *Bhāmaha-vivaraṇa*, explains the word अभिधान as शब्दानामभिधानमधिव्यापारो मुख्यो गुणवृत्तिश्च । ज्ञान्यालोक p. 10. Should it not be explained as अभिधानमभिधाय्यापार । उपलक्षणमिवम् । तेन लक्षणव्यञ्जनयोरपि ग्रहणमित्यर्थः ? For as I shall show further on Bhāmaha is not ज्ञान्यभावादी—one who does not believe in the existence of the suggested sense—as Mallinātha puts him down in his *Tarala* on the *Ākavāṇi*.

In his sixth ullāsa in which Mammata examines the characteristics of *śabda-citra* and *artha-citra* poetry—as to whether there is any charm of sense in a *śabda-citra* poem or any charm of words in an *artha-citra* poem—he asserts that there are both the charms in both kinds of poetry, but that in a *śabda-citra* poem the charm of sense is subordinate to that of words, while in an *artha-citra* poem the charm of words is subordinate to that of sense. In support of his statement he quotes the following verses of Bhāmaha—

रूपकादिरलंकारस्तस्यान्यैर्बहुवोदितः ।
 न कान्तमपि निर्भूषं विभांति वनितामुखम् ॥
 रूपकादिमलंकारं बाह्यमाचक्षते परे ।
 मुपां तिङां च व्युत्पत्तिं वाचां वाञ्छन्त्यलंकृतिम् ॥
 तदेतदाहुः सौशब्दं नार्थव्युत्पत्तिरीदृशी ।
 शब्दाभिधेयालंकारभेदादिष्टं द्वयं तु नः ॥ १. १३-१५

These verses are quoted by Mammata without the name of the author. Sarasvatītirtha rightly attributes them to Bhāmaha; while Vivaranakāra is wrong in ascribing them to Dhvanikāra. In these Bhāmaha sets forth the views of some old Ālankārikas. Some writers on poetics, says Bhāmaha, have mentioned *Rūpaka* and many such figures as ornaments of poetry; because even the handsome face of a lady does not look splendid if it be devoid of ornaments. Others, however, consider *Rūpaka* and other figures to be external. They desire the charmingness of nouns and verbs to constitute an ornament of poetry. This they call *śauśabdyā*—felicitous expression. In their view charmingness of sense is not so pleasant. But in our view both are to be accepted; because there are two sorts of figures: those that adorn words and those that adorn sense. Bhāmaha is of opinion that words and sense both constitute the body of poetry—शब्दार्थौ सहितौ काव्यम् (ix. 16)—and not words alone. Daṇḍin and Jagan-nātha attach undue importance to words. The former defines poetry as—इष्टार्थव्यवच्छिन्ना पदावली, while the latter as—रमणीयार्थप्रतिपादकः शब्दः काव्यम्. Mammata follows Bhāmaha and considers word and sense both as constituting poetry—तदर्थोऽथ शब्दार्थौ.

The following verse from Bhāmaha is quoted by many writers such as Ānandavardhana, Mammaṭa, and Hemacandra—

सैषा सर्वत्र वक्रोक्तिरन्यार्थो विभाव्यते ।

यनोऽस्यां कविना कार्यः कोऽलंकारोऽनया विना ॥ २. ८५

Here *vakrokti* means a charming and suggestive expression. It is synonymous with लोकातिक्रान्तगोचरं वचः which Bhāmaha uses in defining the figure *Atiśayokti*—

निमित्ततो वचो यत्तु लोकातिक्रान्तगोचरम् ।

मन्यन्तेऽतिशयोक्तिं तामलंकारतया यथा ॥ २. ८९

which says that when words are used in an ordinary manner in which people in general without a poetic turn of mind use them, there is no *vaicitrya*, no charm, and consequently no figure of speech. It is only when they are used in a charming sense, in an extraordinary manner which remotely suggests something very charming, that we have what we call a figure of speech. *Vaicitrya* of word and sense which Bhāmaha means by *vakrokti* is essential to constitute an *Alankāra*. He says—

वक्रभिधेयशब्दोक्तिरिष्टा वाचामलंकृतिः । २. ३६

and also further on—

वाचां वक्रार्थशब्दोक्तिरलंकाराय कल्पते । ६. ६६

Abhinavagupta explains this (चन्या० p. 208) as under—

शब्दस्य हि वक्रता अभिधेयस्य च वक्रता लोकोत्तीर्णेन रूपेणावस्थानमित्ययमेवासा-
वलंकारस्यालंकारान्तरभावः ।

According to later writers on poetics the figure *Atiśayokti* is found under one of these five conditions: (1) when things different are described as not different (भेदेऽप्य-भेदः); (2) when the object under description is conceived to be another than what it is, in other words, when things not different are described as different (अभेदेऽपि भेदः); (3) when connection is described between objects where there is no connection (असंबन्धेऽपि संबन्धः); (4) when non-connection is put forth between objects where there is connection (संबन्धेऽप्यसंबन्धः); and (5) when the sequence of cause and effect is reversed. Bhāmaha does not like to enter into minute divisions and distinctions. Of the two instances of this figure given by him, the first, viz.—

खपुव्यच्छविहारिण्या वन्दभासा तिरोहिताः ।

अन्वमीयन्त भृङ्गालिवाचा सप्तच्छद्विभुमाः ॥ २. ८२

corresponds to the figure *Sāmānya* of Mammata; and the second, viz.—

अपां यदि त्वक् शिथिला च्युता स्यात् फणिनामिव ।

तदा शुक्रांशुकानि स्युरेकैश्चम्मासि योषिताम् ॥ २. ८३

corresponds to यद्यर्थोतिशयोक्ति of Mammata or असंबन्धेऽपिसंबन्धा-
तिशयोक्ति of Alankārasarvasvakāra. The latter is a broader
division and comprehends the former as observed by Malli-
nātha in his *Tarala*.¹ Hemacandra remarks that since
in almost all figures, we have *Atiśayokti*, it is unnecessary
to take *Milita*, *Ekāvali*, *Nidarśanā*, etc. as quite separate
figures—तां विना प्रायेणालंकारत्वायोगादिति न सामान्यमीलितैकादलीनिदर्शना
विशेषावलंकारोपन्यासः श्रेयान् । हेमचन्द्र, काव्यानु०, p. 267. But this
view is not proper; for if it be accepted, it would do away
with the necessity of many other divisions of figures, such
as *Samāśokti*, *Akṣepa*, and *Paryāyokti*. Nay, such an
Atiśayokti is found even in *Upamā* and *Utprekṣā*, as Bhā-
maha himself explains—

इष्टं चातिशयार्थत्वमुपमोलेक्षयेर्यथा ।

पुष्पीभूतमिव ध्वान्तमेष भाति मतङ्गजः ॥

सरः शरत्प्रसन्नाम्नो नमःखण्डमिवोज्जितम् ॥ २. ५०-५१

What is meant by Bhāmaha is that *vaicitrya* or charm-
ingness of expression is necessary to constitute a figure.
When this charmingness is extraordinary it makes up the
figure called *Atiśayokti*. Thus in *Atiśayokti*, there is always
a *vyāṅgya*—remotely suggested sense—which is charm-
ing. Though this kind of charming suggestiveness of
sense is found in many figures, still their varieties are
based upon an additional charm peculiar to each figure.

1. काव्यप्रकाशकारस्तु भेदेऽभेदः, अभेदे भेदः, यद्यर्थशब्दप्रयोगादसंभाषितार्थान्तरकल्पनं, कार्य-
कारणपौर्वापर्यमङ्गश्रव्येवं चातुर्विध्यं सिद्धान्तसाधकारः । तदपि चिन्तयम् । तत्राद्ये (पुष्प-
प्रवालोपहितं यदि स्यात्' इत्यादौ) असंभाषितोऽर्थः पुष्पप्रवालबोध्युक्ताफलाविभुमयोश्च संबन्ध एव
यादृशज्ञेन संभाष्यते इत्यसंबन्धे सन्धभेद एवायम् । द्वितीये (राकावामकलंक चेत्' इत्यादौ) तु अक-
लंकं चेदिति कलकासंबन्ध इत्योश्चेच्छब्देन संभाष्यत इति संबन्धेऽप्यसंबन्धभेद एवायम् । एवं विद्यते
सामान्ये विशेषस्वान्तर्भावो लभितः विशेषे वा सामान्यस्य तद्वन्धवन्त एव विदुर्ज्ञानम् । तस्मादस्मदङ्कः
पञ्चाषा विभाव एव न्याय्य इत्यलम्—p. 337 (Bom. Sans. Series).

Premacandratarakavāgiśa¹ also after quoting Bhāmaha's सैषा सर्वत्र वक्रोक्तिः and another verse to the same effect by another authority, viz—

कस्याप्यतिशयोक्तिरित्यन्वयविचारणात् ।

प्रायेणामी अलंकारा भिन्ना नातिशयोक्तिः ॥

very rightly observes—

एवं सर्वत्रातिशयोक्तिसद्भावेऽपि वैविध्यान्तरेणालंकारान्तरव्यपदेशः । वैवि-
ज्यान्तरामात्रे त्वतिशयोक्तिव्यपदेश इति बोध्यम् ।

From the following remarks² of Anandavardhana it is clear that Bhāmaha is not ध्वन्यभाववादी or one who denies the existence of ध्वनि, as Mallinātha considers him to be—

भामहोनाप्यतिशयोक्तिलक्षणे यदुक्तम्—सैषा सर्वत्र वक्रोक्तिः—तत्रातिशयोक्ति-
र्यमलंकारमधितिष्ठति कविप्रतिभावशात् तस्य चारुकातिशययोगोऽन्यस्य त्वलंकारमात्र-
तैवेति सर्वालंकारस्वीकरणयोग्यत्वेनाभेदोपचारात् सैव सर्वालंकाररूपेत्ययमेवार्थोऽवगन्त-
व्यः । तस्याश्चालंकारान्तरसंकीर्णत्वं कदाचिद्वाच्यत्वेन कदाचिद्व्यपदेश्यत्वेन ।

Furtheron, p. 211, it is rightly observed—

सर्वथा नास्त्येव सहृदयहृदयहारिणः काव्यस्य स प्रकारो यत्र न प्रतीयमानार्थसं-
स्पर्शेन सौभाग्यम् ।

It is because there is no *vakrokti* in them that Bhāmaha rejects *Hetu*, *Sūkṣma*, and *Leśa* as figures, though they are accepted by others—

हेतुश्च सूक्ष्मो लेशोऽथ नालंकारतया मतः ।

समुदायाभिधानस्य वक्रोक्त्यनभिधानतः ॥ २. ८६

The word वक्रोक्त्यनभिधानतः in this verse clearly shows that according to Bhāmaha's opinion words first express the primary sense and then the remotely suggested sense (वक्रो-
क्तेरप्यभिधानं भवति). In other words, the remotely suggested sense does exist; but it is subordinate to the primary sense. Bhāmaha thus comes under the class described by Anandavardhana as भाक्तमाहुस्तमन्ये (ध्वन्या०, p. 2). The *Vṛtti* on this (p. 10) is clear—यद्यपि च ध्वनिशब्दसंकीर्तनेन काव्यलक्षणविधायिभि-
गुणवृत्तिरन्यो वा न कश्चित् प्रकारः प्रकाशितस्तथापि गुणवृत्त्या काव्येषु व्यवहारं दर्शयता
ध्वनिमार्गो मनाक् स्पृष्टो लक्ष्यत इति परिकल्प्यैमुक्तम्—भाक्तमाहुस्तमन्य इति ।

The following are a few of the excellent verses, which are Bhāmaha's own composition given by him as illustrations—

¹ Kavyādarśa, Premacandra's edition p. 223.

² Dhvanyāloka, pp. 207-208.

अहं त्वा यदि नेक्षेय क्षणमप्युत्सुका ततः ।
 इयदेवास्त्वतोऽन्येन किमुक्तैनाप्रियेण तु ॥ २. ६९
 वहन्ति गिरयो मेघानभ्युपेतान् गुरून्पि ।
 गरीयानेव हि गुरून् बिभर्ति प्रणयमगतान् ॥ २. ७४
 स्कन्धवानृजुरव्यालः स्थिरोऽनेकमहाफलः ।
 जातस्तरुयं चोच्चैः पातितश्च नभस्वता ॥ २. ८०
 छायावन्तो गतव्यालाः स्वरोहाः फलदायिनः ।
 मार्गद्रुमा महान्तश्च परेषामेव भूतये ॥ ३. १७
 उन्नता लोकदयिता महान्तः प्राच्यवर्षिणः ।
 शमयन्ति क्षितेस्तापं सुराजनो घना इव ॥ ३. १८
 अयं मन्दद्युतिर्भास्वानस्तं प्रति यियासति ।
 उदयः पतनायेति धीमतो बोधयन् नरान् ॥ ३. ३३
 अनलंकृतकान्तं ते वदनं वनजद्युति ।
 निशाकृतं प्रकृत्यैव चारोः का वास्त्यलंकृतिः ॥ ३. ५०

Unlike the later writers—Dandin, Vāmana, and Bhoja, who accept ten *gūnas* or poetic merits, Bhāmaha betrays higher taste and critical faculty by accepting only three: *mādhurya*, *ojas*, and *prasāda*. Mammata follows him and accepts these three only, stating that the rest are included in them. Of these *mādhurya* is defined by Bhāmaha¹ as—

श्रव्यं नातिसमस्तार्थं काव्यं मधुरमिष्यते । २. ३

Mammata and Hemacandra take objection to this definition. They state that a poem with *prasāda* is also *śravya*; so the definition is open to the fault of *atīvyāpti*—

श्रव्यत्वं पुनरोजः प्रसादयोरपि । काव्यप्र०, ४. 68

वृत्तिहेतुत्वं माधुर्यस्य लक्षणं न तु श्रव्यत्वम् । ओजः प्रसादयोरपि श्रव्यत्वात् ।
 तेन श्रव्यं नातिसमस्तार्थशब्दं मधुरमिष्यते इति माधुर्यलक्षणत्वेन श्रव्यत्वं यद्गमहेनोक्तं
 तन्न युक्तमित्यर्थः—काव्यानु०, p. 201. I think that there is not much force in this objection. *Śravya* means pleasant to hear; the adjective नातिसमस्तार्थम् prevents the *atīvyāpti* of the definition to *ojas* which has *samāsabhūyastva*. *Prasāda* is the simplicity or rather lucidity of a poem, so great that it may be grasped even by women and children. Mammata has made the degree of pleasantness clear by stating that this poetic merit is the cause of the

1 Pradīpakāra in his commentary attributes this definition to one Bhāskara—भास्करस्तु श्रव्यत्वं माधुर्यस्य लक्षणमाह स्म तदुक्तम्—काव्यप्रदीप, p. 329.

melting of the mind (द्रुतिकारणम्). It is said that there are only three conditions of the mind generated by nine poetic sentiments. They are: 1 *druti*—melting or dissolution of the mind as on hearing a poem suggestive of the sentiments of love, grief, and tranquillity; 2 *visāra*—expansion or firing up of the mind as on hearing a poem suggesting the sentiments of valour, wrath, and repulsion; and 3 *vikāsa*—the budding forth of the mind as on hearing a poem suggestive of the sentiments of humour, wonder, and terror.

The definition of *prasāda* as given by Bhāmaha is far superior to that of any other writer, Mammata included. I give the definitions of Bhāmaha and Mammata below, so that the reader will at once see the superiority of the former to that of the latter—

आविद्वदङ्गनाबालप्रतीतार्थं प्रसादवत् ॥ काव्यालंकार, २. ३
श्रुतिमात्रेण शब्दास्तु येनार्थप्रत्ययो भवेत् ।

साधारणः समग्राणां स प्रसादो गुणो मतः ॥ काव्यप्र० ८

Bhāmaha's verse shows that a poem with *prasāda* must be such as can be comprehended by all, from the learned right up to women and children. Simplicity and lucidity are acknowledged by all nations to be the first essentials of excellent poetry. Out-of-the-way words and involved constructions must be shunned. That Bhāmaha is very strong on this point is evident from the following additional verse—

काव्यान्यपि यदीमानि व्याख्यागम्यानि शास्त्रवत् ।
उत्सवः सुधियामेव हन्त दुर्मेधसो हताः ॥ २.२०

by which verse he expresses his displeasure for artificial poetry like *prahelikā*. Śrīvatsāṅka-miśra (10th century) in his Introduction to *yamakarutnākura* attributes this verse to Bhāmaha. There is a verse in the *Rāvaṇavadha* of Bhaṭṭi where almost the same words occur, though the idea is quite the reverse. It is as under—

व्याख्यागम्यमिदं काव्यमुत्सवः सुधियामलम् ।
हता दुर्मेधसश्चास्मिन् विद्वत्प्रियतया मया ॥ मट्टि० २२.३४

Unlike Bhaṭṭi, Bhāmaha is of opinion that poetry should

be so lucid that it might be understood by all, not by the learned alone.

The instances given to illustrate figures of speech are mostly Bhāmaha's own composition¹ and the cases where he has borrowed them from other authors are clearly acknowledged. That Bhāmaha was a man of independent views and did not like to slavishly endorse the views of others is evident from the concluding verse of the third *Parīcchada*—

गिरामलंकारविधिः सविस्तरः स्वयं विनिश्चित्य विद्या मनोदितः ।

अनेन वागर्थविशामलंकृता विभाति नारीव विदग्धमण्डला ॥ ३. ५७

That Bhāmaha at the same time knew and consulted a good many writers on poetics is evident from the names of the ancient writers quoted by him,² writers so old that their names, except that of Medhāvīn, are not found in any works available to us. Many other writers are alluded to under the words *anya*, *apara* and *kāncit*.³ Notwithstanding his vast erudition, sound scholarship and independent judgment, Bhāmaha had no pride, as is clear from the following—

न दृष्ट्वायायमुदाहृतो विधिर्न चाभिमानेन किमु प्रतीयते ।

कृतात्मना तत्त्वदर्शा च माहसो जनोऽमिसंधिं क इवावमोत्स्यते ॥ ४. ५१

And it is these virtues that have been chiefly instrumental in his being held in high esteem by subsequent writers of great learning and sound judgment.

1 Compare स्वयंकृतैरेव निदर्शयैरिव मया प्रकृत्या लघु वायलंकृतिः ।

अतः परं चाकस्मैकभाषरो गिरामलंकारविधिर्विधास्यते ॥ २. १९

2 Thus शैलिका सा ह्यदिता रामशर्मस्तोत्रे 2. 19 ; राजमित्रे संबोदितम् 2. 45 ;

तत्त्वार्थस्य after 2. 47 ; रामशर्मणः after 2. 58 ; मेधाविनोत्प्रेक्षाभिहिता कश्चित् 2. 88 ;

समाहितं राजमित्रे मया ह्यन्यसंबोधिताम् 3. 10 etc.

3 Compare— यदर्थं विप्रकारस्य तस्याः कौशिल्यमात्मानिः । २. १७

स्वभावोक्तिरलंकार इति केचित् प्रचक्षते । २. १९

उत्प्रेक्षाविषयं चान्ये संक्षुद्रमपि भाषे ।

भाषिकस्य च विजयलंकारं दुर्मिश्रः ॥ २. ४

धीमत्सहस्रविषयाह्वयपर्याहितस्तुतिः ।

वाच्यमित्वाहुरपरे..... ७. ९

पुनरुक्तमिदं प्राहुरन्ये ज्ञानार्थमेवतः ॥ ७. १२

Technical Sciences

AN ANCIENT MEDICAL MANUSCRIPT FROM EASTERN TURKESTAN

BY A. F. RUDOLF HOERNLE

THIS paper deals with two extracts from a medical manuscript discovered, with other manuscript treasures, by Sir Aurel Stein in the "Caves of the Thousand-Buddhas" near Tun-huang, during his second tour of exploration in Eastern Turkestan. A full account of his discoveries in that locality may be read in the second volume of his *Ruins of Desert Cathay*, pp. 159 ff.

The manuscript is written on thick coarse paper, and consists of 71 folios. It is airanged in the fashion of an Indian pothl, except that the circlet surrounding the string-hole through which the binding cord is passed in the case of the pothl, is here a mere conventional survival, there being no string-hole. The folios measure $11\frac{3}{4} \times 3\frac{4}{8}$ inches, with five lines of writing in black cursive Khotanese script. The writing is guided by faint straight lines, and bounded by similar straight lines on the right and left, which mark it off from narrow lateral margins, about half an inch wide. The folios are numbered in the usual way, in the middle of the left margin on the obverse sides; but they have also a second numbering on the same side within the blank circlets, above mentioned. The marginal numbers run from 44 to 116, and the interior numbers from 1 to 71. This shows that the existing manuscript is merely the continuation of another which is missing. What the subject of this missing portion, on fols. 1 to 43, may have been, is not known, though of course the probability is that it was also medical. In any case, the salivation formula with which the existing portion begins on fol. 44, as well as the interior numbering which begins with 1, shows that the preceding missing portion, whatever its subject may have been, must have contained the text of a separate treatise. Clearly what exists is a portion of a collective pothl. How much more that pothl may have contained is also unknown; for the

last existing folio does not give the conclusion of the treatise to which it belongs.

In three respects our manuscript possesses a special interest. In the first place it is of a secular character, containing a series of medical formulae for the cure of various diseases, while most of the other manuscripts, or fragments of manuscripts, discovered in E. Turkestan, have a religious character, containing portions of the Buddhist Canon. Secondly, it is written in a hitherto unknown species of Iranian language, which up to the middle of the 8th century A. D. was spoken in the territory of Khotan, but since that date has fallen into utter oblivion. Thirdly, it is written in a peculiar cursive script which, for the purpose of secular use, developed in the Khotan territory from a type of the Gupta script introduced from India along with Buddhist religious literature. What this cursive Khotanese script looks like may be seen from the accompanying Plate, which shows the obverse and reverse sides of the 1st and 21st folios of the manuscript. For further information on the subject of language and script the Introduction may be consulted to the First Volume of my *Manuscript Remains of Buddhist Literature in Eastern Turkestan*; also chapter III of the Introduction to my edition of the *Bower Manuscript*, reprinted in the *Indian Antiquary*, vol. XLII, where all needful references to other books will be found.

A further point of interest in our manuscript is that, in addition to the Khotanese medical formulary, it contains the original Sanskrit text of the work from which it is translated, almost verbally, into the Khotanese language. This circumstance furnishes us with a very useful key to the understanding of such Khotanese words of secular import, as naturally fall outside the range of Khotanese translations from Buddhist religious literature.

The original Sanskrit text is written in an exceedingly barbarous type of that language, which presents problems of its own. Neither the name of the treatise, nor that of its author is disclosed in the surviving portion of the work. That portion contains many formulae which cannot be traced in any of the Sanskrit medical treatises of India,

known to me; certainly not in the three standard works of Caraka, Susruta, and Vagbhata. The first formula, quoted in this paper, is an example of this class. But it contains also a few formulae which can be identified in Indian standard works; and of these the second formula, quoted in this paper, is an example. This formula is the so-called *Tryusana-ghrta*, which occurs in the chapter on Cough (*kasa*) in the *Caraka-samhita*, as printed by JIvananda in his first edition of 1877, on p. 732. It occurs also on fol. 320& of the famous Nepalese Ms. of K. E. 303, or A. D. 1183, the oldest known manuscript of the Sarhhita, and on fol. 5516 of the Tübingen Ms. 458 of the 16th century A. D. The chapter on Cough is one of those which were added to the original treatise of Caraka by the Kashmirian Drdhabala, whose date falls somewhere in the 8th or 9th century A. D. (see my *Studies in Indian Medicine, Part I*, p. 16). For his additions, as he himself admits, Drdhabala utilized a number of then existing treatises (see *ibid*, p. 2). It does not seem impossible that he knew and utilized the Sanskrit medical formulary which in our manuscript is translated into the Khotanese language. If he did so, he did naturally (at his time of day) "edit" the formulae which he extracted in that fairly correct Sanskrit in which they now appear in Caraka's Sarhhita. This hypothesis is more probable than the other that the author of the Khotanese work turned the fairly correct Sanskrit of his original into the barbarous Sanskrit of his own composition. The use of barbarous Sanskrit points to a rather early date. Early Buddhist writers, as existing Mahayana treatises show, were not capable of writing good Sanskrit. A medical writer, moreover, without much Brahmanic culture, would naturally write a more or less barbarous Sanskrit.¹ In fact, such writers would employ what may be called a northern vernacular Sanskrit on a linguistist level similar to the vernacular, now known as Pali. Thus, like the

1. Another good example of such barbarous Sanskrit may be seen in a fragment of an astrological treatise, edited by Dr. Thomas, in **Vol. I** of **ray Manuscript Remains of Buddhist Literature in E. Turkestan P. m.**

latter, the northern vernacular drops final consonants, as in *dadya* (*dadyat*), Pali *dajja* (fol. 44 6¹¹¹); inserts superfluous anusvaras, as in *vimsa* (fol. 44 a¹¹¹) for *visa*; and admits a great variety of changes in vowels, such as *varana* (fol. 44a^v) for *varina*, *saidha* (fol. 44a¹) for *siddha*, *kukumasyath* (fol. 44ft¹) for *kumkumasya*, *tvacisya*, (fol. 44 b¹) for *tvacasya*, *baudhasya* (fol. 45 a^{1m11}) for *buddhasya*, etc ; the change of *a* for *t*, and *u* for *u* being particularly frequent, (On the usages of Pali, in all these respects, see Kuhn's Pali Grammar, pp. 21 ff., E. Miiller, pp. 3 ff, 21 ff.) Such considerations tend to suggest that our Sanskrit formulary is a very early composition of a North-Indian medical man, who, to judge from the salutation (*namo Buddhasya*) in the mantra on fol. 45a^{1m11} must have been a Buddhist, though the salutation formula at the head of his treatise (fol. 44 a¹) is of a more neutral character, as would befit a layman. But, no aoubt, the barbarism of the original treatise has been much aggravated by the carelessness, or illiteracy of the scribe who copied the existing manuscript, and who introduced numerous senseless blunders, such as *kecaindad* (fol. 44a¹¹) for *kecaid* (*kecid*), *kustasya* (fol. 44bⁱⁱ) for *kustafn* (*kustham*) *ca*; *bilva* (fol. 64a^v) for *pistva*, etc. They are all, noted in the foot-notes to the two extracts; but some of them, for the present, defy correction, and thus impede the reading and understanding of the text. What adds to the difficulty in such cases is that the scribe is peccable even in copying the corresponding clauses of the translation into his own native Khotanese language, so that the student is forsaken in respect of help from either side, Sanskrit and Khotanese. This happens, *p. g.*, in the opening passage of fol. 44a^{1*11}. In fol. 44a^{lv} the scribe has missed out a syllable in *rbisam* for *harbisam*, in fol. 64 a^{lv} he writes *sti for sati*, etc., Other difficulties are created for the student by the scribe's occasional confounding of two aksaras of similar shape, such *a,spha* and *ha*, in *vimsdpapha* (fol. 44a¹¹¹) **for** *wtiisdpaha'*, or *ya* and *yha*, in *prnyatta* (fol. 46a¹) **for**

prraghatta (*praghata*), etc.; and by his inordinate proclivity to insert the anusvara in and out of season, as in *upamryampari* (fol. 44 a¹¹¹) for *uparyupari*, *namladamsyam* (fol. 44 a^v) for *naladasya*, etc. Occasionally, also, he inserts a superfluous r, as in *kUmrkiimna* (fol. 44 6*) for *kumkuma purttana* (fol. 456^{1v}) for *putana*; *ghrrattarthi* (fol. 64a^v) for *ghrrattatti* (*ghrtat*). In addition, there are for the student certain pitfalls inherent in the Khotanese cursive script, especially the difficulty of distinguishing between n, nw, and t, tt; e.g. *Jttasya* (fol. 45 a¹) for *tasya*, and *nnasya* (fol. 47 a¹¹ⁱ) for *nasya* are written exactly alike; likewise between long a (distinguished in this paper typographically by accented d) and u; e. g., *nlldmttpala* (fol. 446¹¹¹) for *niluttpala* (*riilotpala*)} Other difficulties of this kind are peculiar to the cursive script of our manuscript; such as the practical identity of the symbol for virama with the symbol for /, i, e. Thus the apparent *saddhami* in fol. 44a¹, *bhavatte* in fol. 44 a^v, *ghrrattatti* in fol. 64 a^v,) really represent *saddham*, *bhavet*, *ghrattat*, etc.

A striking peculiarity of our manuscript is the total absence of the well-known double dot which indicates a sound intermediate between *a* and *i* (or *e*). It is one of the distinguishing marks of the ordinary Khotanese script and language; yet, in our manuscript, it is totally absent. To what cause this neglect of the double dot is due, whether to a mere personal whim of the scribe, or to a peculiarity of some local dialect, or linguistic period, is not apparent at present. It has not been observed by me in any other Khotanese manuscript.

The arrangement of the following two extracts is as follows: (1) a romanized transcript of the text its Sanskrit clauses being printed in italic type; (2) a restoration of the Sanskrit portion into ordinary popular (not classic) Sanskrit; (3) an English translation of the Khotanese portion.

FIRST EXTRACT

[Fol. 44 a]¹ *SaddhamV namau brrahmane*² *aurga tta brrahmam halai — namau saidkavaidyadharwhriam- aurga tta saidhavaidhyadaram rasana halai=bhagavam brrasmi*¹¹ *ttarvma** [=] *jasta beysi ttatta hve si ttu tta mahajsS = brrunu* tta*⁵ *vuksyamme Jivakam*⁵ *sarvamtha = puja va hvSmnu tta harbaisa padya=2/e kecainda*¹¹¹ *d^{ti} agada simte*⁷ *=cabure heca*^H *agade : jathbudvipe vimsdpapha- jariibviyi bipa*⁰ *himsakye—upamryaihpri sarvi so*¹⁰ *uskatta u*^{lv} *skatta rblsam*¹¹ *agadam myamfia=a/&aw mksyammi ttabk*¹² *brruyu = aysetta hvaiinu tva pu=parapilavasyam catvare:*² *par-apilava tcau ma*^v *carhgyi = catvarau namladamsyam ca = tcahau macarhgyi gamdhanalamdha = camdanasyam*¹³ *catvari—camdam tcau macarhga=catvarau agara*₁ *bhavatte:*¹ *tcahau*

1 Read *saddham*, and 1. 5, *bha vet*.

2 Interpunction is made here and elsewhere by a single or double comma (prone), or by a single or double dot (like visarga), corresponding to the modern single or double bar; a double bar, in addition to the double comma, however, occurs on fol. 45 a¹. Where the Ms. omits interpunction, it is added within square brackets.

3 Reading of *ttarvma* very uncertain.

4 Corruption of *varnam*.

5 Omit both *tta* and *Jlvakarii*; the former is a Khot. intrusion; the latter does not occur in the Khot. Version; both are in excess of the metre.

6 Read *kecaid*, om. *nda*.

7 The original in the Ms. seems to have been *samte*, afterwards altered to *simte*.

8 Apparently a total blunder for *hame*; *ca* and *ma* are not unlike in cursive script; hence in rev. 1. 5 probably *marajsai* to be read for *carajsai*.

9 Perhaps read *bisa*.

10 Read *sarvtsa* (*sarvesam*); the interpunction is misplaced, and *sa* turned into the Khot. pronoun *sa*.

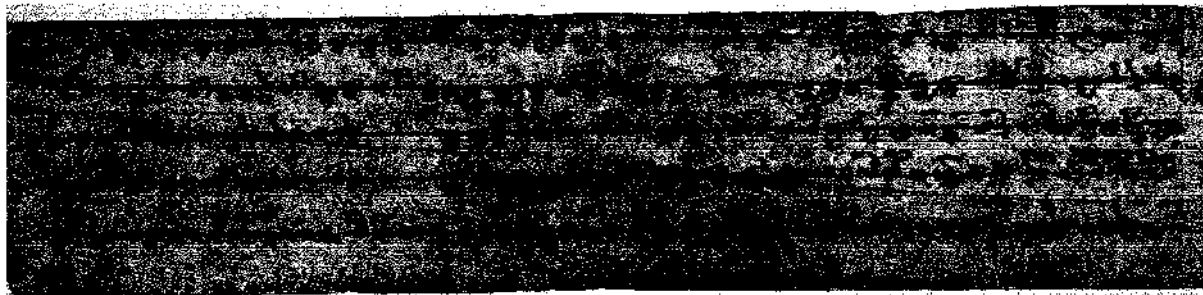
11 Read *harbUam*.

12 Read *tad*.

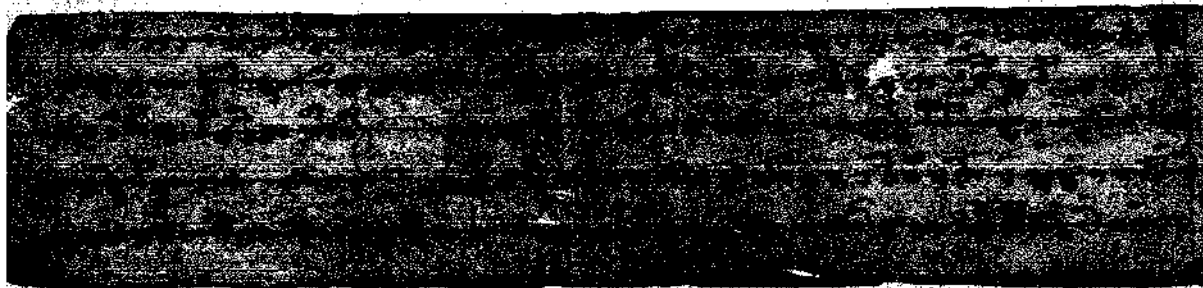
13 Insert *ca* to satisfy the metre. It is inadvertently missed out by reason of the following *ca* of *catvari*. Similarly in rev. 1. 1 read *pSfca*, its *tea* being missed out by reason of the following *tea* of *tcahau*.

14 Orig. reading was *agare*; afterwards altered to *agara*.

Ancient Medical Manuscript from Eastern Turkestan. Folio 44



Obverse



Reverse

[Fol. 446 I¹ raacamgi agara hami = *tvacisydpi vafh*]
catvdri = *tvaca* pa *tcahau* *macarhga* = *catvard kukumasyam*
ca *tcahau* *macaihgyi* *kurhrkuihma* *tta¹¹thd* *vydghrrana-*
khasydp = *ttu* *pad!* *vyaghrranaka* *sai* = *dadya bhagam*
cattustiyi = *ha, lireimna*, *tcau* *macarhga* = *pamf?* *mautpalam*
*kustasya*³ = *parhjsa* *ma^mcarhga* *nllamttpala* *u* *kausta* =
hiraviram *ca* *amstamam* : *hiravl* *hasta* *macarhga* = *pamca*
suksmelayd *dadya* = *parhjsa* *macam** *macarh^{lv}ga* *suksmila*
hurarhiia—*bhaga suttalita*⁵ *bhimmka*⁶ = *nasina* *huvama-*
vatta *arvi* *vijani* = *amny¹* *attamna* *mrvamni* :^v *ttaburi*
arvi *harbisa* = *pipayayi*⁸ *varana* *saha* = *ucajsa* *harhtsa* =
ttattra *mamtrapada* *simdha* : *carajsai* *pirmattarh* *sirhda-*
variida =

[Fol. 45a]¹ *brrunu vaksyamma Jivakam* = *pu* *cveva*
hvamnum *tta* *vatcarh* *tatta* *arvi* *safia* *u* *sa* *agada* - *M*
tadyatha *kisi* *kisi* *kisa* *lanibi* *hili* *hilim* *namau*¹¹ *baudhasya*
simdhyamttu *mamtrapamdarnP* *svaha* - *aga* *ttayi* *ttauvi*
 = *sa* *vlja* *caarh* *tva* *agada* *suhye* = *Imi* *mamtram* *udahari* :
tta *arhnayaihda*¹¹ *sa* *marhdr* *hvanai* = *suca* *mrtiahyina* *butva*
 = *surai* *vl* *huyslnau* *tta* *hamarhna* [=] *vasvi* *samahye* = *si*
tvava *nasarhni* [=] *pUsyayaug?* *id^{iv}* *budamdm* = *pvisa* *nak-*
sattra *vlra* *bvarhma* *ya* *vljina* = *sa* *kiri* = • *ttasya* *karma-*
guna *krraitsna* = *ttye* *agadi* *hlyi* *kira* *bvimjsi* *aha^vrlnaka*
 - *brrunu vaksyamma Jivaki* - *pu* *aysi* *tta* *hvarhnuh* *Jlva* = •
sarvaraugaprrasamani-harblsam *acharh* *nasi* *mmak* *a* == *sama*.

[Fol. 456]ⁱ *sa gagattdttama*¹⁰ - *harhbicajsasam* *sa* *ag^ada*
plrmSttama *hvava* *puvimsthartai* *tta* *hvarhnarh* = *yisu*

1 Read *ca*.

2 *Ca*, having been inadvertently omitted, is inserted below the line, and the place of insertion marked above by a cross; similar oases are in fol. 456^v and fol. 46a^v.

4 Omit one m3c5rh.

3 Read *fcUffam* *ca*, as required by grammar and by Knot, version.

5 Read *satulita*, as shown by Knot. *hUvamavatta*.

6 Read *bhimsak* (*bhiqak*) to satisfy metre.

7 Read *dravyamny* (*dravyani*) as required by metre and Khot. *arvi*.

8 The aksara *ya* is imperfectly formed; perhaps the reading *pipayi* is intended, i. e. *pipayet* for *payayet*. Its Khot. equivalent is omitted.

9 In order to satisfy the metre (if the clause is part of a verse) two syllables have to be omitted, reading either *mantrftrii* or *padani*.

10 Blundered for *jagattdttama*, i. e. vernacular Skr *jagata* and *uttama*.

*rgaus'u bhirnsajya [=] karhmyam acharii*¹¹ *vl sa arva I: diva-*
gatidhayiksisu} = jasta gamdharvi yaksa - prllta darum-
*rid raksasa = prrlyi biysamna raksaysi =*¹¹¹*sarvabhuttava-*
*karisu = harbisam buvajam acham vira—lalatim*² *upaye =*
sa agada hamdrrauja plsilyaih^{iv}*fia = sammyatti sarvavittari-*
da: nasamaramjsa harbimsa vittala = purttaria krraittavi-
*dhaka = buvau*³ *kura hlra = khakhau*^v*da sviva sarhmyatt =*
*canumjsa*⁴ *patca bimsa nasamari = grraha yau ca sudaraya*⁶
 [=] *kammara jsamna ttagrra/iacuvlhl Jysamna = sarvi**

[Fol. 46a]¹ *suprraydttdrtham*⁷ = *harbisam pahijammi*
udasayi = agada saw.uddhyatti =^s*sa agada hvava sti = hala*
*halaisu samyuhttam [=]*¹¹*cu halahala binaskva Ide = vasapi-*
ttasu ddrdna^r*=*⁵*cu va eha ttrraiksa blal = pitta slttamna*
*ttauyina: khasamna*¹¹¹ *pvayi ucana = sattyd cavitti* narava-*
sam = ttani thyau vlnabe hamare—banavidasu gattrlsu = ca
va ainga ttana^{lv} *rvaha tcasta u hvasta = dyu vasi*¹⁰*dusatti*
 [=] *prraha randyaujsa bivudau = vrrartdlaipannimattreria =*
viranam bai^v*da sakhalyamna masvarhfhiajsa = vrravudisa*^u
prramucatta = viraih hlve gamjsajsa gusta = jantavd ye ca
*drraista*² *sya = kamma + jsamna a-*

1 Read *gamdharva*, and satisfy the metre.

2 The pada is short by two syllables; read *lalata-tatam*.

3 Probably read *bavanna* (Skr. *pUtana*), the aksaras *u* and *nna* being not very dissimilar.

4 The aksara *nu* is imperfect in the original; it might be meant for *yu*, but *canu* is reminiscent of Skr. *canda*.

5 Read *dtiruna*.

7 Read *suprraghntt&rtham*.

6 Read *sarviquam {sarveṣcim}*; *i* for *e* is not unfrequent in this Ms. see *yikfisU* and *vakariqa* in 11. 2 and 3; possibly the two vowels were not clearly written in the original Ms. from which our scribe copied. After *sarvi* there is a washed out aksara, but it looks rather like *na*,

8 Read *samudahrtti*; aksaras *hya* and *hr* much alike; moreover the original spelling was *hyatte*, but *e* is washed out and replaced by *i*.

9 Read *bhavati* or *bhavet*, as shown by the Knot, *hamare*; also read *sadyo*, for Knot, *thyau*; and *narvasam (nirvisam)*. But the metre of the p3da is out of order; it either runs *sadyo bhavati narvaṣam*, or *sadyo bhavet narvasam*.

10 Read do?S.

11 Read *vagina (visena)* to satisfy the metre.

12 Read *klaista {klitfa}*; aksaras *drr* and *fee* much alike; read *aj/3*

[Fol. 4661¹ phlda prrarhnarh hamarhde = *yaura*¹ *paramp darurta* = blysarhna blhi ttraiksa = *daheyu vastamattranmni*² => cu hvarhnda padaⁿjsida dusta masu - *ttesamm apavasakhyu*³ = ttyam hlyai pabe pahaisaerh = *yasyi hastagatta naittyam*^{*4} ca tteye baida sa agada¹¹¹ hamave = *papa ttasya na jayatti* = tteye heri visurhna hlra na hamare - *sarva ca sadayi cdrtham* = harblsai hava sai^{iv}di: *putayista*^{*} na jayitte = patcapatci upadrrava na ysyare = *ye va gaura vabai dtsthai*³=cu biy-sarhnai bena dusti = *vasa*^v *svastasu sdmnitta*? = bena umya aphi^{de} huihnajsi: *ttesam kakapadam murdham* = ttyarhjsa vasalaka tcera ttera baidi — *krraitva dadya*

[Fol. 47a]¹ *gadaunta*^{e'} = tcera ttera vira haurarhnai sa agada = *mukhatas tu ttrayau dadya baidavau*¹ = ehirh drrai kane sa agada haurarhfa—*nasta ttraye*⁷ = haⁿysgva drrai kane: *agadena va*^{*} *lipeti* = tteye agada sakhalyarhnarhmejsa = *ttatta samjlvattam supttam* = sa bina mauda hve paskyasta bujvaiye = *ttra*¹¹¹ *bukldinnam dastC* = gunaysyarh sajjava durstuh[^]*luttam musakam vesfp*" [=] cu vlsurhnnnyarh dusta u mularh drrvarhndyaujsa = *nnasyapamhnam*^{iv} *jan&laipu*¹⁰ [=] haysgva khasa arja¹¹ samkhalyunam [=] *lvadhamnna narvasp bhavi*: dyenarhjsa vi naube hame = *strinam va*⁸ *wudhagar-bhamnam-ka,ihma*, tta striye cii harh^v jyaramaicham avamaichlde. *yauvaleparh prradapaye*-ttyam puramfia samkhalyarhna u¹² haurarhfa: *vasucakayam ghaurayam* = • ca va pejsa vasuja I : ^v ¹ *dadya mana varana*: grrammye ucajsa huramna: *raksa karsu*¹³ ca *balamnarh* [=] aysdirja tcairai slkalakam = *suprrajamnam prrajdyitte* = *sarasaram*

1 Read *ghaura* (*ghora*).

2 Apparently read *usta*, burnt.

3 Text irremediably corrupt.

4 Omitted in the Knot, version.

5 Corrupt; perhaps read *putayak ca*.

6 P5da short by one syllable; perh. read *gadauntaka* (*ganddntakam*).

7 The text of this sloka is quite out of order, and wants two syllables.

8 -Read *ca*.

10 Read *pamndmjana*.

9 Both pgdas are short by one syllable, and otherwise corrupt; possibly *ttrabukldittarh*.

11 Perhaps read *amja*, or *amjana*.

12 The aksara *u* is here out of place; its right place is below in the 6th line, where it is required to complete the blundered reading *snana* and to satisfy the metre; the correct reading is *uqnana* (*uqnenā*).

13 *Karsa* makes no sense; probably read *kurya* {*kurylit*}.

[Fol. 476]¹ jsa pura ysyarhre cvai baida bldi:
 yavamd arthavarsa} pava = camdai ksaml ham a yi bi
 khase [=] tarva² sau³ kurvattarh ksaprrri = ta sa bevai
 padlme thyau [=]^u hasta⁴ vl dlra na Idi => vrraiksa aidr-
 rdrthinar² yatha = khu Sakrrana pasa asuna bahya -
 bijevetta sa agada bijevaki =bhagava^m ttau bhcisitta Sva-
 stakam nnamma mahdgada samdpтта = jasta beysinahvava
 Svastaka na mm a agada dasya I)

RESTORATION OF THE SANSKRIT TEXT⁵

Siddham I namo Br ah mane namo Siddha-vidyadharanamll

[Fol. 44a]

Bhagavam abravl[d] yoga-varnam vaksyami sarvatha 1°

ye kecid agada santi Jambudvlpe visapaha[h] II1II

Upary-upari sarvesam aharh vaksyami tad-varnam I

paripelavasya⁷ catvari catvaro naladasya ca I) 2II

Oamdanasya[ca] catvari catvaro agara bhavet I

tvacasyapi ca catvari catvaro kumkumasya ca II 3 II

[Fol. 44b]

Tatha vyaghranakhasyapi dadya[d] bhagam catustayam

pamcam⁸tpala-kustbam ca hiriveram ca astamarh* 114II

Pamca suksmelaya dadya[d] bhaga sutulita bhisak I

dravyany etani sarvani payaye[d] varina saha 115 II

1 Read *tarsa*, thirst.

2 Read *tava* (*tavat*), and similarly in 1. 2, *drthina*.

3 Read *sau* {*so*}; the cerebralization probably due to the analogy of Knot. *sa*.

4 Probably read *hasta*, 'here'.

5 This is merely a rendering into the more oommon vernaoular not classic Sanskrit, to facilitate the understanding of the very barbarous text of the Ms.

6 The orig. text is irremediably corrupt. The emendation is suggested by the Knot, *hve*, he said. The spelling *brrunu* for *varnam* is very curious, but its genuineness is confirmed by its occuring four times in the same clause, fol. 44o¹¹ a^{lv}, 45a¹ a^v, and by its equivalence to* Knot. *pUja* or *pU*.

7 So in both, Skr. and Khot. texts, but it is in excess of the metre by one syllable; the shorter form *paripela* which would suit, however, also exists; see M. Williams' Skr. Diet.

8 *Parhcama* and *astama* are treated as aggregatives, like *pamcaka* and *atfaka*.

Tatra mantrapada siddha varnam vaksyami Jlvaka [h] I

[Fol. 45a]

Tadyatha I kisi kisi kisa Iambi hill hilim I namo Buddhasya I

Siddhyamtu mantrani svaha I imam mantram udahare[t]II6

Sucasamadhina bhutva Pusyayogena buddhimam I

tasya karmaguna krtsna varnam vaksyami Jivaka[h] 7

Sarvarogaprasamanam samasa[d] gaganottamam I

[Fol. 4561]

yesu rogesu bhaisajyam 8¹

Devagamdharvayaksesu pretadarunaraksasam I

Sarvabhutavikaresu lalata-[tata]m upaye[t] II9II

Samyati sarvavitanda putanakrtyavedhaka I

Kharkhoda svita samyati graha ye ca sudaruna II10II

Sarvesam supraghatartham agada[h] samudahrta I

[Fol. 46a]

halahalesu samyuktarh visapitesu darunam Hill)

Pltam sltena toyena sadyo bhavati nirvisam i

bapaviddhesu gatresu ayur visena dusyate II12II

Vranalepanamatrena vranadosah pramucyate I

jantunamyecaklesam[h]²sya[d] ghorah paramadaruna[h]

11X311 [Fol. 466]

1 The omission of the 4th pSda in si. 8, and of the 3rd pSda in si. 20* might seem to compensate each other. But if that be so, the metre of all the siokas after the 8th is out of order. Now at the place of the missing 3d pSda in sl. 20, the Ehot. text has the remark *hafsā vl dira na Idtt* i. e., in this there is no failure, which does not occur in the Skr. text and which we rendered by the pada *asmn akuhālam ndsti*. As to the missing 4th pada of sl. 8, one expects a demonstrative clause to complement the preceding relative clause, and the olause *tta hvamnam*, i. e. "that I shall say" in the Knot, text does seem to suggest that a coraple* ment such as *bhavet, tany aham vaksyami* has dropped out of the Skr. text.

2 The Ms. has *jantavd ye ea drraiaa (klaistH)* which does not agree with the following olause. The emendation is suggested by the Khot. version which does agree with it.

Daheyufr] ustamatrena tesam apavasakbya¹ \
 yasya hastagatam nityarh papam tasya na jayate 11411
 Sarvarh ca sadhaye[d] artham putayas ca² na jayante I
 ye ca ghora [vabaidistbai vasasvastasu³] sonite 11511
 Tesarh kakapadam murdhni krtva dadya[d] gadantakam I
 [Fol. 47a]
 mukhatas tu trayo dadya[d] bindavo va nastas tttrayo II16II
 Agadena ca limpeta tatah samjlvati suptah I
 mutrabhu-kltena dasto lutamusakena vesta[h] II 17 II⁴
 Nasyapanamjanalepa[d] vidhina nirviso bhave[t] I
 strlnam camudhagarbhanamyonilepaihpradapaye[t] II18II
 Visucikayam ghorayam dadya[d] usnena varina I
 raksam kurya[cp ca balanam suprajanam prajayita II19II
 Yavad arthatarsafh] pive[t] tava[t] sa kurvati ksipram I
 1 vrksam Indrarthina y atha II 20 II
 Bhagavato bhasita Svastaka nama mahagada[h] samapta[h]
 II :: II

1 The Ms. is here quite corrupt, and its metre is short by one syllable; but for the present I am unable to suggest an emendation, as the meaning of the Khot. version is unknown.

2 The Ms. text has *putayikta* (or *ptnayista*) which is not intelligible. The emendation is suggested by the Khot. version *patca patcl upadrava* which seems to mean "after-troubles."

3 The Ms. readings *vabaidiQthai* and *vasasvastasu* are quite corrupt; they correspond respectively to Khot. *benā dusti* and *benā umya*, which however themselves are doubtful; *umya* seems to mean 'latent', Skr. *supta*; and Skr. *vabai* and *vasa*, both representing Khot. *benā*, might be corruptions of *visa*, poison. The reference seems to be to the so-called *dusi-visa*, or slow poison settled in the blood, in the treatment of the I ast or most severe stage (*vega*) of which the *kakapada* incision is recommended in *Caraka-sarhita*, Cik. Sth., xxv, verses 29, 61, 64 (Jlv. 2nd ed. pp. 725, 727) and in *Sufouta-samhita*, K. Sth., I I, v. 48, and V, w. 21, 22, 42, 43 (Jiv. 5th ed. pp. 567, 580, 582).

4 Both text and metre of si. 176 are badly corrupted in the Ms. The doubtfully suggested emendation is based on the Khot. version.

5 The Ms. reading *karsa* makes no sense. The emendation is suggested by the Khot. *tcaxrai*.

TRANSLATION¹

[Fol. 44a]¹ Reverence towards Brahman! Reverence towards the Siddhas, Vidyadharas, (Rsis).²

The divine blessed one (Jlvaka)³ thus spake:}} Of this formula I will speak the praises in every way.⁴ iii Whatever antidotes there are in Jambudvīpa, i^v of the topmost among all of them, of that I will now say the praises. Of Paripelava (Cyserws *rotundus*) four parts,^v and four parts of Gandha-nalada (fragrant *Nardostachys Jatamansi*, Indian spikenard); of Candana (*Santalum album*, sandel wood) four parts; [fol. 446]¹ four parts of Agarū (*Acquilaria Agallocha*, aloe wood) there should be; of Tvaca (*Cinnamomum zeylanicum*, bark of cinnamon) also four parts; four parts of Kumkuma (*Crocus sativus*, saffron);¹¹ moreover of Vya-ghranakha (*Unguis Odoratus*, lit. fragrant tiger-claw) let be given four parts; five^{U1} parts of Niltpala (*Nymphaea stellata*, blue lotus), and of Kustha (*Saussurea auriculata*, Indian costus), of Hrlvera (*Pavonia odorata*, a fragrant root) eight parts; five parts of ^{1v} Siiksmela (*Elletaria Cardamomum*, Malabar or small cardamom) should be added, well-weighed by the physician (lit. expert in drugs).^v All these drugs should (be drunk)⁵ with water. At that moment an effective sacred formula (comes in); [fol. 45a]; its

1 As close to the Khot. text as possible, irrespective of style.

2 Khot. *rasana*, which is not in the Skr. text, and is doubtful; perhaps *rstnam*.

3 Jlvaka is only in the Skr. text, not in the Khot. version; but he occurs in both texts below (fol. 45a^v). He is represented as the author of the formula. For other examples of formulae of Jlvaka, see my edition of the Bower Ms., pp. 178, 180. Of course, the term *bhagavafii*, Khot. *jasta beysa* might refer to Buddha, in which case *Jlvaka* would have to be taken in the vocative case, as addressed by Buddha; but the term *bhagavat* is in the treatises of Caraka, Susruta, and others regularly applied to great medical authorities, such as Dhanvantari, Atreya, Nimi; and, anyhow, it implicitly marks the formula as one of Jlvaka's.

4 Translated as suggested by the Khot. *hve*, he said, Skr. *abravt*. The Skr. text is here irremediably corrupt.

5 Inadvertently omitted in the Khot. version; the Skr. has *pipayayi* (*pilyayet*); the Khot. would be *khafcrhfa*.

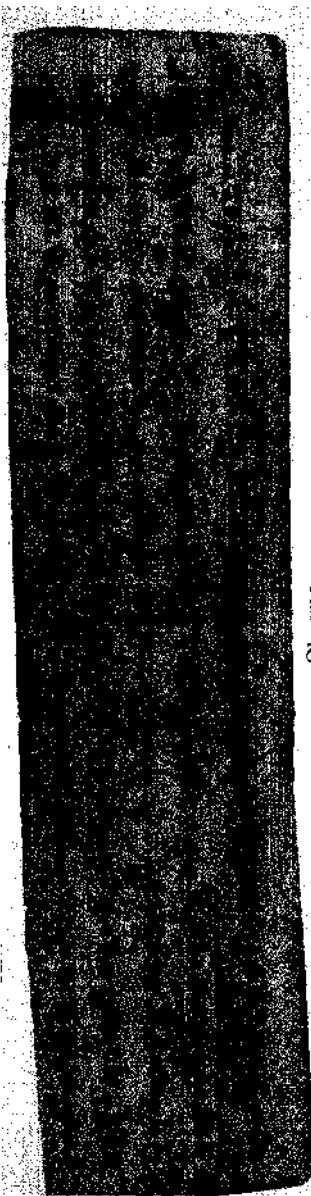
praises (i. e. terms), as follows, I (Jlvaka) shall say, along with each of the drugs and the antidote¹: " Kisi kisi etc. reverence be to " Buddha, may successful be the charm- Words, Svaha! " The physician, when he prepares the antidote should reverently¹¹ say this mantra, in purity, well disposed. ^{1v}The wise physician should be in puresamadhi, in one state (of mind)² concentrated, at the time of the Pusya asterism. As to its works; of the^v complete virtues of the works belonging to this antidote, I Jivaka will now say the praises. Of all diseases it is a healer; [fol. 456]¹ among the whole number of antidotes this is said to be the most excellent in the universe. I will now say in what diseasesⁿ it is a remedy. In all diseases due to Devas, Gandharvas, Yaksas, Pretas, frightful Raksasas,¹¹¹ Bhutas this antidote is to be applied to the forehead.^{1v} It gives relief from all Vetalas, Putanas, attacks by witchcraft^ it gives relief from Kharkhoda magic, leprosy. Whatever Grahas there are, most terrible, [fol. 46a J¹ for the purpose of defeating them all this antidote is declared.¹¹ In contact with Halahala, which indeed is the most terrible (of poisons taken) by the mouth,³ it is to be drunk¹¹) with cold water; upon, that it (i. e. Halahala) becomes innocuous. If any limb^{1v} by a (poisoned) arrow is struck and wounded, and life by its poison is endangered, (then) by merely smearing it on the wound, the mischief attaching to the wound is expelled. Whatever [fol. 46b J¹ disease

1 Conjectural translation. Apparently the Mantra is to be repeated along with the addition of each drug, and again at the completion of the whole prescription. This is suggested by the clause which follows the Mantra, though the meaning of the phrase *agatnyittauvi* is not intelligible.

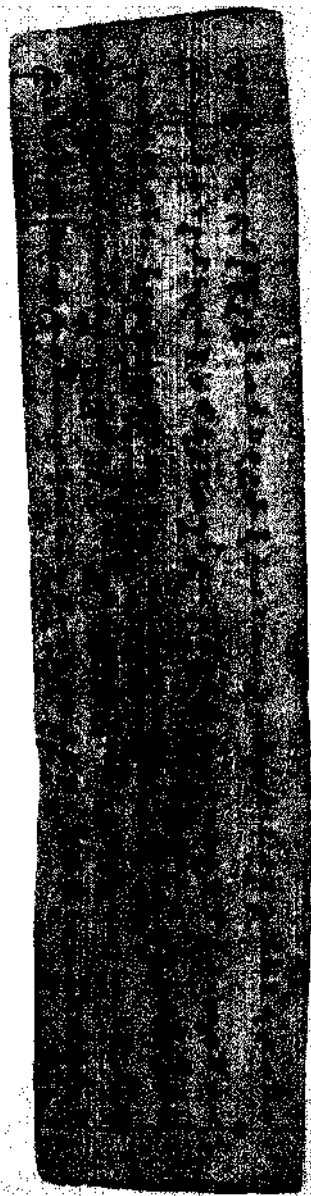
2 The "one" state of mind is "I am brahman"; see *Sabdakalpadruma*, vol. v, p. 271, col. 3, *aham brahmy avast hTlham samadhir iti Oyate*.

3 The Khotanese interpretation has *eha ttraikqa*, lit. mouth terrible. If *eha* is the same as *ehifii* in fol. 47a* where it renders Skr. *mukha*, mouth, it would seem that a word meaning "drunk" is omitted, corresponding to Skr. *viyapita*, poisonous drink,

Ancient Medical Manuscript from Eastern Turkestan. Folio 64



Obverse



Reverse

of living beings there may be, frightful, very terrible, which¹¹ burn men like fire, their mischief it counteracts.¹ In whosoever hands this antidote is, with respect to him there are no threats of danger;² all his objects prosper;^{1v} nor do any rotten things spring up. If by dreadful corrupt poison^v latent diseases are in the blood,³ for them a kakapada (Crow's foot) incision is to be made on the head; [fol. 47a]^l having been made, this antidote is to be given. By the mouth three drops of this antidote should be given, by the nose three drops. Upon being anointed with this antidote, a patient (lit. a man), without consciousness, again revives.¹¹¹ If any one is stung by ordure-born insects, or attacked by spiders or rats,⁴ by (this antidote in the form of an) errhine, potion,^{lv} eyesalve, ointment, properly administered, he becomes quit of poison. Whenever women are^v suffering from difficult labour, to their genitals it should be applied. When there is a case of severe cholera,^{lv} it should be given with warm water. It affords protection to children, and [fol. 47b]^l when successfully sons are to be born, it gives support. Whatever desiring, any one drinks, of that it procures accomplishment quickly ;¹¹ in this there is no failure; just as the tree (did) for Indra (Sakra) desirous of deliverance.⁶ This antidote or destroyer (of diseases) does (truly) destroy.¹¹¹ Here the (great) antidote, named Svastaka, spoken by the Divine Blessed One, ends.

SECOND EXTRACT

[Fol. 64a]^{1v} Drrusani ttraphala drraksa kasmiryamni parusakarh dvi pathi sarilarh vyaghril svagiippta caittraki

1 Conjectural translation; the Skr. text is corrupt, and the Knot, version unknown.

2 Here the Khot. *vUariina hlra* renders the Skr. *papa*, evil angury.

3 The Skr. text is corrupt, and the Khot doubtful; see foot-note 3. on p. 426.

4 The exact meaning of the text is doubtful, exc. spiders and rats.

5 This seems clearly to be the meaning of the text, though I do not know to what mythological story it refers.

stl radha^v ttamalakl meda kskanasa 6att5vari: ttrrhkarh-
taka bidari ca bilva² karsasamam ghrrattar³ pprasthaih
catturgunam ksira saidha kamsamhara pavetta =

[Fol. 646 J¹ jvira gulma ruca pllha sarau hrt parsva
raugakd⁴ karhmalarsau nalastila ksata sausa ksayampaha
Drrusani namma vikhyatam attain anuttami¹¹ ttraisanarh
ghrratta (I *Papala nnamgara miraijya: halirai vlhllai*
ammalai gura kasmiry^t parusa patha : lagarabava : devadari
kam[^]darya aⁱⁱⁱtmagupttai caittri salam raidhi ttamalaka
mida mahamida² kakanasi hamravi ttragulye bidari bila si
pana arva dvi dvi macamga ha^{1V} samafn kutathfii: gviham
rU dva himga halai xvida sau sagam hamida hafli tcerai si
ru pachai nvadaina kamlana khasamfla phahiji_vda⁵ ttava
gdm^{mi} apusa" spaija raha : kamala raham⁷ jaida ysara

1 Bead *satl*.

2 Read *pistva*. The reading *bilva*, involves a curious problem AU Indian authorities (see footnote 4, p. 431) read *pistva* and count only 19 ingredients, while our Ms. text, with its *bilva*, counts 20 ; and its count seems supported by tho fact that it renders Skr. *bilva* by Knot. *bila*. But, on the other hand, it renders Skr. *pistva* by Khot. *kutarhfii*. Now,¹ the insertion of both, *bilva* and *pistva* in the Skr. text is incompatible with its metre, while the omission of *pisfva* in favour of *bilva* is not compatible with its sense. On the whole the probability seems, to be that the Indian reading is correct, and that our Ms. is wrong ; and that its wrong reading is due not so much to the author of the Khot. version, as to the scribe of our Ms., who, moreover (as the footnotes show), is guilty of numerous other blunders. He would seem to have misread *bilva*; and inserted the supernumerary ingredient *bila* to suit his misreading. The supernumerary *mahamida* is probably also due to him. It is not in the Skr. text.

3 Read *ghrrattatti* ; for *ghrrattntt* with virSma indicated by *i*.

4 Read *rauganu* (*roganut*), and below, in I. 5, *gummi* {*gulma*}; in both cases with *d* for *u*.

5 Read *pahijida* ; ef. fol. 46aⁱ. 6 Read *arusa*, as in fol. 526".

7 Read *raham*, as elsewhere.

*rahafh tvesva¹ vine² arja vattastila paijvaghahiye nastausai
ksaye*

[Fol. 65a]¹ *plreda: ttrusald* namma rum bausta ste
vimsthari II II*

RESTORATION OF THE SANSKRIT TEXT⁴

Tryusanam triphalarh draksam kasmariyani parusakam I
dve pathesaralam vyaghrim svaguptam citrakamsatim 111
Rddhirh tamalakirh medarh kakanasam satavarlm I
trikantakam vidarim ca pistva karsasamarii ghrtat II 2 II
Prastham caturgunam kslram siddham kasaharam pivot I
jvara-gulm-aruci-phiha-siro-hrt-parsva-roga-nut II 3 II
Kamal-arso-'nilasthila-ksata-sosa-ksay-apaham I
tryusanam nama vikhyatam etad ghrtam anuttamam II4H

TRANSLATION OF THE KHOTANESE TEXT

(The three acrids, viz.) long pepper, dry ginger, black pepper, (the three myrobalans, viz.) chebulic, b©lericemblic, grapes, (fruits of) Kasmariya (*Gmellna arborea*), Parusaka (*Orewia Asiatica*), Patha (*Stephaniu hernandifolia*), Lagara.

1 Read *pesva*, as in fol. 526".

2 Owing to confusion, by the Khot. scribe, ot Khot. *kamala*, head with Skr. *kamala*, jaundice, the latter is omitted after *vine*.

3 Probably read *ttrttqana*.

4 See *Caraka-samhita*, chap, on *kJisa*, p. 732 of JIvananda's 1st ed. of 1877, which is supported by the oldest known Mss. In his 2nd ed. of 1896, *devadaru* is printed for *sarala*. The latter is supported, so far as I know only by such late Indian authorities, as Ind. Off. Ms. 359 (fol. 99 b) Decoan Coll Ms. 925 (fol. 292a) and Sena ed., p. 762 ; but it is now shown to have the respectable support of our old Khot. Ms. Anciently the two trees seem to have been taken as identical, though now they are treated as different, *Pinus longifolia* (*sarala*) and *Cedrus Deodara* (*devadaru*). The 2nd ed. prints also *brUhmī* for *vyaghrī* for which I know no authority. An altogether different *tryiCqana* formula occurs in the chap, on *gulma* of *Caraka-samhita* (JIv. 1st ed., p. 513, 2nd ed. p. 488), adopted in *Asanga Hrdaya*, II, 252, *Vangasena*, p. 473, *Siddhayoga*, p. 271, *Cakradatta* (Sena ed.), p. 348.

bSva¹ (root of Rasna, *Vanda Roxburghii*), Deevadairu (*Cedrus Deodara*), Karhndarya (Vyaghrī, *Solanum xanthocarpum*), Atmagupta (*Mucunapruriens*), Citraka (*Plum' bago Zeylanica*), Sati (*Curcuma Zedoaria*), Rddhi (unknown), Tamalaki (*Phyllanthus Niruri*), Meda and Mabameda (both unknown), Kakanasa (*Asclepias curassavica*), Sarhravi (Satavari, *Asparagus racemosus*), Tragulye (Tri-kantaka, *Hygrophila spinosa*), and Bidari (*Batatas paniculata*)? these several drugs, each equal to two macamga,* should be ground, and together with two gimga³ of cow's ghee and one saga¹ of cow's milk made into paste. This ghee, having been boiled over a slow fire, at the right time should be drunk. It cures fever, abdominal tumours, distate for food, disease of the spleen. It overcomes headache. It removes diseases of the chest, pains in the sides,⁴ piles, tumours due to deranged air-humour, wasting sores, consumption, general waste. This is the excellent, widely-famed ghee, named Tryusana.

1. The "two Paths " of the Skr. text are in the Khot. version taken to mean *patha* and *rasnd*.. In India they are now identified with *pnthci* and *pat-ala* (*Vaidyaka-babda-smdhu*, p. 594), or with *patha* and *svasai*, (*Rajanighantu*, Anandasrama ed., p. 20).

2 Here is illegitimately added *Bila* (Skr. *vilva*, *Aegle Marmeloa*).

3 MSoSnga is equal to a tolaka or half a karsa; simga, to one prastha; and saga to one £(haka or four prastha.

4 Here the Skr. text inserts *kamala*, a kind of jaundice, which is inadvertently missed out in the Ehot. version, apparently due to the similarity of its name to the Khot. name *kamala-mha* for headache. The Ehot. name for *kamala* is *hakau-rauga* (fol. 53a").

KIRITA-MUKUT[^]A

BY RAMBHADRA OJHA

'THE words *kirita* and *mukuta* are not foreign to the Hindu ear. From the learned scholar down to the menial the expressions sound familiar and seem to convey some definite ideas; and yet when one is asked to give a descriptive definition of either of them one is simply embarrassed and finds that the terms are too technical to be explained even with the help of so many dictionaries or *kosas*— An attempt is made in the following pages to discuss briefly the three possible views that can be held in this connection: namely, (1) that *kirita* and *mukuta* are mere synonyms; (2) that they are two quite distinct things; and (3) that *kirita* is a kind of *mukuta*.

As to the first position that *kirita* and *mukuta* are identical, it would seem that that is the current view in the matter. The *Amara-kosa* (ii. 6.102)—

अलङ्कारस्वाभरणं परिष्कारो विभूषणम् ।
मण्डनं चाथ मुकुटं किरीटं पुष्पपुंसकम् ॥

gives the words as synonyms and the commentators on *Kavyas* and *Puranas* have followed suit and disposed of the words by explaining *kirita* as *mukuta* and *mukuta* as *kirita*; but none of these commentators have anywhere entered into an elaborate description of these two terms, the reason probably being that in *Puranas* such as the *Bhagavata*, which are most popular in the country, the words *kirita* and *mukuta* are found used each by itself; as for example the in *Bhagavata* x. 3.10—

महार्हवैतूर्यकिरीटकुण्डलत्रिषा परिष्कृतसहस्रकुन्तलम् ।
उद्दामकाशश्चन्द्रकङ्कणादिभिर्विरोचमानं वसुदेव ऐक्षत ॥
स्पृष्ट्वा चतुर्मुकुटकोटिभिरङ्घ्रियुग्मं नत्वा मुदश्चसुजलैरकृताभिषेकम् ।

and very rarely if at all are they used together in the same context. This last circumstance might have induced the commentators to make a distinction between the two.

Examples of the use of these terms together and in the same **context** are not however wanting. In the *Skanda*—

Purāṇa we meet with the following description of Bala-
bhadrā, the elder brother of Kṛṣṇa—

हल्यक्राञ्जमुसलधारिणं वनमालिनम् ।

हारकुण्डलकेयूरकिरीटमुकुटोज्ज्वलम् ॥

In the *Prthuṅgadya* Rāmānujācārya says—किरीटमुकुटचूडावतंस-
मकरकुण्डल इति; and in the *Krama-dīpikā* likewise we find the
following stanza—

इन्दीवरनिभं सौम्यं पद्मपत्रायतेक्षणम् ।

स्निग्धकुण्डलसम्भिन्नकिरीटमुकुटोज्ज्वलम् ॥

These and similar passages shake our confidence⁷ in the
theory of the identity of the *kirita* and the *mukuta*.

The *kirita* apparently was a resplendent head-gear
worn on occasions like coronations of kings. Thus Arjuna
was called a *kiritin*, but never a *mukutin*, and in the *Mahā-*
bhārata Arjuna explains the genesis of the name thus—

पुरा शंखेन मे वद्धं युध्यतो दानवर्षभैः ।

किरीटं सृष्टिं सूर्याभं तेनाहुर्मो किरीटिनम् ॥

and at the time of the coronation of Śrī Rāmacandra we
are told in the *Rāmāyaṇa* that—

किरीटेन ततः पञ्चाद्वसिष्ठेन महात्मना ।

ऋत्विग्भिर्भूषणैश्चैव समचोक्ष्यत राघवः ॥

E. B. Havell in his "Indian Sculpture and Painting" repro-
duces the illustration of Avalokiteśvara's *kirita* as old as
1000 years, while A. K. Kumara Swami in his journal "*Viś-*
vakarmā" illustrates the *mukuta* of Natarāja of similar
antiquity. The illustrations differ, thereby implying that
kirita and *mukuta* were different.

In the temples and Rāsamandalis of North India in-
cluding मथुरा, वृन्दावन etc. two different head-gears known as
kirita and *mukuta* are worn one above the other by images
as well as actors to the present day, and this custom pre-
valent there affords additional ground for the same view.

Lastly, it must be mentioned that Jīva Gosvāmi, a
well known commentator on the *Bhāgavata*, says explicitly—
किरीटं त्रिकोणपत्रावलिरूपं मुकुटं तु समस्तकचावरकमिति भेदः and this remark

of his establishes directly that the two head-gears are different.

All these arguments, interesting as they are, are not very convincing to one who would rely on nothing but a strictly technical work on the subject. But the task of tracing out a technical work dealing with head-gears in general is hard, and that of explaining the same is harder still. Our biggest libraries are poor in Mss. of Siipa Sastra, and most the Mss. that do exist are quite silent on the topic of the *mukuta*. The Puranas and Upa-Puranas have a lot to say about *Chhatra*, *Camara* and *Simhamna* but disappoint us keenly in respect of the *mukuta*, so familiar and yet so difficult to define.

In the Baroda Central Library there is a Ms. of a work called the *Aparajita-prccha* and in the Tanjore Palace Library that of another work called *Silpa-sastra* which is ascribed to so venerable a name as that of Visvakarman himself. The Mss. give a detailed treatment of head-gears in general and of the *mukuta* in particular, but they are so hopelessly corrupt that it is practically impossible to make much sense out of them.

However, there is another work called *Manavasara* or *Manasara*, Mss. of which are preserved in the Libraries of Bombay, Poona, Tanjore, Madras, Trivandrum, and Calcutta. The India Office Library in London also contains a copy of it, and it is reported to be still in the possession of a number of sculptors in South India, who consult it to the present day in making images of gods, etc.

The text of the *Manasara* dealing with the subject under discussion is not entirely free from error, and I have to acknowledge here the help I have derived from Mr. T. Gopinath Rao M A, of the Travancore State who unfolded to me many of the technicalities of this work.

The text of the *Manasara* is at the very outset clear enough to enable one to finally discard the two theories discussed above and to establish a third, viz. that *kirlta* is neither identical with nor different from *mukuta* but is only a kind of it; in other words, that there are many kinds of

mukutas of which *kirlta* is one. As the text of our Ms. explains—

देवानां भूषतीनाञ्च मौलिलक्षणमुच्यते ।
जटांमौलिः किरिटश्च करण्डश्च शिरःशङ्कम् ॥
कुन्तलं केशवर्णश्च घर्मिर्भ्रूलकचूर्णकम् ।
मुकुटं तदिति ख्यातं तत्तदाधारमानतः ॥

This theory having thus been established on the basis of an original and technical work on the subject, it is no longer necessary to make much of the statements of commentators and lexicographers quoted above, who evidently did not think it essential for their immediate purpose of bringing the meaning of their texts home to their readers or of stringing together a list of approximate synonyms for the guidance of students, to discuss the technical side of the question; they were perhaps themselves in the dark about the real things connoted by these words.

The expression *kirlta-mukuta* as it occurs in some of the passages above cited can now be explained as—किरीटाख्यं मुकुटम्—the मुकुट known as किरिट. It avoids confusion by specifying the kind of *mukuta* meant.

Similarly, if the same illustration is spoken of now as *kirlta* and now as *mukuta* or if different illustrations are given answering to the *kirlta* and the *mukuta* we must imagine that it is a case of calling the thing now by its special name and now by its general name.

The origin of the custom that has sprung up in North India of using two different things which go by different names *kirlta* and *mukuta* is still in the dark. It may be that names of ornaments and other gears are, like dialects, local, and it is not improbable that the *mukuta* of the North differed from that of the South. But this does not seem to be likely; for the terms in question had their import fixed by the Sastras and special technical treatises which have had currency throughout the length and breadth of India, as the distribution of the Mss. themselves shows.

The full text of the Manasara dealing with the subject of *kirita* and *mukuta* is given below—

KIRITA-MUKUTA



भूपानाश्च शिरोनाहतुल्यं तन्मुकुटोदयम् ॥
 भूपानां मुकुटोत्सेधः षड्विंशतिविभाजितः ।
 फालपट्टोदयः पञ्चभागश्चूडं तदर्धकम् ॥ १ ॥
 पूरिमोत्सेधपञ्चांशो मूलता तु षडंशिका ।
 तदूर्ध्वं चाग्रपट्टं स्यात् त्रिपादांशत्रिवेदिकम् ॥ २ ॥
 पट्टाग्रधोर्ध्वदेशे तु पादांशोनत्रिवेदिकम् ।
 तदूर्ध्वं पद्ममेकेन व्यंशेन मुकुलोदयः ॥ ३ ॥
 मुकुटान्तात् पट्टिकान्तमेवसूर्ध्वं शिरोमणिः ।
 वेत्रादिकुक्कुलान्तः स्यात् शिखामण्युदयः स्मृतः ॥ ४ ॥
 अधोवेत्रादधोदेशे रत्नदामावृतांशकम् ।
 वृत्ताकारं तु सर्वाङ्गं युक्त्या तत्रैव योजयेत् ॥ ५ ॥
 अन्यत्र सर्वं देशे तु तरङ्गाकृति कारयेत् ।
 तरङ्गाकारमध्ये तु पुष्परत्नैश्च शोभितम् ॥ ६ ॥
 पूरिमस्य द्विपार्श्वे च मकरैश्च विभूषितम् ।
 तन्मध्ये रत्नबंधः स्याद्वाह्ये वल्लिभिरावृतः ॥ ७ ॥
 मकरस्यास्य देशे तु मकरान्मकरान्तरम् ।
 मौलिबन्धनवल्लयेव मुक्तादभैरलङ्कृतम् ॥ ८ ॥
 ललाटपट्टतुङ्गं तच्च चतुर्भागं विभज्यते ।
 एकांशः पट्टभागः स्यात् सर्वरत्नैश्च बंधयेत् ॥ ९ ॥
 तस्याधो रत्नदामैश्च ललाटोर्ध्वेऽर्धचन्द्रवत् ।
 कर्णपल्लसमायुक्तः श्रोत्रोर्ध्वे कर्णपुष्पयुक् ॥ १० ॥
 तस्मात् लम्बनं दामं सर्वरत्नैरलङ्कृतम् ।
 पूरिमस्य त्वधोदेशे चूडरत्नादि विन्यसेत् ॥ ११ ॥
 चतुःपूरिमसंयुक्तं कर्णोर्ध्वे पार्श्वपूरिमम् ।
 शिरःपृष्ठोर्ध्वदेशे तु पृष्ठपूरिमसंयुतम् ॥ १२ ॥
 शिरोनाहत्रिमणैर्कं शिरश्चर्कं प्रकीर्तितम् ।
 चक्राकारं तु संयुक्तं सर्वरत्नादि विन्यसेत् ॥ १३ ॥
 एतत्किरीटमुकुटं सर्वालङ्कारसंयुतम् ॥

I shall not attempt to translate the passage; it has been explained by Mr T. A. Gopinatha Rao in his "Elements of Hindu Iconography" pages 26 ff, and I have prepared an illustration of the *kirita* which will give the reader a correct notion on the subject. The *kirita* here shown is the very likeness of thousands of *kirita-mukutas* old and new in the temples of Southern India.

The only thing that now remains to be considered is the following text of the *बृहत्संहिता*, which however is not the description of a *mukuta*.

पद्मः शुभदो राज्ञां मध्येष्टावङ्गुलानि विस्तीर्णः ।
 सप्त नरेन्द्रमहिष्याः षड् युवराजस्य निर्दिष्टः ॥
 चतुरङ्गुलविस्तारः पट्टः सेनापतेर्भवति मध्ये ।
 द्वे च प्रसादपट्टः पञ्चैते कीर्तिताः पट्टाः ॥
 सर्वे द्विगुणा यामा मध्यादर्धेन पार्श्वविस्तीर्णाः ।
 सर्वे च शुद्धकाञ्चनविनिर्मिताः श्रेयसो वृद्धयै ॥
 पञ्चशिखो भूमिपतेस्त्रिशिखो युवराजपार्थिवमहिष्योः ।
 एकशिखः सैन्यपतेः प्रसादपट्टो विना शिखया ॥

The author explicitly describes here the *paṭṭa* and not the *mukuta* but भट्टोत्पल the commentator takes *paṭṭa* here as equal to *mukuta* and thus gives rise to a doubt as to the real nature of the head-gear; but the following quotation from the Bhāgavata Purāṇa—

भारं परं पट्टकिरीटजुष्टमयुत्तमाङ्गं न नमेन्मुकुन्दम्

where the words पट्ट and किरीट occur together, clearly indicates that both of them are important head-gears and may be worn simultaneously. *Paṭṭa*, though it has several meanings, cannot mean here an ordinary silk or thread band for a turban, as this cannot be mentioned in the same breath with *kirita* and a thing to be proud of. *Paṭṭa* must be something almost as good as *kirita* and a thing to be worn in some cases with and in others without *kirita*. This is also evident from the following passages from the Agni-Purāṇa—पट्टबंधं च कारयेत् । राज्ञो मुकुटवन्धं च, and from the Baudhāyana Gṛhyasūtra—पट्टं वा मुकुटं वा करोति. The passage from Bhattot-pala therefore has no bearing on the problem before us.

A quite explicit statement in the matter is also made by Bharata in his Nāṭyaśāstra (p. 235, Kāvya-mālā ed.), where he says—

त्रिविधा मुकुटा ज्ञेया दिव्यपार्थिवसंश्रयाः ।

उत्तमा ये च दिव्यानां तेषां कार्याः किरीटिनः ॥

and though his classification might seem to differ he nevertheless holds that *kirita* is a sub-variety of the *mukuta*, and this is the final conclusion that seems most acceptable.¹

¹ This article was the result of a Commission appointed by His Highness the Maharaja of Alwar to investigate from all points of view the question of the relation of the *kirita* to the *mukuta*. A further light on the matter is earnestly solicited.

A STANZA FROM PANINF'S SIKSA

BY G. S. KHARE

'THE Paninly'a Siksa contains the following stanzas-

उदात्ते निषादगान्धारावजुदात्त ऋषभधैवतौ ।

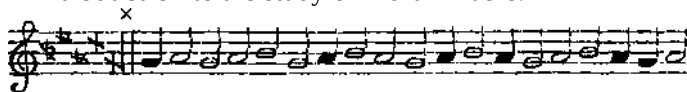
स्वरितप्रभवा ह्येते षड्जमध्यमपञ्चमाः ॥ १२ ॥

which is also given in the Naradf Siksa in an identical form. The Yajnavalkya Siksa has the following in stead—

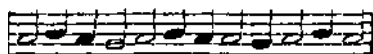
उच्चैः निषादगान्धारौ नां चावृषभधैवतौ ।

शेषास्तु स्वरिता ज्ञेयाः षड्जमभ्यमपञ्चमाः ॥ ७ ॥

which in substance means the same thing. But precisely to understand what is meant by saying that the udatta requires the notes nisada and gandhara, the anudatta, the rsabha and dhaivata, and the svarita, the remaining three: sadja, madhyama and pancama, it would be necessary to get some Vedic distich chanted to the accompaniment of a musical instrument. I selected for the purpose the very first line इषे त्वोर्जे त्वां of the Taittirlyā Samhita and I give below a plate expressing the result of the same in the .the staff notation which has been adopted by Mr. E. Clements in his " Introduction to the study of Indian music."



३ षे त्वोर्जेत्वा वा य वः स्थो पा य वः स्थ वे वो वः स वि ता



At the outset I may explain that a syllable without any mark is to be chanted on a higher note by a semitone than that on which a syllable with a horizontal line below is chanted; and that a syllable with a vertical line above is to be chanted on a note higher by a major tone than the first. Thus the whole of the Taittirīya Samhita requires only three

notes for the purpose of chanting. The mode of chanting the Rk Sarhhita is slightly different, but all the same it requires three notes. The chanters commence with different bases but they chant on three notes only. Writers on Sanskrit grammar call these modes of accents (*svaras*) udatta, anudatta and svarita respectively. Experts in this branch of chanting are at one with modern students of the Vedic lore in the matter of the exact sense of these three technical terms. This agreement is bound to result in correctly finding out the sense of the stanzas from the Siksas quoted above. Naturally enough, the ancient and authoritative writers of Indian music have employed these three terms in their treatises and have assigned definite meanings to them: the udatta is to be chanted on nisada or gandhara notes, the anudatta on rsabha or dhaivata notes, and the svarita on sadja, madhyama, or paficama notes. The stanzas from the Siksas say the same thing in effect, in that they assign two notes to each of the three terms. Thus they have constituted two alternative sets of notes: rsabha, gandhara, and madhyama or dhaivata, nisada and sadja for anudatta, udatta and svarita respectively. In addition to these six notes the authors of the Siksas have assigned paficama for the svarita ; but they do not give the corresponding notes for the anudatta and the udatta. As the svarita is represented by paficama, the anudatta and the udatta would naturally be represented by antara (a vikṛta svara) and madhyama respectively.

It is necessary to bear in mind that the above notes are of the older musical scale followed by Bharata and Sarṅgadeva, and that they will not coincide with the same notes of the present musical scale. The values of these older notes have already been determined by the late Sharadaprasad Ghosh¹ of Bengal, by Mr. Nagojirao of Ooimbatore, and by Messrs. Krishnajeel Ballal Deval,² B. Clements,³ and Fox Strangways. Kao Bahadur Prabhakar Ramkrishna

1 Modern Review, Vol. x, page 384.

% A Lecture on the musical scale of RatnMcara.

3 Introduction to the study of Indian Music, page 77.

Bhandarkar of the Indore Medical Service has also given the same values in the *Epigraphia Indica*, Vol. XII, pages 223 to 228—

पङ्कज	सुषम	गांधार	मध्यम	पञ्चम	धैवत	निषाद	पङ्कज	octave
1	$\frac{1}{8}$	$\frac{2}{7}$	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{1}{5}$	$\frac{1}{6}$	2	

Ellis's cents—

0	182	294	498	702	884	996	1200

According to the present scale the anudātta will be represented by major sixth $\frac{1}{8}$ (B) or major third $\frac{1}{3}$ (E), the udātta would be represented by fundamental note (C) or Fourth $\frac{1}{4}$ (F), and the svarita would be represented by major second $\frac{1}{5}$ (D) or fifth $\frac{1}{5}$ (G). The result of our investigation about the subject will be grasped at a glance from the following table—

Vedic Syllables		वा	य	व
Terms employed by writers of grammar		Anudātta	Udātta	Svarita
Terms employed by old writers on Music	First set	सुषम $\frac{1}{8}$	गांधार $\frac{2}{7}$	मध्यम $\frac{1}{3}$
	Second set	धैवत $\frac{1}{4}$	निषाद $\frac{1}{6}$	पङ्कज 2
Terms employed by present musicians	First set	Major third $\frac{1}{3}$	Fourth $\frac{1}{4}$	Fifth $\frac{1}{5}$
	Second set	Major sixth $\frac{1}{8}$	Octave 2	Major second $\frac{1}{5}$

From the above it conclusively follows that the present mode of chanting the *Taittirīya Samhitā* is substantially in agreement with the dicta given in the *Śikṣās* and that this marked agreement indirectly proves the correctness of the interpretation of the stanzas from the *Śikṣās* quoted above. The old authorities on Sanskrit grammar by their use of these technical terms also support the present mode

of chanting the Vedas. As the text of the Vedas has come down to us almost in its pristine purity, so also has the mode of chanting them, there being an undisturbed and unbroken continuity of tradition in the matter.

GUPTA STYLE OF ARCHITECTURE AND THE ORIGIN OF SIEHARA

BY E. B. HAVELL

ORIENTAL Scholars have always treated the Gupta period from a sectarian point of view as the period which marks the revival of Brahmanism and the decline of Buddhism—a period of conflict between the Brahman Pandit 'orthodox Hindu' and the Buddhist bhikku. It is not easy to determine exactly what 'orthodox Hinduism' meant at different periods of Indian history, but to ignore the fact that Brahmans always took a leading part in the organisation of the Sangha and in formulating the doctrines of Buddhist religious schools seems to me a great historical error.

In Asoka's time a Brahman member of the Buddhist Sangha was, from an Indian point of view, an 'orthodox Hindu,' and in making sectarian rivalries and disputes the keynote to the interpretation of Indian history one is liable to fall into the common error of seeing Indian things through European spectacles. The Indian war-lords of the Gupta dynasty were not putting themselves forward, like Asoka, as religious teachers: they were full-blooded Aryans of the historic Licchavi clan who rallied the Ksatriya clans to the defence of the Aryavarta against the Turks and Huns of those days who were threatening the existence of Aryan Empire in India. The fact that their adversaries were Buddhists was not the point at issue at all, for the majority of the Aryan warriors were probably also Buddhists. The dominant historical event of the Gupta period was an Indo-Aryan or national revival, not a sectarian or religious one. That this connoted a revival of Sanskrit learning was a natural consequence, for Sanskrit probably had never ceased to be the court language of the Aryans when a Brahman or Ksatriya was the ruler, though Buddhist kings followed the commandment of the Blessed One in conducting all the affairs of the Sangha through the medium of the vernaculars.

We may, therefore, take it that the culture of the Gupta period which found expression in the building of royal temples and palaces was also distinctively Indo-Aryan. Fergusson in his *History of Indian Architecture*¹ brings all Hindu temples crowned with the curvilinear spire or sikhara under the category of Indo-Aryan; but at the same time he asserts positively that 'no one can accuse the pure Aryans of introducing this form into India, or of building temples at all, or of worshipping images of Siva or Visnu, with which these temples are filled;

He maintains that the sikhara-temple is a sure indication 'of the existence, past or present, of a people of Dasyu extraction.' This I take to be a huge mistake vitiating his whole theory of the history of Indian architecture. The sikhara is Indo-Aryan not only because it is found mostly in Northern India, or the ancient Aryavarta, but because it was introduced into India by the early Aryans and was peculiarly their own contribution to Indian building traditions. Fergusson's statement contains, I believe, this much of truth that with the early Aryans the building crowned by a sikhara was not a temple but an Aryan chieftain's fortress-palace, where he as the spiritual leader of his people conducted the tribal sacrifices.

I have discussed this question in my recent book on the *Ancient and Mediaeval Architecture of India* and the further study of the subject only strengthens my conviction that this is the true statement of the case. It is known that the Aryans ruled in Babylonia for six hundred years from about B. C. 1746, and their gods were the Vedic Gods, Surya, Varuna, Indra, and the Asvins.² We have two important sculptural records of Mesopotamian architecture showing the ancient form of a royal fortress-palace. One is the famous stele of Nuram-Sin, now in the Louvre, and the other, one of the sculptures figured in

¹ Introduction, p. 14.

² Hall's *Early History of the Near East*, p. 201.

Layard's Nineveh (PL 16, 2nd series) and described as the palace of Sennacherib. Both of these show the characteristic spire of the sikhara temple. In the former it is crowned with a sun emblem. The Indian sikhara is also crowned by a sun emblem, the so-called amalaka or fruit of the blue water-lily, Visnu's sacred symbol.¹ We know that the chief god of the Aryans in Mesopotamia was Siirya and the earliest Indian images show us that the concept of Visnu was a development of the early Aryan ideas of Surya. Visnu and Siirya are always represented in Indian sculpture as Aryan warrior-kings and the Vaisnava cult is essentially a Ksatriya one centred in the idea of *bhuJrti*, the loyalty of the Aryan to his spiritual king, Visnu-Surya. It was natural, therefore, that the primitive ritual of the cult was centred round the fortress-palace of the tribal chieftain, the *mandapa* of which was both the council house of the Aryan sabha and the place where tribal religious ceremonies were performed. The king's throne was under the sikhara—where the image of the deity is now placed—and the sikhara itself was originally a watch-tower generally pierced by sun-shaped loop-holes where the archers of the royal body-guard were stationed. The European term 'horse-shoe' applied to these loop-holes by Fergusson is as misleading as most European terms are when applied to Indian things.

The curvilinear form of the sikhara was derived from the fact that a similar watch-tower or platform for the royal body-guard was often constructed of wooden poles or bambus and built over the great fighting car of the chieftains, which was the rallying point of the Ksatriyas in battle. Hence we often see that the Indian sikhara-temple is carved with stone wheels representing the wheels of the royal fighting car or the * tank' of ancient Aryan warfare.

If these hypotheses are correct the corollary will be that the Gupta period which marked the revival of Aryan

1 It is significant that the same symbolism appears in Asoka's imperial standards, the *dhvaja-stambhas* upon which his edicts were inscribed.

political domination in northern India would be distinguished by the building of many sikhara-temples dedicated mostly to Visnu-Siirya or his avatars, Krsna the hero of the Ksatriya epic, the Mababharata, or Rama the hero of the Ramayana, rather than to Siva, the Great God of the Brahmans, though the latter were no doubt staunch supporters of the Aryan revival. It will also follow that the innumerable sikhara-temples which are so characteristic of Northern Indian architecture, so far from defining the limits of a Dasyu or non-Aryan province, afford the most conspicuous proof of the political and spiritual supremacy of the Aryans in the Aryavarta.

NOTES ON ANCIENT HINDU SHIPPING

BY RADHAKUMUD MUKERJJI

IN the present paper I mean to contribute some notes on ancient Hindu shipping which would form a supplement to my larger work on the *History of Indian Shipping* and at the same time break some new ground. By way of introduction I should like to cite the following remarks I made elsewhere'—

The History of Indian Shipping and Maritime Activity dispels to a great extent the prevailing misconception that the Hindus have never been a practical people, that while they have succeeded so well in the sphere of speculation, they have fared very badly in the sphere of action. The misconception is due to the fact that our study of ancient Hindu culture-history has mostly confined itself to its subjective aspects: to the records it presents of mental, moral and spiritual development, and has not adequately attended to its objective or positive aspects: the records of material progress and secular achievements. And yet we have abundant testimony of these in the results achieved by the ancient Hindus in such scientific and practical subjects as Medicine, Surgery, Applied Chemistry, Pharmacy, or in the many arts of civilised life like Architecture, Sculpture, Painting, Metallurgy, *Dyeing*, or in the numerous handicrafts which established the dominance of India in the ancient commercial world.

That dominance was mainly secured by her shipping and maritime activity which supplies one of the best proofs of the practical capacities of the Hindu genius in days of yore. Navigation, whether inland or oceanic, is one of the most difficult of arts, and the pursuit of that art in ages long before the application of steam to locomotion must have multiplied its difficulties, which could only have been

1 Lantern Lecture on Ancient and Indian Shipping at Government House, Dar jeeling, delivered on the 15th of June, 1916. in the presence of Lord and Lady Carmichael.

met by a corresponding amount of daring, enterprise, skill and resourcefulness. To show how far the pursuit of that art was successful I will quote only two testimonies :

A French writer, F. B. Solvyns, writes in his *Les Hindous* (1811): 'In ancient times the Indians excelled in the art of constructing vessels and the present Hindus can in this respect still offer models to Europe—so much so that the English, attentive to everything which relates to naval architecture, have borrowed from the Hindus many improvements which they have adapted with success to their own shipping. The Indian vessels unite elegance and utility, and are models of patience and fine workmanship.'

Similarly that distinguished Englishman, Sir John Malcolm, writing in the J. R. A. S., Vol. 1, says: 'Indian vessels are so admirably adapted to the purposes for which they are required that, notwithstanding their superior science, Europeans have been unable, during an intercourse with India for two centuries, to suggest or at least to bring into successful practice, *one* improvement.'

These witnesses may perhaps be exaggerating in their enthusiasm but that their statements contain a kernel of truth will be clear from a consideration of the evidence on the subject as set forth in my above-mentioned work.

The evidence in one respect however is defective in quantity, though not perhaps in quality, for it is quite conclusive so far as it goes. The defect is in regard to the *direct* Indian evidence which is meagre in volume as compared with the *indirect* Indian evidence, i. e. references and allusions to ships or voyages which are so abundant in Indian literatures, such as Sanskrit and Pali.

The fact is that though ancient India can boast of considerable naval enterprise, the only important piece of direct evidence on the subject that is available in our present state of knowledge is that embodied in the Ms. called *Yuktikalpataru* which, in one of its chapters, deals directly with boats and ships and gives details about their construction, varieties, measurements, sizes, decoration and accommodation. As the only repository of this direct

evidence the Ms. deserves a critical notice for its unique importance.

Three copies of the Ms. I have been able to trace up-to now. One is in the Calcutta Sanskrit College Library, the second in the library of the late Maharaja Sir J. M. Tagore, as mentioned by Dr. Rajendralal Mitra in his *Notices of Sanskrit Mss.*, Vol. 1, no. CCLXXI, and a third copy is in the possession of Mahamahopadhyaya Adityaram Bhattacharyya M. A., Pro-Vice-Chancellor, Benares Hindu University.¹ All the copies are in agreement (so far at least as the shipping portion goes) except in respect of mistakes in copying. I have used the Panini Office copy for purposes of this notice.

The work was compiled by Bhoja Nrpati from older works. The author states that he has carefully extracted the substance of the writings of various sages and expanded it into the present work.² The Ms. mentions a name-sake of the author from whom it frequently quotes, mostly in agreement but sometimes in difference too, as shown by the expression *Bhojas tu* occurring in several places in the Ms.³ This proves that Bhoja, the author of the Ms., is distinct from, and lived later than, the Bhoja whom the Ms. cites as an authority. Moreover the Ms. is based upon many other authorities besides Bhoja, who are all cited on the subjects in which they are the traditional masters. Thus—

- I. (1) Brhaspati [fol. 2] and
- (2) Usanah [fol. 2]

are cited on *Niti* or Polity, but there is no reference to the various schools and leaders of political thought mentioned by Xautilya, such as Bharadvaja, Visalaksa, Parasara, Pisuna, Kaunapadanta, Vatavyadhi, Bahudantlputra, etc.

1 A copy of this was made by the Panini Office, Allahabad, and kindly lent to me by the courtesy of Major B. D. Basu, I.M.8. (Retired), the proprietor.

2 Nnnn-mum-nibandhancLm saram akrqya yatnatah i Tanitte Bhojanrpatir Yufcti-tentpatarum mude u

3 E. g., fol. 22, fol. 28, etc.

I I. (3) Parasara [foil. 11, 26, 98 etc.] and
 (4) Bhavisya Purana
 are the authorities cited on *Vastu* or the art of building
 houses and cities;

I I I. (5) Garuda Purana [fol. 39]
 is cited on *Ratna* or jewels and precious stones ;

I V. (6) Lauhapradlpa [fol. 75]
 (7) Sarngadhara [fol. 75]
 (8) Nagarjuna [fol. 76]
 (9) Vatsya [foil. 71, 97, 102] and
 (10) Lauharnava [fol. 77]
 are the various authorities cited on *Ayudhci* or arms and
 weapons ;

V. (11) Salihotra [fol. 98]
 is cited on *Asva* or horses; and

V I. (12) Palakapya [fol. 100, 102] and
 (13) Garga [fol. 102]
 are cited as authorities on *Gaja* or elephants.

With regard to Nagarjuna who is cited as an authority
 on arms and weapons it is important to note that Alberuni
 also speaks of a Nagarjuna who was a famous chemist of
 Somanath and composed a book which ' contains the sub-
 stance of the whole literature on the subject* He lived
 nearly a hundred years before Alberuni, i.e. before A. D. 873.
 See *Alberuni*, I. 189.

The Ms. treats of the following topics: polity, forts,
 cities, houses, seats, umbrellas, clothes, ornaments, jewels,
 arms, horses, elephants, domesticated animals, and con-
 veyances.

As already stated, the author of the Ms. calls himself
 Bhoja Nrpati and the inference may be made that he is
 identical with the famous Bhojaraja of Dhara [1018-1060
 A. D.] in which case the Bhoja whom the Ms. cites will be
 a mere writer. A second inference has been made by Dr.
 Rajendralal Mitra that the Bhoja quoted by the Ms. is
 identical with the Bhoja Raja of Dhara renowned for his
 literary work and patronage, in which case Bhoja Nrpati,

the author of the Ms., will be a later and a lessor king. There is no conclusive evidence in the Ms. in favour of either theory.

The most interesting part of the Ms. is that which treats of the classification¹ of vessels into (A) *Special* or those which venture out into the open main and (B) *Ordinary* or those confined to the inland waters, as well as of the varieties under each class according to their differences in sizes or the measurements of their dimensions. These measurements turn on the meaning of the term *rajahasta* used in the text, on which I made the following remarks in my *Indian Shipping*: "Opinions of Sanskrit scholars whom I have consulted differ as to the exact meaning of the passages above quoted from the Ms. According to some the word *raja* means *candra* 1, and *hasta* — 2, so that *rajahasta* stands for the number 21. But according to others with whom I agree *raja*-16, for in the works on Astronomy *muhibhrl* or *raja* is often used to indicate that number. I have made the calculations given above on the basis of the second interpretation," The conjecture about the possible meanings of the term is however rendered unnecessary by the discovery in the Ms. itself of a passage which explains it. The passage runs thus: *Rajilah .wahaslair dasabhi rajahasta udahrtah* [folio 10 J which defines *rajahasta* as equivalent to ten cubits. On this basis the measurements given in the Ms. for the various types of vessels, ocean-going or otherwise, work themselves out as follows²—

A. Class I: *Ordinary*

Names of sub-classes	Length in cubits	Breadth in cubits	Fleight in cubits
I. Ksudra	10	2-5	2-5
II. Madhyama	15	7-5	7-5
III. Bhima	25	12-5	12-5

1 सामान्य विदेश नौकाया लक्षणद्वयम् ।

2 राजवस्तुभित्तयामा तस्याद्वयविहिती ।

तावदेवोक्तता नौका लुप्तेति गदिता द्वयेः ॥

	Names of sub-classes	Length in oubits	Breadth in oubits	Height in cubits
IV.	Capala	30	15	15
V.	Patala	40	20	20
VI.	Bhaya	45	22-5	22-5
VII.	Dlrgha	55	27-5	27-5
VIII.	Patraputa	60	30	30
IX.	Garbhara	70	35	35
X.	Manthara	75	37-5	37-5

B. Class I I : *Special Sea-going*(a) *Dirgha*

	Names of sub-classes	Length in cubits	Breadth in cubits	Height in cubits
I.	Dlrghika	20	2-5	2
II.	Tarani	30	3-75	3
III.	Lola	40	5	4
IV.	Gatvara,	50	6-25	5
V.	Gamini	60	7-5	6
VI.	Tan	70	8-75	7
VII.	Janghala	80	10	8
VIII.	Plavini	90	11-95	9
IX.	Dharirn	100	12-5	10
X.	Vegini	110	13-75	11

अतः सार्द्धमितायामा तद्वर्द्धपरिणाहिनी ।
 विभगेणोत्थिता नौका मध्यमेति प्रचक्षते ॥
 शुभ्राथ मध्यमा भीमा चपला पटला भया ।
 दीर्घा पत्रपुटा चैव गर्भरा मन्थरा तथा ॥
 नौकादशकमित्युक्त राजहस्तेरञ्जकम् ।
 एकैकवृद्धैः सार्द्धैश्च विजानीयाद् द्वयं द्वयम् ॥
 उन्नतिश्च प्रवीणा च हस्तादर्धाश्लक्षिता ।
 अत्र भीमा भया चैव गर्भरा चालुभयदा ॥
 मन्थरापरतोयास्तु तासामेवान्धुषी गतिः ।
 दीर्घा चैवोन्नता चेति विशेषे द्विविधा भिन्ना ॥
 राजहस्तद्वयायामा अष्टांशपरिणाहिनी ।
 नौकेय दीर्घिका नाम दशाङ्गोन्नतापि च ॥
 दीर्घिका तरणिलोला गत्वरामाग्निनी तरिः ।
 अचाला प्लाविनी चैव धारिणी वेगिनी तथा ॥
 राजहस्तेकैकवृद्धा नौकानामानि वै दश ।
 उन्नतिः परिणाहश्च दशाष्टांशमितौ क्रमाद् ॥
 ऊर्णादूर्णस्वर्णद्वयौ नौकांश्चैव मन्थरा तथा ।
 राजहस्तेकैकवृद्धा नाम पञ्चमश्च भवेत् ॥

(B) *Uhnatd*

Nanws of sub-classes	Length in cubits	Breadth in oubits	Height in cubits
I. Urddhva	20	10	10
II. Anurddhva	30	15	15
III. Suvarnamukhi	110	20	20
IV. Garbhini	50	25	25
V. Manthara	60	30	30

Some of the Pali texts are repository of important direct evidence regarding Indian shipping. They do not usually give actual measurements of the different dimensions of vessels, but they enable us to infer the sizes of vessels from the number of passengers they give, which is a rare characteristic in the corresponding Sanskrit texts. The *Rajavali* mentions that Prince Vijaya with his retinue was banished by his father from Bengal in a fleet of ships carrying more than 700 passengers. The *Si-yu-ki* [ii. 241] mentions a ship carrying 501 persons, nearly all merchants. The ship in which the bride of Vijaya and her party came to Ceylon carried nearly 800 persons.¹ The ship of the *Janaka-Jataka* carried 700 persons besides the Buddha; that of the *Valahassa-Jafaha* carried 500 merchants; that of the *Samaudda Vanija-Jataka* accommodated a whole village of absconding carpenters numbering 1000; that of the Punna brothers provided room for 300 merchants and their large cargo of timber,^{5*} that of the two Burmese merchant-brothers conveyed full 500 cartloads of their own goods besides others' cargo,³ while that of the *Mahujanaka-Jataka* had on board 7 caravans with their beasts. The only measurements given of a ship are those of the ship of the *Sankha-Jataka* which was 800 cubits in length, 600 in breadth, 20 fathoms in depth and had three masts. The *Dathadhatuvamsa* describes a ship bound for Ceylon as firmly constructed with planks served together with ropes with a well-rigged, lofty mast, a

1 Tumour's *Mahawanso*, 51.

2 Hardy *Manual of Buddhism*, 57, 260.

3 Bigandet's *Life of (Joduma, Wu*

spacious sail and a skilful captain. The *Divyavadana* mentions several merchant vessels laden with goods, one of which carried 500 merchants.

The next line of direct evidence is that furnished by the nautical terms mentioned in Sanskrit literature. Macdonell and Keith's *Vedic Index* gives us a clue to such terms in Vedic literature. Thus, *aritra* is the word in Vedic literature for 'oar' by which boats were propelled. Rgveda i. 116. 5 and *Vajamneji Samhita* xxi7 7 make mention of a vessel with 100 oars and a boat (*nau*) is said to be propelled by oars (*aritra-paranim* in Rgveda x. 101, 2; cf. *tiatapatha Brahmana* iv. 2, 5, 10). The rower of a boat is called *antr* in Rv. ii. 42. 1 and ix. 95. 2; *dyumna* is used in the sense of raft in Rv. viii. 19. 14. In the compound *nau-mayda* the *mai.ida* denotes the two nidders of a ship (*SatapataUa Brahmana* ii. 3. 3, 15). In later literature (cf. *Amarakosa*) the words for boat-pole or oar are *naudanda*, *ksepuni*, *antra* and *kenijmtaka*. The words *Lrpaka*, *auaavrksaka* and *naubandhana* stand for ship-anchorage (*Amarakosa*), *Naukarna* is the hem of a ship and *nau-karna-dhara* is the helmsman.¹ A sailor is called *naukarntajiuth** in *Manu* x. 34, and *naujivika* in *Varahamihira's Bi hal-mmluta*, Ch. VII. A bridge of boats is called *naukarma* in *Divyavadana* as well as *nausahkrama*. The Pali *AbhidhanuppuUipika* (verse 664) mentions *lakara*, *vatakara* and *plya* as parts of a ship.

The *Arthasastra* of *Kautllya*, from the abundance of its nautical terms, deserves special mention. In the first place, water-routes in general are divided into the three following classes—(1) the ordinary river routes as well as artificial water-ways* or canals, called *kulya*; (2) the routes for coastal traffic carrying on inter-portal communications, called *kulapatha*; (3) the ocean-routes called *samyana-patha* (Book vn).—Secondly, the following classes of ships and boats are mentioned suiting the purposes of both inland and oceanic navigation—

1 VarShamihira, *Brhat-aaihhim*, Oh. 5.

- (1) *Sathyatyah navah*, i. e. ocean-going vessels. It is mentioned that these ships had to pay tolls (*sulka*) at the harbours (*ksetra*) at which they touched (Book II). *Amarakosa* defines a *samya-trika* as a merchantman, *potavartik*.
- (2) *Pravahana*, which is another name for sea-going vessels or more properly merchantmen (Book i). It is thus defined in the commentary on *Uttara-dhyaya-sutra*,ⁱ p. 246: *Samudrikah vyaparindh mahasamudram pravahanais taranti*, i. e. sea-going merchants cross the main by means of *pravahana*.
- (3) *tiankha-mukta-grahinyah navah*, which were boats used for pearl-fishing (Book II).
- (4) *Mahanavah*, which were the larger vessels for use in the large rivers that were navigable throughout the year (*ibid*).
- (5) *Ksudra-kah navah*, which were smaller boats for use in small and shallow rivers that overflowed in the rains (*ibid*).
- (6) *Hinxakah*, i. e. pirate ships and boats which, according to harbour regulations, should be pursued and destroyed.

Lastly, there are also names for different officers of the ship. The captain is called *sasaka*, the steersman *niyamaka*,¹ the man who is to bale out water is called *utsecaka*, and the sailors handling the rudder and rope are called *datra-rasmi-grahaka* (*ibid*). The officer in charge of the king's Admiralty is called *navadhyaksa*, lit- the superintendent of ships, while there is mentioned another officer who is the superintendent of ocean mines.

1 Cf. *Amarakosa*, *Niyamakah potavahah*.

