

Jeh. = Tuzk-e-Jehangiri or Memoirs of Jehangir, written by the Emperor himself and translated in two volumes from the Persian by Alexander Rogers, I.C.S. (Retd.) and H. Beveridge, I.C.S. (Retd.)

Ain. = Ain-e-Akbari by Abul Fazi, translated by Blochmann (first volume) and Jarrett (second and third volumes).

Names of other works quoted from occur in full in the text.

Though it is not my purpose to go into the history of the rise and fall of this great house, the following few remarks concerning each of the six sovereigns may not be out of place for introducing my subject.

BAHUR

Bahur was a born commander and leader of men, possessing all the attributes that go to make a successful general, conqueror and administrator, and withal a very loveable and extremely human man.

He was an athlete of the highest order and a sportsman in every sense of the word. His nature was æsthetic to a degree, and all throughout the delightful memoirs written by himself, one constantly alights on passages which reveal something of the passionate infatuation he felt for the beautiful and the new, whether in scenery or architecture, plants, flowers or animals.

One of Bahur's first cares after his victory at Pasripat in A.D. 1526 was to describe at length the land of his acquisition, its peoples, customs, animals, fruits and flowers: to compile in fact a comprehensive Gazetteer of Hindustan. The outstanding feature of his accounts is their extreme truthfulness and accuracy. If there is anything of which he is not positive at the time of writing, he does not omit to make special mention of the fact, and hearsay of the veracity of which he is not convinced is likewise duly recorded as such. For instance, writing about parrots he says: 'I had imagined that a parrot or sharak (Myna) only repeated what it had been taught, and could reduce nothing into words from its own reflections. Abul Kasim Jalair who is one of my most familiar servants lately told me a remarkable incident. A cage of a parrot of this last-mentioned species¹ having been covered up, the parrot called out, "Uncover my face, I cannot breathe." On another occasion the bearers who were employed to carry it had set it down to rest themselves and a number of people passed by, the parrot called out, "Everybody is going by, why don't you go on?" Let the credit rest with the refuser! Yet till one hears such things with his own ears he never can believe them.'

Similarly in another place after describing the 'Lajeh' (Monal Pheasant) he says with the keenest humour: 'A remarkable circumstance is told of them. It is said that in winter they come down to the skirts of the hills and if in their flight one of them happens to pass over a vineyard, he can no longer fly and is taken. God knows the truth! Its flesh is very savoury.'

¹ The Large Indian Parrot (*Falcorus niphalaoides*).

Whether engaged in weighty affairs of state, or in marching against a foe, Baber always had his senses wide awake to objects around him beyond the pale of his immediate concern. A new flower or bird or beast never failed to excite in him a feeling of the profoundest interest. He made a careful mental note of the object, and reproduced it faithfully in his memoirs whenever he found a temporary respite from the arduous duties of kingship in a newly conquered and unsettled country. For example, the Pied Myna (*Sternopastor corvus*) finds a place in his memoirs thus: 'When I threw a bridge over the Ganges and crossed it, driving the enemy before me, I saw in Lucknow, Oudh and these countries, a species of Sharak which has a white breast and a piebald head with a black back. I had never seen it before. This species probably does not learn to speak at all.'

Of the larger mammals of Hindustan, the rhinoceros was one that must have seemed altogether strange and unnatural to the conquerors, and Baber took great delight in hunting the beast. In his memoirs he gives the following account of a hunt. (This was at the time of his final march against Hindustan which ended successfully at Panipat):—

'We continued our march till we came near Bekram (Peshawar) and then halted. Next morning we continued halting in the same station, and I went out to hunt the Rhinoceros. We crossed the Sāhāb (i.e. Black River—perhaps another name for the Bara) in front of Bekram, and formed our ring lower down the river. When we had gone a short way, a man came after us with notice that a rhinoceros had entered a little wood near Bekram and that they had surrounded the wood and were waiting for us. We immediately proceeded towards the wood at full gallop and cast a ring round it. Instantly on our raising the shout the rhinoceros issued out into the plain. Humayun and those who had come from the same quarter (i.e. from Turkestan) never having seen a rhinoceros before, were greatly amused. They followed it for nearly a kos, shot many arrows at it and finally brought it down. The rhinoceros did not make a good set at any person or any horse. They afterwards killed another rhinoceros. I had often amused myself by conjecturing how an elephant and rhinoceros would behave if brought to face each other; on this occasion the elephant-keepers brought out the elephants so that one elephant fell right in with the rhinoceros. As soon as the drivers put their beasts in motion, the rhinoceros would not come up but immediately ran off in another direction.'²

Further on Baber mentions, 'In the course of my expeditions into Hindustan, in the jungles of Peshawar and Hashnagar I frequently killed the rhinoceros. It strikes powerfully with its

² Captain Williamson in his *Oriental Field Sports* recounts several incidents of the deadly enmity that is supposed to exist between the rhinoceros and the elephant and the stories copied from this not over-zealous source have subsequently found their way into European works on Natural History. Despite its bulk and strength the rhino is as a rule quiet and inoffensive. Owing to the nature of the terrain they inhabit, elephants are almost always used in rhino hunting in India. As a rule the mounts remain indifferent to the presence of the enemy though occasionally one takes fright and bolts.

horn, with which in the course of these hunts, many men and horses were gored. In one hunt it tossed with its horn a full spear's length, a young man named Maksud, whence he got the name of "Rhincoceros Maksud" (i.e. Rhino's aim).*

On the conclusion of Babur's accounts of the Fauna of Hindustan, descriptions of the trees, flowers, and fruits follow, and throughout is noticeable the under-current of his superlatively aesthetic soul, and the knowledge and insight born of careful and intelligent observation. It appears truly remarkable that a man in Babur's situation, faced with insuperable and ever-recurring practical and administrative difficulties in a foreign and unsettled land, with the prospect of rebellion within and invasion without perpetually staring him in the face—with marked discontent amongst his troops and following to boot—should have found time to devote himself so earnestly to minor pleasures which would probably have had no appeal for lesser natures than his own.

HUMAYUN

On the death of Babur, his son Humayun ascended the throne of Hindustan. Unfortunately he appears to have kept no memoirs of himself and the chief contemporary records available to us are the *Tazkirah-ahsharaf*¹ (or private memoirs of the Emperor Humayun) written by his confidential domestic Jushar, and the delightful *Humayun Nama*² of his sister Gulshad Begum.

These tell us extremely little of the aspect of Humayun's nature that concerns our paper, but however suffice to establish the fact that he had inherited in full measure his father's love of nature and fondness for sport.

That our information as regards Humayun's private life and affairs should be so scanty is not surprising; for throughout his reign he was being unremittingly harassed by his rebellious brothers, and it was not long after his accession that he was even driven out from his kingdom and was not able to return and regain it till three or four years later.

No elaborate accounts of Humayun's hunts are available. That he showed keen partiality for and considerable skill in the chase, however, may be gleaned from several references in the memoirs of his father. With paternal joy and pride we are told how on one occasion when the prince was eleven years of age, and Babur and several of his associates were in a boat in the 'Bağh-i-banafshih' (Garden of Violets) in Kabul, Humayun shot a waterfowl in very handsome style.³

Further on is recounted⁴ how the sight of a rhinoceros—an animal Humayun had never seen before—at Peshawar had aroused him and with what enthusiasm he and his party had followed the beast and

* Translated from the Persian by Major Charles Stewart of the Hon. East India Company's Service.

¹ Translated by Mrs. Annette S. Beveridge.

² *Babur*, vol. II, p. 126.

³ *Ibid.*, p. 159.

brought it down and then had killed another. Hunting an animal like the rhino with bows and arrows, which were the weapons employed on this occasion, is a feat that calls for not only skill and physical strength but an uncommon amount of that dash and courage which were ever characteristic of the great Moghuls. And this was at a time when the prince was barely seventeen years of age.

That Humayun was naturalist at heart is evident from just this one little passage that appears in the *Tashrek*. To realize the true significance of the incident it must be remembered that it happened at a time when defeated by Sher Shah and deprived of his kingdom, he was fleeing for his life and liberty through the inhospitable desert of Sind—a harassed refugee—subjected to the greatest hardships from hunger and thirst, and accompanied only by a mere handful of his faithful adherents. At Amerkote, ' . . . the king undressed and ordered his clothes to be washed, and in the meantime wore his dressing gown. While thus sitting, a beautiful bird flew into the tent the doors of which were immediately closed and the bird caught. His Majesty then took a pair of scissors and cut some of the feathers off the animal; he then sent for a painter and had a picture taken of the bird and afterwards ordered it to be released.'

A temperament capable of being roused from the gravest anxiety and concern to light-hearted pleasure and interest at the mere sight of a strange and insignificant bird, surely proves a more than ordinarily deep-rooted love for Nature. In spite of the fact that Humayun's reign was short and replete with trouble and anxiety, he sometimes found leisure for indulging in the chase, for which sport as a care-free prince we know he had evinced marked predilection. His sister tells us ' that one day at Kabul, 'His Majesty attended by Mirza Hindal (his brother) was hunting near the mountain passes. They had very good sport. The Emperor went to where the Mirza was hunting and had made a very good bag. Following the rules of Chingis Khan the Mirza proffered his game to the Emperor, for it is the rule of Chingis Khan that inferiors should so act towards their superiors. In short he gave the Emperor all his game. . . . '

This account also serves in bringing to light the peculiar hunting etiquette of the Moghuls, traces of which are to be met in our own day especially in relation to the hunts of Rajas, Nawabs, and other high personages.

It is much to be regretted that Humayun's career as a Naturalist was so disturbed and short. He was a devout lover of Nature, and given the opportunity, we should certainly have expected to be left with notes and descriptions at least equalling in originality and interest those of his father or of his grandson Jehangir.

AKBAR

Akbar, rightly called 'the Great' reigned over Hindustan from 1556 to 1605. Summing up his character Dr. Richard von Garbe¹

¹ *Alchymia Nisab*, Beveridge, pp. 96-97.

² *Akbar, Emperor of India, a Picture of Life and Customs from the sixteenth century.*

states: 'Akbar was very fond of flowers and perfumes and especially enjoyed blooded doves (pigeons) whose care he well understood. About 20,000 of these peaceful birds are said to have made their homes in the battlements of his palace.' His historian (Abel Faiz) relates, 'His Majesty deigned to improve them in a marvellous manner by crossing the races which had not been done formerly.'

'Akbar was passionately fond of hunting and pursued the noble sport in its different forms, especially the tiger hunt and the trapping of wild elephants, but he also hunted with trained falcons, and leopards. He was not fond of *Ashtar*; he enjoyed the excitement and exertion of the actual hunt as a means of exercise and recreation for training the eye and quickening the blood. Besides chess, cards and other games, fights between animals may be specially mentioned, of which elephant fights were the most common but there were also contests between camels, buffaloes, cocks and even frogs, sparrows and spiders.'

In support of his conclusion that Akbar was, true to the traditions of his ancestry, a brave man, von Garbe quotes the following incident:—'On the way back to Agra where at the time he was holding court, Akbar had ridden alone in advance of his escort and suddenly found himself face to face with a powerful tigress who with her five cubs came out of the shrubbery across his path. His approaching attendants found the nineteen-year old emperor standing quietly by the side of the slaughtered beast whom he had struck to the ground with a single blow of his sword. To how much bodily strength, intrepidity, cold-blooded courage and sure sightedness this blow of the sword testified which dared not come the fraction of a second too late, may be judged by any one who has any conception of the spring of a raging tigress anxious for the welfare of her young.'

Two other incidents are recorded⁵ where the Emperor saved the life of a man who was in the act of being mauled by a tiger by shooting the animal dead when his following were in a state of panic and complete disintegration, and incapable of coming to the victims' assistance. Other equally outstanding examples of his cool headed courage and daring are not wanting, and some of Abel Faiz's descriptions of the fights of infuriated and 'mash' elephants, one of them being ridden and guided by the young Akbar, though couched in such flowery and ornate style as to render the incidents somewhat melodramatic, are sufficient to convince the most exacting of his wonderful prowess, pluck and bravery.

Akbar was passionately fond of animals, and the Royal Menagerie was a very extensive one comprising of, as Abel Faiz states, 'Animals of all kinds from Persia, Turkestan and Kashmir, whether game or other' which had been brought together 'to the wonderment of beholders.' Bernier⁶ mentions that the inmates of this menagerie were led past under the royal window where the monarch sat every day about noon, the procession

⁵ *Ann.*, vol. 1, p. 294.

⁶ Francois Bernier, *Travels in the Mogul Empire, A.D. 1650-1668* (A. Cassell).

commencing with the horses and elephants. 'Other animals are next introduced' continues the writer. 'tame antelopes kept for the purpose of fighting with each other;'¹ Nilgaur or grey oxen that appear to me to be a species of elk; rhinoceroses; large Bengal buffaloes with prodigious horns that enable them to contend against lions and tigers; tame leopards or panthers employed in hunting antelopes; some of the fine sporting dogs from Ubec of every kind, and each dog with a small red covering; lastly every species of birds of prey used in field sports for catching partridges, cranes, hares and even it is said, for hunting antelopes on which they pounce with violence beating their heads and blinding them with their wings and claws.'

Abul Fazl informs us that Akbar paid great attention to the selection and breeding of elephants, camels, cows, mules and horses and that through his encouragement of the last, the breed of horses produced in Hindustan was as fine as those of Irak or Arabia.

One of the modes of hunting most frequently employed by the Moghul emperors was the *Qasargal* or 'Ring-in' method. Last tracts of country were surrounded by the armies which gradually worked their way towards the centre driving in and collecting the game. On account of the area over which operations extended, very often hundreds of square miles, the processes occupied several months. The various divisions of the army were placed under command of their proper officers, and the whole thing was really in the nature of what are now known as Army Manœuvres. As the favourite plan of campaign of the Moghuls was to surround an enemy first and then gradually close in upon him, these *Qasargal* hunts provided the means of keeping the soldiery in the necessary training and practice in times of peace.

One such 'drive' that took place under orders of the Emperor Akbar in the year 1567 is remarkable for the magnitude of the scale on which operations were carried out. On this occasion 50,000 hunters were employed and, according to Abul Fazl involved all the country 'from near the mountains on the one side and from the River Bihat (Jhelum) on the other.' The historian proceeds: 'Each district was made over to one of the great officers and Bakhshis, Tawacis and Sanawals were appointed to every quarter. Several thousand footmen from the towns and villages of Lahore Province were appointed to drive the game. A wide space within ten miles of Lahore was chosen for the collecting of the animals.'

This drive occupied a whole month. When all the arrangements were completed, 'His Majesty the Shah (Akbar) went to the hunting ground and viewed it from the circumference to the centre. Every one of the Grandees and other servants who had exerted themselves in this delightful service was gratified by H.M.'s approbation. Then he placed the foot of dominion in the stirrup of suspiciousness and made his tiger-like steed career in pursuit of the prancing deer. He used the arrow, the sword, the lance and the musket. At the

¹ The Emperor Akbar was particularly fond of this sport and in the *Ain*, pp. 218-22 see to be found full details regarding the kinds of fighting deer, how they fought together, and elaborate regulations as to the betting allowed on such encounters.

beginning the hunting ground was ten miles in circumference, but day by day the *Qasargah* was pushed on and its area lessened. . . .

Akbar had a special Game Department and caused an account to be kept of all the animals hunted with measurements and the minutest details concerning them. Particulars of the guns or other weapons used upon different occasions were also recorded. He knew his favourite guns by names and was especially fond of one which he called 'Sangram' and which afterwards came into the possession of his son Jehangir who likewise prized it highly. Akbar was a remarkable shot with this piece, and Jehangir states in his *Memoirs*, 'He (Akbar) had no rival in shooting with a gun, and with the one with which he killed Jitmal (the defender of Chitor), and which he called "Sangram" he killed some 3,000 or 4,000 birds and beasts.' Abul Fazi is more moderate; he says¹ that Akbar killed 1,019 animals with 'Sangram'.

Besides shooting with the gun Akbar also did a good deal of hunting with the bow and arrow, and several instances are on record of his tackling tigers with these weapons.

He was possessed of remarkable observational powers and it is said of him that he could at once tell by seeing the hide, to what hunting ground a particular deer belonged.²

Besides the cheetas (it is asserted to the number of 9,000) and lynxes which largely constituted his hunting establishment, Akbar was extremely fond of good hunting dogs, and imported them from all countries. 'Excellent hunting dogs come from Kabul,' says Abul Fazi, 'especially from the Hazara District (north of Rawalpindi). These dogs will attack every kind of animals, and more remarkable still, they will attack a tiger.'

European bloodhounds were also imported by the Portuguese, which helped them greatly to maintain favour at court.

With regard to the birds employed in the chase, the historian says, 'H.M. is very fond of these remarkable animals and often uses them for hunting purposes. Though he trains the *Baz* (*Accipiter fulvomaculatus*), *Shahin* (*Falco peregrinator*), *Sabanar* (either *Falco cherrug* or *F. sibiricus*) and *Burqa* falcons (probably the Golden Eagle—*Accipiter chrysaetus*) and makes them perform wonderful deeds, H.M. prefers the *Bashih* (Sparrow Hawk—*Accipiter nisus*), to which class of hawks he gives various names.'

Among the various birds trained for the chase are mentioned the crow, sparrow and quail (?). *Odypus*, which were brought from Kashmir, appear from the description to be some species of Kingfisher. They are described as of a blue or green colour (save) smaller than a parrot; with a red beak straight and long; and a tail rather elongated. They were taught to bring down small birds and return to the hand of their keepers.

JEHANGIR, 1605-1627

If Akbar was the greatest monarch of the Moghul dynasty, it cannot be denied that Jehangir was far and away its greatest

¹ *Asia*, vol. I, p. 116.

Ibid., p. 200.

naturalist. His profuse and engrossing memoirs are a veritable natural history of the animals that came under his notice, and a record of the most searching observations concerning them.

It has been rightly said of Jehangir that had he been head of a Natural History Museum he would have been a better and happier man. Besides a passion for justice the outstanding features of his character were his love of nature and his powers of observation.

Jehangir's love of the chase was excessive. He never failed to create opportunities for indulging this propensity and as a marksman showed considerable skill. He writes of himself, 'I am myself not without some skill in the use of this weapon (meaning the famous "Sangram" also called "Droostanda" — "Straight thrower") being exceedingly fond of field sports of every kind and having frequently with the same piece killed twenty antelope of a day.' He was an adept at the use of the bow and arrow, and often used these weapons especially in *Qussargah* hunts.

Extensive game preserves were maintained and frequently the emperor hunted accompanied by the ladies of his serana. His beautiful and accomplished queen Nur Jehan was his constant companion on such occasions. She was an excellent horsewoman and possessed remarkable dexterity in handling a gun. Jehangir gives the following account of a hunt where Nur Jehan killed four tigers in quick succession. '... the huntsmen marked down four tigers and I went out to hunt them with my ladies. When the tigers came in sight Nur Jehan Begum submitted that if I would order her she herself would kill the tigers with her gun. I said "Let it be so." She shot two tigers with one shot each and knocked over the two others with four shots. In the twinkling of an eye she deprived of life the bodies of these four tigers. Until now such shooting was never seen that from the top of an elephant and inside of a howdah, six shots should be made and not one miss, so that the four beasts found no opportunity to spring or move. As a reward for this good shooting I gave her a pair of bracelets of diamonds worth one hundred thousand rupees and scattered 1,000 *ankahis* (gold mohurs) over her.'

It is unnecessary here to dilate upon Jehangir's qualities as a naturalist. His descriptions of animals that I have quoted in the following pages bespeak his interest and proficiency in unmistakable language.

Like his father, Jehangir also caused minute records to be kept of his hunts with particulars as to the bag, etc. The registers showed that from the twelfth year (1580) of his age to his fiftieth lunar or forty-eighth solar year, 28,532 animals had been taken in his presence, including 17,167 which had been killed by the Emperor himself. These are tabulated thus:—

Tigers (and leons)	...	...	86
Bears, leopards, foxes, otters (<i>ubdilao</i>) and hyenas...	...	...	9
Blue bulls	...	...	889
Mhaka ¹	...	...	35

¹ It has been suggested that this may be the 'Maha' or Swung Deer of the Terai. As there is no mention of Sambar elsewhere in the list, it is possible these were included here. Jehangir mentions that in size this animal was equal to the Nilgai.

Black buck, chinkara, cheeta, mountain goats, etc.	...	...	1,670
Rams (qur) and red deer	...	...	215
Wolves ¹	...	...	64
Wild buffaloes	...	...	36
Pigs	...	...	90
Rang (ibex)	...	...	26
Mountain sheep	...	...	22
Arghali	...	...	32
Wild asses	...	...	6
Hares	...	...	23
Total	...	...	3,203

Of the 13,954 birds that constituted the total bag during the period were:—

Pigeons	...	...	10,348
Lagar-bagar (a species of hawk)	...	...	3
Eagles	...	...	2
Quilwa (kites)	...	...	23
Owls (chngd)	...	...	39
Quotan (goldfinch ?)	...	...	12
Mush-khwar = 'rat eaters' (probably harriers, etc.)	...	...	5
Sparrows	...	...	41
Doves	...	...	25
Owls (bun)	...	...	30
Ducks, geese, cranes and wildfowl	...	...	150
Crows	...	...	3,276
Total	...	...	13,954

Crocodiles 30

Jehangir also was exceedingly fond of good hunting dogs, and collected them from distant parts. Sir Thomas Roe records that once the Emperor mentioned to him 'I only desire you to help me to a horse of the greatest size, and a male and female of mastiffes and the tall Irish Greyhounds and such other dogges as hunt in your lands.'

Long accounts appear in the *News* of the various hunting exploits of the Emperor which are too profuse to reproduce here. A number, however, will be found under descriptions of the animals to which they relate.

SHAH JEHAN

Shah Jehan ruled over the Moghul Empire from 1627 to 1665. Gifted with the love of nature and artistic temperament of his

¹ In Persian 'Kiry' is a rhinoceros and 'Giry' = wolf. I think it very probable that if it is not 'kiry' in the original MS there is at least some confusion on this point. Jehangir records the killing of a rhino (cf. Rhinoceros) with a single shot in the temple, and this does not appear in the above list of game.

distinguished ancestors, his name is however best associated with architecture. The palace-fort at Delhi and the peerless Taj at Agra are living tributes to his magnificent regime.

Compared with his father, Shah Jehan's fondness for sport was moderate. He preferred hawking and hunting with cheetas to the actual shooting of game.

Jehangir relates that it was once reported to him while encamped in the neighbourhood of Ajmir that there was a man-eating tiger about who had already accounted for several lives. The Prince, Shah Jehan, was detailed to 'save the people from its wickedness' and before nightfall the animal was shot and brought to the Emperor.

The following is an account of one of Shah Jehan's tiger hunts written by Manucci, who lived at his court for a number of years. 'His ordinary amusement,' says the writer, 'was tiger hunting, for which he kept ferocious buffaloes with very big horns. These fought with each other or with tigers, and they are very brave animals, and skilful in the sport above referred to.'

When the king desires to go out hunting the huntsmen are warned. These men see to the finding of the tigers and send out into the jungle asses, cows, sheep and goats to prevent the tigers from charging their haunts. The king goes out on his tallest elephant and the other princes likewise on elephants acquainted with the requirements of this sort of fight. They sit in uncovered howdahs, each one with his matchlock. Then they encircle the jungle with high nets, leaving only one opening, through which the king and huntsmen enter. Around the net on the outside stand a number of soldiers, who cannot wound the tiger when it comes near the net, nor can the tiger injure them, for in no manner can it break the net and get out. The order in which the king moves is as follows: In front go the buffaloes, sometimes more than one hundred in number, all in a row. On each one is mounted a man with his legs guarded by leather, and having a broad sword in one hand and holding with the other the reins, which are passed through the buffaloes' nostrils. Behind them comes the king on an elephant, and after the king the princes and the men in highest favour. When they get into the jungle where the tigers are, the buffaloes advance slowly in the formation of a half moon, until the tigers are in sight. After locating the tigers by sight and smell, a circle is formed, leaving them in the centre. In this way, the tigers finding themselves caught, search for an exit. Unable to get away, each one makes its spring in the direction that it sees best. When this spring takes place the man who is mounted on top jumps off with agility, and the buffaloes seize the tigers on their horns with great dexterity and, shaking their heads tear them to pieces. If any one of the tigers escapes the horns or refuses to stir from its place, the king fires his gun and kills it, or gives an order to kill it.

Sometimes they go out to these hunts without taking any buffaloes, but riding on elephants as I have before said. This way

¹ *Storia de Neger or Mogul India, 1653-1708*, by Niccolao Manucci, translated with introduction and notes by William Irvine, B.C.A. (Rtd.), vol. 1, p. 191.

of hunting has much more risk for the hunters. Once it happened to King Shah Jehan that a badly wounded tiger bounded up and hung on with its claws fixed in the elephant's head. The elephant-driver fell to the ground from fright. The king seeing himself in this urgent danger, clapped his matchlock and hit the tiger on the head with it, but the tiger did not let go, and the elephant finding he could not make use of his trunk, ran furiously till he found a tree, against which he crushed the tiger. It was on this account that Shah Jehan gave orders for the head of the elephants to be protected in future down to the end of the trunk with a covering of thick leather, studded with sharp nails. In addition to the huntsmen, there is always an official present whose business is to take possession of the tiger's whiskers; and therefore as soon as the tiger is dead, they put on his head a leather bag, coming down as far as the neck. Having tied the bag the officer attaches to it his seal. After this the tiger is carried in front of the entrance to the royal tents, when the official appears who has charge of the poisons, and removes the whiskers which are employed as venom.*

Shah Jehan devised a novel method of punishing officials found guilty of taking bribes or of failing to discharge their duties to his subjects by getting them bitten by poisonous snakes in his presence in open court. The process has been described in detail under 'Snakes'.

AURANGZEBE, 1655-1707

The circumstances under which Aurangzeb came to the throne of Hindustan are well known and no doubt supply the basis for the character in which this Emperor has been painted by most historians of the past.

The recent researches of Dr. Jadunath Sarkar, however, have thrown new light upon this much misunderstood and misrepresented sovereign, and done much to vindicate his reputation. As far as concerns our paper, however, Aurangzeb's was not a very fruitful career. He was a man possessed of an indomitable will and courage, but appears on the whole to have taken life much more seriously than any of his forbears, and this left him little leisure for lighter pursuits.

He was fond of the chase and occasionally indulged in hunting with cheetahs and hawks. Hunting the lion was his favourite sport. The method of hunting most commonly in use at this period also was the *Qasargah* as will be seen from the following account by Bernier,¹ who was physician at the Court for a number of years: 'I could never conceive how the Great Mogul could hunt with an army of one hundred thousand men, but there certainly is a sense in which he may be said to hunt with 200,000 or with any number of which his army may consist. In the neighbourhoods of Agra and Delhi, along the course of the Jumna reaching to the mountains,

* Francois Bernier, *Travels in the Mogul Empire, A.D. 1656-1668* (A. Constatle).

there is a large quantity of uncultivated land covered either with copsewood or with grasses six feet high. All this land is guarded with the utmost vigilance; and excepting partridges and quails and hares, which the natives catch with nets, no person, be he who he may, is permitted to disturb the game which is consequently very abundant. Whenever the monarch is about to take the field, every game keeper near whose district the army is to pass is called upon to apprise the Grand Master of the hunt of the various sorts of game under his particular charge, and of the places where they are in the greatest plenty. Sentries are then stationed at the different roads of that district to guard the tract of ground selected, which extends sometimes four or five leagues; and while the army is on its march, on one side or the other, so as to avoid that tract, the king enters it with as many Omrah and other persons as have the liberty to do so, and enjoys leisurely and uninterruptedly the sports of the field, varying them according to the nature of the game.⁵

Bernier then goes on to describe the various methods of hunting, such as with cheetah, tiger hunts and so on.

The order followed in the arrangement of the descriptions and notes concerning of the animals of Moghul Hindustan is that adopted in the Fauna of British India series.

THE BENGAL MONKEY. (*Macrus rhenu*.)

Babur writes about this species as follows: 'One species (of monkey) is the smaller that is brought to our country. Its hair is yellow; its face white; its tail is not very long. The jugglers teach them tricks. It is met with in the hill country of Dureh Noor on the Kob-e-Sufid on the outskirts of the hills in the neighbourhood of Khyber, and from thence downward throughout all Hindustan. It is not found in the places higher up than the places I have mentioned.'

THE LANGUR OR HANUMAN MONKEY. (*Semnopithecus entellus*.)

Babur says: 'There is another species of monkey which is not found in Bajour, Sawad and these districts, and is much larger than the kinds brought to our country. Its tail is very long; its hair whitish; its face entirely black. They call this species of monkey "Langur" and it is met with in the hills and woods of Hindustan.'

Jehangir remarks about the animal as follows: 'The Langur is an animal belonging to the monkey tribe. But the hair of the monkey (*masiwan*—no doubt the Bengal Monkey) is yellowish and its face is red, while the hair of the Langur is white and its face is black. Its tail too is twice as long as the *masiwan's*. Pahlawan Bahasuddin, the musketeer, brought a young langur (at Dehad, on the borders of Malwa and Gujerat) with a goat, and represented that on the road one of the marksmen had seen the female langur with a young one in its arms on a tree. The cruel man had shot the mother, which on being struck had left the young one on a branch and had herself dropped on the ground and died. Pahlawan

Bahauddin had then come up and taken down the young one and put it beside a goat to be suckled. God had inspired the goat with affection for it and it began to lick the monkey and fondle it. In spite of difference of species, she showed such love as if it had come out of her own womb. I told them to separate them, but the goat immediately began to lament, and the young langur also became much distressed. The affection of the monkey is not so remarkable as it wanted to get milk, but the affection of the goat, for it was remarkable. I have written these things on account of their strangeness.*

Jehangir records coming across this species of monkey at the village of Bakkar while on the march to Kashmir, in about the year 1620.²

OTHER SPECIES

Babur observes: 'There is still another species of monkey whose hair, face and limbs are quite black; they bring it from several islands of the sea.' This may be one of the Gibbons, *Hylodates* sp., possibly the White-handed Gibbon, *Hylodates lar*, which occurs throughout the Malay Peninsula and islands.

Abul Fazi describes as follows what from the indication of its size may have been an Orangutan. 'The "Ban-mannus" is an animal like the baboon, dark in colour and in stature and face resembling a human being and walks on two feet. Although it has no tail, its body is slightly covered with hair. One of these was brought to His Majesty (Akbar) from Bengal which performed the most astonishing antics.'³

'Jal manna' or 'Ban manna' in Hindi literally means 'Jungle man,' and is the name by which the Orangutan is known in India.

LACRIS

Some species of Laceris is evidently referred to in the following description: Jehangir describes this as 'a monkey of a strange and wonderful form. Its hands, feet, ears and head are like those of a monkey and its face is like that of a fox. The colour of its eyes is like that of a hawk's eye, but the eyes are larger than those of a hawk. From its head to the end of its tail it is an ordinary cubit in length. It is lower than a monkey and taller than a fox. Its hair is like the wool of a sheep, and its colour like that of ashes. From the lobe of its ear to its chin it is red and of the colour of wine. Its tail is two or three fingers' breadth longer than half a cubit, quite different from that of other monkeys. The tail of this animal hangs down like the tail of a cat. Sometimes it makes a sound like a young antelope. On the whole it is a strange beast.'⁴

This was included among the animals brought back by his envoy from Goa, whence he had been authorized to purchase and bring 'for the private use of the Government' certain rarities procurable there, regardless of cost.

* *Jehangir*, vol. i, p. 445.

² *Ibid.*, vol. ii.

³ *Ibid.*, vol. ii, p. 136.

⁴ *Jehangir*, vol. ii, p. 215, et. seq.

Writing at Agra, Jehangir mentions that 'A dervish from Ceylon came and brought a strange animal called "dosaak" (or "dovang-dovag"). Its face was exactly like a large bat, and the whole shape was like that of a monkey, but it had no tail. Its movements were like those of the black tailless monkey which they call "lan-manush" in the Hindi language. Its body was like that of a young monkey two or three months old. It had been with the dervish for five years. It appeared that the animal would never grow larger. Its food is milk and it also eats plantains. As the creature appeared very strange, I ordered the artists to take a likeness of it in various kinds of movements. It looked very ugly.'¹

The identity of this animal as the Slender Loris, of which three species occur in South India and Ceylon, is unmistakable. According to Blanford, its Telugu name is *Dovanga-pilli* and Tamil *Troanga*.

TIGER LION

In his *Fauna of Hindustan* ² Abul-Fazi mentions the lion as being numerous.

Jehangir describes a lion hunt of his father, the Emperor Akbar, in a jungle in the neighbourhood of Lahore which was known to be infested by these fierce and ferocious quadrupeds to the number of twenty, male and female.³

Jehangir shot a lion while encamped at the village of Giri in the Subah of Malwa about which he remarks: 'As the braveness of the lion (*Shir Asab*)⁴ has been established, I wished to look at his intestines. After they were extracted it appeared that in a manner contrary to other animals, whose gall-bladder is outside their liver the gall-bladder of the lion is within its liver. It occurred to me that the courage of the lion may be from this cause.'⁵

The shooting of another lion is recorded by the same Emperor in the neighbourhood of Shakkar Tank (now locally called 'Sagan Sea' tank) within the famous fortress of Malwa on about March 25, 1617. On this occasion the lion charged his retinue and mangled ten or twelve persons, whereupon Jehangir 'finished his business with three shots from my gun, and removed his evil from the servants of God.'⁶

Another lion was shot by him in the neighbourhood of the pergans of Rahimabad (probably in the Bari Duab). This appears to have been a particularly large animal and Jehangir writes of it as follows: 'Of all the tigers (? lions) I have shot from the time I was a prince I never saw a tiger (?) like this for size and majesty,

¹ *Jehangir*, vol. II, p. 143.

² *Ibid.*, vol. III.

³ There is apparently a good deal of confusion in translations from the Persian between Lion and Tiger, and apart from a few exceptional cases it is very difficult to say with any degree of certainty which of these two animals is referred to in any particular episode. Prof. E. G. Brown in his 'Jazir among the Persians' states that the Lion is correctly 'Shir' in Persian and the Tiger 'Asab'. He remarks that he makes special mention of this fact because 'Shir' is applied in India to the Tiger, which animal is properly termed 'Asab' in Persian.

⁴ *Jehangir*, vol. I, p. 350.

⁵ *Ibid.*, p. 371.

and the symmetry of its limbs. I ordered the artists to take its portrait according to its real form and body. He weighed $8\frac{1}{2}$ Jehangiri maunds. His length from the top of his head to the end of his tail was $3\frac{1}{2}$ cubits (?) and 2 tassu.¹

What has been rendered as cubit here is 'Dara' or 'Zara' in the text. A 'tassu' is $1/24$ of a yard, and the length of this lion would therefore be about 10 ft. 3 in.

All translations of this work erroneously state that the animal of this adventure was a tiger, while the painting reproduced in the frontispiece and obviously depicting this very hunt proves conclusively that it was a maneless lion.

'It is related,' says Percy Brown² 'that Jehangir and his courtiers used to ride these beasts down and kill them with bows, carbines and lances. In all the shikar scenes of the Moguls, the animal is represented as the animal of their choice, pictures of tigers being extremely rare.'

Sir Thomas Roe who visited Jehangir's court as ambassador from James I of England, mentions how a lion and a wolf broke into his quarters one night while encamped at Mandu, and fell upon some sheep in the courtyard. He says, 'I sent to ask leave to kill them; for in that country none but the king may hunt a lion. Leave being granted I went out in the court; the lion quitted his prey and fell upon a little Irish mastiff.'³

THE TIGER

The tiger is also mentioned in Abul Fazl's chapter on the Fauna of Hindustan as being plentiful. He describes several methods of hunting the animal, the following of which were most commonly employed:—

1. Cage with sliding door and goat bait.
2. Poisoned arrows from bows set on trees on the tiger's path.
3. Bast surrounded with glued straw in which the tiger got more entangled the more he attempted to extricate himself, till at last the hunters came up and finished him off.

The faithful Abul Fazl adds that 'His Majesty (Akbar) from straightforwardness, dislikes having recourse to such tricks and prefers with bows and matchlocks openly to attack this brute which destroys so many lives.'

Yet another method, apparently not in common use is thus described: 'An intrepid experienced hunter gets on the back of a male buffalo and makes it attack the tiger. The buffalo will quickly get hold of the tiger with his horns and fling him violently upwards, so that he dies. It is impossible to describe the excitement of this manner of hunting the tiger. One does not know what

¹ *Jehangir*, vol. i, p. 285.

² *Indian Painting under the Moguls*.

³ Sir Thomas Roe's *Voyage to India*, *Pinkerton's Voyages*, vol. viii, p. 34.

to admire more, the courage of the rider or his skill in standing (?) firm on the slippery back of the buffalo.¹⁸

The killing of a man-eater by Akbar in the neighbourhood of Ajmer in the year 1577 is thus recorded in Abul Fazi's picturesque words: 'On the way the scouts reported that there was a powerful tiger there that always lay in wait for travellers and killed them. Inasmuch as the extirpation of causes of evil is one of the duties of sovereignty, the prince went forward to destroy him, and did so.'¹⁹

Jehangir describes an instance of the most extraordinary behaviour on the part of a tiger at Agra in the year 1609. He says: 'They brought a tiger from my private menagerie to fight with a bull. Many people gathered together to see the show, and a band of Jogis (religious mendicants) with them. One of the Jogis was naked and the tiger by way of sport, and not with the idea of rage, turned towards him. It threw him on the ground and began to behave to him as it would to its own female. The next day, and on several other occasions, the same thing took place. As no such thing had ever been seen before, and was exceedingly strange, this has been recorded.'²⁰

The same story is also related in the *Iqbal Nama* (p. 137) where it is stated that this particular tiger was one brought by a 'kalendār' (mendicant) as a present to the monarch. It had the name of 'Lal Khan' and was very tame. It is added that the tiger did no injury to the Jogi with his claws or teeth.

Jehangir gives the following instance of the breeding of tigers in captivity: 'It happened that a tigress became pregnant and after three months bore three cubs; it had never happened that a wild tiger after its capture had paired. It had been heard from philosophers that the milk of a tigress was of great use for brightening the eyes. Although we made every effort that the moisture of milk should appear in her breasts we could not accomplish it. It occurs to me that as it is a raging creature, the milk appears in the breasts of mothers by reason of the affection they have for their young as milk comes into their breasts in connection with their young ones drinking and sucking at the time of their taking (the milk) their (the mother's) rage increases and the milk in their breasts is dried up.'²¹ The last sentence is very obscure.

Jehangir probably refers in the above passage only to the breeding of tigers captured in the adult state. The breeding of animals reared in captivity is by no means such a rare occurrence. The period of gestation according to Dunbar Brander is about fifteen weeks. Tigress's milk is still regarded as panacea for a great many eye troubles. The difficulty in obtaining it, however, has probably much to do with its reputed efficacy.

THE LEOPARD OR PANTHER. (*Felis pardus*.)

Abul Fazi mentions this animal as occurring in the Saker of Kashmir where it was tracked.²² It is possible that the Snow

¹⁸ *Asi.*, vol. i, p. 283.

¹⁹ *Ibid.*, vol. ii, p. 539.

²⁰ *Jehangir*, vol. i, p. 157.

²¹ *Asi.*, vol. i, p. 242.

²² *Ibid.*, vol. ii, p. 252.

Leopard is referred to. The tracking of this animal in the snow is still considered very good sport.

In the chapter on the Fauna of Hindustan, the animal is stated by the same author to be 'numerous'.¹

Jehangir relates that on his return march from Kabul, from one of his periodical tours of inspection, a female panther (yâir) fell into their hands in the course of a hunt between the Garden of Wafâ and Nimlah, in the neighbourhood of Jelalabad. 'The zamindars of that place,' he continues, 'Laghmanis, Shalis and Afghans came and said that they did not remember, nor had they heard from their fathers, that a panther had been seen in that region for 120 years.'²

CATS

In the Fauna of Hindustan, Abel Faal mentions that 'Cats, white and tawny and even winged that will fly a short distance are numerous.'³

The last evidently relates to the flying squirrel, which in Urdu is called 'Uchi billi'—flying cat. This has been dealt with in its proper place.

LYNX AND CARACAL

These animals, the Hindustani name for which from the Persian is 'Sîah-gush' (Black-ear), were extensively employed by the Moghul Emperors in the chase. According to Abel Faal they were plentiful in Hindustan in Akbar's days and he states, 'His Majesty is very fond of this plucky animal for hunting purposes. In former times it would attack a hare or a fox, but now it kills black buck.'⁴

Both these species are still found within Indian limits, the Caracal according to Blanford in the Punjab, Sind, North-western and Central India? and the greater part of the Peninsula except the Malabar Coast but rare everywhere, and the Lynx which has a more northerly habitat, in the Upper Indus Valley, Gilgit, Ladak, Tibet, etc.

THE CHEETAH OR HUNTING LEOPARD. (*Cynelurus jubatus*.)

The Moghul emperors were extremely fond of this animal, large numbers of which were kept at court for hunting purposes.

With regard to the capture of cheetahs, Abel Faal observes: 'The ordinary pitfalls were liable to injure the animals severely and sometimes these managed to jump out and get away. Akbar invented a special sort of trap-door which closed when the cheetah fell into the hole. This pit was three gaz deep (about eight feet). Falling through the trap-door the animals were never hurt. On one occasion seven leopards—six males following a female—fell into a pit of this kind.'

Akbar was said to be able to train wild cheetahs in a much shorter time than was ordinarily required, and Abel Faal relates an instance

¹ *Id.*, vol. III.

² *Id.*, vol. III.

³ *Jehangir*, vol. I, p. 115.

⁴ *Id.*, vol. I, p. 260.

where 'a newly captured cheetah followed the emperor about without collar or chain to the astonishment of his court.'¹

The following account of a hunt with cheetahs is interesting inasmuch as it conveys some idea of the depth of interest Akbar took in this form of sport. Abul Faiz writes that '... at the time the army was encamped at Sanganir, His Majesty according to custom engaged in hunting. He was at this much devoted to hunting with cheetahs, and after assigning cheetahs to numerous parties, he went off himself with some special attendants. It chanced that they loosed a special cheetah called "Chitr Najan" at a deer. Suddenly there appeared in front of them a ravine which was twenty-five yards (gaz ?) broad. The deer leapt into the air to the height of a spear and a half and conveyed itself across. The cheetah in its eagerness took the same course, cleared the ravine and seized the deer. On beholding this astonishing occurrence the spectators raised a cry of amazement and there was great rejoicing and astonishment. The khedive raised the rank of that cheetah and made him chief of the cheetahs. He also ordered that as a special honour, and as a pleasure to men, a drum should be beaten in front of the cheetah.'

Fr. Monzerrate, a Jesuit, who sojourned at Akbar's court for a considerable time refers to the Emperor's love for this form of sport and to the method of hunting, in the following words: 'Zelaldinus (Jehâddîn Akbar) spends enormous sums in keeping countless hunting panthers, for hounds such as those of the Gallic and Alan breeds are unknown in this country. The panthers are drawn by horses under care of the keepers to the place where the game is feeding. They are blindfolded so that they may not attack any one on the way. When they are freed they dash ravenously upon the quarry; for they are kept in a state of starvation.'

Speaking of the various kinds of animals in the albino phase that had come under his notice, which included hawks, quails, flying squirrels, black buck, chinkars and others, Jehangir mentions a white cheetah which was brought to him at Agra by one Raja Bir Singh Deo. He states that he had never seen a white cheetah before and describes the animal thus: 'Its spots which are usually black were of a blue colour, and the whiteness of the body was also inclined to bluishness.'

The breeding of a pair of cheetahs in captivity is recorded by Jehangir in the year 1613. This is a valuable record; Blanford says that they do not breed in captivity. 'It is an established fact,' writes the Emperor, 'that cheetahs in unaccustomed places do not pair off with a female, and my revered father (Akbar) once collected together 1,000 cheetahs.² He was very desirous that they should pair, but this in no way came off. At this time a male cheetah, having slipped his collar, went to a female and paired with it, and after two and a half months, three young ones were born and grew up. This has been recorded because it appears strange.'³

¹ *Asa*, vol. 1, p. 296.

² The *Asat Nama* (p. 76) has 9,000. It says that Akbar was so keen on their pairing in captivity that he even allowed some cheetahs to run about in the gardens without collars, letting them walk about and hunt after their fashion, but all to no purpose.

³ *Jehangir*, vol. 1, p. 240.

Writing in the time of the Emperor Aurangzèbe, the traveller Mons. de Thevenot³ states: 'There are a great many Forests about Ahmedabad where they take panthers for hunting, and the Governor of the Town causes them to be taught that he may send them to the king. The Governor suffers none to buy them but himself, and they whose care it is to tame them in the meidan where from time to time they strike and make much of them that they may accustom them to the fight (?) of men.'

CIVET CATS

Mentioned by Abul Faal in his Fauna of Hindustan.

The Moghuls were extremely fond of perfumes of all kinds and this animal was naturally well known to them for the musk it yields. No actual description of a civet cat is furnished by any of them, but from the fact that a number of animals have been compared to it for shape and size, it is obvious that they were well acquainted with the animal.

THE HYENA. (*Hyena striata*.)

Mentioned by Abul Faal in the Fauna of Hindustan.⁴

THE WOLF. (*Canis pallipes*.)

Mentioned by Abul Faal in the Fauna of Hindustan.

The Emperor Jehangir records that he examined a male wolf killed by one Mirza Rustam Khan in the neighbourhood of the fort of Mandu to see 'whether its gall-bladder was in its liver like that of a tiger, or like other animals outside its liver. After examination it was clear that the gall-bladder was also inside the liver.'⁵

Sir Thomas Roe relates that while encamped at Mandu with the royal entourage, his servants killed a wolf that had broken into his camp and fallen upon some sheep in the courtyard. This animal was afterwards sent by him to the king (Jehangir).⁶

THE JACKAL. (*Canis aureus*.)

Mentioned by Abul Faal in the Fauna of Hindustan.

THE WILD DOG. (*Cæn dabbensis*.)

What is so fancifully described by Abul Faal in his Fauna is very probably this animal. He writes 'Sardel is the name of an animal smaller than a dog, but preys upon lions and other wild beasts.'

Controversy on the subject as to whether wild dogs kill tigers or not is a flourishing evergreen. Competent authority maintains, however, that under very exceptional circumstances they may do so.

³ *Travels into the Levant*, London, December 2, 1696.

⁴ *Ibid.*, vol. III.

⁵ *Jak.*, vol. I, p. 364.

⁶ *Forbes's Voyages*, vol. VIII, p. 14.

THE FOX

Mentioned in Abul Fazi's Fauna.

THE OTTER

Mentioned in Abul Fazi's Fauna as being common.

Jehangir enumerating the animals met with on a march to Kashmir in the course of one of his periodical migrations, observes that he saw numbers of these 'aq-e-ah' (i.e. water dogs) in the River Bhat (Jhelum).

THE BEAR

Abul Fazi mentions this animal in his Fauna.

THE FLYING FOX

The Emperor Babur appears to have suffered from the popular delusion regarding the status of this animal which he has placed amongst his birds. He described it thus: 'The Great Bat; they call it "Cham-gidri". It is about the size of an owl, and its head resembles that of a young whelp. It lays hold of a branch of a tree on which it intends to roost, turns head undermost, and so hangs, presenting a very singular appearance.'

THE FLYING SQUIRREL

In his enumeration of the Fauna, Abul Fazi refers to this animal as 'a winged cat that will fly a short distance.'

THE SQUIRREL

Babur describes our common palm squirrel as 'of the mouse species which they call "Galabri"'. It always lives in trees and runs up and down them with surprising nimbleness.'

'Gilehri' or 'Galabri' is the Hindustani name for the Common Indian Squirrel (*Sciurus palmarum*) and Mrs. Beveridge's suggestion that it may perhaps be *Fundulus aliciae* which is a nocturnal animal rarely seen in daytime, is certainly untenable. Moreover I am not aware of any distinction being made in India generally between this latter species and a rat, and the name 'Galabri' undoubtedly suggests a squirrel.

THE HARE

According to Abul Fazi, this animal was plentiful in the Sarkar of Tattah (Sind) where the hunting of it was much pursued, lynxes and falcons being principally employed for the sport.

THE ELEPHANT. (*Elephas maximus*.)

Of all the animals Babur found in his new kingdom, the one that appears to have excited the utmost wonder and amazement in himself and his Tartar hordes was the elephant. It is possible that

¹ Babur, vol. II, p. 222.

neither he nor his followers had ever beheld an animal before of such gigantic proportions, possessing such power behind his push, such a faithful ally in battle, and withal so tractable and docile. All of Babur's descendants shared with him this special regard for the elephant, and it has always figured prominently in all their State functions, peaceful and otherwise.

Babur thus describes the animal: 'As for the animals peculiar to Hindustan, one is the elephant. The Hindustanis call it *Hathi* which inhabits the district of Kalpi¹ and the higher you advance thence towards the east, the more do the wild elephants increase in number. That is the tract in which the elephant is chiefly taken. There may be thirty or forty villages in Kacran² and Manikpur³ that are occupied solely in the employment of taking elephants. They account to the Government for the elephants that they take. The elephant is an immense animal and of great sagacity. It understands whatever you tell it, and does whatever it is bid. Its value is in proportion to its size. When they arrive at a proper age, they sell it, and the largest brings the highest price. They say that in some Islands the elephant grows to a height of ten gas (25 ft. I have never in these countries seen one above four or five gas (10 or 12½ ft.). The elephant eats and drinks entirely by means of its trunk. He cannot live if he loses it. On the two sides of its trunk, in his upper jaw, he has two tusks; it is by applying these teeth and exerting all his force that he overturns walls and tears up trees; and when he fights or performs any operation that requires great exertion, he makes use of these tusks which they call 'aj' (ivory). The tusks are highly valued by the Hindus. The elephant is not covered by hair or wool like other animals. The people of Hindustan place great reliance on their elephants; in their armies every division has a certain number with it. The elephant has some valuable qualities; it can carry a great quantity of baggage over deep and rapid torrents, and passes them with ease; gun carriages which it takes four or five hundred men to drag, two or three elephants draw without difficulty. But it has a great stomach and a single elephant will consume the grain of seven or fourteen camels.'

Sanderson found by experiment that a full-grown elephant consumes between 600 and 700 lbs. of fodder per day.

The measurements given by Babur are also in keeping with actual facts. There is a skeleton of an Indian elephant in the Calcutta Museum which measures 11 ft. 3 in. so that its owner must in life have stood quite 12 ft. in height. This is the largest Indian elephant known.

As regards the sagacity of the elephant, Babur's description falls short of Aelian's who in his attempt to endow the elephant with unusual mental perception, relates that an elephant after carefully

¹ A town of great historic interest on the right bank of the *Yamuna* in the *Jaloun* District, U.P.—*King*.

² A town on the left bank of the *Yamuna* in *Allahabad* District.—*King*.

³ A town in *Parthalgarh* District, *Delhi*.—*King*.

watching its keeper wrote after him with his trunk letters upon a board.

Both Blanford and Sanderson agree in believing that the intelligence of the elephant has been greatly overrated, its extreme docility being confounded with intelligence. From a comparison of the development of its brain it is assumed that an elephant is probably of lower intellectual capacity than other ungulates.

Babur had probably never seen a newly born elephant for it is an interesting fact that the young of both the Indian and African elephants have a complete coat of fairly long hair which disappears in a few weeks.

Only once does Babur make an allusion to the sport of elephant hunting. It is doubtful whether this refers to the killing of elephants with bows and arrows or other weapons, or to the trapping of the beasts. Elephant trapping was an ancient practise necessitated by the extreme utility of the captures to the possessors, and Aristotle's descriptions show that the methods of capturing then differed little from those in vogue at the present day. Then as now, tame elephants were used as decoys.

Abul Fazl mentions that 'Garha' is a separate state abounding with forests in which are numerous wild elephants . . . and again that 'in the Sarkar of Bijagarh there are herds of wild elephants.'

He also describes an elephant hunt from which, it appears that there were several methods employed at the time for capturing these beasts. On the occasion referred to, Akbar's army which was encamped at Gwalior marched to Narwar where the elephant forests were. 'Arrangements for hunting were made and servants divided into several bodies. To each of them a great officer was appointed and several tame elephants assigned. Strong ropes too were provided for dragging purposes, and in case of need for nooses. An order was issued that whenever wild elephants were found, the tame one should follow it until it lost power of movement from weariness. Then from each side of the wild elephant, the drivers who were seated on the tame elephants should cast one end of the rope round the neck of the wild elephant and the other round the neck of the tame one. In this way to be brought to captivity and dragged along. Every day they were to tan e him more and more and throw fodder before him till they could mount on him. This to occupy a short time. The real method of training every wild animal is gentleness and the exhibition of everything that is agreeable to him, such as grass, grain and water. On rational grounds this mode of hunting seems to be the best plan for hunting elephants; for the wild elephant is great of body and powerful, and is subdued by elephants more powerful than or like himself, the hunters avert his malignity from themselves and gain the victory over him. . . .'

The historian recounts that on the third day of this hunt, as Akbar was on horseback at early dawn, he came across a herd of over seventy elephants. These were ordered to be driven into a dense forest where the foot of each was secured to a tree. Watches were stationed over each animal till the tame elephants with ropes arrived

* Ancient capital of the Gond dynasty of Garha of Mandla—*Jug. Gazetteer*.

from camp, when under Akbar's direction the elephants being firmly bound, each between two of the royal elephants, were conveyed to the camp by evening.

It is interesting that in Belgian Congo where the Government are at present conducting experiments to tame and train the African elephant for work, the above method of capture is followed. Native hunters with nooses follow a herd for days until the animals are driven into dense forest where they can be approached, and as soon as an opportunity offers a calf's leg is lassoed and the animal firmly secured to a tree.

Abul Faal enumerates the methods of capturing elephants as under :—

1. Kheddah. This method was practically the same as now employed.
2. Cher Kheddah. Here a driver lay flat on the back of a tame female which was driven into a herd of wild elephants. The driver secured a wild one by throwing a rope round its foot.
3. Gadh—Pitfalls.
4. Bar.

Regarding the last he states: 'From times of old people have enjoyed elephant hunts by any of the above modes. His Majesty has invented a new manner which admits of remarkable finesse. In fact all excellent modes of hunting are inventions of H.M. A wild herd of elephants is surrounded on three sides by drivers, one side alone being kept open. At it several females are stationed, from all sides male elephants will approach to cover the females. The latter then gradually go into the enclosure whither the males follow. They are now caught.'

In his 'Travels into the Levant' published in the year 1686, and written probably in the reign of the Emperor Aurangzeb, Mons. de Thevenot describes the various methods of catching elephants as follows: 'Elephant hunting is variously performed. In some places they make pitfalls for them, by means whereof they fall into some hole or pit whence they are easily got out when they have once entangled them well. In other places they make use of a tame female that is in season for the male whom they lead into a narrow place and tie her there; by her cries she calls the male to her, and when he is there, they shut him in by means of some rails made on purpose, which they raise, to hinder him from getting out, he having the female in the meantime on his back, with whom he copulates in that manner, contrary to the custom of all other beasts. When he hath done he attempts to begone, but as he comes and goes to find a passage out, the huntsmen who are either upon a wall or in some other high place, throw a great many small and great ropes, with some chains, by means whereof they so pester and entangle his Trunk, and the rest of his body, that afterwards they draw near him without danger; and so having taken some necessary precautions, they lead him to the company of two other tame elephants, whom they have purposely brought with them to show him an example, or to threaten him if he be unruly. There are some other snares besides for catching elephants and every country hath its way. The females go a year with young and commonly live about an

hundred years.' This travelling gentleman's method No. 2 is doubtless an elaborated version of the 'Bar' above described. We can only hope that his description of the elephant's *maha upah* is not a sample of his general versatility.

Writing of elephants, Fr. Mosserate the Jesuit from Goa, who lived at Akbar's court for a considerable time, observes as follows: 'The males go so violently mad for about three months of every year that sometimes they kill even their keepers; they are most useful for fighting at this period. When the time of madness is past, if they have to be engaged again on account of an impending battle, this is effected by giving them cats' flesh to eat mixed with their other food. They are kept quiet and harmless at home by the company of female elephants: for all their rage abates as soon as they see a female.'

They live in herds in the forests, having a sort of joint family life, under the leadership of the father (as it were) of the herd and family, who is obeyed by his offspring and followed like a general in the wars which they carry on with other elephants. When they are hunted the herd retreats or attacks according to the command of this leader who marches with a proud and insolent air, like a true general in the midst of his forces, and seems to threaten all who approach. He paces slowly to and fro terrible to behold, and spurs none but those who grant himself and his family feeding ground. Those are regarded the best which have low hind quarters and strong legs and necks. Strabo writes that their period of pregnancy is normally eight months, but sometimes six or ten: that the mother suckles her young for six months: that the female reaches maturity at ten years: that they live as long as a long-lived man: that some even reach 200 years: that their health is delicate: that they cannot be cured if once they become diseased. . . . Their young are at one year old, hardly as big as a pig. . . .¹

With regard to the period of gestation and the birth of an elephant, Jehangir records: ' . . . a female elephant in the private elephant stud gave birth to a young one in my presence. I had repeatedly ordered them to ascertain the period of their gestation; at last it became evident that for a female young it was eighteen months and for a male nineteen months. In opposition to the birth of a human being, which is in most cases by a head delivery, the young elephants are born with their feet first. When the young one was born the mother scattered dust upon it with her foot and began to be kind and pet it. The young one for an instant remained fallen and then rising made towards its mother's breasts.'²

The following account of a hunt given by Jehangir is interesting more particularly in the fact that the locality where it took place has long since gone out of the wild elephant's range of distribution. Writing from camp at the village of Sajra (Sajwara?), eight kos from Dohad, now in the Panchmahals District (Bombay Presidency), the Emperor says: 'I went to hunt elephants with a body of my private servants. As the grazing place of elephants is in a hilly country, with elevations and depressions, a passage is obtained with difficulty

¹ Commentary, p. 84.

² *Jah.*, vol. 4, p. 265.

by one on foot. Before this, a large body of horse and foot had surrounded the jungle after the manner of a qamargah, and outside the jungle on a tree they had prepared a wooden platform for me. On all sides of this they had arranged seats on other trees for the Amirs. They had got ready 200 male elephants with strong nooses and many female elephants. On each elephant there were seated two elephant drivers of the tribe of Jarga, whose special employment is the hunting of elephants, and it had been arranged that they should bring the wild elephants from the jungle into my presence, that I might witness the hunt. It happened that at the time when the men from all sides entered the jungle, in consequence of the thickness of the forest and the heights and hollows, the chain was broken and the order of the qamargah did not remain perfect. The wild elephants in bewilderment turned in every direction, but twelve males and females came to this side (i.e. where Jehangir was). As the fear was that they might escape, they drove in the tame elephants and tied the wild elephants up wherever they found them. Although many elephants were not caught at least two excellent ones were captured, very handsome in shape, of good breed and perfect marks. As there is a hill in the jungle where the elephants were, called "Rakas (Rakhas) Pahar" or "Demon Hill"; I called the two elephants "Ravan Sar" and "Pavan Sar", these being the names of two demons.

The hill referred to is, as suggested by Rodgers and Beveridge, doubtless Pavagarh, a hill-fort in the Panchmahals District which is 2,800 ft. above sea level.

Jehangir left the place while the kheadla operations were still in progress, and soon after he mentions that 'a report was received from Gajpat Khan, Superintendent of the elephant stables, and Baluch Khan, the chief Huntsman that upto this time sixty-nine elephants male and female had been caught. Whatever took place after this would be reported. I ordered them to beware not to take old or small elephants, but with this exception they should catch all they saw, male and female.'

With regard to the size of elephants Jehangir³ says, 'In the elephant stables of His Majesty Akbar the largest elephant I saw was "Durjan Sal". It was long the premier elephant. Its height was four yards (dars) and 3/4 quarters of the ilahi gaz, which is eight yards and three fingers of the ordinary gaz. At present among the elephants of my establishment the largest athlete is "Alam Gajraj" which H. M. Akbar himself had caught. It is the chief of my special elephants. Its height is 4 1/2 yards (dars) or 7 yards 7 fingers of the ordinary yard. The ordinary gaz (yard) has been fixed at twenty-four fingers' breadth of an average sized man and the ilahi gaz is forty fingers' breadth.'

This would make the height of 'Alam Gajraj' about 11 ft. and that of 'Durjan Sal' about 12 1/4 ft.

Jehangir mentions that one of his private⁴ elephants Gajpati by name and a female that was with him in the stables were both

³ *Acc.*, vol. II, p. 18.

⁴ *Acc.*, vol. I, p. 202.

bitten on the foot by a mad dog. The symptoms and effects of the bite recorded by him as follows are interesting: He writes, 'When a month and five days had passed after this event, one day when it was cloudy, the growling of thunder came to the ear of the female elephant that was in the act of eating, and it all of a sudden raised a cry and its limbs began to tremble. It threw itself on the ground but rose again. For seven days water ran out of its mouth, and then suddenly it uttered a cry and showed distress. The remedies the drivers gave it had no effect and on the eighth day it fell down and died. A month after the death of the female they took the large elephant to the edge of a river in the plain. It was cloudy and thundering in the same way. The said elephant in the height of excitement all at once began to tremble and sat down on the ground. With a thousand difficulties the drivers took it up to its own place. After the same interval and in the same way as had happened to the female elephant this elephant also died.' The Emperor concludes this account with 'Great amazement was caused by this affair, and in truth it is a matter to be wondered at, that an animal of such size and bulk should be so affected by such a weak creature.'

Two records of African elephants being brought to India are to be found in Jehangir's *Memoirs* (p. 323). One was a young individual brought as an offering by the Governor of Gujerat to the Emperor Akbar which we are told was very fiery and bad tempered when it grew up. The other was a small elephant presented to Jehangir in 1616 by one Muqarrab Khan which had been brought by sea from Abyssinia. Regarding these Jehangir observes that: 'In comparison with the elephants of Hindustan it presents some peculiarities. Its ears are larger than the ears of the elephants of this place, and its trunk and tail are longer.'

THE GREAT ONE-HORNED RHINOCEROS. (*Rhinoceros indicus*.)

Babur, as we know, frequently hunted this animal which he describes as follows:

'The rhinoceros is a huge animal. Its bulk is equal to that of three buffaloes. The opinion prevalent in our countries that a rhinoceros can lift an elephant on its horn is probably a mistake. It has a single horn over its nose, upwards of a span¹ in length, but I never saw one of two spans. Out of one of the largest of these horns, I had a drinking vessel made,² and a dice box, and about 3 or 4 fingers' bulk of it might be left.'

'Its hide is very thick. If it be shot with a powerful bow drawn up to the armpit with much force, and if the arrow pierces at all, it enters only 3 or 4 fingers' breadth. They say however, that

¹ A span would be equal to 8½ or 9 inches. The record horn of *R. indicus* given in Rowland Ward's *Animals of Big Game*, 7th. ed. is 24 inches length on front curve or equal to about 3 spans of Babur. It will be noticed here how guarded Babur is regarding the measurements he gives.

² In commenting on this Sir Lucas King observes as follows: 'The rhinoceros's horn was supposed to sweat on the approach of poison, a quality which fitted it in a peculiar manner for being made into a drinking cup for an Eastern king.'

there are parts of its skin that may be pierced and the arrows enter deep. On the sides of its two shoulder blades and of its two thighs are folds that hang loose, and appear from a distance like cloth housings dangling over it. It bears more resemblance to the horse than to any other animal. As the horse has a large stomach, so has this; as the pastern of a horse is composed of a single bone, so also is that of the rhinoceros. It is more ferocious than the elephant and cannot be rendered so tame and obedient.*

As regards the distribution of the rhinoceros, Babur says: 'There are numbers of them in the jungles of Peshawar and Hadsagar, as well as between the rivers Sind and Behrah in the jungles. In Hindustan too they abound on the banks of the Saru (Gogra).'

Towards the end of Humayun's reign, in about the year 1556, a Turkish admiral of Sulaiman the Great, by name Sidi Ali Reis, who by the exigencies of war and weather, had found himself obliged to travel overland from Surat to Lahore and thence across all the intervening lands to Turkey[†] records that his party came across two rhinoceros near Peshawar, 'an event' as Mrs. Beveridge observes 'which makes one wonder whether there still remained a part of the ancient lake of the plain of Peshawar to serve as a habitat for the huge now vanished beasts.'

Compare the above distribution with the present sadly diminished territories of the animal, which are Burma, Assam and the Nepal Terai, nowhere of which can it be said to be really plentiful, except perhaps in the last named, where owing to its being strictly preserved as Royal Game, the rhinoceros is still to be found in fair numbers. In parts of Assam, too, owing to strict protection, its numbers are slightly on the increase.

The belief in the efficacy of the rhinoceros's horn against poison remained in England even upto the time of Charles II. In his *Science from an Easy Chair*, Sir E. Ray Lankester mentions that at that time a cup made of rhinoceros horn was handed over to the Royal Society for experiment, with the result of entirely disproving the superstition. The belief however, still exists in certain parts of India and in Oriental countries generally. In Tenasserim, where both *R. sondaicus* and *R. sumatrensis* are found, the Chinese pay big prices for the horn. The blood, urine and other fluids of the body are likewise preserved and greatly valued. The blood is believed to possess tonic and aphrodisiac properties and sells at about Re. 1 per tola dried. The animal when killed is turned on its back with its feet in the air. The viscera is carefully removed so as not to lose any of the precious fluids, and all the blood, etc., which flow down into the body cavity are scooped out and collected in hollow bamboos, or in the guts of the animal in the form of sausages, and

* Babur, vol. II, p. 250.

† With regard to Babur's comparison of the animal to a horse, Mrs. Beveridge in her translation of the *Memoirs* notes: 'The anatomical details by which Babur supports this statement are difficult to translate, but his grouping of the two animals is in agreement with the modern classification of them as 2 of the *Ungulata* order, the third being the Tapir *F. B.T., Mammalia*, pp. 47-8, Bradford.'

† Vambery, *Travels and Adventures of Sidi Ali Reis*, Lucas & Co., 1856.

smoke-dried. It is said that a dead rhino is worth anything from Rs. 900 to 1,200 to its hunters. Professional Siamese hunters, presumably having exterminated the rhinoceros in their own country, formed themselves into small roving bands and crossed over into British territory in the Mergui and Tavoy Districts of Lower Burma, and carried on the merciless slaughter of this animal on an extensive scale, and it was on this account that the Government of Burma had to pass legislation to protect it, making poaching a serious offence, and to appoint patrols in areas inhabited by these species.

Writing in the reign of the Emperor Akbar, his chronicler Abul Fazl states regarding the Sarkar of Chambal: 'There is game in plenty and the rhinoceros is found. It is an animal like a small elephant without a trunk, and having a horn on its snout with which it attacks animals. From its skin, shields are made, and from its horn finger-guards for bow-strings, strings and the like'. The same author includes this beast in his Fauna of Hindūstan where it is described thus: 'The rhinoceros is a stupendous creature; he is twice the size of a buffalo, and much resembles a horse in armour. His feet and hoofs are like those of an elephant and his tail similar to a buffalo's, and he has a pastern joint like a horse. On the point of his snout he carries a single horn, and his hide is so thick that an arrow will not pierce it. Of his breast-plates and shields and the like are made, and he is bold enough to charge a man on horse-back.'

The above description, as will be noted, closely resembles Baber's account, and may have probably been taken from his *Memoirs*.

The record Indian rhinoceros shot in Nepal measured 6ft. 4in. at the shoulder. A good sized bull buffalo measures 5 ft. or a few inches above.

The Emperor Jehangir mentions that one day he was hunting the rhinoceros from an elephant in the Kul Nuh Ban (Forest) in the neighbourhood of Aligarh. He says 'A rhinoceros appeared and I struck it with a bullet on the face (*mana*) near the lobe of the ear. The bullet penetrated for about a span. From the bullet it fell and gave up its life. It has often happened in my presence that powerful men (*jowāds*) good shots with the bow, have shot 20 or 30 arrows at them and not killed.' This took place about the year 1622 A.D. It has been stated that this animal was a wolf, but this is obviously incorrect. In Persian *Gūg* is a wolf and *Kūg* a rhinoceros. A wolf certainly would not require 20 or 30 arrows to kill it.

(To be continued)