#### HARYANA DISTRICT GAZETTEERS

## REPRINT OF ROHTAK DISTRICT GAZETTEER, 1910



GAZETTEERS ORGANISATION
REVENUE DEPARTMENT
HARYANA
CHANDIGARH (INDIA)

1998

The Gazetteer was published in 1911 during British regime.

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#### PREFACE TO REPRINTED EDITION

The District Gazetteer is a miniature encyclopaedia and a good guide. It describes all important aspects and features of the district; historical, physical, social, economic and cultural. Officials and other persons desirous of acquainting themselves with the salient features of the district would find a study of the Gazetteer rewarding. It is of immense use for research scholars.

The old gazetteers of the State published in the British regime contained very valuable information, which was not wholly re-produced in the revised volume. These gazetteers have gone out of stock and are not easily available. There is a demand for these volumes by research scholars and educationists. As such, the scheme of reprinting of old gazetteers was taken on the initiative of the Hon'ble Chief Minister of, Haryana.

The revision of this Gazetteer of Rohtak was taken up shortly after the Census of 1901. Mr. E. Joseph, Deputy Commissioner and Settlement Officer drafted it. The basis of the present edition, atleast of two chapters, is Mr. Fanshawe's Settlement Report of 1880.

The Volume is the reprinted edition of the Rohtak District Gazetteer of 1910. This is the sixth in the series of reprinted gazetteers of Haryana. Every care has been taken in maintaining the complete originality of the old gazetteer while reprinting. Lextend my appreciation to Sh. A.K. Jain, Editor, Gazetteers and Sh. J.S. Nayyar, Assistant, who have handled the work with efficiency and care in the reprinting of this volume.

I am very thankful to the Controller, Printing and Stationery, Haryana and his staff in the press for expeditiously completing the work of reprinting.

September, 1998

Jeet Ram Ranga Joint State Editor (Gazetteers)

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1911.

### PREFACE.

The revision of the Gazetteer of Rohtak was taken up shortly after the census of 1901, but ultimately left to the Settlement Officer as a parergon. When I joined the district at the end of 1905, I found a variety of material collected by a number of officers, but little of it revised and most of it already out of date. Where I have made use of this material, I have attempted to acknowledge its authorship as far as could be ascertained from handwriting or style. The basis of the present edition, at least of the first two chapters, is, however, Mr. Fanshawe's Settlement Report of 1880, a report which the Government of India described as "in almost every respect the model of what a settlement report should be." I have not hesitated to incorporate whole passages from this report, noting any corrections that the lapse of time rendered necessary. To these robberies I have confessed in the text, but there are probably also many petty thefts indifferently concealed.

The gazetteer has been written amid great pressure of other work, very intermittently. The result is a mixture of styles and persons, which has the advantage of economising the fount of capital I's.

ROBTAK:

20th August 1910.

E. JOSEPH,

Deputy Commissioner and

Seltlement Officer.

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## CHAPTER 1.—DESCRIPTIVE.

## Section A.—Physical Aspects.

CHAP.I.A

Physical

1. The name of Robtak, or Robtag as it is often written Aspects. and pronounced, is said to be a corruption of Rohtasgarh, a name still applied to the ruined sites of two older cities one derivation. lying immediately north of the present town and the other about 3 miles to the cast. Traditionally it is named after Rája Robtas in whose day the city was built and the name recurs in that of a celebrated tank outside the town of Gohana.

2. The district to which Rohtak has given its name belonged Boundaries to the Hissar Division until 1894 when the three districts of that ation Commissionership were merged in the present Delhi Division. It lies between north latitude 28° 21' and 29° 19' and east longitude 76° 15' and 77° 5', far beyond the southern boundary of the Panjab proper, on the confines of Rajputana, and is in shape extraodinarily like Ireland with the south-eastern portion of the Jhajjar tabsil superadded. The greatest length is 63 miles, and the greatest breadth 43, while so compact a district is it that with the exception of a few villages in the extreme north of the Gohana tabsil and a band to the south of the Jhajiar tabsil running to a breadth of 12 miles, the whole district lies within a radius of 25 miles from the civil station of Rohtak which is the administrative head-quarters.

With an area of 1,797 square miles the district is little more than half the usual size of a Panjab district, and stands twentyfourth in order of area among the 29 districts of the province, comprising I'S per cent. of the total area. In order of population, however, it stands twentieth with 3.1 per cent. of the total population by the census of 1901, while in extent of cultivation it ranks twellth and in the amount of its revenue seventh.

The centre of the district is about 730 feet above sea level, and the fall of the country as far as the Jhajjar border is from north to south at about one foot per mile. In Jhajjar the slope is slightly from south to north, and the district is remarkable as the point where the watershed of Malwa to the north-west changes to that of Rajputana from the south. In the northern tabails there is also a very considerable slope from west to east. The district is bounded on the north by Jind territory and the Panipat tabsil of Karnal; on the east by the Sonepat and Delhi tahsils of Delhi and the Gurgaon tabsil of Gurgaon; on the south by the Pataudi State, the Rewari tahsil of Gurgaon, and the Nahar villages of Dujana; and on the west by the Dadri pargana of Jind, the Bhiwani and Hansi talisils of Hissar and the main territory of Jind.

CHAP. I, A. Physical. Aspects. Sul-divisions

The district up to 1910 contained four tabsils, Gohana to the north, Jhajjar to the south, and Robtak and Sampla west and east respectively, in the centre. The Sampla tabil was however abolished in 1910 and a re-distribution of the district into of the district, just where the old Robtak, Sampla and Ibajjar tabells converged, lies an island, completely surrounded by the Rohtak villages and consisting of 2 estates of Dujana and Mehrana with an area of 114 square miles which form a portion of the territory of the Nawab of Dujana.

Scenery.

4. Though Robtak has no grand scenery the canals with their belts of trees, the lines of sand-hills, the joils that still sometimes form in Jhajjar and a few small rocky hills in the south-west of that tabsil-last spurs of the Aravalli system-together with the striking appearance of many of the village habitations, give the district more variety of feature than is usually met with in the Panjab plains. The castern border lies at the same low level as the Dolli branch of the Western Jumna Canal and the Najafgarh jhil into which flows the drainage of the Sahibi and Indori streams that cross the south-eastern corner of Jhajjar.

Streams. water Jeval.

5. Of these two streams rising in the Mewat hills an excellent account is given in Mr. Fansbawe's Settlement Report of 1880. "The Sahibi", he writes, "rises in the Mowat hills running up from Jeypur to Alwar near Mancharpur and Jitgarh, which are situated about 50 miles north of the capital of the former State. Gathering volume from a hundred petty tributaries, it forms a broad stream along the boundary of Alwar and Patan, and crossing the northwest corner of the former below Nimmanah and Shahjebanpur, enters Rewari above Kete Kasim. From this point it flows due north through Rewari and Pataudi (passing seven miles east of the former town, and three miles west of the latter), to Lohari in the south-east corner of the Juajjar tabsil, which it reaches after a course of over 100 miles. Flowing through Lohari and throwing off branches into Patandah and Kheri-Sultan, it. again passes through the Gurgaen district, till it finally enters Rohtak at the village of Kutani. The Indori rises near the old ruined city and fort of Indor perched on the Mewat bills, west of the Gurgaon town of Nah. One main branch goes off north-west and joins the Sahibi bed on the southern border of the Rewari tabsil; while the collected waters of a number of feeders of the north branch pass three miles west of Taore, spread over the low lands round Bahorah, and ultimately also fall into the Sahibi near the south of Pataudi. two streams have no separate bed now above this point; the east branch in Kutani, which is called the Indori, really takes off three miles below the Ilmijar border from the same bed as the west The reason why the Indori preserves its branch or Sahibi. separate name and is almost the better known of the two streams, is that owing to the proximity of its sources its floods appear after a moderate rainfall, while the Saliibi, which flows a long distance

through a dry and sandy country, comes down in volume only in CHAP. I, A. years of heavy rain. Under native rule, moreover, the Sahibi used to be dammed across at Kote Kásim and Jharthal on the south border of Rewari, and its waters were diverted to the west, so that only the Indori floods flowed down the Sahibi channel. Still in spite of the two names it is an undoubted fact, that there is only one channel by which the united waters of both these streams enter the Bohtak district."

"On reaching Kutani, the stream divides into two branches. One passes due north and joins the depression between Yakubpur and Futtehpur, the other turns west, and in Naglah again divides. the one branch passing up to the low lands above Dadri, and the other continuing west to Zahidpur. After throwing an arm into the Batherah jhil, the latter turns north to Aurangpar, and flows through a lake there along the foot of the sand-hills to Silanah and the two Silauis. At this point it changes its course abruptly to the east, and passes through a gap in the sand-bills to the lake between Kote Kalal and Surah, and thence working south to the lakes of Kiloi and Dadri, (where it is joined by the branch going north from Naglah) falls into the expanse between Sondhi, Yakubpur and Fattelipur, to which the branch from Kutani flows direct. From here the re-united stream turns sharply to the north again, and passing through a second sand ridge, between Fattehpur and Niwanah, onters Badli through the masonry sluices of the often threatened but still existing band of Nawab Feiz Muhammad Khan. Thence it passes into the Delhi district by two arms, the best defined going through Dowarkhanah and Lohat to Dhindasa, and the other by a huge shallow sweep up the west side of Badli and under the town. When the floods come down in full volume, all the depressions along their course fill from side to side : the water generally rises in a few days and passes off in two or three weeks. The lakes above Anrangpur and below Kote Kalal and Surah never dry, and even the others usually retain some water in the lowest parts of their beds all the year round. The Najafgarh jhil lies five miles distant from the Jhajjar border, and throws out from the centre and northern end two shallow depressions, fourteen miles and eight miles long, back to Bupaniah and Bahadurgarh; while the low-lying lands of Jhajjar are thus irrigated by the streams as they come down to the juil, those of Sampla are affected by floods passing up from the over-filled juil itself. The view of the lakes with their waters rendered intensely blue by the surrounding sand-hills, fringed with Inxuriant crops of wheat and sugarcane, and covered with flocks of ducks, geese, and snow-white pelicans, is very beautiful in the spring."

Had the present edition of the gazetteer been compiled two years ago this account would not have re-appeared. Dams in the native states through which these streams pass and perhaps extended cultivation and diminished rainfall had for many years left to the

Aspects-

CHAP.I.A. Rohtak district little more than a fond recollection of the Sahibi Physical and Indori. For 20 years no real flood, distinguishable by the red colour of the silt carried in the water, had come down the old channels, but in 1903 and 1909 the floods re-appeared. Nature conformed in almost every detail to the picture drawn above. wild fowl and the pelicans swarmed into their uncient baunts, even sugarcane ventured an appearance. But the efflux of the Najafgarh juil never reached Bupaniah and Bahadurgarh. Water came as far as Mundhela in the Delhi district where it was held up by blocking the bridge on the branch road of the old customs line. Bitter disputes arose between Murdbela and the Rohtak villages, which were referred to the Sottlement Officers for adjudication. The difficulty is that Mundhela lies low and must be protected from hundation. A pillar has been erected close to the village, and it has been decided that the floods must be allowed in future, if they ever come, to flow unrestrained towards Bapaniah until the water reaches the level of the pillar when the Mundbela people may block the bridge. In point of fact Bupaniah is unlikely to get any water for the configuration of the country is such that it can hardly do so without disaster to Mundhela, and that is a price that cannot be paid.

> Of another stream, the Kashaoti, that used to flow from the Jhajjar border near Kosli to Jhajjar itself, an account will be found in paragraph 6 of Mr. Fanshawe's report, but that stream has been dead for more than 20 years. On the other hand in 1908 a flood appeared from an unknown source in the south of the tabsil and held up by the railway embankment turned back and washed away the village of Mohanbari.

Sand-hills.

6. In the centre of the district, at a point a lew miles from the low eastern border, the surface gradually rises to a level platean, which stretches as far as the town of Rohtak and is roughly demarcated east and west by two rows of sand-hills. From the western line is a further gradual rise up to the Hissar border, where it ends in a third high range of sand-hills; the castern line of sand-hills runs on with breaks here and there into the Jhajjar tabsil crossing it obliquely to the south-east and rising here to a considerable elevation. Here too the face of the country alters, the surface becomes more undulating, the soil lighter and the water level nearer. In the Dahri circle of Jhajjar, the old flood ground of the Iudori and Sahibi, it is not more than 15 to 30 feet below the surface and dhouklis are often worked in favourable localities. The depth below the surface to the water in villages which are not affected by flood, canals or drainage lines, testifies to the general exterior configuration of the country. For example, the level is 106 feet in and around Mehm in the west, and nearly as much near Beri in the centre of the district, 50 feet in the Bhur circle of Jhajjar and the same in and around Mandauthi near the Delhi border.

7. The natural drainage of the country was, until about the year CHAP.I,A. 1878, much impeded by the line of the old Robtak canal, and water Physical logging and fever were the inevitable con a quences. The re-align. Aspects. ment of the canal enabled the natural drainage lines to be improv- Natural ed. A number of these in the Gohana tabeil, sometimes scarcely drainage perceptible, sometimes distinct troughs, are trained from the north and north-east into the Rollas tank at Gohana, while from that tank has been excavated, often to a considerable depth, the main drain "number VIII" or "ganda nala," which flows with a southerly or south-westerly direction past Rohtak and Beri and tails off at Bhindawas in the Jhajjar tabsil. The shallow beds of the Gohana drains are often sown with spring crops while from the water collected in the "ganda nala" a few villages have oceasionally lifted water on to their fields. Another system of drains starts from the Jua and Bhatgaou jhils in the Della district. lines run through the eastern border of the Robtak tabsil and unite in Nilothi from where a deep channel passes the flood waters out of the district by Bahadurgarh towards the Najafgarh jhil. The capal system is described in Chapter II.

3. On the geology of the district Mr. II. II. Hayden writes: Geology. "With the exception of a few small outliers of Alwar quartzite belonging to the Delhi system, there is nothing of geological interest in the district which is almost entirely covered by alluvium."

9. Of the botany of Rohtak as such little appears to be known, Flora, and nothing to have been recorded. To the lay eye there is little to notice except trees and shrubs and they are conspicuous by their rarity in many parts of the district. The finest trees and the greatest variety are to be found along the banks of the old canal. Here shisham (dalbergia sisoo), siris (albizzia lebbek) of two kinds, tun (cedrela toona), mulberry (tút-morus), mango (dm-mangifera indica) pipal (ficus religiosa), guler (f. cunia), har (f. indica), lasura (cordin myxa), and shimbal (bombax heptophylla) are to be found. On the newer lines where planted at all only whisham and kikar (acacia arabica) are to be seen. The neglected opportunity of planting these banks, despite constant remonstrances, is a standing discredit to the Irrigation Department. In the fields and round the villages trees are fairly abundant in the north of the district where irrigation is of older standing, though they suffer severely from lopping in years of scanty fodder. pipal, bar and nim (azadirachta indica), jand (prosopia spicigera), kikar, nimbar or raunih (acacia leucophices), and shisham are the most common. Groves of mangos and jamans (zizygium jambolanum) are not uncommon and on the tanks are often found fine specimens of the evergreen kaindu (diospyrus tomentosa) and of the kaim (stephygone parvifolis) under whose shade the holy Krishna played, and whose timber is therefore seldom cut. Often a shrine to Shamji (Krishna) will be found

<sup>\*</sup>Hacket: Geology of the Arawali Region, Rec. C. S. I., XIV, Part 4.

CHAP. I, A thereby. The Jats of Dobh think they would get boils if they cut this tree. Mawwi is remarkable for its splendid pipal trees. Aspects. Other less common trees are the anula (emblica officinalis), rohera (tecoma undulata), burna (cratorva religiosa), bel patta (aegle marmelos) and amaltus (cassia fistula). On the tank at Kharkhara is a distinct species of cassia called by the people the anjan rukh or unknown tree. The tree of the village reserve, or bani, is par excellence the jail (salvadora oleoides) and the soil here is generally so deeply impregnated with salts that nothing else will grow although in favourable localities kiker, jund, kaindu and dhuk (butea frondesa) are also found. The last-named is counted an index of good soil.

> The further south we go the scantier are the trees, and the presence of anything more than a few solitary trunks is a sure sign that a habitation is close by. In the sandy part of the Jhajjar tabal, and round the well lands the Jarash (tamarix orientalis) is the distinctive tree of the countryside. It grows readily from cuttings and needs little water and should be planted on roadsides for more than it is. The jhao of the Jumpa bed (tamarix dioica) is also found occasionally in low-lying tracts in the south of the district. The kharjal (salvadora persica), hingo (balanites agyptiaca) and hindok, a landsome tree (quære?) are not uncommon in the Jhajjar talish, and there is a thick growth of somewhat scrubby trees, among which the kair (acacia katechu) and labui (acacia churnen? ) are prominent, in the Government reserves in this tabil.

> Of smaller trees and shrubs the kair, or karil of the Panjab, (capparis aphylla) is everywhere predominant. The bada are pickled and its feuit is enten and, with the feuit of the jal (pilu), often in bad years for weeks together forms the main support of the lower classes. The ber or jharpala (zizyphus jujuba) grows spontaneously in all unweeded fields and provides valuable fodder. Hinsa (capping horrida) and bansa (adhateda vesica-the Panjab bansuti) are common. The first is a good hedge and fuel plant and the latter is much used for roofing. The shimalu (vitex negando) which is used for fomentation is believed to grow well in villages of a masculine name, but not in those with a feminine termination! Other noticeable shrubs are the kanger (pistachin intogerrima), mral or marelan (lycium europaeum), thorny growths which serm to affect sandy soil, as does the mappen or prickly pour (cactus indicus). The worst weeds of the district are the ak (calotropis process) which runs riot everywhere, but when full grown provides fuel, with its handsome parasite the margoza, rudely called ak ka mama, the ak's uncle, the thistle rassa (coicas arvensis), jawasa (alhagi maurorum) or camel thorn, the kundai saturasan or yellow-thorned poppy (argemone mexicana) and the purple bloomed kandai pasarma (solanum xanthocarpum). In cotton fields the dadain (aschyno-

mene indica) towers above the crop, and when felled forms wattl. CHAP I A. ings for the carts. The batna (chenopodium album) which makes Physical a spinach, and the khartua (chenopodium murale) and piaza (asphodelns fistulosus), of no use to man or beast, are the worst enemies of the well-fields. On sandy soil, the bhuin (anabasis multiflora), khip (orthantbera viminea), kharsana (crotolaria burhia), banna (tamarix gallien) and rerka or banna (tephrosia purpures) are very common. None of these but have their uses: kha sana or khip provide a fibre which is woven among other purposes into mats for the wolls. The bhuin, bana and bonsa are grazed by the omnivorous camel and goat.

10. The grasses of the district are numerous. Most conspi- Grasses, cuous of all is the sar (saccharum munia) whose uses are too well known to need mention. This is abundant on the sand-hills and also grows on the river sand thrown out by excavation of the canal channels. Dúb (eynoden dactylon) luxuriates on the well runnols and canal banks and in seasons of good rainfall covers every field. "Aur ghás jal jáwrgi dúb rahegi tháb; though all other grass be burned up, the dob will remain fresh." It is a great pity the people do not stack it for their cattle. The mota or motiva is a troublesome weed especially in irrigated land, but its bulbous root is edible and chanars may be seen pulverising the ground so as to extract it whole. The dab (oragrostis cynosuroides) is often a troublesome weed, but when young it is readily grazed and when times are bad it is stored and chopped up for fodder: The proverb "Marega, kya dúb charega, though an animal should die, will be eat dab?"-is too pessimistic; brushes and bed rope are also made from it and it sells for 25 sers the rupoe. Kins (sacharum spontaneum) is less of a muisance than it is painted, and is chopped up for fodder. Occasionally its decrease is even made can e for complaint. There is a proverb too, " ghore ko káns, ádmi ko báns; káns for a horse, and a staff for a mag."

The gandra, pana, or jhund (anathurum muricatum), which is found in ponds and depressions, is very valuable for thatching and for brooms, while the makrah (quero?) with a blossom like a wood louse and the deila (quare?) both give good grazing. The sinwak or samak (panicum colonum) bears a small bajra-like genin and is collected by the poorer classes in times of famine while the bhurat (cenchrum echinatum), which gives a poor grain for man as well as fodder for cattle, will be identified by every tent-dweller by the persistence with which its burrs cling to his shirt and towel.

Much could be done to improve the appearance of the district if the Canal Department would plant the banks of its channels, and if the District Board would attempt a less ambitious programme

<sup>\*</sup> For the uses of the tree and grasses of the district Fanshawe's Bettlement Report, paragraphs 70 and 71, may be compared.

CHAP.I.A than it has done in the past and concentrate its energies on fewer Physical roads. The Queen's Gardens or Kampani Bagh in Rohtak are Aspects. charmingly laid out and contain a great variety of trees. On the road to Singhpura are a number of coral trees (erythrina arborescons).

Fauna.

11. The district is well known for its large herds of antelope (blackbuck-hiran) and gazelle (chikara), the latter being found chiefly to the south and the former to the north. As no Hindu in Rohtak will kill them and gun licenses are rare, the herds in some parts are very numerous, and fine heads are procurable. The Jat's attitude to them is that God made them ton; when He gives good crops, there is enough for all and when famine comes they too have to go lungry. Nevertheless so destructive are they to the crops that he is often glad to see them shot, and never interferes with the sportsman. Hares, foxes and jackals are very common and wild cats not rare. Pig used to be found and are still occasionally seen, and the swine of the village must be closely related to the wild species. Welves are still not infrequent. Nilgai used to be common, especially in the Chuchakwas Birh and Matanhel jungle, but in the famine of 1900 they disappeared. During five years I have only seen two solitary specimens at opposite extremities of the district. Scorpious are not very common but snakes are numerous. Of the poisonous varieties the cobra, karait, and echie carinata are all common. Besides the common lizards, big and small, chameleous are pleutiful and the varanus or biscobra, of which the people stand in terror, is also found.

The banks of the canal and the canal villages, and even some rain-land villages, are overrun by monkeys, which are great posts. They rifle the sugarane fields whenever they get a chance; prevent young trees from growing, and often threaten women and children carrying food to the fields; the people, however, are unwilling, on religious grounds, to kill them, though they are very willing to see them killed, and will often ask an Englishman to shoot a few as a warning to the rest. The fame of the mosquitoes of the once naturally flooded villages is recorded in the following lines:—

" Machchhar ka yhar Dadri, Naurangpar thana;

" Sath yaon jagir ke Sundha, Sundhi, Fattehpur, Yakuhpur, Nimana;

" Thori thori Balli, aur sari Ukhalchana."

The mosquitoes of Gohana are said not to bite; this may be true as regards natives of the country; they certainly bite Europeans.

Blid life.

12. Of game birds, the black partridge, snipe, jack snipe, duck, geese, teal, and cranes are common in suitable localities. The grey partridge, common sandgrouse and quail may be found all over the district, though quail are nowhere plentiful. The imporial

Physical

sand grouse is not uncommon and bustard are said to be occasion- CHAP. I, A. ally found. Peafowl run wild everywhere, but the people, even the Muhammadan Rájpúts, object to their being shot. The people believe that when the peacock dancing in his pride catches sight of his ungainly legs he sheds tears of mortification. The sympathetic hens come to drink his tears, and from this draught come the eggs she lays. Birds of all kinds are extraordinarily common in the district, and many of them are of singularly brilliant plumage. The Jat hardly knows one from another, but he often hangs a pot of water outside his house for them and he will fill the scoop at the rim of the well with water before he ceases work for the night in case any animal should come to quench its thirst and find no water there.

The following is a list of birds collected by the writer and Mr. Marshall, Superintendent of Police, during the years 1909-10. It is by no means exhaustive, many others having been seen, and some shot; but these are excluded as up to date they have not been actually measured and compared. The classification followed is that of Oates and Blandford.

<sup>\*</sup> A houbara was shot near Robiak in December 1910.

10

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T	9

le. Orde	NT. B	lub-Order.	Family.		Sub-Famil	5.	Gonus.		Species.		Popular Name.	-
	Nil	.14	Corvida	2 ** *	Corvina		Corvus	014	Corax	***	The Raven,	
		b 4 9	80	w+4	77	140	79	e e s	Spienders	,	The Indian-House Orow.	0
		P4 o	,	0+9	:9	+41	Dendrocitta	10.	Rufa	•••	The Indian Tree Pie.	
		9.84	Crateropodie	lae	Crateropodin	Lac	Argya		Catulata	* * *	The Common Babbler.	
5		***	0.5	100	1)	400	Cruteropus	. 4 0	Canorus		The Jungle Babbler.	1
		4 64	12	464	Timilinæ	P + P	Pyctorhis		Siscenia	. * *	The Yollow-syed Babbler.	
		• • •	99	à 5 0	Brachyptery	gion	Myiophoneus	010	Temminaki		The Himalayan Whistling Thrush,	
	j	4 6 4	11	4 = >	Sihinæ		Zusterops	4 0 4	Simplex	444	Swinhoe's White eye.	
		454	39		Liotrichine	***	Ægithina	4 0" 0	Nigrilutea	V 1 V	Merebell's Iora.	
10		+++	in .		Brachypodin	eller.	Molpastes	* + 10	Hæmorrhous		The Madras Red-vented Bulbul.	
		443	10		13	++4	91		Lencotia		The White-eared Bulbul.	
Passeres	{	0 0 0	Dieruridæ	101	Nil		Dicruras	* * *	Ater	***	The King Crow or Black Drongo.	_

Ī	900	Sylviidæ	0 0 0	- FT	4 * *	Acrocephalus	. !	Stentoreus	The Indian Great Reed Warbler.
	194	,,	***	13	404	Orthotomus		Brevisostria	The Indian Tailor Bird.
1.5	460	1,	844	н	491	Franklinia		Buchapani	The Rufous-fronted Wren Warbler.
	***	13	9.07	,,	100	Sylvia		Jerdoni	The Eastern Orphean Warbler.
			+ 4 +	7.	4 1 P	y1 ***		Affinis	The Losser Indian White-throated Babbler.
	•••	>)	b o 4	**	4.00	Prinia		Socialia	The Asby Wren Warbler.
	***	Laniidas		Lanlina	* 0 f	Lanius		Lahtera	The Indian Gray Shrike.
20	401	28		Nec	·	69	.	Victatus	The Bay-backed Shrike.
		þr	3.6	:1	100	,,		Erythronotus	The Rufons-backed Shrike.
	100	to to	*10	p	• ): •	.,,	.	Isabellinus	The Pale-brown Shrike.
	,	11		.,	***	Tephrodornis	.	Pondicerianus	The Common Wood Shrike,
	•••	12	4 4 1	13	P 1:4	Peri rocctus		Brevirostria	The Short-billed Minivet.
25		29	* > *	31	14+	29	**	Peregrinus	The Small Minivet.
	***	Or olidae	6.1	13	* **	Oriolas		Kundoo	The Indian Oriole.
	· · · · · · · · · · · · · · · · · · ·	19		,,,		41 11		Melanocephalus	The Indian Black-headed Oriole,

6		3
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											A spects.	Physical
No.	Order,	Sub-Order.	Family.		Sab-Fami	ly.	Genus.		Species.		Popular Name.	
			Starsida		Nil		Pastor		Resens	171	The Rose-coloured Starling.	
6	li	6 a 4	21			•••	Scarnus		Menzhieri	*10	The Common Indian Starling.	
30						4 1 1	Temomuchus	141	Pagodarum		The Black-headed or Brahmany Myna.	
		• • •	*	4 +	w	***	Acridotheres		Tristis	4	The Common Myns.	
			100	t to	11		1.	• • •	Ginianua		The Bank Myns.	
		144		. = 1		6.01	Sturnopastor .	) 4 )	Contra		The Pied Myna.	
1	a constant	•••	Mu-cleapide	141	22	***	Spria		Parva	* 9 4	The European Red-breusted Fly-catcher,†	
35		4 10 4				b 4 1	Coheienpm	v 1 q	Ceylouensis		The Gray-handed Fly-catcher,	
		1.00	3*		-at		Rhipidma	,	Albifrontata	-11	The White-browed Fantail Fly-catcher.	
		9.66	Turdidae		Saxicolina	***	Pratiscola	(14	Unprais		The Common Pie I Chat,	
		•••	11		11	1 *			Maura	6 4 b	The Indian Bush Chat,	
	Passeres	***	P.4		19	919	Saxicola		Picata	6 6 1	The Pied Chat,	

40 1	<b>4</b> 0 b	10-	444	**				Capistrata	4 + 6	The White-headed Chet.
	***	n	• • •	: :	100	4.5	0+0	Descrti	***	The Desert Chat.
	9.69	10		fa	Ø91	Cercomela		Fusca	***	The Brown Bock Chat,
	***	37	***	Ruticillinse	414	Ruticilla	101	Rufiventris		The Indian Redstart,
	**	**	***	.,	***	Themuobin	***	Cambaiensis	* 1 4	The Brown-backed Indian Robin,
45	141	74	***	19	444	Copsychus		Saularie	***	The Magpie Robin,
	***	19		Turdinæ	414	Geociehia	111	Citrina	444	The Orange-headed Ground Thrush.
	49.6	Ploceidæ	**1	Ploceina	4 4 4	Ploceus	8 8 9	Ваув	* + +	The Baya.
	P9 #	39		Viduinæ	***	Sporagiuthus		Amandava	4+0	The Indian Red Munnia, the Lal.
	286	Fringillida	484	Fringilline		Gymporhis	4 = 6	Flavicollis	1 0 9	The Yellow-throated Sparrow.
50	810	31		51		Рвянег		Domesticus	1 + 9	The Honse Sparrow.
	440	Hirundinidæ	104	Nel	• • •	Ptyonoprogue		Concolor	***	The Dusky Crag Martin.
	***	•4		H	415	Hirundo	***	Smithii	***	The Wire-tailed Swallow.
		**	**	<b>83</b>	5 10 1	by .	441	Brythtopygi	٠	Sykes' Strinted Swallow.

† Only f shot, which is indistinguishable from f of S. Albicilla, the Eastern Red-breasted Flycatcher.

14

No.	Ordar,	Sub-Order		Family.		Sub-J'amily.		Genus,	Species,	Popular Name,
	ſ	. +4		Moracilidæ		Nil	110	Motacilla	Alba	The White Waglail,
<b>5</b> 5			1	17	***	21	6	33 ***	Maderaspateusis	The Large Pied Wagtail.
1		-1		11		- 31			Borealis	The Grey-headed Wagnail.
			1	1>	e 1 4	16	+	1)	Citreola	The Yellow-headed Wagtail.
		***		15	111	41	411	Anthus	Striolatus	Blyth's Pipit
		**		11	4 6 4	10	141	15	Rufutus	The Indian Pipit.
60	Passeres	*41		Alaudidae		>9	= 0 b	Melanocorypha	Bimaculata	The Eastern Calandra Lark,
				<b>*</b> **	4 t h	31	414	Alauda	Gulgula	The Indian Sky Lark.
				.,	4.0	81		Calandrella	Brachydaetyla	The Short roed Lark.
				**		10		28 444	Tibetana	Brook's Short-toed Lark.
		***		. 19	4 5 1	in .	94 9	Mirafra	Erythroptera	The Redwinged Bush Lark.
66				33	1 1 0	13	4 0 1	Pyrrhulauda	Grinea	The Ashy-crowned Finch Lark.
	1	1 0 0		Necturioidae	4 = +	Nectariniina		Arachuechthra	Asiatica	The Purple Sun-bird,
	1	Nil		Picidæ	0 D 1	Piging	***	Liopicus	Mahrattonsis	The Yellow-fronted Pied Woodpecker.
	Pici {	21	4.4.1	9.1	9 1 9	1 >		Brachypternus	Agrantins	The guiden-backed Woodpecker.
		n	***	39	211	Iyngina	070	Iyax	Torquilla	The Common Wryneck.
70	Zygodactyli	Nil	***	Capitonidas	* 4 *	Nil		Xantholæma	Bæmatocepbala	The Crimson-breasted Barbett or Coppersmith
	Anisodactyli	Coracia	***	Coraciidæ	6-8-6	20	***	Coracias	Indica	The Nilkanth or Indian Roller. The Commo

	1	Meropes	+ 9 4	Meropidas	+ 4 1	''	842	Merops	a 0 b	Viridia	*4*	The Common Indian Bee-cater.
		19	+++	10	. 0 1	97		999		Persicus		The Blue-obested Bee eater.
		Halcyonce	940	Alcedinidæ	***	15		Ceryle	444	Varia	9 1 2	The Indian Pied Kingfisher.
75	Anieodactyli	39	9.6.6	3)	***	30		Alcedo	174	Ispida	84+	The Common Kingfisher,
		50		>0	***	27	460	Haleyon	414	Smyrnensis	***	The White-bregated Kingfisher.
	l i	Bucerotes	4 = 4	Bucerotidae	4 4 4	95	019	Lophoceros		Birostria	0.4.0	The Common Gray Hornbill,
		Upapæ	b 15 \$	Up apidæ		>3		Upupa	0 Y P	Ероря	a + *	The European Hoopoo.
	[	Oypseli	404	Cypaelidæ	44+	Oypeslinæ	4 = 4	Сурвения	* 8 *	Affinis	1 1 9	The Common Indian Swift.
80	Macrochires	Caprimulgi	1 9 1	Caprimulgid	80	Nil	490	Caprimulgua		Asiaticus	4 4 9	The Common Indian Nightjar.
		. 81	444	*	100	w	*4 *	44	*4*	Indiens	* * *	The Jungle Nightjar.
		Nil	- 4 5	Cuculida	541	Cuculinae	010	Hierococcyx		Varius	4.5	The Common Hawk Cuckoo. The Brain-fever
	Consession	1.5	0 4 h	11	4 6 4	33	+ 0 4	Coocystes	6.4	Jacobinus	* * *	Bird. The Pied Crested Onckoo.
	Coocyges	0.5	4 6 0	71		Phonicopha	agai	Eudypamis	0 0 0	Honorata	+41	The Koel,
85		. 93		3.5	***	21	719	Centropus	p + 0	Sicensia	8.4.5	The Concal or Crow Pheasant,
	Weisenst (	Nil	016	Paittacidae		Nil		Palæornis	6 + 4	Torquetus	4 + 4	The Rose-winged Parroquet.
	Paittaci {	12	9.0.0	29		34		2.0	1	Cyanocephali	08	The Western Blossom-headed Parroquet.
	Í	NI		Strigidæ	044	Nil	0.0 *	Strix	107	Flammea	e = e	The Baru or Screech Owl.
		11	4.8%	Asionida	0=0	Asionina		Asio	000	Accipitrinus	1 * 4	The Short-eared Owl.
90	Striges			3)	4	1)	4.6.6	Syrniom	101	Ocellatum		The Mottled Wood Owl.
				11	444	Bubonina	917	Ketupa	900	Zeylonensis	b e b	The Brown Fish Owl,
	, 70	97	- 6 +	29	454	91	400	Babe	117	Bengalensia	4 0 4	The Book-horned Owl.

							*				4	Physical Aspects.
No.	Order.	Sub-C	Order,	Family		Sab Famil	ly.	Genus.		Species.		Popular Name.
	5	Nil	4 6 6	N.2	494	29	110	Scops	1+4	Bakkamæns	146	The Collared Scops Owl.
	Ì	19	6.6 )	: *		4.0	***	Athene		Brams	4 . 4	The Spotted Owlet.
95	(	27	wsb	Vulturidæ.	4 9 *	Nil	,	Vultur	1 + 4	Monachus	* 1:2	The Cinercous Vulture.
		26	+ # P	**	111	19	979	Otogypu	1-0-1	Calvus		The Black or Pondicherry Vulture,
		11	b = 0	PI	4 6 4	23	9 7 7	Pseudogypa	* 6.1	Bengal-nsis		The Indian White-bucked Vulture.
		44	0.0 0	g4		21	6 4	Neophron	918	Percnopterus	.,,	The Egyptian Valture or Large White Scaveng
100		39	919	Falconida	441	Falconing	201	Aquila		Bifasciata	117	The Steppe Eagle.
		99	* +9	11	***	33	***	39		Viodblana	) · · ·	The Indian Tawny Eagle.
		43		17	e4 b	15	e > a	0.5	**1	Hastata	1 = 4	The Small Indian Spotted Eagle,
		31	400	11	p a 1	10	4++	Circetus		Galliens	1.1	The Short-toed or Serpent Eagle,
	j	9.8	0 1 4	3:1	1.	15	4.0 %	Butastor	6 + 6	Тсезя	10.	The White-eyed Buzzard Engle
		34	64.0	19	* * *	\$1	491	Halisator		Indus		The Brahmany Kite,
OS A	Accipitres	11	164	32		78	-   1	Milyna	d v	Govinoa		The Common Pariah Kite.
		13	109	97	***	33	600	Elanos	6 d 8	Cæroleos	**	The Black-winged Kite,
		19		27	e+1	2.5	015	Circus	195	Macruros		The Pale Harrier
		19	4 6 4		4 6 0		a + b	10 *17	+4 6	Alruginusus		The Marab-Harrier,
		13	<b>*81</b>	1-9	0 0 0		n si p	Butso	1 a b	Perox		The Long-legged Buzzard.

110	1	( ,,	4 = 0	, ,,		1 4		Astur		Badina	The Shikra,
		9.1		23	• • •	**	6 B B	Pernis	9 = 4	Cristatus	The Crested Heavy Buzzard.
		1.0	+ + 4	19%		P3	*10	Falco	9 + 4	Jugger	The Lagger Falcon,
				17		11	4.40	31	4 6 6	Cherrug	The Saker or Cherrug Falcon.
		91		4.5	* * *	**		Assalon		Chicquera	The Turunti or Rel-headed Merlin.
115		17	4 9 1	. 9	04+	> >>		Tinnanculus		Alaudarius	The Kestrel or Windhover.
	(	NU		Colombida	917	Treacainme	4 4 4	Crocopus	***	Phoenicupterns .	The Pengal Green Pigeon.
	1	1,	4 . 9	13	1 9 4	Culambing		Columba		Intermedia	The Indian Elun-rock Pigeon.
	Columbia {	13		e <u>f</u>	0 * *	* *		Tustar		Cambayenas	The Little Brown Dove-
			4 - 1	11	***	D	• • •	,,	411	Risprias	The Indian Ring Dave.
120		Tp.		12	101	18	4 6 4	Qenopopulia	***	Tranquebarica	The Rud Turtle Dove.
		Nil	4+4	Pteroclida	***	Not	-10	Pteroclas	101	Armarins	The Black-bellied Sandgrouse.
	Pterocletes	**		10		**	***	Pterocleras	971	Exustus	Tre Common Sandgrouse.
	ŕ	Alectoropode	·	Phusiani.la		Nit	0.0	Pavo	8 4 +	Cristatus	The Common Peafowl.
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	a 6 8			1		Coturnia	*11	Communis	The Common or Gray Quail.
125	Galline			#12	440	35		Francelinus		Volgaris	The Black Parisings or Common Francolin.
		33	6.4	.,		-1		19		Pondicerianus .	The Gray Parteidga,
		Fullearin	170	W 117		Nat		Porzana	4 0 1	Pusilla	The Eastern Bailon's Crake,
			***	i ne	5.9.1	11	P+3	Gallinula		Chloropus	Tre Moorhen,
	1	70	4.6	9"		11	* * *	Falica	***	Atra	The Coot.
130	Graliz	Grues	117	Genide	441	11		Grus	h + 0	Communis	The Common Crane.

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No.	Order.	Sub Or	đer.	Family		Sub-Famil	y.	Genus.		Species.		Popular Name.	
			194	71		75	191	32	401	Antigone	0 † P	The Sarus.	
		39	101	11	***	L <sup>2</sup>	484	Anthropoide	l	Virgo	0.01	The Demoiselle Crane,	
		Otides	***	Olididae	***		***	Houbara	0.14	Macqueeni	§ = 0	The Houbara,	
I OF		Nil	440	Œdicuemid	ю	NI	***	Oedicsemus	740	Scolopaz	101	The Stone Carlew.	
135		21	***	Glareolidæ	164	Cursoriinæ	404	Cursorius	001	Coromandeli	cua	The Indian Courser.	
		19		91	+ 4 4	19	0 + 5	21	010	G alliens	6-4-1	The Cream-coloured Courser.	
		23		Charadriid	æ	Charadrica	484	Sarcogramm	18	Indicas	916	The Red-wattled Lapwing.	6
		12		p1	9 + 8	>>		Saraiophorus	9 = 6	Malabaricus		The Yellow-wattled Lapwing.	
		*	4 6 4	99	***	19	64+	Vanellus	101	Vulgaria	444	The Lapwing or Peewit.	
140		n	5.6.1	**	191	11	401	Chettusia	* 1 4	Gregaria	* 9 9	The Sociable Lapwing,	
		. ,,	0 1 G	11	700	19	191	11		Leucara	910	The White-tailed Lapwing.	
		n		0.0	***	91	486	Ægialitis	b + 0	Alexaodrina	619	The Kentish Plover.	
	Limicolæ '-	39		T.	0 ± d	Hæmatopod	inæ	Himantopus	* 8.4	Candidas	4++	The Black-winged Stilt.	
	LAIMCORE		***	24	140	Totaninæ	d 9 b	Limosa	141	Belgica	911	The Black-tailed Godwit.	
145		21	4 d q	19	607	. 11	0 = 4	Totanus	400	<b>Hypoleucus</b>	* 6 1	The Common Saudpiper.	
		19	0 = +	21.7	0 0 1	>>		53	194	Glareola	5 1 0	The Wood Sandpiper,	
		21	***	P.9	4 6 0	19	000	19		Ochropus	4 4 0	The Green Sandpiper.	
		,,	773	13	***	139	***	,,,	400	Calidris	0 6 4	The Red-Shank	

	Ī I	1 *>	a b 4	p>	440	12	q = 0	29	414	Glottis		The Green Shank.
150		>>	4 2 4	l p	* * 6	91	***	Tringa	* * *	Temmincki	4 # 1	The White-tailed or Temminck's Stint.
		. 21	***	39	9 d p	Scolopacinæ	* *	Gallinago	444	Collectis	044	The Common Snipe.
	- (	72	***	9.0	101	28	000	13	***	Gallinula	2 + 4	The Jack Snipe.
		Not	4 P H	Laridae	p + 5	Lurinae	471	Larus	4 0 0	Cachinana	801	The Yellow-legged Herring Gull.
	Gavite }	32	141	91	***	Sterning	040	Sterna	910	Seens	8 0 6	The Indian River Stern.
155		1†	*4*	11	016	3 9	400	>9		Melanogaste	r	The Black-billed Stern.
	1	Nil		Pelecanidæ	6.4.6	Nil	191	Pelecanus	014	Crispus	619	The Dalmatian Pelican.
	Steganopodes	11		Phalacrocore	cide	Phalagrocorac	ince	Phalacrocor	4X	Carbo	414	The Large Cormorant.
		35	844		444	Plotinæ	4++	Plotus	***	Melanogaster	4.04	The Indian Darter of Snake-bird.
	ſ	Platales	***	[hididæ	9 + 4	Nil	***	Ibis	644	Melanocepha	la	The White Ibis.
		E.b.	100	38	4 5 9	P#	847	Incentie	4 8 4	Papilleaus	714	The Black Ibis,
160		:	473	Plataleida		1,7	4 9 9	Platalea	914	Leacordia	101	The Spoonbil!
		Ciconise		Ciconiida		11	* + 5	Ciconia	901	Alba	***	The White Stork.
		19	4 4 8	<b>&gt;</b>	0.00		+++	Dissura		Episcopus		The White-necked Stork.
İ	Herodiones {	17	b + 4	97		14	+ P 4	Xonorhyoch	цэ	Asiaticus	6 6 9	The Black-recked Stork.
		82	6.9.6		909	27	4 5 4	Pseudotanta	lus	Lencocephali	18	The Painted Stork,
165	1	Ardete		Ardeidæ	4.00	þ.s.		Ardea	900	Cinerea.	* * *	The Common Heron.
		33	***	13	v _0	21		Ardeola	4 6 4	Grayi	400	The Pond Heron.
		15	0 0 4	51	4 P *	11	111	Botanrus	9 9 4	Stellaris		The Bittern.
	Phonicopteri	N.	9 6-9	Phonicopte	ridæ	<b>&gt;</b> 1	601	Phœnicopte	rus	Rosens	4+4	The Common Flamingo.

			· · · · · ·		gapen and designed	1							CHAP. I, A. Physical Aspects
No.	Order.	Sub	-Urder.	Family	7.	Sub-Fam	ily.	Genus.		Species		Popular Name.	
				-		, establishmentary or the time of		*	-		-		
7	-	ta	4 * *	Anstelæ	h > 0	Anserina	244	Anter		Ferns	*15	The Grey Log Gorse.	
:	1	p.	***	٠,		<b>&gt;</b> †	* 0.4	1+		Indicus	117	The Barred hearled Guove.	
		**	. ( )	**	. = 1	Anativæ	***	Cusarea	4 9 4	Rutila		The Ruddy She drake or Brahmany.	
		*1	••-	19		**		Anas	a b +	Boscas		The Mallard.	
175	1	l p		27	6 + 0	- 1	4 Þ 4	11	<b>a</b> + o	Pacilorhypo	hu	The Spotted-billed Duck.	
1	1	9.0		**	010	r.	4 p 1	Chaplelasmus	8	Streparus	** 1	The Gadwa'l Duck	
i	Anseres	5-1	***	18-	***	1.9		Nettium	4 1 1	Огеста	*1 *	The Common Teal,	
	Anscres	11	* * *	11	100	. >	4	Mareca	- 4 *	Penelope		The Wigeon,	
		>>	4++	3+	999	37	4 = 4	Dafila	p 1 •	Acuta		The Pintail.	
		p>	4	12	4 5.4	,,	***	Querquedula	401	Circia	* + *	The Corgany or Blue-winged Teal,	
180		19	+=1	ÞF	4 6 4	**	* 9 1	Spanula		Clypenta	* 4 *	The Shoveller.	
		69			161	21	d 6 4	Norta		Righa		The Bed-created Pochard,	
ĺ		31	***	12	944	Pá	192	Nyroca	bd o	Forina	444	The Pochard or Dun-bird,	
	1	13	•••	ч	401	1)	***	20		Ferruginez	0+0	The White-eyed Duck.	
184	PygopoJes	Mil	494	Podicipedi	idæ	Nil		Podicipes	b-4 a	Albipennis	•••	The Indian Little Grabe or Dabchick.	