

ELEVENTH EDITION 1918.

1A
THE
TOURIST'S GUIDE
TO
KASHMIR, LADAKH,
KHARDO, &c.

Rs. 2/8/-

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PREFACE TO THE ELEVENTH EDITION, 1918.

I AM revising this from a War Hospital.

The greatest war of the World's History is in progress. The Kashmir Imperial Service Troops are fighting and have well earned mention in despatches and many honors in East Central Africa. The Indian army has won fame in Flanders, as well as Gallipoli, Egypt and Mesopotamia. The princes and peoples of India have claimed their share in the defence of the Empire, and are thus helping to weld it together. In this loyal service the Maharaja of Kashmir and Jammu has played a generous and conspicuous part.

In this edition I have followed the general arrangement of the former ones, and, while correcting any mistakes of which I had become aware, I have added some new information, and have endeavoured to bring it all up-to-date.

Motors have become more and more used every year for the journey to and from Kashmir.

Visitors should obtain reliable information as to the real current prices, and resist the constant attempts at imposition.

No definite opinion can yet be expressed as to the value of the great electric power which has been successfully developed at Mohora, for, owing to political conditions, its commercial value appears limited. But it is being used at Srinagar for lighting, etc. The dredging is in full swing from Baramulla to the Wular and appears to be successful.

Among the books on Kashmir special attention must be drawn to the very handsome volume entitled *Kashmir*, with interesting letterpress by Sir Francis Younghusband, Resident in Kashmir, and exceedingly beautiful coloured illustrations by the late Lieutenant-Colonel Molyneux, R.H.A. A well illustrated volume by Dr. E. F. Neve "Beyond the Pir Panjal," published in 1912, can now be obtained in a popular edition at 2s. 6d. It describes the general features of the country, and gives interesting accounts of climbing and mountain tours as well as of medical mission work. The work of revision has been kindly carried out by Dr. Somerton Clark.

A. NEVE.

INTRODUCTION.

THIS little book does not profess to describe the country but only to guide travellers to those portions best worth seeing. The books below mentioned will give information about the country which it is beyond our scope to supply. This book was the first attempt towards guiding travellers out of the beaten tracks ; and laboured under the disadvantages incidental to the attempt to compile trustworthy routes out of the vague and poetical description of books of travel, or from mere hearsay information. Many of the less known routes have been traversed by the author, and others have been tested by enquiry from more than one traveller, so that the inaccuracies should be unimportant.

RULES FOR VISITORS.

These have been elaborated of recent years, and every traveller should possess a copy, which may be obtained, price eight annas.

The chief rules relate to the following subjects :—

1. Permits to travel or reside.
2. Limits of travel.
3. The prescribed routes between the Punjab and Kashmir.
4. Special rules for Srinagar, the obtaining of servants, sites for camping, milk supply, and firewood.
5. Rules for house-boats, dungas and extra boatmen rates, sanitation, &c.
6. Gulmarg rules.
7. Transport arrangements.
N.B.—These are arbitrary and inefficient.
8. Game and fisheries regulations.

Some further details regarding the principal rules will be found at page 174.

When in doubt, the Motamid-i-Darbar, should be consulted.

MAPS.

If travelling out of beaten tracks, no one should be unprovided with good maps.

The TRIGONOMETRICAL SURVEY SHEETS, scale 2 miles or 4 miles to the inch, are the only good ones.

ATLAS OF INDIA.—Sheets, scale 4 miles to the inch unmounted, Rs. 2 per sheet ; mounted on linen and folded book form, Rs. 4.

28. Kashmir, Abbottabad, Murree, Punch, Pir Panjal, Sind Valley, &c.

44A. N.-W. Baltistan or Little Tibet.

S.-W. " " "

S.-E. Karakorum.

45. N.-W. Baltistan.

N.-F. Ladakh, Nubra.

S.-W. Suru.

S.-E. Leh.

63A. Eastern Ladakh and Upper Indus.

There are other sheets of surrounding countries ; the trans-frontier ones being on a smaller scale.

But the author strongly recommends the new survey map on the scale of 4 miles to the inch in colours and with contours and 1 mile to the inch from the Survey of India Office (Map of Record and Issue Branch, Calcutta) Price Re. 1-2-0, coloured. No. 43 J.-16 contains Srinagar District Standard Sheet.

The outline sketches in this book merely illustrate the routes described. The author will be indebted to any one who will inform him of mistakes, and alterations requiring to be made, or who will supply itineraries for other routes.

BOOKS.

A new edition of the Imperial Gazetteer of India will contain much reliable information about Kashmir.

Books of travel are numerous, while there are some subjects about which nothing has yet been written.

Most of the following books will be found in the Public Library at Srinagar. While only mentioning some of the principal works, we describe also their scope. No full account of modern history has yet been compiled. Much can be gleaned from various books. Of these, the most important, in many ways, is Drew's *Kashmir and Jammoo Territories*. It is a systematic work on the geography, ethnography, &c., of the whole region, most of it derived from his own personal knowledge. An abridged edition, called the *North-West Frontier of India*, has been published.

The best general description of the people and social condition is by Sir Walter R. Lawrence, K.C.I.E., entitled *The Valley of Kashmir*. This gives many original facts about the people of Kashmir and the land settlement, and is a generally reliable compilation of the statistics, history, geology, flora and fauna of the Valley proper.

General descriptions of the Valley proper may be found in guide books such as Ince's which was re-written a few years ago by Col. Joshua Duke, I.M.S., and of which there is a new edition. Among the older books are the *Travels of Bernier, Vigne, Hugel, Jacquemont* and *Moorcroft*. Vigne knew the Valley intimately, and also visited Astor and Skardo, but his book is badly arranged and discursive.

Recent books by Doughty, Pirie, Huntington and others may be seen in the Club Library.

An older book, *Hyderabad, Kashmir, Sikkim, and Nepal*, by Sir R. Temple, has good coloured illustrations of Kashmir.

Hugel and Jacquemont were travellers of scientific tendencies. Moorcroft is one of the best authorities on Ladakh, but also saw a good deal of the Valley. The *Official Gazetteer* is a valuable book, but is treated needlessly as confidential by the Government, and still contains much that is out of date.

A book by the author, entitled *Picturesque Kashmir*, illustrated by numerous full-plate reproductions of Mr. Geoffroy W. Millais' beautiful photos, is temporarily out of print, but may be seen in the Public Library.

The work published by Sir Aurel Stein, entitled *Kashmir's Rajatarangini*, may well be called monumental, and will be of great interest to all who are interested in the ancient history or archæology of Kashmir.

Elmslie's *Kashmir English Dictionary* gives a good deal of useful information, in addition to its linguistic value. So also does Knowles' *Dictionary of Kashmir Proverbs*. The language is rich in proverbs which throw considerable light on the customs as well as the dialects of the country.

Rev. Grahame Bailey has written a small book on the Hill Dialects round Kashmir.

Rev. J. Hinton Knowles, B.D., has published a volume of *Kashmiri Folk Stories* and the *Old Testament* in Kashmiri.

INTRODUCTION.

The *New Testament* was translated into Kashmiri by the late Rev. T. R. Wade, B. D., a former Missionary in the Valley, who also compiled the first grammar of the language, on which Mr. Grierson has recently published a book.

The archæology of Kashmir has been investigated by several. Cole's *Ancient Buildings in Kashmir* is a well illustrated standard work. Cunningham wrote on the coins and temples, and Cowie supplemented the latter (*Journal, Asiatic Society*).

Burrard and Hayden's *Geography and Geology of the Himalayas and Tibet* is of great importance and interest.

In the *Geological Survey Reports*, by Blandford, is an account of the Geology, also by Dr. Lyeker in the same reports. Middlemiss has done important work since—*vide* Geological Reports, 1911. For the Botany, Boyle's *Himalayan Botany* gives reliable information which is fairly complete, and Noel's Illustrations of Kashmir Flowers are good.

Turning to Jummoo and the outer hills, Drew is the only authority. For Astor also Drew is good, and Vigne visited it before it was absorbed by Kashmir. Gilgit has been described by Leitner in his work on *Dardistan*, and Drew, who governed it for a short period. Colonel Biddulph, formerly of the Gilgit Agency, published a concise work on the *Tribes of the Hindu Kush*, now rather out of date.

Dr. Thompson's *Travels in N.-W. Himalayas and Tibet* described Skardo and Shayok, for which also compare Vigne and Drew, while Thompson, Vigne, Moorcroft, Cunningham, Bellew (Kashmir and Kashgar), Torrens, Cowley, Lambert, Mrs. Bridges and Drew have all written about Ladakh. The intermediate regions of Zaskar and Suru have been seldom visited except by sportsmen. An interesting, but not quite reliable, account of a journey through the country may be found in the *Abode of Snow*, by Wilson.

Books on *Climbing* include those by Sir M. Conway, Dr. Collie and Mr. Eckenstein, Mrs. Bullock Workman and Dr. Hunter Workman's recent book *Nun Kun* is of special interest to climbers.

The Yarkand routes have been repeatedly described by travellers, especially Shaw in *High Tartary*; Gordon in *Roof of the World*, Bellew *op cit*; Hayward and Johnson in the *Royal Geographical Society Transactions*. Finally, books on sporting must be mentioned; Colonel Ward's *Sportsmen's Guide* is a useful and accurate little book; Col. Kinloch's book, *Large Game Shooting in the Hamalayas*, is well got up and beautifully illustrated.

Knight wrote an interesting book on his travels in Kashmir, Ladakh, and Hunza, entitled *Where Three Empires Meet*. Lord Curzon published an account of his journey to the Pamirs; Sir Geo. Robertson wrote a book on Kafiristan and another on the siege of Chitral, and in connection with the frontier question several books have been published.

Colonel Durand's *Making of a Frontier* deserves special mention.

THE MAHARAJA'S DOMINIONS.

Kashmir is but one Province of the extensive dominions of Maharaja Partab Singh, the approximate area of which is 68,000 square miles.

The last Census shows that there are nearly 3 million inhabitants—a number a million in excess of the estimate made in 1873 A.D. Of this total more than half are Muhammadans, who in the Province of Kashmir, are in an overwhelming majority.

The population consist of races varying most widely in their characteristics ; the warlike and independent Sikh merge into the Dogra of Jummoo, and these again into the hillmen of the southern districts.

But crossing the Snowy Pir Panjal Range we come to a race—the Kashmiris—remarkable for the possession of a fine physique, but little manliness ; a quick intelligence, but few moral qualities.

To the north of this, again, we have races of Mongolian type—squat, sturdy, and simple—occupying Ladakh, and gradually blending down the Indus Valley with the Dard and Galcha peoples of Astor and Hunza.

The division of these territories into three great groups is due to the position of the mountain ranges ; and it is a division which embraces, in a general way, the religions and languages of the people, as well as the climate and natural products of the country.

ADMINISTRATION.

The Kashmir State is ruled by His Highness the Maharaja Sir Partab Singh, G.C.S.I., Major-General, who is grandson of Gulab Singh, by whom the State was acquired. His Highness is assisted by Ministers of State, of whom two are appointed by the Indian Government. The British Resident is in close touch with the Darbar. In winter he lives at Sialkot or Jummoo, and in summer at Srinagar or Gulmarg. Colonel Bannerman is the present Resident. There are three Assistant Residents, one of whom is Joint Commissioner of Ladakh ; another is in charge of the office.

The Settlement, Public Works, Accounts, Medical, Police, and Forest Departments each have British officials in charge under the Darbar. These usually reside in Srinagar. There are also Postal and Telegraph Superintendents who are Imperial officials. In connection with the Imperial Service Troops one or two British officers are appointed.

NATURAL PRODUCTS.

Among the wild animals, most noteworthy are the bear, leopard, stag (*bara singha*), ibex, and *markhor*. Game is getting scarce, but bears are still numerous in some parts.

Foxes and monkeys are plentiful in some districts. Flies, mosquitoes, and parasitic insects are almost a speciality. Bees are kept by the peasants, and the State is paying much attention to the culture of silkworms.

Among the chief trees are cedars, pines and spruces in the mountain forests; planes (*chenar*), poplars and willows in the Valley; while fruit trees—apple, pear, quince, peach, mulberry, walnut, &c.—abound.

Rice, wheat, barley and maize are the staple grains; millet is also grown. Vegetables, such as pumpkins, cucumbers, turnips, radishes and cabbages, are abundant; all English vegetables can be easily grown. From the lakes the people obtain water-nut (*singhara*) and lotus roots (*nadru*).

Few Kashmiri products are of very good quality and so, too, are few domestic animals of superior breed. Good wool is obtained from which cloth (*puttoo*) is manufactured; and the fine wool of the goat supplies *pashmina*, from which shawls are made. Among other industries may be mentioned leather-work, such as shoes and trunks, copper and silver engraving, paper and wine making, and lacquer work on *papier-mache*.

But carpet manufacture in which several English firms are engaged, now occupies a most important position.

The want of proper communication with the outer world has hindered the development of the commercial resources of the country, but, although railway surveys have been carried on for twenty years at great expense, nothing points to the actual undertaking of construction. Schemes are taken up and dropped.

HISTORY.

The earliest authentic records show Kashmir as a mere dependency of Indian kingdoms. For the ancient history see Chapter IX. In the beginning of our era, and again in the 14th century, it was held by Mongolian kings. At other periods it was held by Pathan kings, especially Mahmud of Ghazni in the 11th century, and the Dourani rulers, who succeeded to the spoils of the northern parts of the Moghul empire on its disruption in the 17th century. It was during the Moghul epoch that Kashmir attained its greatest fame.

Akbar, who conquered it in 1587, visited it frequently. Jehangir and his queen, the beautiful Nur Mahal, adorned the Valley with palaces and gardens, and they or their successors built massive *serais*, or rest-houses, along the chief routes to the Valley. At that time the Jhelum Valley route was little used.

The Sikhs conquered Kashmir in 1819, and held it till the death of Ranjit Singh.

Meanwhile the Raja of Jummo, Gulab Singh, was extending his conquests. Ladakh, Skardo, Gilgit and Astor were annexed. Partly with the view of detaching him from the Sikh power, then threatening our borders, he was secured by treaty in possession of the newly or conquered territory, and the Valley of Kashmir was also bestowed on him. He died during the Mutiny, when his troops assisted in the storming of Delhi. His son, Ranbir Singh, ruled till 1885, and was succeeded by the present Maharaja Partab Singh.

RECENT EVENTS.

The question of government had before this been under the consideration of the Imperial authorities; a British Resident was at once appointed, and certain changes initiated.

Recent years have witnessed many improvements: much is being done by the land settlement, by which the *status* of the cultivators has been already raised. Financial reforms are also doing much to prevent waste and misappropriation of public money, and to provide surpluses available for works of public utility, which were, till lately, conspicuous by their absence.

Military reforms have been initiated which have transformed the State army into a force which may be relied on to assist in frontier defence.

The conquest of Hunza completed the consolidation of the most northern portion of our frontier, and has put a stop to brigandage on the Karakorum trade routes.

At the close of 1895, Sir George Robertson held a great Darbar at Gilgit, at which Chiefs of all the surrounding tribes were present. This inaugurated a new era in that region. Valleys devastated by inter-tribal warfare are becoming fertile under the *Pax Britannica*; and the arts of civilisation thrive, without interference, by the sovereign power with the internal political autonomy of each tribe.

The outbreak in Chitral, the heroic defence of Chitral Fort by a handful of English officers and Native troops, the gallant march of Colonel Kelly's small force from Gilgit, and the rapid and successful advance of Sir Robert Lowe's Column through Swat, deserve special mention.

Since the work of the Pamir Boundary Commission was finished Kashmir territory joins that of Russia, as well as China.

In Kashmir itself there have been some noteworthy events.

The cholera of 1892 will long live in the memory of the people. It decimated the city of Srinagar, and spread most disastrously to the villages, in which over 6,000 deaths occurred. The increased facilities for communication with the Punjab will probably tend to introduce cholera more frequently in the future. The necessity for improved sanitation and a trustworthy water-supply has been recognised. Metalled roads with side drains have been constructed in some parts of the city, with benefit to the passengers and householders as well as to sanitation. But the habits of the people are as yet unchanged, and Augean stable is yet but little cleaned.

The WATER-WORKS were completed under the skilful direction of M. Nethersole, Esq., C.E., and an ample supply of pure water is now available for every part of the town as well as the European suburb. It was probably due to the good

water-supply that the cholera epidemics of 1900-1907 and 1914 got so little footing in the city.

In July 1893 there was an unprecedented flood, which swept away most of the bridges in the city, and damaged many houses, besides submerging miles of land and ruining the crops. This drew attention to the need of preventive works, but the matter was not taken adequately in hand till after an even higher flood in 1903 ; since which loftier embankments have been thrown up and a very large FLOOD CANAL constructed, which takes flood water direct from above the city to the Wular Lake, near Pattan. Some new bridges have been constructed, one of which the "Partab Singh Kadal," is a specially handsome and well-built structure ; it replaces the old Amira Kadal "

The LAND SETTLEMENT deserves more than a mere passing eulogium for it transforms the condition of the peasantry. Under the old regime "the revenue officials, from highest to lowest, combined to rob their master and to despoil the people."

The revenue was collected in kind, and entirely managed for the benefit, not of the State, nor of the poor of the city, but of the great army of Hindu officials. The whole Local Government—the Governor of Srinagar and the Direct Tahsildars—were partners and managers of a grain-dealing firm ; and it was from this traffic that they derived the major portion of their incomes. When the late Maharaja Ranbir Singh tried in 1873 to collect the revenue in cash he was thwarted by the opposition of the officials ; and this opposition required both tact and perseverance on the part of the European Settlement Commissioner. The work, begun by Mr. Wingate, was carried on and brought to a successful issue under Mr. Walter Lawrence, who was supported throughout by the Maharaja and State Council.

As the settlement progressed it gained the confidence of the people. The assessment on the Lal Tahsil were announced in 1889, and the peasantry soon learnt that the new bandobast introduced freedom. While relieving the exactions on every kind of produce, the assessment was a light one, and was fixed for ten years. The value of land was at once enhanced ; but it was wisely determined not to grant the villager rights of sale or mortgage, which might have relieved him from official imposition, only to make him the slave of the money-lender, as in parts of British India.

In this way the cultivators secured the reward of their labours, with the result that much waste land was soon taken up. It may be asserted that the Kashmir peasantry with their little vegetable gardens, their

poultry and sheep, with their abundant fruit trees, with vast mountain grazing grounds, and privileges in the way of firewood and forage, are now exceedingly well off. And while the ryot flourishes, the revenue of the State also grows. It has already increased by Rs. 1,85,000.

But in no way have the Muhammadan labourers been more relieved than in the abolition of forced labour on the Gilgit road or to Jammu, &c., on State service. In 1889, at the height of a cholera epidemic, eight or ten thousand coolies were sent off hastily to Gilgit; and thousands of others had to pay heavy bribes to escape impressment. The mortality along the road from cholera among the ill-fed, ill-clad coolies, was fearful. All this has been changed.

Baggage animals have been drawn from all sides: in 1895 over fourteen thousand animals were voluntarily supplied to the Commissariat Department.

Experience tends to show the unwisdom of altogether withdrawing the time-honoured system of compulsion from the Kashmiri.

If quite left to himself he refuses to sell his farm produce except at exorbitant prices, and he declines to assist travellers. The higher the prices the less he needs to work. It has been found advisable to insist on labour for roads and canals, paying good wages.

The work of road construction has made steady progress, the Gilgit road has been completed; the cart road from Baramulla to Srinagar was opened for traffic in 1897, and the bridle road to Leh has been much improved. District roads have also been made to Islamabad, Shupiyon, Tsrar and the Lolab. Both at Srinagar and Gulmarg there are many new houses and new churches.

Allusion must also be made to the improvement in the Kashmir forests, which had been so exploited that deodar would soon have disappeared from even the remotest ravines. In many parts it has already gone. Such a source of future revenue needs careful guarding.

But due respect should be paid to the need of the villagers who are perhaps rightly aggrieved at the interference with former grazing and other privileges

The death of Raja Sir Amar Singh in 1909 was a great loss to the State.

Nothing is of better augury for the prosperity of the country than the consideration His Highness the Maharaja ever has for those over whom he rules, and which he shows towards the officials, whether Indian or European ; and cordial relations of the State authorities with the Resident, who now represents the Imperial Government. And the author may be permitted here to acknowledge the kindness and favour which His Highness ever extends personally to the agents of the Church Mission Society in their educational and medical work among the people of Kashmir.

STATES OF KASHMIR AND JAMMU 1917.

Maharajah	...	Maj.-Genl. H. H. Sir Pratap Singh, G. C. S. I., G. C. I. E.
Heir Apparent	...	General Raja Sir Hari Singh Sahib, Commander-in-Chief.
Resident	...	Lieut.-Colonel A. D. A. G. Bannerman, C. V. O., C. I. E.
First Assistant	...	Captain C. H. Gabriel, I. A.
Special Assistant Resident for Punch.	Resi-	Mr. H. D. Greaves Law, I. C. S.
Headquarters	...	Punch in winter ; Srinagar (Gulmarg) in summer.
Assistant Resident for Leh and Ladakh.		Major D. R. G. Oliver, I. A.
Headquarters	...	Srinagar in winter ; Leh in summer.
Political Agent, Gilgit	...	Lieut.-Colonel C. A. Smith, I. A.
Assistant Political Agent, Chilas.		Captain Severn Williams, I. A.
Accountant-General	...	G. C. Hart, Esq.
Forests	...	B. O. Coventry, Esq., Conservator.
Divisional Officers	...	E. J. Radcliffe, Esq., G. L. deLa C. Fuller, Esq.
Inspector-General of Police.	of	C. G. D. Farquhar, Esq.
State Engineers	...	H. H. Greene, Esq., Personal Assistant, E. F. Sykes, Esq.
Executive Engineer, Jhelum Valley Road.		W. P. Appleford, Esq.
Chief Electrical Engineer		C. H. K. Chamen, Esq.
Settlement Commissioner		A. M. Stow, Esq., I. C. S.
Superintendent of Post Offices.		G. D. Fanshawe, Esq.

ABBREVIATED LIST.

State Rakhs	...	Colonel A. E. Ward.
Game Preservation	...	Major H. R. Wigram.
Sericulture	...	M. L. MacNamara, Esq.

ADMINISTRATION.

Sardar Daigiet Singh	...	Chief Minister.
Pt. Narendar Nath		Governor.
Kol, M.A.,		
Chaudri Khushi Mohamad		Revenue Minister.
Mr. Permanand Kanoer		Judge, High Court.
Major-General R. B De-		Home Minister.
wan Bishan Das, C.I.E.		
Zenana Hospital	...	Dr. K. O. Vaughan.
Dredging Department	...	H. A. Mackenzie, Esq.
Technical Institute	...	F. H. Andrews, Esq.
Horticulture	...	A. M. Peychaud, Esq.
Agriculture	...	Ram Gopal, Esq., M. A.
C. M. O.	...	Mohan Lal, Esq., M. D.
M. O. H.	...	Dr. Kul Bushan.
Superintendent of Police		Wazir Paras Ram.
Motamid, Durbar	...	Pandit Manmohan Lal Langer. Visitors will find this gentleman of great assistance to them in making their arrangements. He is a Magistrate and difficulties with boatmen and servants may be referred to him.

GUIDE TO KASHMIR.

CHAPTER I. 1

THE KASHMIR TOURIST.

THE first scanty tribe of human beings who, wandering eastward from the primitive home of their race, scaled the mountain barriers of the Punjab, and looked across the wild peaks and ridges to the northwards, would with difficulty have believed that in the heart of that apparently interminable chain of rocky summits there was embosomed a lovely valley far exceeding in beauty and fertility even the richest and loveliest of those Central Asian valleys of which their ancestral traditions told them.

The Valley of Kashmir owes its fame, doubtless, not less to the wild grandeur of the barriers which surround it than to its own intrinsic loveliness. It is this contrast which has led the poets of all nations to speak of it as an "emerald set in pearls." But the varied beauties of Kashmir appeal to every want and taste. For the cultivator of the soil, there is fertility of land, abundance of water, variety and plenty of natural products, whether grains or fruits. For the herdsman, there is rich pasturage and broad meadows. The sportsman finds game in the jungles and along the mountain sides. The fisherman finds ample use for the rod, the artist for his sketch block and colours, the archæologist, linguist, botanist or geologist, may well whet their enthusiasm over the stately Buddhist ruins, the luxuriant vegetation, or the many geological problems awaiting their investigations; while they, who have neither hobbies nor inclinations, who want but rest and amusement in a lovely country and pleasant climate, can take their fill out of Nature's bounty.

Thus we find quite enough to account for the growing popularity of Kashmir, not only as a hill station, but as a sanitarium.

AS A SANITARIUM.

Owing to its distance and the absence of suitable accommodation, invalids naturally hesitate to go so far in search of health. We doubt if this hesitation is justified. Murree is within $2\frac{1}{2}$ hours by motor from the Rawalpindi Station; and with the good road which was opened a few years ago the journey is no longer difficult. It may be accomplished in one day. The climate of Kashmir is eminently suitable for Europeans. We ought rather to say the climates of Kashmir, for as much variety, whether in temperature or humidity, &c., can be obtained in different parts of Kashmir as in the whole of Europe, from the shores of the Mediterranean to the North Cape.

CLIMATE.

The climate of the Valley Proper, until quite the end of May, is similar to that of Switzerland. As the summer advances, it becomes somewhat relaxing, especially in the neighbourhood of the extensive lakes and marshes; but the heat scarcely, if at all, exceeds that of South Italy. Up any of the numerous and beautiful side valleys, or upon the meadowy slopes and *margs* of the Pir Panjal, almost any gradation of climate is obtainable. Thus, while at Srinagar, in July, the mean temperature is about 75° , at a height of 7,000 feet, in the Lidar or Sind (Valleys the mean would scarcely exceed 65° ; at Sonamarg in the Sind), Aru in the Lidar, or at Gulmarg—all of which are above 8,000 feet—the average daily temperature never exceeds 60° ; and again at a height of 10,000 feet, or at 12,000 feet, the mean temperature in July would not exceed 50° , while great extremes of cold might even then be met with.

By the middle of March the winter breaks up. The spring is very changeable and showery, often windy and cold; but by the beginning of May the sun acquires considerable power, though, on the whole, the weather continues very pleasant until the middle of June, when the increasing heat drives most people to Gulmarg. By the end of August, visitors begin to

return to Srinagar, or visit different places of interest about the Valley. But till the end of that month the lower parts of the Valley are unpleasantly warm and steamy.

The autumn months are the pleasantest in the whole year with clear, bright, but fairly cool, days. From the middle of September to the end of the year, cloudy or wet days are few and far between. In December there is often an early fall of snow, and the frost is keen; but it is not till about the middle of January that the main snowfall occurs. For two months even the lower parts of the Valley are seldom entirely free from snow, which often lies eight inches or a foot deep. Enormous quantities of snow fall on the mountains around, and communication with the Punjab is sometimes cut off for two or three days, as the Murree route is blocked for traffic.

Approximate Table of Temperature of Srinagar.

						Mean.	Extremes in shade.
January to February	15th	...	...	...	35°	Fahr.	15°—45°
February	15th to March	..	...	...	40°	..	20°—50°
March	..	April	..	...	48°	..	30°—65°
April	..	May	..	...	55°	..	35°—80°
May	..	June	..	...	65°	..	45°—85°
June	..	July	..	...	75°	..	50°—95°
July	..	Augt.	..	...	80°	..	55°—90°
August	..	Sept.	..	...	70°	..	45°—85°
September,	..	Oct.	..	...	60°	..	45°—70°
October	..	Novr.	..	...	50°	..	35°—60°
November,	..	Decr. 31st	..	...	45°	..	25°—50°

RAINFALL.

The rainfall of Kashmir is much less than that of any of the Himalayan hill stations. At Srinagar the yearly amount seldom exceeds 27 inches. At Gulmarg it would be considerably more: but even there it would not be more than two-thirds of that of Murree.

The spring months are often showery, and through the summer a few consecutive hot days are usually followed by a

storm, which cools the air. In June thunderstorms are frequent and in July and August a good deal of rain falls, not, however, without frequent intermission of sunshine. We speak more specially of Srinagar, for at Gulmarg it is not unusual to have heavy rain lasting several days with scarcely a break in the clouds.

The monsoon affects Kashmir in July and August, but its force is much diminished by the Pir Panjal range, and to the north of the middle Himalayan range very little rain falls—at Dras about 10 inches per annum, and at Leh about 4 inches.

SUITABLE FOR INVALIDS

As a whole, the climate of Kashmir is much better suited to invalids than that of any other Indian sanitarium. For chest cases it is more suitable than the climate of England; but at present there is a great deficiency of good accommodation.

The Nursing Home is a great boon to any visitors who fall sick.

A subscription should be given by all, entitling to admission on reduced terms.

It is worth mentioning that this institution has no connection with the Mission Hospital.

Among the Kashmiris, malarial fever, liver complaints, &c., are not common. The diseases are essentially those of a temperate climate. Lung complaints are common during the winter owing to deficient clothing; but consumption is rare, as also is dysentery. Cholera occasionally visits the Valley, and in 1889, 1892 and 1900 wrought great havoc. In 1906-7 and 1914 there was a less severe epidemic. But the mountain *margs* and side valleys offer safe refuges from its terrors.

The insanitary conditions common to all Asiatic countries make the climate unsuitable for patients with liver disease or dysentery. Srinagar is decidedly malarious and relaxing during the later months of summer and early autumn especially if floods have been prevalent. The elevation of Gulmarg and Sonamarg (8,500 feet) is too great for many of those who have heart disease or are liable to asthma.

FOR CONVALESCENTS.

For convalescents from acute diseases, for those who are weakened by prolonged fever or overstrain, for the early stages of consumption, nervous disease, dyspepsia, &c., Kashmir is eminently suitable during the summer and autumn.

WINTER IN KASHMIR.

As will be seen above, the winters are often snowy and severe. During the recent winters the lakes have been frozen, sometimes permitting skating. The visitors' accommodation is not suitable for the cold season, and many people prefer to stay in houseboats. The European community is usually very sociable.

CHAPTER II.

HOW TO TRAVEL.

THE traveller who intends visiting Kashmir, whether it be for pleasure or health, will probably first seek information as to the best time of year to spend in Kashmir, which route to go, the expense of the journey, and what arrangements to make for it.

To some of these points we will now advert.

WHEN TO GO.

If a stay of five or six months is to be made, May is the best month for the journey up. If but two or three months are available, I should recommend that the return journey be at the end of October, so that the early part of the autumn may be spent in Kashmir.

WHERE TO STAY.

In Srinagar there is now a small permanent community of Europeans. The very few quarters available for visitors are always occupied early in the spring, but there is a good hotel belonging to Nedou & Sons.

But few would visit Kashmir in order to stay long at Srinagar: and it is better for visitors to have their own tents or house-boats. They can then move from place to place, according to the season of the year. In July and August most people go to Gulmarg, or up one of the side valleys. At Gulmarg there is a hotel and numerous huts.

TENTS.

Those who come for the whole summer, and possess tents, should bring them. But tents may be readily hired from the

various agencies in Srinagar at reasonable rates (Rs. 4 to Rs. 10 per mensem).

It is well to have good tents. They should have a double-fly, with porch in front and bath-room behind. Double-poled tents are the most convenient, and 12 feet by 9 feet is a very fair size. They should weigh well under two maunds and divide into two loads. When damp, the outer fly of a large tent takes up nearly half a maund of water. Anything much larger than the above size would add considerably to the difficulty and expense of carriage. For a bachelor, the smaller sizes of double-fly Kabul tents, weighing 84 lbs., are ample. A sufficiency of iron tent-pegs should always be carried; before starting on the journey the tent should always be pitched, so that the poles, ropes, &c., may be tested and nothing omitted.

Coolies steal iron tent-pegs, so they should be counted when striking and pitching the camp.

For wet soft ground wooden pegs 1½ feet long are desirable.

HOUSE-BOATS.

Formerly, the only boats for living in were the Kashmiri *dungahs* with matting roof and sides. Some of these were fairly comfortable, and suitable for moving about in the summer or autumn. The crew of three or four women as well as men occupy the hinder part of the boat, which is hired at from Rs. 15 to Rs. 25 a month, according to the size of the boat and number of its crew. Another smaller boat is needed for servants and cooking. (See Rules for Visitors.)

Attached to these boats is the *shikara*, a light, swift boat propelled by four or six paddlers.

The hire of these is extra; a plain boat with matting roof Re. 1 or at most Rs. 2 per mensem; few of those with canopies should exceed Rs. 3 per mensem; and extra men at Rs. 6 per mensem in Srinagar.

Of late years many large *house-boats*, with wooden sides, have been built. They vary from 9 to 12 feet wide, and have several comfortable rooms with doors, windows and fire places. Some of these are let furnished with bedsteads, tables, chairs, crockery, &c., &c. The rates vary from Rs. 200 to Rs. 400 for the season, exclusive of the crew. Extra men can be hired at 6 annas if specially engaged by the day, otherwise at Rs. 6 a

month. Away from Srinagar Re. 1 extra. When travelling up or down the river six or eight men are necessary for a large house-boat. This is, indeed, a luxurious way of moving about the lakes and waterways of Kashmir.

Some ladies living in house-boats at Srinagar take paying guests. Information can be got from the agencies as to rates.

The *dungah house-boat* or *boarded dungah* has wooden sides and roof, but is smaller and lighter than ordinary house-boats.

For details, early application should be made to the agencies advertised.

CAMP OUTFIT.

Formerly travellers marched stage by stage and brought their own outfit. Now most come by tonga, and find it more convenient to *hire everything* in Srinagar.* Not only tents, tables, chairs and *durries*, but bath-room furniture and cooking-pots, crockery, &c., can thus be hired, and be found ready for use at the tonga terminus. Servants can also sometimes be obtained through the agencies, and thus the journey can be done in light order. Cooking-pots, if of copper, should always be freshly tinned before use. Block tin, steel, or aluminium saucepans are better.

Many articles of furniture are made in Kashmir, such as folding chairs and tables, basket chairs, also felt rugs, woollen tablecloths ornamentally worked, braided mantelpiece borders, &c., so it is easy, at small outlay, to make a room or house-boat both comfortable and pretty. Mule trunks are very useful and durable, though often rather heavy. Large wooden or steel boxes weighing a maund or more are not suitable for camp use. Tin boxes, in a wooden frame-work, are very useful for carrying books, wearing apparel, &c., while for stores and cooking utensils nothing is better than the deep leather-covered baskets, called *kittas*. For several years I have used large oval baskets, called

* There are two European agencies :—

Cockburn's Agency, where all kinds of Kashmir articles can be bought, and tents or boats hired.

The Kashmir General Agency is for all kinds of camp outfit, provisions, &c.

pitara, covered with leather and encircled by straps, as mule trunks. They are strong and water-tight and, at the same time, very light.

Whatever is used should be sufficiently water-tight to stand a shower and not too fine for rough use. Before starting, anything which will not be wanted on the road should be packed separately. The fewer boxes needed at each stage the less trouble will be given in starting.

SUPPLIES.

On the chief routes, fowls, milk, eggs, common flour and butter can usually be obtained and at a few hours' notice a sheep can be purchased. These are all sold at fixed rates, which are usually very high. The man in charge of the rest-house ought always to show the list of prices, signed by the Resident. Most European stores can be obtained at Srinagar. For ordinary prices of some of the chief things, see p.11 *et seq.*

CARRIAGE.

Those who travel in by the Murree route will usually prefer to travel by motors, phaeton or *chka* (*vide* next section).

For other routes, or in travelling about Kashmir or Ladakh, coolies or baggage animals will be necessary.

If, at the starting-point, an arrangement can be made for mules or coolies to go right through, so much the better. Any luggage, specially liable to injury, or of much value, should be put on coolies. The roads are bad, and boxes on mules are often injured by contact with rocks, or they may even be knocked off the animals and be lost in the river. In travelling about the Valley, or by any route on which there is no regular provision for carriage, it is well to be armed with a *parwana* from the official at Srinagar, who is appointed by the Maharaja to attend to the various wants of European visitors.

The ordinary rates of hire are : for coolies, four annas a stage ; ponies or mules, eight annas. Coolies seldom object to carrying thirty-five seers, although, nominally, the limit of weight for them is twenty-five seers.

Kahars are paid six annas a stage. Trained kahars can only be obtained at Srinagar from the Transport Department, application should be made through the Mohtamid Darbar.

CLOTHING.

Clothing for Kashmir should be of medium thickness or warm. Kashmir homespun is very cheap and useful for ulsters, riding habits, &c. A sola *topi* should be worn, as the sun has great power even at high altitudes. If snow has to be crossed a blue veil and tinted spectacles will be required. In fine weather Kashmiri *chaplies* (sandals) may well replace boots, but on wet ground, or in rainy weather, these are indeed *worse than useless*. Sportsmen will soon learn the value of the grass sandals plaited by their coolies; they have but little wear in them, but give a perfectly secure hold on rocky or steep grassy slopes, and may be worn over boots.

On snow nothing is equal to well-nailed ammunition boots. Leg bandages (*putties*) are worn by many people. If put on too tightly they constrict the circulation and conduce to cold feet.

Mosquito nets are needed in travelling about the Valley during the summer. A good waterproof sheet is useful for protecting bedding, &c.

It is quite unnecessary to bring books, as there is a good Club Library at Srinagar, and also at Gulmarg during the season.

RATES AND PRICES.*

It is not easy to dogmatise on the subject of prices, which are subject to market fluctuation and what is now written may in a few months be out of date, but, at any rate, for the current season of 1918 it should be useful to visitors, and certainly many of the articles are unlikely to vary much. Along the main roads there are published official rates.

WAGES.

Good servants are very difficult to obtain. Such do not care for short periods of service, but seek permanent work, preferably with local residents.

Cooks—Receive from Rs. 12 to 18 per mensem.

Khitmatgars and *Bearers*—From Rs. 10 to 12.

* During the war prices are higher--from 1 to 2 annas per rupee may cover the increase.

Bhisties—From Rs. 6 to 7. These help in other work.

Grasscuts—From Rs. 5-8 a month, and syces from Rs. 6 to 8 a month.

Sweepers—From Rs. 6 to 7 a month.

Boatmen.—If for house-boats, Rs. 6 a month ; for *dungabs*, Rs. 5 a month. See special official list, which each boatman must produce. They help in all sorts of work.

Rassad.—Those who travel about the Valley where supplies are plentiful, and the prices of most things less than in the city, should not give *rassad* allowance. But away from the plenty of the Kashmir Valley, up on the hills, or in wild valleys, *rassad*, 1 or 2 annas a day, may be given. And if going to Ladakh, or over snow-passes, it is usual to give a warm coat to one's servant, also a blanket, and *chaplies*.

In every case there should be a definite agreement beforehand.—In uninhabited districts the traveller should carry a supply of rice and *dal*, issuing daily measured rations of about one seer per man.

If sheep can be purchased, it is well to treat the coolies liberally.

Good Shikaries—Can ask their own price ; many get Rs. 25 or more. They will arrange for under-shikaris and regular coolies.

Srinagar prices.—Tend to rise in the summer season, but in winter many articles are more expensive because more scarce. There are some great fluctuations still, so these rates need revision from time to time.

Firewood.—Three maunds a rupee may be got. So the daily allowance for cooking for a large party seldom exceeds 4 annas. At Srinagar there are special arrangements at a depot. In most villages wood is abundant and very cheap ; 1 anna a day is enough.

Bread.—The usual rate is 12 loaves a rupee.

Pampoor roti.—These are 64 for a rupee.

Meat.—Good mutton is usually about 3 seers a rupee. In the districts, if a sheep is killed, the meat might be taken at 5 seers a rupee. On some routes the rate is eight seers a rupee live weight, say $\frac{1}{2}$ seers of meat. The shepherded is seldom the owner.

Fowls.—If good sized, sell at 3 for a rupee; small ones 5 for a rupee, but are scarce sometimes and prices are now higher, as much as 10 annas.

Ducks.—From 2 or 3 annas in winter to 6 or even 7 annas in summer in the city.

Geese.—Each Re 1; sometimes a little less.

Fish.— $1\frac{1}{2}$ to $2\frac{1}{2}$ annas a seer, except very large ones, when price is double.

Eggs.—Seasons vary. When plentiful 3 annas a dozen

Milk.—Also varies 12 seers a rupee, or in the higher grazing grounds, 16 seers.

Potatoes.—Are good, and can be got at about $22\frac{1}{2}$ seers a rupee or more in the places where they are grown in summer.

Vegetables.—English kinds can be got for 4 annas a *dali* from the public garden near the Library. Kashmir vegetables, such as turnips, carrots, vegetable marrows, tomatoes, peas, &c., are very cheap.

Fruit.—Varies very much. The prices are much higher at Gulmarg than in the city. Hawkers will sometimes refuse the highest prices mentioned below, if there is any scarcity.

Apples.—The best European may be 3 or 6 annas a dozen; but Kashmir apples 12 annas per 100. Apply to Director of Agriculture.

Pears.—The best might be 3 or 6 annas a dozen, the Kashmiri 4 or 5 annas per 100.

Melons.—1 or 2 annas each, according to size and season.

Grapes.— $1\frac{1}{2}$ to $2\frac{1}{2}$ annas a seer—seldom really good.

Apricots and Peaches.—The best, 1 or 2 annas a dozen ; Kashmiri, 1 anna a seer.

Cherries.—From 4 to 8 annas a seer.

Raspberries —1½ or 2 annas a seer.

Rice, basmati.—9 to 10 seers a rupee.

White Rice.—14 seers a rupee, or even more.

Wheat.—8 to 11 seers a rupee.

Ata.—8 seers a rupee.

Barley.—10 to 16 seers a rupee.

Ardawa for horses.—Maize 24 to 32 seers a rupee ; barley, 20 to 24 ; gram 8 seers per rupee.

Grass for horses.—2 maunds a rupee.

Rice straw for horses.—100 bundles (*kori*) for Rs. 4.

Flour, Kashmiri.—Best, 8 seers a rupee.

Dhal.—8 to 12 seers a rupee.

Butter.—For table, 1-4 rupee per lb. ; for cooking, 10 annas per lb

Ghec —1 seer a rupee.

Raisins.—2½ seers a rupee.

Currants.—2 seers a rupee.

Country oil.—2½ seers a rupee.

Sweet oil.—1 to 1½ seers a rupee.

Kerosine oil.—No. 1 Snowflake, per box of 2 tins, Rs. 14 ; No. 2 quality, Rs. 11-11 fluctuating.

Sugar.—Per bag of 5 seers, according to quality, Rs. 2-12, constantly fluctuating. This can be bought cheaper in bulk.

Tinning of kitchen utensils costs 1 anna each article.

Shoeing horses from Re. 1 to Re. 1-8.

House boats can be got at from Rs. 25 a month exclusive of boatmen, to Rs. 400 for the season, according to sizes and furnishing. Some have crockery, &c, &c.

The list of official rates is usually posted in the Library verandah at Srinagar, and is changed fortnightly in the season.

N.B.—The above are rates paid by residents, visitors usually have to pay more especially when Srinagar is full of visitors.

MANUFACTURES.

The European firms are endeavouring to improve the quality of Kashmir *carpets*. The price varies with the quality to Rs. 12 per yard or more. But some of the common native carpets sell as low as Rs. 3-8 per yard.

Kashmir embroidered *namdahs* are handsome and cheap. The plain felt is brought from Yarkand or Ladakh. An ordinary size about 7 feet \times 4 feet sells for Rs. 6-8 or Rs. 7.

The common brown *namdahs* made in Kashmir have a most disagreeable smell and wear badly.

Silver engraved articles sell by weight if not very small. The purchaser should see that no part of the article is disproportionately thick and heavy. Annas 15 per *tolah* is an ordinary price ; and if there is any gilding 1 anna per *tolah* more.

Copper-work varies much in the quality of engraving. The inferior qualities sell at about Rs. 2-8 to Rs. 3 and the most finely engraved at Rs. 5 or more.

Good wood carving is about Rs. 2 per foot square.

Regarding other things, such as leather-work or silk embroidery, it is difficult to mention any standard by which the price can be fixed. In making to order the Srinagar tradesman usually supplies bad quality ; but the workmen are clever. There are good gunsmiths.

CHAPTER III.

ROUTES TO THE VALLEY.

MURREE ROUTE.

THIS is now the only one in general use, as there is a good cart-road with tongas, so that the whole journey need not take over forty-eight hours. Besides this, there are other roads suitable for stage by stage marching.

RELATIVE ADVANTAGES.

The Murree road is the easiest; the Pir Panjal the most picturesque; the Punch route is also very picturesque, but difficult and devious; while the Jummoo route is rather difficult, but short, and leads through pretty scenery. A good cart-road is now under construction.

It has hitherto been regarded as the Maharaja's private road, and permission was seldom granted to Europeans to travel by it (see Route 1). There are other routes by Abbottabad, Chamba, &c., which will be described in the Route Tables.

THE MOTOR ROUTE FROM RAWALPINDI.

KASHMIR VIA MURREE.

Rawalpindi is an important station on the North-Western Railway. Through travellers need not stay at Murree. A seat, price Rs. 44, may be had in the mail tonga, or a special tonga be obtained. For details about tonga rates, see the Imperial Carrying Company's advertisement at the beginning.

PETROL.

Is available at Baramulla and Domel by previous permission to buy to be obtained from Messrs. Radha Kishen and Sons, Srinagar, or from J. S. Evans, Northern Motor Works, Rawalpindi.

Motor cars can be hired at about Rs. 225 the trip. No extra charge is made for one night's halt.

SPEED LIMIT.

Motor driving speed limit on the Kashmir Road (Rawalpindi to Srinagar) and in Kashmir itself is 14 miles per hour. On the former it is wise to adhere to this limit, especially on the more dangerous portions and where the road is narrow.

It is comfortable to travel by land and doing three stages a day. The drawback is that no change of horses can be obtained and that any landslip or other break in the road blocks all further progress; whereas, if travelling by tonga, a fresh vehicle can be obtained beyond the break.

Ekkas for servants or luggage may be obtained also at Rs. 30, at busy times Rs. 34. The whole distance will be covered in five days, halting at Murree, Domel and Chakoti and Baramulla. *Ekkas* may be made comparatively comfortable with cushions for a single passenger, especially by fixing a foot-board at the back. Those who have servants and much baggage might well adopt this method of travelling. Heavy baggage should, if possible, be sent in advance a fortnight earlier, by bullock cart.

Dak bungalows have been built all along the road from Rawalpindi to Baramulla, and there is a khansama at each.

Fairly good drinking water is obtainable at Domel, Dulai, Garhi and Pattan—it is imperative to boil it at all bungalows.

Cruelty to Animal Prevention Posts have been established at Baramulla and Domel and there are two Inspectors at each place to whom any cases noted can be reported when reasonable hopes exist of identifying the animals or their drivers.

The first two stages from Pindi would be hot for marching after the middle of April and also the two stages between Kohala and Domel. The change of temperature in going up to Murree is striking and travellers should have warm wraps handy.

Eye-protectors should always be worn in the tonga. Sharp bits of steel or stone are apt to injure the eye.

The stages to Murree are three—

1. **Barakao**, $13\frac{3}{4}$ miles—*Altitude* 1,720 feet.—So far the road is very level, and is partly shaded by trees.

2. **Tret**, 12 miles—*Altitude* 4,000 feet.—A fair dak bungalow. The road soon enters low hills and scenery which in the spring is beautiful, but in summer and autumn hot and dusty. At a steep corner (17th mile) toll is taken. Two miles further is the pretty garden at Chattar, a pleasant resting place for those who travel slowly. From Sailgram bridge (twenty-three miles from Pindi) the main ascent begins and in the next two and-a-half miles the top of a pine-clad spur is reached. Well situated dak bungalow near a large bazar. The bungalow commands a fine view. It is 4,000 feet above the sea.

3. **Murree**, $13\frac{1}{2}$ miles.—To the ridge of Ghora Galli with its prominent watch tower there is a steep rise with some zig-zags. Seven miles from Tret the Murree Brewery is seen and the road passes through some fine forest scenery. The Lawrence Asylum is not far off up a steep path.

On the road at the Brewery is a Telegraph Office.

At Sunnybank, 37 miles, altitude 6,050 feet, from Pindi the road to Kashmir continues to the left and that to Murree turns sharply up the hill for 2 miles.

At the junction of these roads is the Sunnybank dak bungalow. Close to the tonga terminus in Murree is the Victoria Chambers Hotel, where a good meal can be obtained. The mail tonga which leaves Pindi at daybreak reaches Murree in time for breakfast. *Ekkas* do the distance in about ten or twelve hours.

On the ascent to Murree ponies are changed every 4 miles, elsewhere at 5 miles stages.

There are other hotels higher up the hill, also the chief shops and the Post Office close to the Church, which is 7,000 feet above the sea. The view from Murree is splendid on a clear day, both of plains and of snowy mountains.

There is a considerable resident European community.

Murree to Srinagar.—161 miles, divided into eleven stages.

1. **Kohala**, 29½ miles, from *Pindi*, 64 miles.—Height 2,050 feet. On the cart-road there is no dak bungalow short of this. So those who travel stage by stage may go by the old bridle-path, by which the distance is much less and there is a bungalow half-way.

Bridle-path—Murree to Dewal, 10 miles.—This is a rather steep descent of 2,500 feet; the path winds through beautiful forest, with splendid views. The bungalow is a good one, and is well situated.

Dewal to Kohala, 9½ miles.—There is a steeper descent, zig-zagging down a rather shadeless slope for 5,500 feet. It joins the cart-road at the banks of the *Jhelum*, a mile from *Kohaia*.

The CART-ROAD takes a longer sweep to the east. Parts of it are very pretty with fine views. Four miles from Murree is *Topa Cemetery*. The road for the next twenty miles winds in and out of the spurs, below which, twelve miles from *Sunnybank*, is a P. W. D. bungalow at *Rowah*. Application for permission to use this must be made to the Executive Engineer, P. W. D., *Rawalpindi*. There is the usual furniture. The nearest bazar is at *Phagwara*, three miles further on.

At *Kohala* there is a large dak bungalow; in the bazar below are the Post and Telegraph Offices. The former suspension bridge was swept away by the flood of 1893, and was replaced by a massive and lofty girder bridge.

The opposite bank of the river is Kashmir territory, and there is a Customs House at the bridge. Personal luggage accompanying the traveller is exempted by the Maharaja from taxation.

A bridle-path leads from *Kohala* to *Nathia Galli*, a distance of 15 miles but with a stiff ascent of 6,000 feet. There is a dak bungalow at *Doonga Galli*; good roads lead thence to the other *Gallis*, and also on to *Abbottabad*.

2. **Kohala to Dulai**, 12 miles.—Altitude 2,181 feet.—Toll has to be paid on crossing the bridge; the road is now in Kash-

mir territory, and for the rest of the journey to Baramula is on the left bank of the Jhelum.

The cart-road, with a very even gradient, gradually ascends for the next seven miles, sometimes passing through tunnel or cutting in the face of the precipitous banks. In the early morning it is fairly shady, but hot in the afternoon. Many picturesque scenes. At Chatter the road descends by a long zig-zag to a good bridge over a large stream. There is a picturesque little dak bungalow at Dulai, 2,180 feet above the sea, which was christened "Honeymoon Cottage" by Lady Ripon.

3. Dulai to Domel, $9\frac{1}{2}$ miles, from Kohala, $21\frac{1}{2}$ miles.—Till the last mile the road is cut in the face of the cliff; and is very liable, as in the previous march, to be blocked by landslips after rain. Some of the cuttings show interesting sections of strata, especially near Domel. A mountain above Muzaffarabad is the most prominent feature in the occasional view; it rises to 14,000 feet, and is covered with snow during the early part of the summer.

At Domel there is a State rest-house. Altitude 2,319 feet.

The large dak bungalow is near the road. There is also a Post Office and a dispensary. Beyond this is the residence of the Engineer-in-charge of the road, and the bazar; a new bridge also crosses the river Jhelum, which takes at Domel an acute bend to the east. Below Domel it is almost due north and south. At the angle, and just opposite the bungalow, it is joined by the Kishengunga, a river of nearly equal size. A mile or so north of this the town of Muzaffarabad is seen with one or two temples; and beyond it, hidden by rising ground, is the Sikh Fort. This is where the Abbottabad route joins the Murree road. In the early part of the century the hill tribes, Bombas, &c., gave the Sikhs much trouble, even raiding into Kashmir as far as Sopor.

The road from Abbottabad may be seen crossing the ridge to the west, 1,500 feet above the river.

This is never closed by snow, as the Murree route usually is for several weeks in winter. (See page 25.)

4 Domel to Garhi—14 miles, from Kohala, 34 miles.—

The scenery quite changes, is much more verdant ; the valley more open with good views of distant wooded hills. It is markedly cooler than either of the preceding marches. Above this point the fall of the river is more rapid. There is Post and Telegraph Office at Garhi, height 2,750 feet above sea level.

The handsome new bungalow is at the nearer end of a grassy plain. Stores may be obtained. In autumn a mosquito net is advisable as there is malaria here. On the opposite side of the river is a large village, the river is spanned by a slender bridge of buffalo-hide ropes. A short cut from Chattar comes over the ridge immediately above Garhi. This is six hours' walk with a climb of 2,500 feet.

5. Garhi to Chenari—16 miles, from Kohala, 51 miles.—

About two miles from Garhi the road leaves the river, crosses a low spur at the 39th mile and rejoins the river at a higher level. The general elevation of this march is about 3,000 feet. A few *chenar* trees are met with. Some of the views are fine. Late in the afternoon this march is shaded by the high hills. There are several pleasant halting places on the road. There was formerly a bungalow at Hattian (45th mile). Altitude 3,080 feet.

Beyond that the scenery is bolder and more beautiful. About one mile beyond Hatti a new suspension foot-bridge crosses the river leading to Karnah Valley. The hillside is studded with fine pine trees (*longifolia*). On the opposite side of the river there is an old fort ; in the narrow space near it a Sikh army was once nearly annihilated by a night attack. The Paharis rolled huge stones down from the slopes above, and then dashing down, sword in hand, completed the route. Several hundred Sikhs fell.

At 51st mile is the little bazar of Chenari, and one mile on is a water-fall, above the road. A hill-slip is in progress above this fall, and the road has been carried away many times. A good bridge spans the ravine below the water-fall but the hill is still rather dangerous.

Chenari bungalow replaces the old staging house at Chakoti which was burnt down in 1914, and was pleasantly situated

overlooking a small plain, beyond which the mountains again close in. There is a swing bridge (*jhula*) of twisted birch twigs below the bungalow, which is three hundred feet or so above the river. Altitude of Chakothi 3,780 feet.

6. Chenari to Uri—18 miles, from Kohala, 69 miles.—The scenery of this march is also very bold, with lofty precipices on either side of the river. The road has to cross several narrow gorges and about half way is excavated in the solid rock with huge cliffs above and below and offers some beautiful spots for a halt.

The road is boldly cut in the face of the precipice with the river far below. There was much loss of life in making this section.

At the 58th mile is a big bridge in a chronic state of disrepair, formerly all the bridges were wooden, now these are being replaced by iron-girders of wide span.

At Barambhat is a great landslip where tongas cannot always pass. Further on, the road after heavy rain is dangerous owing to falling boulders. The grandest part of the gorge is about the 64th mile. Nearing Uri, the fort and village will be seen on a plateau 300 feet above the river, and beyond is the valley, down which comes the Punch route. Uri is 4,000 feet above the sea. The village gives the title to a Muhammadan Raja who holds the *jagir*.

The "alluvial fans," or sloping plateaux bordering the river at different levels, which are met with on many of these marches, are specially well marked near Uri. Below the fort is a rope bridge similar to that at Chakoti. When the river is high the middle of the bridge touches the water. The *nullahs* near Uri were once famous for *markhor*.* Bears are still numerous.

The bridle-path to Punch leads up a valley to the east and crosses the Haji Pir. The bungalow has been built in a good position and with superior accommodation. Passengers by tonga usually get breakfast here.

* Some of the *nullahs* are reserved.

7. Uri to Rampur—13 miles, from Kohala; 82 miles.—For the sake of the gradient the cart-road makes here a long detour up the valley, while a short cut plunges down into the ravine and then climbs several hundred feet up the rocky spur. The valley of the Jhelum here contracts again, and the road is cut along the face of some interesting rock. From Domel to Uri the only geological formation has been the Murree sandstone, a rock of great hardness, varying in colour from yellowish to purple brown. Here we come on slaty schists, succeeded by limestone, and this again by schists belonging to the Pir Panjal metamorphics. Hence the wild beauty of the scenery. The hills recede and the gentler slopes are covered with deodars. Half way, near the 76th mile post, close to the road, is the old ruined temple of Brankutri, similar to those in Kashmir, but more dilapidated. Beyond this the path is fairly level. Beautiful forest trees abound; the ground is carpeted with flowers and ferns. The occasional views of river, forest, mountain and early in the season, snow are very fascinating. Just beyond 77 miles are the extensive electric power-works. There is a flume 6 miles long, with a fall at the spot of nearly 400 feet; there are 8 turbines developing power for transmission by the overhead wires to Srinagar, etc. Nearing Rampur there are lofty fireclad cliffs of dark slaty rock towering over the path. The bungalow is a good new one, the climate good and view lovely. Altitude 4,825 feet.

8. Rampur to Baramulla—16 miles, from Kohala, 98 miles.—This march is comparatively level. A mile from the bungalow the Buniar stream is crossed. There is a little *bazaar* here near the sawmills, above which is a hut for the Road Engineer. Beyond it there are some large rocks scattered about, which were probably transported here by glaciers from the valley on the opposite side of the river, where moraines may be seen. Near by, on the road, is an ancient temple, called Bhaniyar, repaired many years ago by Diwan Kirpa Ram (*vide* p.95). Two miles beyond this are the fort and village of Naushera.

Close to the 87th milestone a foot-path (difficult in wet weather and scarcely practicable for horses) leads up a narrow ravine above the village to Gulmarg (*vide* p.62.)

From Naushera onwards great damage was done by the earthquake of 30th May 1885. A few miles beyond Naushera the valley opens out. The Jhelum, wide and placid, emerges from a narrow gorge to the left. It is navigable for small boats. The tonga road follows the river and the great electric dredgers and derricks may be seen at work excavating the river bed to improve the drainage of the valley, and lessen floods. The old road went straight across a range of hills about 700 feet high, which here close in the valley. From the top there is a wide view, the beauty of which has been sometimes exaggerated. But on a clear evening, towards sunset, the mountain panorama is indeed charming, by contrast with the green meadows and marshes and orchards, hidden villages, among which the Jhelum winds its sluggish course, and beyond which the Wular Lake can be seen. All the northern part of the valley of Kashmir is visible, with the conspicuous peak of Nanga Parbat 26,900 feet, towering above the nearer mountains. Haramouk, 16,900 feet, rises straight in front, apparently sheer up from the Wular Lake, on the near side of which Sopor is seen, far away on the right the peak of Kolahoi, 18,000 feet, may sometimes be recognised. On the south the Gulmarg ridges look quite close.

Baramulla is a town of about 800 houses. It was almost entirely destroyed by an earthquake in 1885, but was quickly rebuilt. Some travellers take boats here and travel by water to Srinagar. A new bridge crosses the river to the town which is chiefly situated on the right bank. Formerly there were many bears on the hills around, but they are becoming scarce. There is a shady *bagh* on the river bank, which affords a pleasant encamping ground. Altitude 5,150 feet.

There is a big dak bungalow, a rest-house for His Highness and many official buildings, engineering works, and a Roman Catholic Mission School.

From Baramulla there is a direct road to Gulmarg, about eighteen miles. It crosses the low hills to the south. (See page 62).

9. Baramulla to Patan— $16\frac{1}{2}$ miles.—The road to Srinagar skirts these hills for some distance; then crosses the

foot of a plateau, and leads due east to Patan, fourteen miles. Patan is a considerable village with some good camping grounds, well shaded by *chenar* trees. There is a small dak bungalow. At mile 18 by road are some old carved stones. Altitude 5,300 feet.

Within half a mile of Baramulla a view of the peak of Nanga Parbat can be got, and again from near Patan.

Near the road, beyond the village on the left, are two ancient temples (*vide* chapter on temples), pages 104—110.

10. Patan to Srinagar—18 miles, from Kohala, 132 miles.—The road is on the level valley, with monotonous rows of poplars on either side. Near the 14th mile-post a new bridge crosses the great flood canal, which was completed in 1904. At Mirgund there is a fine encamping ground by some big elms overlooking a small river. Another mile on, the new cart-road to Gulmarg turns off to the right. Close to the city, the road sweeps round the large parade grounds. The European quarter is two miles further on.

The great road thus finished was begun in 1880, and the section to Baramulla was opened in 1890, when His Highness the Maharaja was driven right through. It has been a costly undertaking in lives as well as money, but it has produced one of the finest mountain roads in the world. There have been some enormous cuttings through almost solid rock, or along the face of conglomerate cliffs. With a wide and solid roadway, it is still an exciting thing to drive at full pace along the edge of those huge precipices between Uri and Hatti. Many of the loftiest bridges have been more than once swept away by sudden floods in the mountain streams. In 1893 all were swept away at once. Whole mountain sides have begun to slip away, and constant vigilance is required to repair the effect of floods, frosts, landslips and avalanches. But hitherto very few severe accidents have happened to any passenger in the Kashmir tongas, and yearly the danger of such, with ordinary care, grows less. The road has stimulated commerce to a great extent—not merely are tons of fruit now exported, but the effect of improved communications has made itself felt in the far-away *bazaars* of Yarkand

THE ABBOTTABAD ROUTE.

The Abbottabad route is the natural way in winter when Murree is blocked by snow and all hotels closed. A new railway is running from Serai Kala, North-Western Railway, to Havelian a few miles of Abbottabad. When the road is widened, the mails will naturally go this way.

But there are not proper facilities for travelling, as tongas are not run between Abbottabad and Domel. It should be easy to arrange for a tonga service for the intervening 50 miles, as Mr. Dhanjibhoy owns the tongas between Hassan Abdal and Abbottabad, as well as those on the main Kashmir road. It would only be necessary to open 10 staging stables, transferring the horses from the Domel-Murree Section.

Tum-tums and *ekkas* can be obtained to go through at the same rates as from Rawalpindi. The road is being widened and is in fair condition, so three stages a day can be done without changing horses.

HAVELIAN TO SRINAGAR.

<i>Summary.</i>				
Havelian to Abbottabad	...	...	...	8 miles.
Abbottabad to Mansehra	...	...	...	16 "
Mansehra to Garhi Habibulla	...	...	...	18 "
Garhi Habibulla to Domel	...	...	...	13 "
				55 "
Here joins the main road.				
Thence to Srinagar	...	...	...	117 "
				167 "

The total distance, 167 miles, is therefore, a few miles shorter than by Murree, there is much less ascent, and it is never blocked by snow. Before the railway reached Havelian travellers had to start from Hassan Abdal a station on the North-Western Railway, about one hour's run from Rawalpindi. Tongas, *tum-tums* and *ekkas* go to Abbottabad, a distance of 44 miles. The tongas belong to Mr. Dhanjibhoy. *Ekkas* and bullock-carts can be obtained from Ishar Singh.

It is 23 miles to Haripur, a good, slightly ascending road. The town is well situated, surrounded by fruit gardens and well watered. There are 30,000 inhabitants.

The dak bungalow is a good one.

Beyond Haripur the ascent increases, and at about 36th mile there is a big bridge, and then steeper ascent for some miles.

Abbottabad is a pretty little station in the basin of some high hills. It is a cantonment, and there is a fairly good dak bungalow. There are many groves of *eucalyptus* trees.

Snow occasionally falls here in winter, as the height is 4,000 feet above the sea.

An excellent and well illustrated Gazetteer of Hazara District has been written by Watson.

From Abbottabad roads go to Thandiani and Nathia Galli.

Abbottabad to Mansehra—16 *miles*.—The road is good, it ascends somewhat for a few miles, then crosses some ravines, and descends gradually for 3 miles to Mansehra. Good bungalow. The distance is paid for as 1½ stages.

Mansehra to Garhi Habibulla—19 *miles*.—At first skirting hills then down across a wide valley, then up to a forest ridge, then for 5 miles down zig-zagging to the Kunhar river, and 1 mile on to the dak bungalow, close by the bridge. A direct path from Abbottabad to Garhi saves many miles. Two stages are charged for this march.

Garhi to Domel—13½ *miles*.—Joins Murree road. The new road crosses the Kunhar or Nainsuk at Garhi and follows down the left bank, gradually rising to a low pass about 8 miles down from which, making a sharp V bend, it descends to Muzaffarabad; crosses first the Kishenganga, and then the Jhelum.

This road, if widened throughout, would be the best route for heavy luggage, and is open the whole winter as far as Uri. There is a shorter, but steep, path from Garhi to Muzaffarabad. Toll has to be paid on the bridges.

KASHMIR VIA PIR PANJAL OR PUNCH.*

Prior to the extension of the Railway to Rawalpindi, the Pir Panjal was the favourite route to Kashmir. It was the

* Route not recently revised.

quickest way of escaping the heat, and afforded at least as good a road as any to Kashmir amid the grandest scenery. Now the scenery remains, but the other advantages are lost. Very few travellers now choose the Pir Panjal route for going to Kashmir, and but a small proportion for leaving. The pass is closed by snow till the middle or end of May and after the end of October, at which times a detour *via* Punch has to be made. The road, as a whole, is bad—often not better than a water course. Occasionally in July the small bridges are washed away and the rivers may be unfordable for some days. The early marches are hot, and the climbing in parts is stiff. The bungalows are inferior. Still, as a whole, the scenery is grand, and the traveller who elects to see it and enter Kashmir by the Pir may indeed be fatigued by the journey, but will remember it ever after with pleasure. The start is made from Gujrat on the North-Western Railway. Travellers would do well to get information about coolies, supplies and accommodation from the *khansama* of the dak bungalow, who will obtain *ekkas* to do the first stage or the Tahsildar might be applied to.

Gujrat to Bhimber—28½ *miles*.—There is no dak. The journey is performed by *ekka*; the latter 12 miles the road is very bad, and not fit for wheels. At Bhimber the outer hills are entered. The general character of the country is low jungle-covered spurs, behind which rises a series of low ridges of bold outline, running parallel to one another. Bhimber is a small town belonging to Jammu. There is a square rest-house consisting of four rooms with verandahs and bath-rooms, but no *khansama* or supplies. Transport difficult to get.

Bhimber to Saidabad—14 *miles*.—Start early. After leaving Bhimber an hour's climb up and down, crossing the bed of a stream (in rainy weather fords are troublesome), brings one of the Aditak range, a stiff ascent of one hour. The descent is easier. It is a few miles more to Saidabad, where is a rest-house, and near it the ruins of a Moghul *serai*. There is no *khansama*, but the rest-house is similar here and for the next three stages to the above. A few miles up the valley a Dogra fort may be seen, strongly situated on a hill. No supplies.

Saidabad to Naushera—12 miles.—These distances are doubtful. Probably all are over-estimated, owing to the road being bad, and usually ascending. The second range called the Kaman Gosha, has to be crossed; the path to its foot is very pretty. The ascent is tough, and the descent long and trying; road vile. On this ridge fir trees are numerous. The view of the Pir Panjal range is splendid. The path now joins the valley of the Tavi, which is traced up to its source in the snow during the next few marches. At Naushera there is a massively built *serai*. Cross river close by; difficult, if swollen with rain. The bungalow is in a shady plot of trees about a quarter of a mile from the river. Difficult to get coolies, few supplies.

Naushera to Changan Serai—14 miles.—The river makes a great bend, which the road cuts off by crossing a spur from which a fine view is obtained. The road then descends to the river, and after many windings and frequent ups and downs, a plain has to be crossed, beyond which the bungalow is visible standing some little height above the Tavi. There is a direct road, which crosses and re-crosses the river; but the water is often rather deep, and but a short distance is thus saved. The view of the snowy peaks to the north-east is very magnificent. These are the main peaks of the Pir Panjal; such as Tatakuti, Sunset Peak, Darhal Dome, etc., mostly over 15,500 feet.

Changan to Rajaori—14 miles.—The road lies up the valley, crossing numerous wooded spurs. The views are splendid nor is the valley itself unattractive. The march is, however, fatiguing. The bungalow is on the left bank of the river, which must either be forded below Rajaori, or crossed at the town. This is occasionally a difficult matter. The bungalow is really the pavilion of an old Moghul *bagh*. It has no bath-rooms. The town is very picturesque, there being some good buildings fronting the river. There is a dispensary and post office. The elevation is 2,206 feet, the lowest at which *chenar* trees are met with.

Rajaori to Thanna Mandi—14 miles.—The path rises steadily, crossing the river twice, and leading into grander

scenery. In the morning it is shady, and the valley pleasant for walking ; near the town is a large ancient *serai*. The ridge in front is the Rattan Pir. The bungalow is a poor one, barrack shape, with furniture, etc. There is a mountain path by the Darhal Pass (see p. 71).

Coolies and ponies should be taken through to Srinagar from Thanna Mandi. This is grander scenery than the Pir Panjal, but a more difficult road. The route is more suitable for travellers leaving Kashmir and having good coolies (it is not fit for ponies.)

Thanna Mandi to Baramgalla—10 *miles*.—The Rattan Pir has to be crossed. It is 8,200 feet above the sea. The road is not difficult, although steep. The road to Punch branches off to the left. The path often very bad from the summit ; there is a wide prospect, especially of the Panjal range. The character of vegetation alters—grand forest trees, elms, chestnuts and deodars, etc., abound. The descent is more difficult. There is a ford, not always easy. Baramgalla is a small village shut in by mountains. The snow lies deep here in winter. The bungalow is a fair one, with five rooms and two bad bath-rooms. (For Choti Galli Route, see p. 68).

Baramgalla to Poshiana.—10 *miles*.—Coolies should be taken through from here to Hirpur and also supplies. The road follows up the Sooran torrent towards the pass. There are several waterfalls on this march, the best of which is within a few minutes' walk from the bungalow at Baramgalla. The road is a rough one, with many little ups and downs. The stream has to be crossed about ten times, and in heavy rains difficulty may be experienced, as the bridges may be washed away. Leaving the valley there is a steep ascent to Poshiana, a small village only inhabited in summer. A short cut, useful in descending from Poshiana, leads along the spur, where the main path descends to the left into the torrent bed. There is but a dirty hut for travellers, and the only level ground for tents is on the roofs of houses, or a quarter mile below the village. Supplies scanty. It is very cold at night ; elevation 8,200 feet. A better camping ground 2 miles beyond village.

Poshiana to Aliabad Serai—11 *miles*.—One-and-a-quarter mile of easy path ; then a descent of three-quarter mile into the valley. Cross the Chitta Pani, which rises in the mountains on the left, and by a *nullah* straight ahead the ascent of the pass itself begins. If the ravine be filled with snow the path keeps to it, but later in the year it zigzags up the slope on the left. The top is about six miles from Poshiana, and is 11,500 feet above the sea. The pass is worthy of its name. The summits on either side rise to 14,000 or 15,000 feet. Fir trees, and even birch, are left below. Till quite the end of May snow is abundant. As it melts, primulas and saxifrage spring up and soon the plateau is covered with rich grass and Alpine flowers. Above the pass is the region of dwarf mosses, lichens and rocks. A gentle slope leads to Aliabad, a distance of five miles. The view in front is shut off by hills. Behind, however, is a grand panorama, extending in clear weather, far over the plains from Rawalpindi to Lahore ; while nearer are the districts now become familiar by long marches and pleasant halts. The highest points of the Pir Panjal range are Tatakuti to the north-west and the Konsa Nag peaks to the east. Immediately above the pass, on north-west, is a very lofty point called "Sunset Peak." It may be climbed from the Kashmir side. The Kashmir slopes are forest-covered, and in many of the hollows, near the summits, mountain tarns testify to the glaciers which formerly ploughed over the shoulders. None of these lakes are visible from the pass. Aliabad *serai* is one of the old Moghul rest-houses, which now does duty as a staging tungalow ; but having neither doors nor windows, is most comfortless, and is also very dirty. At night high winds sweep down the pass, and make large fires a necessity. No supplies.

Aliabad Serai to Hirpur—13 *miles*.—The road continues down the valley, descending about 2,500 feet. When raining, as it often is, the path is very slippery and in places it is built upon the face of the cliff. On the way some old towers are passed, built in stormier days to defend the pass. Broken ridges and precipices clad with spruce and silver fir, rise grandly from the torrent. For the first four miles the path is irregular and stony ; then it winds along spurs high up the hill

side ; then steeply descending, a river has to be forded and soon more level ground is reached. It would be difficult to find a better camping ground than that at *Suk seria*, which may be reached from Poshiana in one day, a distance of about twenty miles. In going the opposite way the same plan may be followed. Coolies should then be taken through from Shupiyon to Baramgalla, halting at *Suk seria* the first night, and at Poshiana the next. The river, which has to be crossed and re-crossed below this, often gives difficulty. The path is lovely through fir glades and meadows, brilliant with flowers such as adorn English woods. Hirpur is a small scattered village four miles from *Suk seria*. The hills around are much lower, and, although the valley is not visible, the view widens out. There is no rest-house to Hirpur, and the best camping ground is before getting to the village.

There is some interesting scenery in the neighbourhood, especially the Haripal Falls near Sedau.

The path to Sedau leads off to the right across the wooded plateau. It is about four miles.

Hirpur to Shupiyon—8 miles.—Gradually descending the valley widens, and the hills fade away into sloping plateaux, rising only a few hundred feet above the river. The road, which is fairly good, passes along the right bank ; it soon ascends the plateau, after which there is a good road for three miles, then a short, stony piece : again fairly good for three miles ; then a stony finish. The best camping ground is among some fine trees close to the large village of Shupiyon, but is dirty. There is no bungalow. It is often very windy here at night, as the gusts sweep down from the Hirpur Valley. Shupiyon is a place of some size, situated on rising ground, from parts of which there is a wide view of the valley from Islamabad to Srinagar with the rocky snow-capped ranges beyond, bordering on Ladakh. From Shupiyon there is a choice of several routes (see page 73). There are paths from here to Pakipura and Nil Nag on the west, to Sedau and the Haribal Falls, south, to Nariwal ravine or Vernag, east, to Islamabad and Bijbehara, north-east. The main road goes north-west.

There are unmetalled roads fit for carts to Kulgam, to Bijbehara, and to Srinagar.

Shupiyon to Ramu—12 *miles*.—About three miles from Shupiyon cross stony river bed ; road then skirts low hills and over rolling ground. Two miles before reaching Ramu cross another stony valley. The bungalow was burnt many years ago. There is a good camping ground. Tsrar can be visited from here. It is about four miles south-west (see page 70).

Ramu to Srinagar—18 *miles*—The first half of the way is across shadeless *karawahs*, with a very level road, except one or two small ascents ; then, descending to the plain, soon a broad road is reached, planted on either side with poplars or *chenars*. One or two picturesque villages are passed, and a conical hill temple-crowned, is seen—this is the Takht. Nearing the city, the flood canal is crossed and the silk factory is seen on the left. Then comes a parade ground and *bazaar*. Entering Srinagar this way, the visitor will realise that he is entering a city beautifully situated, most picturesque, though dirty, and inhabited by an interesting race—the worthy capital of a country renowned throughout Asia for the charms of the scenery and the physical beauty of its people.

PUNCH ROUTE.

Early and late in the year the difficulty of crossing the lofty snow pass of the Pir Panjal induces many people to turn aside from Thana Mandi and to make a detour *via* Punch to Uri on the Murrec route. This is five marches, and on to Baramulla is two marches more. Thus from Bhimber to Baramulla is fifteen marches, but two of these are very short.

The ordinary route from Jhelum to Punch is given in Route 6, and goes *via* Kotli. Continuing the Bhimber-Rajaori route to Punch we have—

Thana Mandi to Sooran—16 *miles*.—The path soon leaves the road to Baramgalla, and, ascending steeply, crosses the Rattan Fir at a more westerly point. It then descends through the forest to the Sooran river, which is crossed by a bridge. There is a fair path, and the valley gradually opens out. The bungalow at Sooran contains four rooms and bathrooms, but is in a dismantled and dirty state. Travellers to *Punch from the Kashmir side* leave the Pir Panjal route at Baramgalla.

Baramgalla to Sooran—15 miles. Path descends steeply to the river : it is rough for two miles ; then crosses the Chitta Pani river, is better for rest of distance, except where, owing to a landship, it crosses a spur. The scenery throughout the road is splendid. There is a direct path by Choti Galli into Kashmir crossing a pass 13,500 feet high (*vide* p. 68).

Sooran to Sahri—11 miles. Path crosses the various channels of the Chitta Pani for half a mile ; next seven and-a-half miles, on the whole, easy. The main road then leads over a steepish spur, rough walking. A nearer path fords the river twice. Last two miles generally good. Best camping place is at far end of village near small branch of the river.

Sahri to Punch—9 miles. Road soon crosses Ferozepore *nullah* ; rough, three channels to cross. At the head of this *nullah* three or four passes lead into Kashmir, which are much used by goat herds and by the Punch grain-carrying coolies. The passes are crossed on the third day from Punch (see p. 67).

The rest of the road to Punch is easy and good.

The dak bungalow is below the town, and is fairly good.

Punch is the capital of Raja Puldeo Singh, cousin of the Maharaja of Kashmir, to whom he is tributary. Travellers should call on the Raja. He is a great sportsman. The palace, gardens, fort and menagerie are interesting. The height is under 3,000 feet, so the climate is hot in summer.

The hills and forests around swarm with black bear. The Raja yearly has one or two great bear drives, and from 20 to 30 are shot in a single day by four or five guns. In 1906 Lord Minto's party shot 40.

The direct routes to Jhelum or to Rawalpindi lead south-west down the valley. If going to Kashmir it is two or three days to Uri where the cart road is joined.

Punch to Kahoota—9 miles. Punch is situated at the angles of the Sooran and Bitarh rivers. Up the valley of the latter the road now turns. The river has to be crossed, and this

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is difficult when the stream is full. The baggage is sent over on elephants and then taken by coolies. Ponies or mules cannot always cross. The road is fair, but in places steep. Kahoota is situated at the foot of the ascent to the Haji Pir Pass.

The bungalow is habitable. Coolies should be taken through from here to Uri.

Kahoota to Aliabad—*8 miles*. The road ascends directly after leaving the bungalow; soon after descends to a stream then steady climb. The valley narrows, and the scenery becomes grander. There is no rest-house, nor any supplies.

Aliabad to Hydrabad—*7 miles*. This march is a steady ascent to Haji Pir Pass, 8,500 feet, on which snow often remains till the middle of May. After crossing the top there is a fine deodar and pine forest, through which the path descends to Hydrabad. The bungalow was quite destroyed by the earthquake of 1885. Camp close to the village.

Hydrabad to Uri—*10 miles*. New path has been made. Formerly this was a rough march. Three miles from Hydrabad there is a fine water-fall. After skirting the sides of the hill on the north of the river for several miles the valley opens out a little and Uri is seen, standing on a triangular plateau several hundred feet above the Jhelum. Here the Murree route is joined. (For other Punch routes, *vide* page 67 and routes at end)

CHAPTER IV.

THE GREAT WATERWAY OF KASHMIR.

THE River Jhelum, with its affluents, canals and lakes forms a sort of arterial system to the valley of Kashmir. The name by which it is known to the natives is Vyet, a corruption of the Sanskrit Vedasta. The chief root streams from which it is formed unite near the town of Islamabad. From there it is navigable to the gorge below Baramulla, a distance by water over eight miles; but as the crow flies, about sixty miles. By water the visitor finishes his long journey from Murree, or the Dogra Rulers their journey from Jammu. By water the produce of the valley is brought into Srinagar, and the manufactures of the Punjab are distributed over the country.

The best way of describing the valley is to review it as seen in a trip up the river. Let us first glance at the physical features. At Baramulla the river is about 100 yards broad and 10 feet deep on an average. It winds with smooth, but not sluggish stream between flat, marshy ground, partly protected by raised banks, but which becomes lake-like in the summer when the floods come down. At first the course is almost north and the axis of the valley is crossed. The marsh gradually expands and deepens into the Wular Lake, the largest lake in India, which is half encircled by mountains on the north side. Thence the river up to its first origin at Islamabad flows near the ridges which dominate the valley on the north-east. On both sides of its course there are flat alluvial plains, partly cultivated, partly swamp; but in either case dotted over with numerous villages. On the south side these plains are bounded by a low line of cliffs beyond which elevated plateaux called *karawals*, slope up to the Pir Panjal range of mountains. These plateaux are in some cases nearly 1,000 feet above the level of the river. At the highest part of one of them the author has found layers of semi-carbonized water-nuts (*singhara*) such as are now found so abundantly in the existing lakes, but most of these plateaux are diluvial in origin.

The river plain is apparently quite level, for the slope is very uniform. At Srinagar, which is 5,235 feet above the sea, it is about 55 feet higher than at Sopor, and at Islamabad 150 feet higher than at Srinagar. The river receives numerous tributaries along its course. Those on the left bank are usually small; they drain the slopes of the Pir Panjal. The largest are the Suknag, from the neighbourhood of Gulmarg; the Dudhganga, from Ludurmarg which flows into the south of Srinagar; the Rambiara, from the Pir Pass; and the Veshau, from Konsa Nag, which join and form a navigable stream, joining the Jhelum below Bijbehara. In most cases these rivers and their feeders cut their way deep through the alluvial plateaux bordering the mountain, but, emerging on the lower plain, become sluggish, and some of the smaller become quite lost in the marshes. The tributaries of the right bank are of greater size and importance. They drain the mountainous region north of Kashmir as far as the Zoji Pass to the north of which all the streams flow into the Indus, and on the east in the Chenab river.

The two largest tributaries are the Lidar and the Sind; other smaller ones are the Harbuji Arrah, Erin, and Bandipur streams, and Pohru river, the last of which drains the Lolab and northern slopes of the Kaj Nag. These rivers will be further described. During the winter the Jhelum becomes very low, and sandbanks almost obstruct its course, but with the rains of spring and melting of the snow it receives a great accession of volume, which continues all the summer.

THE MOUNTAIN RANGES.

Kashmir, as a mountain country only would never have attained the pre-eminence which its unrivalled combination of rich alluvial plain with lofty crags, clear streams and torrents with broad lakes, and shady *chenar* groves with tangled pine forest have secured for it. As seen from the Valley, the Pir Panjal shows an unbroken ridge from gorge at Baramulla to where the smooth summits of the Panihal range fade in the distance. This great ridge varies from 9,000 at Banihal and 11,500 at the Pir Pass to 15,000 feet at the various snow peaks which break the skyline with serrated edge, lofty cone, and rounded dome, as if they were the silvered outline of some fairy city. The highest peaks are Tutakuti, about the middle of the

range. Sunset Peak near the Panjal Pass and Brahma Sukul further south, all of which exceed 15,500 feet and remain partially snow-capped throughout the year. On the opposite side of the Valley the highest ridges are further away, but many lofty spurs rise sheer from the emerald plain, contrasting, by their rocky barrenness, with the dark forest slopes of the Pir Panjal side. As seen from Baramulla or Sopor, Mount Haramouk, 16,900 feet high, though standing back nearly twenty miles from the Valley, yet appears completely to dominate the scene; and its summit, ribbed with snow and rock, and embosoming vast snow fields, is often reflected in the still lake as if close at hand. Even its lower spurs rise 6,000 feet above the plain. Further on is seen the ridge bordering the Sind Valley, and beyond that again the top of Mahadev, near Srinagar, which is marked by the small conical hill called the Takht-i-Suleiman. As one passes up the river other mountains come in sight, notably Wastarwan, the "mighty Wastarwan" of local legend, a conical mountain connected with the ranges behind by a low neck; and so again another summit, beyond which the Lidar Valley opens, and Mount Kolahoi, 17,800 feet, is seen, twin sugar loaf peaks bearing broad snow fields and glaciers; while on the right the Valley is closed in by a profusion of precipitous crags and snow caps, whence flow the Arpat, Bring and Sandrin rivers, which unite at Kanbal to form the Jhelum.

With this slight sketch of the physical geography of the Jhelum and its surroundings, let us return to the outlet of the Valley to mention the places of interest on its banks.

RIVER JOURNEY.

Baramulla is the chief town of the Valley below Srinagar or Kumraj, as the whole district is called. It is a town of about 800 houses, situated on either bank of the Jhelum. Above the town the hills close in leaving but little space for building, and half-a-mile below it the river becomes a rapid, dashing furiously through the contracted passage left by the cliffs on each side. It is then only navigable to the strong high-sided boats used in the wood traffic. The passage of the rapid in these has been more than once accomplished by ladies, but in certain states of the river the adventure is not without risk. According to tradition and the Rajatarangini in the reign of

King Avantivarman, an engineer named Suyya attempted to deepen the river bed in this gorge in order to prevent the recurring floods. A similar but unsuccessful attempt was made by European engineers in 1902, but it has since been accomplished by the electric dredgers.

The town was almost completely overthrown by the great earthquake of 1885. Opposite the Sikh Fort, which was then ruined, there is a massive wooden bridge of the usual Kashmiri pattern; on the opposite side are the remains of an old Moghul *serai*. The town is not specially noted for any manufactures or buildings. Half-a-mile below the town, on the right bank, is an old gateway across the road, the remains of the ancient fortifications. Close by are one or two springs, impregnated with sulphuretted hydrogen, and held in some repute by the natives. The temperature of the water is uniform in winter and summer, about 65° Fahr. One mile further down, on the same side, are the remains of an old temple standing in a tank. They are very small. The neighbourhood is famed for bears early in the summer.

There is an abundant choice of boats here. Baramulla is a thriving place of business, being the chief depot of the trade with the Punjab. The orchards of the neighbourhood are famed for their apples. A direct road leads from Baramulla to Gulmarg, which will subsequently be described.

Dubgam is a little village on the right bank some six or seven miles by river above Baramulla. It is at the junction of the Pohru river from the Lolab with the Jhelum. Part of the journey to the Lolab may thus be performed by water. At Dubgam are some extensive hop plantations originally planted by the Murree Brewery Company. The house then occupied by this Manager was so completely levelled by the earthquake as to afford some ground for the popular statement that the earth opened and swallowed it up bodily. Passing up the river the low hills on the left-bank gradually merge into the open plain, and that again into marsh and lake.

Sopor.—The next place of any size is about eight miles by road, and half as much again by water from Baramulla. It is a town of about 600 houses. The river is here very broad.

There is a dispensary and a school near the bridge. Half-a-mile above is the bungalow. On the left bank is a large mosque, or rather *ziarat*, called the Shah Hamadan. Most of the houses have been re-built since the earthquake. Sopor is the starting place for trips to the Lolab, Nagmarg and Gulmarg. Although the ground around for many miles is swampy, Sopor is a bracing, healthy place. A breeze usually blows off the lake in the afternoon. Late in the summer mosquitos abound, it is the favourite resort for anglers, as the *mahseer* fishing is good.

For the Wular Lake and shores, see page 103.

During the early part of the year, and when the river is high, boats go direct from Sopor to Shadipur by the Nuru Canal avoiding the Wular Lake, or merely skirting a small portion of it. The limit of the lake is at Shahgund and Naid Khai, both of which suffered terribly from plague in 1904. East of Naid Khai is another large stretch of water. From this one canal leads north-east to below Sumbal, and from this the ancient ruins of Anderkot may be easily visited.

The Nuru Canal is more direct to Shadipur, about 8 miles, on, where the river is rejoined. A small boat leaving Paramulla very early in the morning should by this route arrive at Shadipur before sunset.

If the lake has to be crossed it is well to leave Sopor in the evening, and to moor at Ningal till early morning; as even in the finest weather the boatmen fear crossing the lake later in the day. The mouth of the Jhelum at Paniar is five hours' row from Ningal.

During the summer, if there is insufficient water in the Shadipur Canal, boats usually join the river by a small canal flowing into the lake near Madwan. This leaves the river at Hajan, a large village where there is good fishing. It is slow work travelling up the long bend of river between this and Sumbal, a large village eight miles or so upstream, where the river is crossed by a bridge.

Sumbal is the starting point for the trip by boat to the Manasbal Lake, which is partly enclosed by the low hill called Aha Tung near by.

Sumbal is a good place for fishing, and there are some fine *chenar* trees shading an encampment on the left bank near the bridge. Six miles up the river is Shadipur, on the right bank is the broad mouth of the Sind river, on the left the Nuru Canal flows out. Below this marriage of the waters (whence the name Shadipur) is a small, artificial island with a *chenar* tree, which, tradition says, never grows. There is a fine bridge over the Nuru Canal. Opposite Shadipur there is a large grove of *chenars* and a nice place for house-boats to moor in the cold Sind water, with pleasant walks.

Ganderbal, a few hours' journey up the Sind river, has a growing reputation as a good place for house-boats in the hot weather. But when the river falls in autumn there is some risk of large house-boats sticking in the sand, and only being dug out at great expense.

There are pleasant shady encamping-grounds on the banks. The Sind river is only navigable as far as Ganderbal, whence people start for the journey to Sonamarg and Ladakh. Across the marshes there is a way to Srinagar. It leads into the Anchar Lake below the city, thence by the Mar Canal to the Dhal Lake. It takes about the same time as the river route. By road it is eight miles from Shadipur to the city; by water some distance further. Approaching Srinagar, the Fort and the temple-crowned Takht-i-Suleman are well seen. House-boats are sometimes moored at Shalteng, 2 miles below the city; in some respects it is a convenient place, but the river water is rather foul, and there is no safe drinking or cooking water nearer than the city. On the left bank is a *bagh* of poplar trees called the Purana Chaoni. It was once the chief European encamping ground and is now a State timber depôt. Shalteng is a starting point for the direct route from Srinagar to Gulmarg.

CHATTARAL WEIR.

was opened in 1916 by H. H. the Maharaja below the seventh bridge. The object of the weir is to maintain a sufficient depth of water in the river Jhelum and its tributary canals—Tsunti Kuhl, Mar Nala and Kul Kuhl. It is anticipated that the weir will usually be lowered about the end of March and raised

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about the middle of September so that its completion will vastly increase facilities for navigation in and about the city of Srinagar for a period of at least six months. The weir will raise the water level to about 5,181 feet, or some 7 feet higher than its minimum level at site so that even large boats will, in future, be able to traverse the canals and enter the Dhal freely during the year.

The length of the weir is 453 feet. The lock is capable of passing boats 20 feet wide and 150 feet long.

The contract was carried out by Mr. Avery at a cost of Rs. 1,16,700

Half-a-mile above Shalteng is a customs-house, called Chatta-bal, where the road leaves the river bank and passes direct by the race course and parade-ground to the first bridge. When the river is high, boats go direct by the Kut-i-Kul Canal, which leaves the river at the Shergarhi Palace below the first bridge and rejoins it by the seventh or last bridge. The European quarters are all above the city. Some in the Chenar and Hari Singh Baghs, and others at the Moonshi Bagh, more than a mile above the first bridge.

The time taken for a journey from Baramulla to Srinagar depends very much on the state of the river and its banks, the size of the boat and number of rowers, etc. Baramulla to Sopor is half-a-day by *dunga*.

When the Nuru Canal is navigable, a *dunga* with a crew of four ought to do the journey in one-and-a-half days or less.

If the Wular has to be crossed two or more days will be spent *en route*, but house-boats travel much slower and are altogether held up by high opposing wind.

Going down the river by shikari boat the Wular Lake should be reached in eight hours ; or by the Nuru Canal, Sopor in nine hours. Baramulla is about three-and-a-half hours' journey below Sopor. *Dungas* take double this time.

CHAPTER V.

SRINAGAR AND ITS ENVIRONS.

COMING up the river, the most conspicuous point of the view is the temple-crowned hill overlooking the city. From it a bird's-eye view may be gained of the whole neighbourhood, which would give a better idea in a few minutes than any lengthy description could supply.

The Takht hill is a detached spur from the range bounding the north-east of the valley. On the east side the river skirts the mountains closely; it then sweeps round the slopes of the Takht, and, with several wide curves, flows almost due west, leaving a wide basin-like area between it and the mountains, which is occupied by the Dhal Lake. The city of Srinagar lines the banks of these wide curves for four miles, and also fills the space between the river and the Dhal Lake. Above the city, on the right bank, are the visitors' quarters. Highest up is the Sonwar Bagh, then the Moonshi Bagh; then comes the Kothi Bagh, Hari Singh and Sheikh Baghs, the latter adjoining the upper part of the city. The Moonshi Bagh is an orchard stretching for half-a-mile along the river, in which are situated the married visitors' rooms and encamping-ground, and many residents' houses. Here is ALL SAINTS' CHURCH designed and built by Sir M. Nethersole, formerly Superintending Engineer.

There is a resident Chaplain, entirely supported by the European community.

Sunday services are at 8-30, 11 A.M. and 6 P.M.

The Bishop of Lahore usually visits every second year for confirmations, etc. There is a Church Committee annually elected from the members of the congregation.

Behind the Moonshi Bagh, at the foot of the Takht, is the COTTAGE HOSPITAL with accommodation for eight European patients.

Subscriptions to help the Institution and entitling to accommodation at low rates should be sent to the Honorary Secretary. Medical attendance is also at reduced rates. Any qualified local doctor can send in European patients.

A canal leads direct from the river to the Dhal Lake. It is only navigable when the river is moderately full.

Below the Moonshi Bagh is the SRINAGAR CLUB. It contains the usual reading-room, billiard and card-rooms, and there is a large assembly room. It is a well stocked Institution, both as to books and papers.

Application for membership should be made to the Honorary Secretary.

There are temporary as well as permanent members, *vide* Rules of Club.

Behind the Club are the tennis courts.

The Residency is a palatial building with well-wooded grounds. It replaces a house injured in the earthquake. The special features of the new one are the handsome carved pillars, wainscots and ceilings. The houses of one Assistant Resident and the Residency Surgeon are on one side of the Residency, and the Post Office on the other, with the polo ground behind. This is much used for cricket and occasional gymkhanas. Behind this is the long poplar avenue, in which are situated the houses of the Commissariat Officer and the Assistant Resident; the small Roman Catholic Chapel, and the Settlement and Accountant-General's Offices.

More conspicuous is the large HOTEL, opened in 1900 by Nedou and Sons. There is extensive and comfortable private accommodation, and the public rooms are spacious.

There is no dak bungalow at Srinagar.

The golf ground is to the north of the avenue. All the old poplars have recently been cut down. Below the Residency comes the Post Office, the Tonga Agency, then the Hari Singh Bagh. On the river bank are the chief agencies and shops, and

a small village, then the Sheikh Bagh, which is an enclosed orchard containing the Cemetery, the houses of the Rev. C. E. Tyndale-Biscoe and the Mission ladies.

Opposite the Sheikh Bagh is the Lal Mandi built by the late Maharaja as a royal guest-house and banqueting hall. The chief rooms are now being used as a museum. There is a collection of Kashmir manufactures, of coins, old weapons, and an ornithological section.

Ten minutes' walk south from this on the Shupiyon road is the extensive SILK FACTORY. This has been growing year by year, and now assumes a foremost place in the manufacturing prospects of Kashmir. The silk is of high quality. It is the largest factory of its kind in the world, and is heated and lit by electric powers from Mahura.

Silk has been a very old industry in Kashmir.

In 1897 it was placed under European supervision, and a new factory built near Ram Bagh, when the outturn was about 1,000 lbs. raw silk, since then it has increased yearly the outturn being about 100,000 lbs. raw silk which gives a large profit to the State.

There are employed daily about 3,000 men, women and children at wages varying from four to two annas a day.

Besides these, this year over 12,000 men, scattered over the valley, took silk-worms' eggs from the factory, reared, and brought in their cocoons, receiving nearly two lakhs of rupees for their six weeks' labour.

The silk factory can be seen by visitors any morning.

Returning to the European quarter one or two camping-grounds and *baghs* remain to be mentioned. Half-a-mile back from the river is the Chenar Bagh, a beautiful grove of trees lining the banks of the canal which joins the Dhal Lake with the river.

The Chenar Bagh is a pleasantly cool and shady encampment, much frequented by bachelors, but has no good reputation

for healthiness. There are one or two encamping-grounds on the lake which, for beauty and salubrity, are far superior to the *baghs* in Srinagar, and which are readily accessible.

The Sonwar encampment above the Moonshi Bagh is airy and cool.

House-boats can be moved anywhere along the river front and a site reserved if electric lighting is paid for. Shade is advisable for these boats. The best is near the *island* which is also a good place for camping. A mile above the houses is the Ram Moonshi Bagh, which was a good place for boats, or tents, but houses have now been built in the best place.

Srinagar is very popular among visitors and deservedly so. For two months in the year—July and August—the climate is hot and somewhat malarious, in spite of its elevation (5,200 feet), but in the spring and autumn it is very pleasant. Those who can obtain houses naturally make Srinagar their temporary home, but even for others it is the best headquarters. The attractions of the Dhal Lake, the river and canals, make boating very enjoyable. There are few roads with pretty, or interesting, rides. For all purchases of Kashmir wares Srinagar is the only market; so that travellers, whether merely passing through to more distant parts, or sportsmen, or those who merely want change of air and pleasure, all find their natural centre in Srinagar. In this way there is a certain amount of society formed. Early in May arrangements are usually made for carrying on lawn-tennis, cricket and polo, for the short season of six weeks

Beyond these public amusements there is little society unless, perchance, the Resident is socially inclined and goes in for entertaining. Nor, with such a shifting scene as Srinagar life shows, is much society possible; as visitors are so constantly starting out on expeditions, near or far, and, as a rule, do not care for tennis parties, dinners, &c. At Gulmarg the case is different, for there life threatens to be more monotonous, and, having taken the trouble to climb 3,000 feet, people are not in a hurry to leave again. So the round of tennis, golf, races, and picnics is entered into with more vigour. Most people spend two or three months at Gulmarg.

There are many sights and places of interest, in, or about, Srinagar. The city of Srinagar contains about 120,000 people, of whom more than three-fourths are Muhammadans. It has few streets of any importance. A few years ago extensive fires laid portions of the city in ashes. In these places now paved roads have been constructed; many of the old streets have been paved, others, especially on the north side, are still narrow and filthy. But further improvements are now being carried out. The river is the chief highway. Public buildings are few.

Above the fine Amira Kadal is the State Hospital, with good accommodation for civilians as well as soldiers.

Opposite this is the Court-house. The two chief *bazars* are that at the first bridge, the Amira Kadal *bazar*, and that below the fourth bridge, called Maharaja Ganj. Below the first bridge is the Shergarhi, a large walled enclosure, containing, on the river face, the palaces and houses of some officials; behind this a *bazar* and large courtyard, beyond which are some barracks. This is worth a visit. The palace was badly injured in the great earthquake. Part of it has been re-built and the new Council Chamber and Palace are effective. The view down river from the bridge above is picturesque. The projecting balconies of the nearer houses, with their quaint wood-work; the curved front of the palace, flanked by two towers, and broken into deep light and shade by lofty pillars, balconies and windows; the massive gilt dome of the squat temple adjoining; the varied forms and colours of the State barges moored in the stream, and the long vista of broad river reflecting the irregular outlines of the city on its banks; and beyond again the fort-crowned Hari Parbat, backed by the distant mountains, sometimes grey, as in the morning, sometimes piled up with heavy storm clouds; again in the sunset light taking rich purple tones,—all this makes up a picture vivid in colouring, to which the busy passage of boats gives continual interest and life.

The new and massive building with lofty columns is the palace, and beyond the gilt temple is the fine mansion of the late Raja Sir Amar Singh, K.C.S.I., and his pretty garden villa.

Immediately below the Sher Garhi, a canal—the Kut-i-Kul—diverges to the left, cutting off a great curve in the river,

which it rejoins above the sixth bridge. On the opposite side of the river a broad canal brings in the limpid water of the Dhal Lake ; a branch of this canal goes to the Moonshi Pagh. One of the largest modern temples in Kashmir is the Maharaja's Temple, below the second bridge. Several of the chief shawl merchants' houses are on either side of the river, near the bridge. Further down, on the left bank, is the Mission High School, of which the Rev. C. E. Tyndale Biscoe is Principal. He was coxswain of a winning Cambridge crew in the Oxford and Cambridge race of 1884, and may often be seen coaching a crew of Kashmir lads on the river. The boys are good at all kinds of sport.

The Shah Hamadan Mosque, which stands on the right bank, is one of the finest specimens of Muhammadan buildings in Kashmir. It is built entirely of wood, the walls of wooden slabs being laid like bricks. There is some pretty carving in the windows. The lofty roof is surmounted by a characteristic open spire with gilded ball. From the opposite bank the mosque with the fort in the background makes a pretty picture.

Lower down, on the left bank, is the Pathar Masjid, built of limestone. It was built by Queen Nur Mahal, and it is said that, for this reason, the woman-despising Muhammadans refused to worship in it.

Below the fourth bridge is the tomb of Zain-ul-Abidin, one of the most renowned of the early Muhammadan kings of Kashmir. The tomb, now rather ruinous, is built of brick. In the enclosure are some interesting fragments and inscriptions, the oldest in Kashmir, in the Pali character, discovered by Rev. Dr. Abbott. The Maharaj Ganj, or new *bazar*, is near below on the right bank. A fine stone landing-place leads to a terrace facing the river with shops. Ten minutes' walk from here is the Juma Masjid. The Kashmir art manufactures can best be seen at Mr. Hadow's factory. This can be easily reached from the third bridge, Fattch Kadal. It is close behind the city on the left bank, about ten minutes' walk from the river. The large temple in sight, on the right bank, was erected a few years ago by the late Pandit Ram Ju, the head of one of the chief

families in Kashmir. From the sixth bridge the view up the river is specially fine. The background of mountains rising behind the fort or rather above the Dhal Lake, is seen to best advantage from about here, and towards evening the Eedgah may be visited from this point, or from the Mar Canal, in connection with which it will be described.

There is a well-equipped Dufferin Hospital on the left bank below the sixth bridge, and a little lower down is the *serai* for Yarkandis, which is worth a visit when caravans arrive there in the autumn.

There are seven bridges over the river. Their names are—1st, Pertab Singh or Amira Kadal; 2nd, Habba Kadal; 3rd Fattedh Kadal; 4th, Zeina Kadal; 5th, Ali Kadal; 6th, Naya Kadal; 7th, Saffar Kadal.

If horses were sent beforehand, to Chatsabal, the left bank below the last bridge, one could have a pleasant ride back. The road here leaves the river at right angles. A hundred yards takes one to the road from Baramulla, and then to the parade-ground—a wide grassy plain, bordered with *chenar* trees; the race-course is round it. Towards the city end is the drill-house, at the further end is the shooting range. A bridge crosses the Dudhganga close by, and the road then leads by a fine poplar avenue, a mile in length, to the *ghat* by the first bridge. The troops drill most mornings on the large parade-ground. On crossing the first bridge, the road to the poplar avenue and large parade-ground turns to the right and skirts the side of the Sher Garhi. The smaller ground is on the left and the road to it passes for two or three hundred yards down a broad *bazar*. This is the road to Shupiyan and the Pir Panjal. For the first few miles it is very good, broad and shady. Passing down it, beyond the parade-ground, we see on the right the Cavalry barracks. Further on, to the right, is the silk factory, beyond which is the wide spill canal, to prevent floods. Across this on the right hand, is a stone temple over the tomb of Gulab Singh. It stands in an enclosure with numerous apartments around for *fakirs*. Going a little further, one could return across country to the Moonshi Bagh, crossing the river in a boat. In doing so the direct road from the city to

Pam-poor will be seen. Pam-poor is seven miles up the river, and there is a fair path by which a pleasant gallop may be had, going on one-side of the river crossing at Pam-poor, and returning by the other bank. On the left bank of the river there is little more to be seen. One will usually return across the first bridge, passing through a hundred yards or so of crowded *bazar*, from which a good road, parallel to the river, leads to the polo ground and Moonshi Bagh, or, if preferred, one can canter down the poplar avenue which leads the same way.

AMAR SINGH TECHNICAL INSTITUTE.

This is situated in extensive grounds adjoining the Huzuri Bagh, not far from the left bank of the river. The institute is founded to provide training for students in the crafts of the country in Engineering and the Building arts.

This year an addition to the original fine class rooms has been made in the form of workshops for engineers, carpenters and potters where power machinery is being installed. The Principal is Mr. Fred. H. Andrews to whom application may be made to see this very interesting institution.

So far we have described the banks of the river and the roads, etc., on the left side only, as all this can easily be seen in one or two excursions.

We now pass to the excursions on the north side of the Moonshi Bagh and City. Close to the back of the Moonshi Bagh is the road from Srinagar to Pam-poor, of which more anon. This road leads across the lower slope of Takht-i-Suleiman through the village of Drogjun over the Dhal Gate, and by a causeway into the city in the direction of the fort. Keeping to the right one can thus ride to the Nasim Bagh on the Dhal Lake. Half an hour's ride from the Moonshi Bagh takes one to the fort or Hari Parbat; or keeping to the left, the city is entered, and some narrow stony roads lead to the Juma Masjid and the new *bazar*. All these places cannot be visited at the same time, and many of them are more accessible by water; so we will describe them separately.

The TAKHT-I-SULEIMAN, standing out from the higher ranges, commands a fine view up and down the valley. It rises

over 1,000 feet above the plains. It should be climbed as early in the season and as early in the day as possible. It is quite accessible to climbers from every side. Men sometimes go up the face. There are, however, three prominent ridges, each of which gives an easier ascent. That on the west starts from a cemetery, which is five minutes' walk from the Moonshi Bagh. Most of the way there are stone steps; the path is steepest at the beginning. On the east a path leads up the hill from a depression or neck, joining the Takht to the higher ridges. This path is nowhere very steep, though rather stony. Half-way up, on the right, is a small copse of *pinus excelsa*. Another easy path leads up from the corner of the lake called Gagribal. In the morning the first of these is the shadiest, and consequently the coolest. In the evening the second road is certainly preferable. Going up, the view becomes more and more extended. The panorama of the graceful curves of the river, the broad green plain, and, especially in the spring, the great snow wall of the Punjab mountains is very grand. On the west a gap in the mountains indicates the Baramula Pass, to the right of which are the *markhor* grounds of the Kaj Nag, and again to the right the snow peaks of Khagan bordering Yagistan, are visible. Nearer, a blue streak in the valley reveals the Wular Lake, to the right of which is a frowning range of precipices, culminating in the hoary Haramouk. Almost at one's feet is the city mapped into clearest relief, and the Dhal Lake reflecting brilliantly the rugged mountains which rise from its shores.

The temple at the top is of great interest. It will be described elsewhere, *vide* p. 110. There is also a covered tomb on the platform near the Temple, and just below it a *pakka* tank, now empty. There are numerous coveys of partridges on the hillside, but it is all preserved.

At the foot of the Takht, on the west, and ten minutes' walk from the Moonshi Bagh, is the Mission Hospital. This is close to the Dhal Darwaza, and is conspicuous from the polo-ground by its Geneva Cross flag and west tower. It consists of one block for out-patients (about 50,000 a year) and five pavilions for in-patients. There is accommodation for 140 beds, as well as quarters for the Lady Superintendent, the

House Surgeon, etc. Over 1,800 in-patients are received yearly and fed gratuitously. In 1914 over 5,000 operations were performed. The income derived from voluntary sources and fees is about thirty thousand rupees a year.

The pretty Hospital Chapel was designed by Sir M. Nethersole. There are three Mission Surgeons, who are always ready to show visitors over the institution, which during recent years, has been visited by Earl Roberts, Lady Lansdowne, Lady Minto, Lord Kitchener and Lord and Lady Hardinge.

One pavilion is named after Maharaja Sir Partab Singh, G.C.S.I., who, accompanied by the then Resident, Colonel Barr, C.S.I., opened it in 1893.

WATER EXPEDITIONS.

Up the river, half an hour's journey, is the Ram Moonshī Bagh. But the chief aquatic beauties of Srinagar are in connection with the canal leading to or from the lake. In order to visit the Dhal Lake one might send on the boat beforehand to the corner before mentioned, and descend that way. The waterway to the Dhal Lake is by the canal opposite the Sher Garhi Palace called the "Tsunt-i-Kul" or Apple Tree Canal. It is a broad canal, overhung by lofty *chenar* trees. Near the river, it is crossed by the Gao Kadal. In its windings the canal offers views of the Takht and the higher ranges, which, with the lovely combinations of massive foliage and clear flowing water, make the Apple Tree Canal remarkable, even in Kashmir. Nearly a mile up, the Chenar Bagh begins, and stretches for some distance along the banks. Sometimes it is entirely under water. Taking a sharp bend to the right, the canal passes to the village of Drogjun, below which is the massive gateway through which the waters escape from the lake usually but by which they are restrained and preserved from the inflow of the river water when the Jhelum suddenly rises. In the floods of 1893 and 1903 this embankment burst and much damage was done in the Dhal. The present gate, or "Dhal Darwaza" was built by Maharaja Gulab Singh. The water sometimes rushes out with great fury, making the passage dangerous to small boats. This is the chief obstacle to taking house boats into the lake, as it is not always easy to get them out, if the river is too high or too low.

When the river is high, there is plenty of water in the canal which runs to the back of the Moonshi Bagh. At other times as the passage from the Moonshi Bagh to the Dhal Darwaza takes over an hour, people send their boats round and walk or ride over. It is scarcely more than ten minutes' walk.

The whole of the area within the Dhal Gate is lake or marsh, and is intersected by a net work of canals. The chief of those are ; one, turning to the left, which leads to the city ; another which skirts the suburbs and opens into the further parts of the lake ; and the third, passing straight on by the foot of the Takht and into the nearest division of the lake.

We will visit these now in turn. Keeping to the left for half-a-mile, we pass under a bridge and, traversing a marsh enter the city. The canal is here called the Mar Nullah. It becomes very picturesque, but should only be visited when full of water, as the dirt and smell is otherwise appalling.

Near its commencement is the Dilawar Khan Bagh, with the State School. Further on the canal is overshadowed by lofty houses, some raised on piles, or with projecting balconies, many semi-ruinous, some massive and built up on the plunder of old stone temples. It is crossed by several bridges, usually heavy stone structures, two of which are covered with shops. Here and there are stone *ghats* crowded with picturesque figures. Further down the city thins, and there are gardens adjoining the canal. The canal terminates in the Anchar, an extensive shallow marsh or lake, through which there is a way to Ganderbal and the Sind river. Near its termination is the Eedgah. This is a wide park-like plain, where certain *melas* are held. At one end is the Ali Masjid, a fine mosque recently repaired. It consists of one large hall with lofty roof supported by deodar pillars. It was built in the 15th century. The Juma Masjid is best visited from the Mar Nullah. It is about half-way down on the right, and five minutes' walk from the canal. It is a fine massive building, one hundred and twenty yards square, with a grassy quadrangle in the middle. Its chief features are the rows of deodar pillars supporting the roof. Some of these stately shafts are 70 feet high. If visited on a

Friday, about midday, hundreds of men will be found filling the west side of the building and joining in the chants or responses which echo grandly through the vast corridors. The corners of the building are slightly raised and surmounted by the characteristic open wooden spires seen throughout Kashmir. They are conspicuous in many views of the city.

JAMA MASJID.

A visit to the Cathedral Mosque of Srinagar will interest visitors. The Jama Masjid should be visited at the same time as the Fort. It is situated between the south end of the Fort Hill and the 4th bridge (Zaina Kadal). The mosque was founded in 1388 A. D. (time Richard II) by Sultan Sikander Shah. It was destroyed by fire in 1462 A. D., and the reconstruction completed in 1473 by Sultan Mohamed Shah. No record of the second destruction by fire seems to be available but the third fire occurred in 1665 A. D. (Charles II). Reconstruction was undertaken by the Emperor Aurungzeb in the same year. The Emperor's work was so well executed that it has withstood until the present time. The ravages of 250 years have somewhat undermined the Emperor's excellent work, restoration work was begun in April 1916.

Outside the mosque, on the west, are some interesting tombs of former kings of Kashmir. There is also a curious miniature temple on a pillar two or three feet high. It is much the same pattern as all the old Hindu temples, but differs in having the pyramidal roof divided into three portions. It is not far from here to the Fort but it might be more convenient to ride over, specially to inspect it. A pass, which may be obtained from the Mutamid, Darbar, is necessary.

The Fort is situated on top of Hari Parbat, a long trap ridge rising 400 feet above the plain. The buildings are very poor, and the walls, though thick, by no means strong. An immense sum was spent over the outer wall by Akbar. There are a few sepoy's and some guns. The city lies chiefly to the south of the Fort Hill, and can be seen very well from it. To the west are some gardens and the ruins of

an old suburb built by Akbar. The view of the lake is specially good from here, the whole prospect is indeed very striking.

At the foot of the hill is Makhdum Shah's *ziarat*, one of the most popular of Muhammadan shrines. In times of sickness, &c., the people frequently resort to it for cure.

Since remote ages the sides of this hill have been the site of popular Hindu shrines.

On the side of the lake are the suburbs of Kraliyar and Renawari. A ruined *Shiah* mosque there marks the scene of a great riot in 1874.

Bordering an offshoot of the lake to the north of this is the Jail, where carpets, paper, &c., are manufactured. This is worth a visit. Permission should be asked from the Chief Medical Officer. The Leper Asylum, of which mention is made on the next page, is close by, and may be reached by ferry boat. The *ghat* below is known as Kujiyarbal. The whole *mohala*, or district close by the fort, appears to be called Kilainada.

There is a very direct road from the fort to the Moonshi Bagh *via* Drogjun. From this road, near the fort, two others branch off east, one of which crosses the canal by the stone bridge called Naiwidyar and thence by a winding path through the marshes and by an artificial causeway, the *Sutoo*, across the lake opposite the Nishat Bagh to the village of Ishbar, half-way between the Nishat and Shalimar Gardens. This road now brings the water to the city from the reservoir near the Nishat Bagh, and has been raised and made fit for riding. There is a good road skirting the lake to the same places, so that the *Sutoo* is little used.

Another road, crossing the Bata Kadal, goes by a causeway to Hazrat Bal and the Nasim Bagh. This is marked by signposts from the Dhal Darwaza for several miles.

THE DHAL LAKE.

The Dhal Lake is a lake measuring five miles from north to south, and two miles from west to east ; it is in parts shallow, and inclining to be marshy : in other parts deeper, and everywhere it is of the clearest water. On three sides a mountainous amphitheatre backs it whose summit is from 3,000 to 4,000 feet

above the water. On the ground, at the foot of these mountains, at the edge of the lake, are numerous villages surrounded by orchards, and the several renowned gardens constructed by the Delhi Emperors. Westwards, towards the open flat, are first, the floating gardens—gardens made of earth and vegetable matter accumulated on water plants, then the half reclaimed marsh, alternate strips of shallow water and made ground, and then the city. The Dhal is not one sheet of water, but is divided by causeways and projecting marsh land into three distinct portions; it is, moreover, so covered with aquatic plants, that but little open water is visible by the end of the summer. Passing up the Nasim Bagh Canal in a small boat, it takes about an hour from the Dhal Gate to the lake. At first the canal passes between small fields and orchards, then a mile from the gate comes the village of Renawari. On the left a temple stands on out into the water. Close by is a busy landing place, where much of the lake produce is sold; then passing under a picturesque wooden bridge, and through the village, the three-arched stone bridge, called the Naiwidyar, is seen crossing the canal. The canal here branches, one portion the said Kadal Nullah turning to the left. On its bank is an old ruined mosque called Hassanabad. It was one of the few stone mosques in Kashmir. Close by it are numerous graves of kings and nobles of the 13th and 14th centuries. This canal opens out into a series of wide lakelets, extending round the foot of Hari Parbat.

The State Leper Asylum occupies one of the higher outjutting points of land; an admirably isolated and healthy position. It is under the superintendence of the Mission Surgeons. It has accommodation for 120 lepers. Some have been cured.

The main canal passes straight on through willow groves and gardens—alternating with open spaces of water for two miles, and then opens into the lake. On the edge of the lake is a village with the large mosque called Hazrat Bal, from the supposed hair of the Prophet which is kept there, and shown on certain grand *mō'a* days when half the city gathers to it. The Nasim Bagh* is a little further on. It is a fine park-like

*Vide Appendix II, Moghul Gardens, p. 228.

expanse, closely planted with magnificent *chenar* trees. It is well raised above the lake, and catches the breezes, from whence its name is derived. In the early summer months, before mosquitos have become a pest, there is no more delightful encampment. Of recent years some yachts have been built; and their owners camp here for the sake of the sailing. There have sometimes been regattas. The masonry terraces and the fountains have disappeared, but the trees are in their prime, and the view from under their dense shade, across the open expanse of the lake, and up to the snow streaked top of Mahadev, is exquisite. In the middle of this part of the lake is the *Sona Lanka* or Char Chenar Island, an artificial island about forty yards square, banked up by masonry. Past the Nasim Pagh is a village and some large houses; near by is an oil manufactory. At this corner of the lake flows in the Telbal river, or, properly speaking, the river Arrah. Boats can go up it for two miles; it is exceedingly pretty, and there is good fishing. The water is intensely cold. The canal to the Shalimar Gardens is a mile east of this, and the canal itself is a mile in length. The *Shali Bagh*, as it is called by the Kashmiris, is a large walled enclosure on the sloping ground at the foot of the narrow valley which here emerges from the ranges encircling the lake. There are four terraces planted with orchard and *chenar* trees. An avenue borders the long line of tanks down the middle. At the end of each terrace is a waterfall flanked by a summer-house. On the upper terrace is a fine hall surrounded by water and fountains. The pillars of the verandah consist of polished black marble from Pampoor. Formerly, the upper part of the gardens, whose name means the "Abode of Love," was set apart for the Emperor's Zenana. The place is worthy of Jehangir's fair Queen, Nur Mahal, to whose love of scenery and taste the Moghul gardens in Kashmir bear witness. Some years ago the banquet given on the King's Birthday was occasionally at the Shalimar Bagh. The weird scene on such occasions, where the glitter of myriads of lamps illuminated the brilliant dresses and fair faces, and the splash of the fountains, mingled with the songs of the dancers, will live long in one's memory. On one side of the garden is a heronry. In the court of the ladies close to the further side is a Turkish bath. The

approach to the gardens is haunted by clouds of mosquitoes, which in summer evenings are a veritable plague. Horses might be sent out here. It would then be only twenty minutes' ride to the head of the water-works at Harwan. By motor car it is only half an hour from Srinagar. The reservoir lake was constructed by throwing a solid earth and masonry embankment across the Valley. Surplus water escaped by a bye-wash, 100 yards broad, with two pretty cascades. The area of the lake was about twenty-five acres and its depth 30 feet. But since 1904 when the dam broke less water is stored. A covered masonry canal is taken off at the water tower, and winds round the mountain slopes to the settling tank at the Nishat Bagh.

In order to absolutely guarantee the purity of the water and safety of a city so liable to cholera epidemics as Srinagar, it was felt necessary in 1901 to remove every human habitation and stop all cultivation in the valley above the reservoir. Even shepherds are not allowed to graze their flocks, so this grand catchment area of at least 150 square miles, much of which is under snow for half the year is now free from any possible source of contamination, so that the water supplied to the city need not be boiled.

It is in the canal and river above the reservoir that the trout breeding has been carried on.

The lake with its dark green water, reflecting the lofty peaks of Mahadev, is one of the prettiest sheets of water in Kashmir. There is good fishing below the bye-wash. By road it is 11 miles to the Amira Kadal. The road is a good and interesting one, and so it is less fatiguing to go by motor than by boat, but we continue the description of the water circuit.

Passing from Shalimar to the Nishat Bagh*, the boat goes under a stone bridge, where the *Sutco* crosses the lake and then enters the middle and longest portion of the lake. Immediately facing the bridge is the Nishat Bagh, or "Garden of Gladness," terraced up the steep slopes of the hill. There is a large house fronting the lake: then a series of terraces with waterfalls and fountains which, as a rule, are only playing on Sundays. The upper platforms are covered with

* *Vide* Appendix II, Note on Moghul Gardens, p. 228.

stately *chenar* trees, and the waterfalls are of considerable height. The top is high above the lake and commands a grand view across the Valley. This is the prettiest place on the lake for a picnic, and has the advantage of being nearer than the Shalimar Bagh. Returning from the Nishat Bagh, the boat traverses the whole length of the lake. Near the middle of this portion is the *Rupa Lanka*, an artificial island with a few small trees. Half way between this and the Takht is a narrow strait through which the southern part of the lake is entered, and then keeping to the right, round the corner of the Takht one enters the canal leading to the Dhal Darwaza, which is less than a mile further on.

The places of interest around the SOUTH END of the lake may be easily reached by road. A bridle-path leads around the edge of the Takht, and is perhaps the prettiest ride in Srinagar. The carriage road along the south side of the Takht crosses the low neck by which it is joined to the higher hills, and skirts the lake. From the Moonshi Bagh to this neck, or the GAP, as it is called (Kashmiri, *Ait-gaj*) is twenty minutes' walk. From it a wide view is gained over the Valley and over the lake. On the left, at the foot of the Takht, is Gup-kar, the distillery and wine manufactory. This name is probably derived from Gopaditya, a sixth century king. Below it on the lake shore, is a pretty grove of plane-trees. Continuing the main road to the right it passes several country houses with beautiful grounds, usually occupied in the summer by European visitors. Then comes the pretty village of Thid. A massive building, high up the mountain side, further on is the Peri Mahal. It was probably erected by Sufi Muhammadans for astronomical or astrological purposes about 1650 A. D. It consists simply of some massive terraces with recesses in the walls, some remains of tanks and summer-houses. The Valley beyond this, in the bay of the mountains, is partly covered with vineyards; above which is the Chashma Shahi,* a garden of the usual Mughal plan, placed there on account of the beautiful and copious spring which here bubbles up. The lodge at the front of the garden has been recently rebuilt. The gardens were in charge of a scientific French horticulturist, to whose

* Vide Appendix II, Note on Mogul Gardens, p. 228.

skill their success was due. Better qualities of fruit are also being successfully introduced. The road to the Nishat Bagh is a good one and very pretty. From the Moonshi Bagh to Chashma Shahi is about three miles, thence to the Nishat Bagh two miles, and from the Nishat to Shalimar two miles. A rider might return by the Nasim Bagh and fort, but if this is too far the *Sutoc* or embankment across the lake offers a much nearer alternative return road from Ishbal, the first village beyond the Nishat Bagh.

The Valley above the Shalimar Gardens is pretty. It is a pleasant but rough ride to follow the water-course supplying the Nishat Bagh round the corner of the hill towards Panzgam.

Enterprising walkers and climbers will find several paths by which the mountains above the lake may be crossed, either from the gap, the Chashma Shahi or the village of Bren; descending either to the Panzgam Valley just mentioned, or the southern slopes toward Pampur Zebanwan, one of the higher points, is 9,000 feet above the sea, and commands a grand panoramic view. The path up it goes straight up from the gap along the ridge, or a better one goes from the Peri Mahal. Quick climbers will do it in two and-a-half hours.

From the *Chashma Shahi* another long and easy ridge leads up to the *Twin Peaks*.

From *Bren* village an hour's walk up the slope leads to Baba Ghulam Din's *ziarat*. Thence there are two paths. One turns north up a steep ravine. It is two hours' walk to the top. It is possible to walk along the ridges in either direction. The path continues down a pretty ravine north where there is water. To the foot would take two hours. At the corner of the Valley are the Water-works at Harwan.

The other path from Baba Ghulam Din's *ziarat* ascends to the east. It is two-and-a-half hours to the top of the ridge. The path continues down to the village of Khonmu in the open Pampur Valley. From the top of the ridge it is half an hour up to the summit of the mountain on the north. This is the highest point of the whole ridge (9,400 feet), and gives a splendid view.

From the village of Ishbar beyond the Nishat Bagh there is a path to the top of the ridge. This was formerly the site of a shrine, Suresvari, and half-way up is the sacred spring Satadhara.

There is another path which leads up the Water-works Valley to Dachgam, from there it crosses a low col. (2,000 feet) to the Pampur Valley near Khonmu about 8 miles from the Harwan reservoir.

Pedestrians should always take drinking-water up these mountains.

Mount Mahadeo (about 13,000 feet) rises behind the Shalimar Gardens. Hindus make a yearly pilgrimage to one of its lower peaks.

Several Europeans have climbed it of recent years.

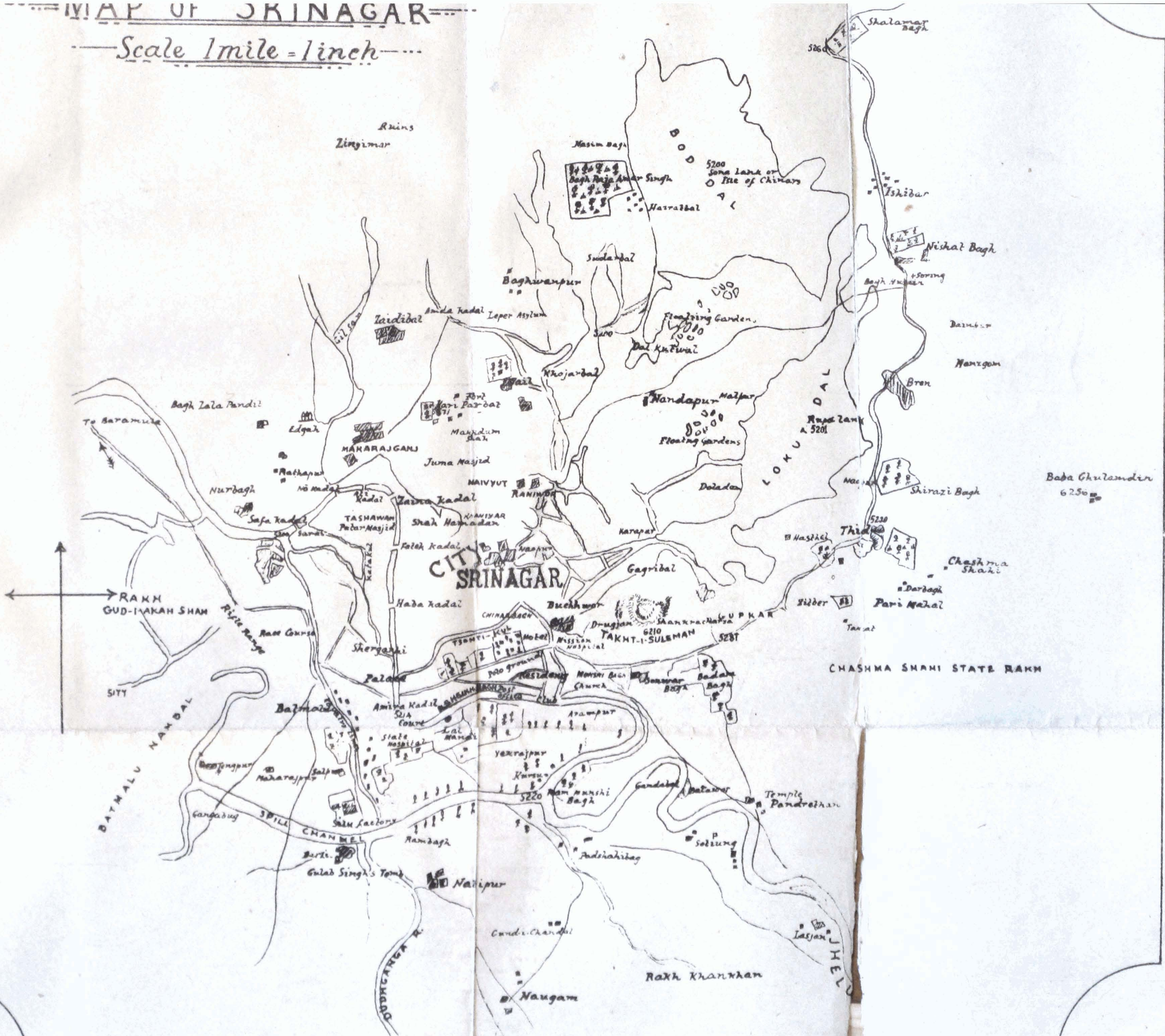
The Hindu route follows the Valley above the reservoir for two miles, then ascends a steep grassy spur. A much better route is the following:— 1st day camp at Dara village one hour north of the reservoir. Height 6,200 feet. 2nd day turn east up a narrow ravine, a fair path on right bank of stream. Two hours on are Gujar huts. Path then crosses and ascends more: through sparse forest. One hour on it leaves the stream, and ascends more steeply a grassy slope on the north side. At 10,000 feet are Gujar huts on a small steep *marq* Ledwas, with pine forest. Good water. Here camp. It is easy to go to the west summit of Mahadeo the same day. A higher peak, Handil 13,273 feet with fine central position overlooking the Sind Valley is north-east of Ledwas about three hours' climb, and up the same Valley is a shepherd's path to Jajimarg and the Lidar.

By this it is 3 days from Dara to Lidarwat, pages 91-92.

Coolies for this expedition should be taken from Shali Bagh and Harwan; *rassad* should be taken for them.

MAP OF SRINAGAR

Scale 1 mile = 1 inch



CHAPTER VI.

GULMARG AND THE PANJAL RANGES.

FROM Srinagar we turn to Gulmarg. Looking straight down the river from the Moonshi Bagh, it will be seen that the western end of the Panjal Range is a rounded mountain, usually partly covered with snow. If the day be clear, half-way down that mountain a dark pine-clad ridge will be seen extending horizontally round the slopes, and with good glasses it is possible to see, among the trees crowning the ridge, a few huts. This is the outer ridge of the broad basin-like depression called Gulmarg—the Meadow of Roses.

Gulmarg is about 8,500 feet above the sea. The mountain meadow, to which the name properly belongs, is about two miles long, in places half a mile broad, and is somewhat crescent-shaped. There is ample level ground for a race-course, polo ground, etc., by the side of which is a stream. On either side are rolling hillocks with scanty pine clumps, which merge on the outer or eastern edge into the low fir-clad ridge overlooking the plain; and on the inner side into the dense forest covering the slope of the mountain which rises behind. To the north, a succession of similar meadows extends round the mountain side. Directly above Gulmarg, at the forest limit, is another space called Killanmarg—the Meadow of Goats. A large number of huts have been built by visitors on the wooded knolls round Gulmarg, and especially on the ridge overlooking the plain. Of the late years the Resident and most of the visitors have gone up there. There is a Church, Library, Post Office, Telegraph Office and Bazar. In June the place springs suddenly into life, and by the end of September it is again deserted.

There is a fairly comfortable hotel kept by Mr. Nedou with a large room used for concerts, etc. The Church is on a knoll just below. The Maharaja and other Kashmir nobles and officials now have residences there.

*For list of available huts see Visitors Rules or
apply to P. Appleford, Esq.*

The usual season rate for a furnished four-roomed hut is: from Rs. 500 to 600 upwards according to size and furniture. Most of the visitors' huts are bespoken early a year before, but there is ample space for erecting new ones or for camping. A circular road, commanding views across the Valley, runs level for four miles outside the ridge.

The climate would be delightful but for the frequent rain, which is, at least, three times as much as at Srinagar. The scenery and flowers are lovely. In natural advantages it is immensely superior to other Himalayan hill-stations. The views across the Valley in clear weather, including the Wular Lake and the great snow-capped mural ridges beyond, are magnificent. The Nanga Parbat, a snowy peak, nearly 27,000 feet high, ninety miles to the north, is beautifully seen and may well fascinate even those who have seen Kinchinjunga from Darjeeling. The *margs* are covered with herds and flocks, which are gradually driven to higher pastures during the summer and descend in autumn to the Valley. Gulmarg is but one of many mountain meadows found at different elevations on the northern slopes of the Pir Panjal. The elevated plateaux or *karewahs*, which extend to the foot of the hills are usually cultivated with maize, etc., to about 6,500 feet about the sea. At this point the forest begins, and there are usually pretty meadows bordering or interspersed among the lower forest slopes. Between the Ferozepore Nullah, below Gulmarg, and Hirpur in the Pir Panjal Valley, there is scarcely five miles without such meadows, some being of large extent. In most places the rivers from the snowy Panjal cut their way deeply through the forest-clad ridges; and behind these ridges at elevations from 8,000 to 12,000 feet, are broad, gently sloping pastures, similar to Gulmarg. The largest of these *margs* is the Toshmaidan, some ten miles south-east of Gulmarg. Further down the range might be mentioned Ludur Marg, Sangarwini, Kangwatan, etc.; some of them are decidedly prettier than Gulmarg, though none are so suitable for the purposes of a general sanitarium. The higher *margs* are under snow till

midsummer. Many of these contain large ponds or lakes. The largest of these is Kousa Nag, of which more hereafter.

ROUTES TO GULMARG

Visitors to Gulmarg should make all transport arrangements some time beforehand. Luggage will go by *ekkas* to Tangmarg, and most people go by motor. Some go by Bareilly cart starting in the evening breaking the journey at Margam, and arriving early next day at Gulmarg.

I.--(1) **Srinagar to Margam**, 14 *miles*.—The direct road is by far the most convenient way for travellers from Srinagar. It turns off from the Paramula road about eight miles from Srinagar, and crosses the flood canal and the Suknag stream, thence leads across the level plains by Mazahama and Margam, where there is a rest-house and shady encamping-ground. There is a Takidar, and supplies can be obtained. There is a large good dak bungalow. Mosquitoes may be troublesome.

(2) **Margam to Gulmarg**, 13 *miles*.—The road ascends steadily across the plateau or along the banks of streams passing numerous hamlets. Carts can only go to the foot of the mountain (ten miles) Tangmarg where there is a *serai*, with special arrangements, for riding ponies, *kahars* and *coolies*. There is a small dak bungalow. A bridle path at a much steeper gradient for the last three miles enters the *marg* by a gully below the Residency. On the left of this is the Residency Surgeon's house. There is a shorter footpath which ascends steeply and enters the *marg* near the bazar. The ascent from Tangmarg is about 1,500 feet. It is rather muddy in wet weather: but in fine, it is a beautiful forest path.

II.—**Another route is via Palhallan**.—This is a small village, accessible by boat from Shadipur, and about eight hours' journey below Srinagar. As the canal crosses the marshes it is infested by mosquitoes. If many *coolies* are quickly wanted, it is necessary to send word to the Tahsildar of Baramula two days before. Palhallan is near Pattan, the stage between Baramula and Srinagar. The temples there are worth a visit. One of them was almost overthrown by the last earthquake.

and the ground near by was deeply fissured. A hundred people were also killed in this village. Pattan is, however, quite two miles off the road from Palhallan to Gulmarg, which, on reaching the foot of the *karewahs*, turns to the right for a mile or so, crossing a fair sized stream, then leaves the Baramula road and turns to the left towards the mountains; it passes through a village, then mounts the *karewahs*. It is a pleasant riding road. The distance to Babamarishi is about fourteen miles.

Several villages are passed through. The path is steep in places, especially in the last two miles, which are through pine forest. Pabamarishi is a large *ziarat* or shrine, named after Paba Pam Din, a noted *rishi* or ascetic, who flourished in the time of the Delhi Emperors. There is a large building inhabited by the present *rishis*, and a range of guest-houses accommodating the numerous pilgrims to the shrine. In front of the monastery is a small open room for European travellers.

Babamarishi is 7,000 feet above the sea. The climate is fairly cool. Some, for whom Gulmarg is too high, may find it a pleasant encamping-ground. From Babamarishi a well made bridle-path winds at a fairly easy gradient round the mountain to the left; ascending steadily, the view extends. It is about three miles to the top of the ridge, where it crosses the circular road, and enters Gulmarg close to the chief bazar. Another path from Babamarishi turns to the right and zigzagging up the hill emerges from the forest on to a beautiful glade, whence a fairly level, grassy path follows up the stream to Gulmarg which it enters at the further end from the bazar. This is one or two miles longer than the new road.

III.—**From Sopor via Kontra**, *two marches*.—Sopor is one day's journey by boat from Srinagar. Coolies for the journey can be easily got, and also supplies.

(1). **Sopor to Kontra**, *14 miles*.—The road with a general south by west direction, winds across the flat for five miles; then entering the narrow valley between *karewahs* gradually ascends, crossing the Baramula-Srinagar road, and passing the villages of Naopur, Wogra, Minnegam, etc. In places it is very pretty. From Minnegam the path winds along the

side of wooded hills. At Kontra there is a good encamping-ground. In the ravines about here there are bears at the time when fruit and crops are ripening.

(2) **Kontra to Gulmarg**, 8 miles.—The road ascends, crosses a low ridge, then follows up a pretty glen, called Nambalnar. Three miles on the ascent becomes steeper. It is then about two miles on to Babamarishi, where the Palhallan route is joined. (See above.)

IV.—**From Baramulla via Kontra**, *two marches*.—

(1) **Baramulla to Kontra**, 9 miles.—From Baramulla the path, striking almost due east, winds first easily, then steeply up the ridge to Gohan, a distance of four miles. It then keeps to the top of this ridge, whence there is a fine prospect; and joining near Shimlaran, the path already mentioned, turns east and gradually descends into a *nullah*, on the opposite side of which, amid a grove of walnut trees, is the village of Kontra. Here the road from Sopor is joined. (See above.)

(2) **From Chota Kashmir**.—Five miles from Baramulla by the first tonga dak house, a path turns to the east, round the foot of the forests, and passes by the village of Badahama up a pretty wooded valley. Five miles up this valley are several villages, in the immediate neighbourhood of which is a large chasm made by the earthquake of 1885. Here the village of Laridura was annihilated. This is well worth a visit. There are many places suitable for camping, either here or over the low ridge above, at a village called Shimlaran. The second march to Gulmarg joins shortly the path from Baramulla, and, crossing a low *nullah*, goes, *via* Kontra and Babamarishi, to Gulmarg.

V.—**From Rampur**, *two marches*.—(1) To camp (? Somar Ali), *twelve* miles, about. To Naoshahra on the cart-road is five miles (see Murree road). The path then turns up a steep ascent through the village, and then up the left-hand side of the ravine through deciduous forest. After about one-and-a-half hours' ascending the path becomes less steep for the next hour, but then again comes a long stiff zigzag ascent, which in wet weather is very slippery. Ladies should only come this route, or horses be taken, in very fine dry weather. Coolies would be taken from Rampur. The ascent is not less than 4,000 feet. Close beyond the top is a large *marg* with some Gujar huts, and a torrent below. Here camp. Height about 9,500 feet.

(2) **Camp to Gulmarg**, *about 10 miles*.—The path in places is fairly level, but has frequent ups and downs; it leads north-east and then east through a succession of *margs* and fine forests, and crosses several streams. The path leaves the extensive Lilanmarg on the right half way, and finally enters Gulmarg below Dhobi Ghat.

EXCURSIONS FROM GULMARG.

1. See Map No. 28, 34° N. 74'20 E. The mountain above Gulmarg, *Apharwat*, rises to 14,500 feet above the sea. This is nearly five hours' climb above Gulmarg, and three hours above Killanmarg. There are two *paths to Killanmarg*—one from Dhobi Ghat, at the north-west corner of the race-course, the other at the upper south-west corner of the meadow. Both these paths are cattle tracks leading directly up the forest slopes. The second one passes through one or two small meadows and a Gujar encampment. The climb can be done in an hour to the upper edge of the forest. The *marg* slopes up gradually and is covered with Alpine flowers. At the upper side there are usually many old beds of *nevé* (frozen snow) where I have seen tobogganning in July.

From the south upper corner a path may be seen ascending steadily to the left, and crossing the lower corner of the ridge, which it strikes at a height of 12,500 feet.

This is *the bridle path to the Ferozepore Pass and to Punch*. It may be seen from this ridge to wind along the grassy slopes of the valley to the south; travellers would encamp at the bottom of the valley and, crossing the Ferozepore Pass next morning, would descend to the little village of Gagri; thence it is two rough marches to Punch.

From the point *where the Ferozepore route crosses the ridge*, it is about an hour-and-a-half's climb to the top of the mountain or rather to that portion of it seen from Gulmarg; for the real summit (height 14,800 feet) stands a mile back from the ridge. The deep hollows on the north side contain two small tarns, which are frozen, till far on in the summer.

2. *These little lakelets* may be visited by another path, this follows the ordinary route past Dhobi Ghat towards Ram _

pur for one hour, then turns up a narrow ravine by a well marked track. It is more than two hours' climb to the little meadow and shepherd's hut, called *Allipathar*. Crossing this, and keeping round the shoulder of the hill, the path enters the long grassy valley, at the head of which are the lakelets, still two hours' ascent beyond *Allipathar*. The valley is called Gagrimgarg, and the lakelets Gagrimgarg. This is a long day's work.

While the ravines above Killanmarg are full of snow, the best route down from the top is by glissading. I have thus come down in twenty-five minutes, a distance it took four hours to ascend.

3. *The Ferozepore Nullah* is the deep valley below the Residency. The gradual descent of 1,200 feet takes about an hour. Thence a pretty path along the bottom of the valley leads in about an hour to where the valley bifurcates. Here is a charming spot for an encampment or picnic, there is also fishing. From here *the valley leading west* is that to the Ferozepore Passes. The precarious footpath skirts the rough ground at the foot of the precipices, and lies in places on snow which accumulates to a great depth and resists the summer heat. Where the river burrows its way under these snow masses it forms picturesque snow caverns and tunnels, best seen from the upper entrance, and about the end of June.

4. Some miles further up, five hours from Gulmarg, is Banibali Nag; height 9,600 feet, a small lakelet formed by landslips. From this place there is an alternative route back by the ridge above Killanmarg. The path up the valley soon joins the ordinary Ferozepore route.

The whole circuit has been walked in eight hours.

5. Below Banibali Nag three ravines join--that to the left (south-east) leads to *Kantar Nag*, a lakelet on top of the mountain (13,250 feet) from which there is a view over the Punch side.

The first day from Gulmarg the camp should be pitched up this ravine above the forest limit, at about 11,500 feet. The next day the lakelet and pass can be visited, and return to Gulmarg. The return journey from the camp would take about six hours.

6. Another two days' excursion might be made to *Zamir Pass*. This is by the Ferozepore Nullah to its bifurcation and then up the *valley south-west*. It is two-and-a-half hours to the junction, where there is a log bridge.

Then a steep ascent of 300 feet in forest. One hour to Gujar huts. Beyond this often remains of old snow-bridge (height 8,000 feet). Keep up main valley to right on cattle tracks one hour. Ascend through forest and grass slopes two hours to shepherds' huts, close to prominent pine knoll. Here camp height 11,000 feet. Next day the Zamir Pass can be visited. There is some very rough boulder work at the head of the ravine which the path on right avoids. Return to Gulmarg from camp in five hours.

7. It is a longer excursion *to the Toshmaidan*, 33°55 N., 74°35 E., and the journey may be continued *right along the upper margs to the Pir Panjal Pass*. The chief difficulty is in arranging for coolies and supplies. Of course there are no regular bridle roads, and only cattle-tracks from one shepherd encampment to the next.

Probably the best plan would be to make a private arrangement for baggage ponies, starting from Ferozepore, Kagor Drang.

The following brief account of a trip by the author would enable a pedestrian, with the help of a good map, to find his way. The Kashmiri shepherds only knew the few miles nearest their own grazing grounds. We went by map chiefly. Milk and sheep are the only supplies to be got.

First day.—Gulmarg to camp (Bandi), ten hours, including halts.

Path up Ferozepore Nullah, as in route to Zamir Pass. Near old snow-bridge cross stream. Then keep to the left (east) up side of valley. Steady ascent to 10,000 feet in forest, then on *margs*, with the mountain on the right, and low grass ridges on the left. Two miles beyond edge of trees is shepherds' encampment (Bandi). A good pedestrian might go from Gulmarg to Toshmaidan in a day, but coolies would not keep up.

Another route is down to Tangmarg, cross the river, turn to the right, then by mountain paths ascend through the forest to a ruined tower, and then to Daswanmarg and Vehinar ; camp ; then next day by Pejan over the Kral Nangal Pass.

Second day.—Start from Bandi north-east, ascending 800 feet to a grassy ridge. In front to the left is a grassy valley and *marg* with huts and a canal. Keep east along slopes, descend to and follow up the valley. At the head turn north, then north-east to top of the Kral Nangal Pass, about 12,200 feet. From this a magnificent mountain view east and north-east. Descend 2,000 feet to a vast rolling grassy plain dotted with cattle and shepherds' huts. This is the Toshmaidan. The best camps would be on the ridge to its north, where there is shade as well as water. We crossed the ridge marked Lal Alam Shah. An easier path would be lower down to the *marg* and Gujar village, called Hakakhal, from which an easy ascent to the shepherds' huts at Dorian where we camped, height 9,500 feet. Ten hours' including halts, see also page 72.

This is one of the most beautiful and secluded of *margs*. Large cattle-tracks lead over into Punch from here as well as from the Toshmaidan. (See page 68).

Third day.—An easy gradual ascent (three hours) over the shoulder behind Chanz, a rounded hill marked in map Chagga, then cross the ravine ; a bridge over river from Tatakuti mountain (this bridge has long been in disrepair), then several miles of almost level moorland, *Diskhal*, height 11,000 feet. Drop down through forest to head of canal Mitskan, cross Sangsofed river. Thras Nag, height 9,800 feet. Here are some Gujar huts in an open *marg*. A fine spring, not far off, whence the name. Total five hours, including halts.

Fourth day.—Descend *via* Yusimarg to Nilnag (two-and-a-half hours), or following down Yusimarg to Pakipur (four hours). Here there is a *ziarat* and village with few shops ; camp above village near canal in walnut grove.

For Pakipur or Nilnag, *vide* section below.

SOUTHERN KASHMIR.

The whole Pir Panjal range from the spurs above Baramulla to the Banihal Pass is wooded with grassy glades at intervals, and the slopes are generally very easy.

At the foot are plateaux intersected by deep ravines. Above come the forests ; then the upper *margs*, many of them as level as Gulmarg ; then grassy slopes leading up the easy outstanding spurs, and narrow valley running to the more difficult rocky and snowy summits of the watershed.

Wild and jagged as is the lofty ridge, it looks from a distance merely a serrated line. None of the passes, except the Pir Panjal Pass, are below 13,000 feet, and most of the higher points are between 15,000 and 15,600 feet.

Some years ago all the peaks of this range were virgin. Several of the highest have now been ascended, the Toshmaidan Peak, also Tatakuti, Sunset Peak, and one or two others. Some are so easy that a pony might be ridden up, others require skilled cragsmen with ropes, and many hours hard work from the nearest possible camping ground.

Lakelets.—There is glacial snow in many of the highest hollows, with numerous tarns, between 12,000 and 14,000 feet formed by old glacial moraines. Such are Gagri Nag (p. 67) above Gulmarg, and Kantar Nag (p. 67). Further east are ten or twelve others. The largest of all is Konsa Nag (p. 75).

Passes.—There are passes used by goatherds every ten miles or so ; these all lead down to the Suran river.

At the head of the Ferozepore Nallah are three, one of which is used for laden ponies (see p. 67).

From the Toshmaidan there are two easy passes ; it is one day only to the nearest village on the Punch side.

In olden days Kashmir kings more than once took refuge from rivals in forts south of these passes above Mandi. There are some old robber towers on the Kashmir side, one at the Toshmaidan overlooking Kag and one Lal Khan's Kila, further north-west, looking towards Ferozepore.

1. Toshmaidan to Nala Nar, ten hours, with coolies.—Slow easy ascent. Five hours to Nandan Sar. One hour to top of pass, 13,500 feet ; steep descent, 2,500 feet, to a shepherd's hut.

2. Nala Nar to Gagri.—Five hours' steep descent through forest ; huge rocks ; cliffs festooned with creepers and ferns. Scattered villages. Here join other routes from Ferozepore Pass.

The next march is to *Mandi*, a large village 33°47' N., 74°20' E. The road is rough, but picturesque. Thence to Punch.

II.—A better path, by which Kashmiris take cattle and laden ponies, is from—

1. **Dorien to Nurpur**, *above six hours*.—Dorien is a Gujar village one march from Riyar, see also page 72.

Thence it is an easy grassy ascent to the Nurpur Pass above 13,000 feet high, and one-and-a-half hours down to the village of Nurpur, only inhabited in summer.

2. **Nurpur to Lohrin**, *six hours*—Path steep and rough in places, through fine forest scenery. Lohrin has been identified by Dr. Stein with the ancient Lohara which played an important part in Kashmir history as the ancestral home and stronghold of a dynasty in the 10th and 11th centuries. From Lohrin it is about three hours to Mandi and another long stage to PUNCH. The author came from the Punch side. It took the coolies altogether eleven hours from Mandi to Nurpur, and thence five hours to Chanz; and six hours down to Gogijatri (Nilnag).

III.—Further east is—

THE CHOTI GALLI PASS. From the Punch side it starts from the usual Pir Panjal route.

(1). From *Baramgalla*.—Descend to river; cross it; a long spur leads due north (the Pir Panjal route is to north-east). Follow Gujar path five hours to some huts in pine forest. Water is near.

(2). **Camp to Hilan** (a camping ground).—Still up the same main spur. Ascend above forest. Camp by big shelter rock. Water is half a mile off in ravine below. Total distance eight hours.

In descending these two marches would only take six hours.

(3). **Hilan to Ludurmarg**.—A steep ascent, partly on snow, up ravine three hours to top of pass (14,500 feet); then turn north-west down snow beds, one hour to meadows (Chits-Kanyi Nar), then two hours to Ludurmarg, passing goatherds' huts; then up to right on to a sloping plateau; which follow down to edge of pine forest, where are scattered huts. Total distance six hours.

(4). **Ludurmarg to Nil Nag**, *five hours*.—A descent through forest across Yusimarg; then steep descent to the lakelet of Nil Nag.

(5). **to Srinagar**, *20 miles*.—(See page 73).

This route is more direct than the Pir Panjal Pass, but is rough going up and over the high pass.

From *Srinagar* the best bridle paths to the foot of the southern mountains are—

(1). **Via Margam**, 14 miles (see Gulmarg road, page 63).—*Margam to Kag*, 10 miles.—Kag is a large village, height 7,000 feet; a camping ground quarter of a mile west of village, by chenar trees.

Kag is about 15 miles from Gulmarg on a path leading *via* Ferozepore along the foot of the range eastward.

A large cattle-track leads up to the Toshmaidan, four hours. It zig-zags up the steep grass and forest slopes, ascending 3,500 feet.

(2). **Via Watrehel**, 14 miles.—Leaving the city by the bridge beyond the parade ground a bridle road goes to Woumpur, six miles. One mile further is Badgam tahsil. Then ascend plateau; path winds up and down. Watrehel stands high, a group of villages close below a low ridge, marked by a *ziarat*.

Watrehel to Tcshmaidan.—Choice of two paths. Most direct is to Drang, ten miles; then steeply up the mountain six miles, entering the *marg* by an old watch-tower (see page 68).

The other path goes to Riyar, keeping almost due south, eleven miles and crossing the Suknag ascends by Rangazabal, and round the corner of the spur, then turning west to the Toshmaidan, eight miles. This is the best path. From Suknag bridge to top of steep ascent $4\frac{1}{2}$ hours, then 1 hour along slopes, and 1 hour more ascent. Coolies would take much longer.

(3). **Via Yechgam**.—This path leaves the city at the first bridge, passes the barracks on the left (with the cart-road on the right; crosses Batmalu bridge, then turns left and across rice-fields, three miles; then up and over the dry plateau, three miles down to the village of Yechgam; then ascends gradually to the left, and enters the broad valley of Dregam, which village is some distance on the left. One might camp there among the splendid *chenars*.

The direct path keeps up the right side of the valley to *Khan Baba Sahib Ziarat*. There are plenty of camping-grounds all along the road. The *ziarat* is about fourteen miles from Srinagar.

Then the path ascends steadily for some four miles, passing several little villages. Descending 200 feet a grassy plain is reached, beyond which the forest begins. Two miles on, over a moorland, and then a steep descent to a river, is Riyar. Total distance twenty miles.

The fine *marg* Dodipatri is about $1\frac{1}{2}$ hour's south of Riyar by forest paths, steady ascent. Further east is Mejpatri.

From Riyar a fairly level path runs eight miles north-west along grass slopes with pretty villages, and orchards and groves of walnuts, to Kag and thence to Gulmarg (see above).

(4). **Via Nagam.**—Crossing the first bridge, turn left along Shupiyon, road with its avenue of poplars to Kralpura, six miles. One mile on by big chenars take large path slightly to right. One mile on is a bridge Ali Kadal near Wahtor village. The path goes on south through rice-fields three miles to Tsodar, where another bridge; then one mile to Nagam. Total twelve miles. This may be driven in a light cart.

From Nagam there are two paths; both are fairly good.

(a). **Nagam to Nil Nag, 8 miles.**—This skirts the north slope of the plateau, past the villages of Badigam and Nurpur, two miles; half-a-mile further by 15th mile post avoid the broad track to south up valley to *Hoplu*, but keep south-west up ravine to *Brunjma*, 2 $\frac{3}{4}$ miles, and continue path up ravine gradually ascending to village of *Bazgu*, two miles; thence more westerly up slopes, one mile, to village of *Gogijpatri*. Below this is the lakelet on Nil Nag, height 6,800 feet. Here are two private huts belonging to Europeans.

(b). **Nagam to Pakipura, via Tsrar, 12 miles.**—This is the main path. Immediately above Nagam it ascends and crosses a plateau or *karewah*; then passes up a narrow valley; and finally there is a steep ascent to Tsrar, distance five miles. This is a large village and a great place of Muhammadan pilgrimage; for here is shrine of Sheikh Nur-ud-din, the most famous of all Kashmiri saints. The best camp is north-east of the town on top of the ridge, among some apple trees. Water is scarce and not good, but a new canal has been made. From Tsrar to Pakipura, the road keeps along the plateau, gradually ascending towards the south. Camp above the village. Pakipura stands on the edge of a deep ravine, height about 6,500 feet.

There is a beautiful journey from here to Gulmarg along the lower mount in slopes. It would take four days.

The path leads by Yusimarg, west; then through forest, with occasional glades and Gujar huts, for one-and-a-half day's journey to *Riyar*, thence by Kag as mentioned above.

There is also a path across to Punch *via Choti Galli Pass* (see above).

(c). **Pakipura to Shupiyon, 12 miles.**—Descend the steep ravine south, then turn to right, and ascend farther back to a village.

For the next six miles the path leads through pretty wooded scenery with extensive forest slopes on the right and a low wooded hill on the left. Then leaving the forest it keeps to the left and joins the Rambiar river, keeps along the foot of the slope for a mile or two, then crosses the river valley across a rather stony, scrubby plain to Shupiyon (page 32).

(1). **Shupiyon to Nilnag via Chawan.**—Cross Rambiar river to left bank, follow Srinagar road for a short distance and then turn off to left through hilly scenery similar to pine districts of Kent and Surrey. Pass through villages of Narpura, Veshur, Maspura and Kellar to Chawan.

General direction of road is parallel to Pir Panjal range, near the low wooded slope. Village of Chawan beautifully situated just

within the forest and about six miles from the base of the mountains. Six hours from Shupiyon.

Small but good camping ground. Bear said to be plentiful at certain seasons of the year.

(2). **Chawan to Nilnag**.—Descend a steep hill, cross the river Kachgal and ascend a *similar steep hill on opposite side*, half hour. Another half hour more or less on the level, then enter forest down another steep hill, cross another river, ascend the other side half hour to a clearing containing a *collection of Gujars' huts* called Nagbal.

Turn to left through forest along fairly wide path, following up left bank of stream, shortly afterwards reaching the entrance of the beautiful grassy Yusimarg. *Good going for 3 miles*.—At the top of the Marg turn sharp to right—cross a ridge and then down a slope; turn to the left through forest, one mile along the ridge and then descend to Nilnag.

Actual walking time—4 hours; estimated distance—12 miles.

(6). **Nilnag to Dudhpatri** (Budhi Patri)—Leave early. Over the hill at the back of Gogijpatri, on the other side then half-left across *karewah* through fields for ten minutes, then down a steep hill across the river Sangsafe up the other side through the village of Brenwar, then across another *karewah* over the river Yechara to the other side of the valley, then sharp, left up the same and alongside of pine woods, then through jungle to Mujpatri. More jungle to a marg, shortly afterwards reaching Riyar 4 hours; coolies 5 hours.

Beautiful spot for a camp, air sweet and crisp.—Magnificent view of Nanga Parbat. Adjacent scenery very Swiss like. Estimated distance to Riyar—10 miles.

Go due south up the valley, gradual ascent all the way.—Cross a ridge into another valley. *Pitched camp at the foot of Chanz mountain*—2 hours. Distance—5 miles. Good camping ground. Supplies—milk only.

This joins on to the route above mentioned, page 68.

SHUPIYON TO HARIBAL FALLS.

The path is for the first mile or two along the road to Hirpur; then it keeps to the left across the plateau for four miles to the village of Sedau, where camp 74°50 E., 33°40 N.

From Sedau, a path turns to the left (east) down towards the gorge, from which the Veshau river escapes. It then winds to the right through woods, with a steep descent to a level place on top of the precipice, a distance of about two miles. Over a rock balustrade one looks down for 200 feet to the river, which here bursts its way between narrow vertical walls, and springs over a height of about forty feet. In the autumn the water is low, and the fall narrow.

These falls are, perhaps, best visited from the east, the right bank of the river. But there is no way of crossing till some miles down, opposite Bishnagar (see page 76).

Sedau to Konsa Nag, *two marches (Map No. 29).*

This is one of the largest mountain lakes in Kashmir.

Sedau to Chatter Nar, *9 miles.*—For three miles a gentle ascent through forest, then descend 500 feet to Saidwas stream, a log bridge. Then a very steep ascent, one hour, through forest to Ramkasan; then one-and-a-half hour round slope of hill, leaving forest, and gradually reaching the Veshau stream. Camp in coppice of dwarf birch near river. Kangwattan is a Gujar summer village, three miles down on the right bank.

Chatter Nar to Konsa Nag, *3 hours.*—For first two hours a gradual ascent up the pretty grassy valley near stream: ponds on a level space. The next hour up last 1,000 feet, is steep and rocky. The waters of the lake escape half way up this barrier which is evidently an ancient and gigantic moraine. The lake is over two miles long and nearly 13,000 feet above the sea. Beyond it is a narrow glacial valley. The lake is often frozen till early in June. Above it, and conspicuous all over the valley of Kashmir, tower the three-rugged peaks, of which Brahma Sakul, (15,523 feet) is the highest. These are plainly seen from Sialkot.

This trip may be well done from Hirpur on the Pir Panjal route. From Hirpur *via* Sedau to Shupiyon would be about thirteen miles, and could easily be done in one day, including the Falls. The Konsa Nag trip requires three or four days from Sedau.

Leaving Sedau with the Konsa Nag path, but soon diverging to the right, is the Budil Pass route. (*Vide* route tables at end.)

East of Shupiyon are the following routes. Part of these routes needs Map No. 29 if south of Shupiyon:—

A.—*Direct to Islamabad.*

B.—*Via Kulgam to Islamabad.*

C.—*Via Kulgam to Vernag.*

D.—*Via Deosar District to Vernag.*

A.—Shupiyon to Islamabad, *19 miles.*—The road leads down through the bazaar, follows the stream a short distance, then turns east and proceeds across the *karewahs*, crossing the shallow ravines *via* Hajipura, five miles, to Teregam five miles, where it descends into the rice-growing district, watered by the Veshau canals; then across the plain four miles.

north-east to Khaimu where the Veshau is crossed by ferry. The road is then level and good to Kanbal, three miles, where is the dak bungalow. Islamabad is $1\frac{1}{2}$ miles on. This is a tiresome march.

B.—(1). Shupiyon to Kulgam, 13 miles.—This is also an uninteresting march crossing numberless streams. It follows the path mentioned above to Hajipur, five miles, then diverges slightly to the right, and after three miles descends to Ar, and thence, across rice-fields, to Salgam, three miles; after which a better road on a *karewah* leads two miles to Kulgam, descend below the *ziarat* to a camp behind the tahsil. Good shade and water. There is good fishing in the Veshau between Kulgam and Khaimu.

(2). **Kulgam to Islamabad, 11 miles.**—Ascend to the bazaar, then descend through rice-fields over to Khaimu. *Dungas* can come to Khaimu in summer, and there is good camping-ground. Thence to Islamabad as given above.

The above A and B are driving roads, but would be bad in wet weather being unmetalled.

C.—(1). As above, **Shupiyon to Kulgam, 13 miles.**

(2). **Kulgam to Rozlu, 12 miles.**—Cross the stony Veshau Valley to Ban Deosar, four miles; then up and over a wooded spur to *Bringin Lannor*, six miles, a pretty enclosed basin; then over another spur to Rozlu, two miles, or by a lower path by Pet Deosar and Sargam to Yor, ten miles from Kulgam. The latter is the ordinary path.

A direct path from Bringin Lannor is about 15 miles, or six hours, to Islamabad, fording the infant Jhelum or Vyet.

Rozlu to Vernag, 8 miles.—Path crosses the low-wooded spur, then on by undulating ground at foot of hills, or better descend to Yor, a pretty path, thence comparatively level.

D.—Shupiyon to Manzgam, 10 miles.—The path strikes south-east from the middle of the bazaar, ascends and crosses in the first six miles, four or five shallow grassy hollows passing some villages, then on higher *karewah* ground to Rishnagar. There is a steep drop to the Veshau, which is crossed by wooden bridges, then across the irregular stony valley, up the further bank, turn left two miles to Manzgam where is good camping-ground beyond village, or camp at Wottu nearer the river or at Tangmarg.

(1). **Excursions from Manzgam to Haribal Falls.**—These may be looked down on from the Sedau side, but are best visited from Manzgam. It is a beautiful level ride along the meadows at the foot of the hills for six miles to the gorge of the Veshau. Keeping up it to the left path descends to the top of the Falls. There is level ground for camping just above, by the Gujar village of Tangmarg, but scanty supplies. Colonel Duke recommends a camping-ground in the gorge half mile above the Falls. From Tangmarg to Kangwattan is above 3 hours; compare page 75.

There is a fair path practicable for ponies following up the gorge high above the river. By this it is four or five miles to Kangwattan, a Gujar village in the beautiful grassy valley of the Veshau. From here Konsa

Nag might be visited in one day; or by the same path through the gorge, keeping round to the left, a pedestrian might go up the pretty Chitti Nullah, and cross the ridge a few miles up, and descend to Manzgam. This is the usual route for laden ponies. The ascent from Manzgam to top of spur, is above two hours. The whole round only takes eight or nine hours.

There are beautiful *margs* all about these higher valleys. Another path up to these *margs* turns up the hill from near *Kuri*, a large village two miles east of Manzgam. The splendid gneiss turrets of Brahma Sakul tower up to the south; and it is an interesting trip to the glaciers above Gogulmarg and Zojmarg, one might take coolies from Nandmarg.

(2). **Manzgam to Aripur, 10 miles.**—This is an easy and pretty march at an average height of 6,500 feet. The first six miles over undulating ground to Hanjipur? (so-called because no boatmen live there); thence, south-east up the valley for two miles, then cross over a rather stony plain, two miles, to camp at Aripur.

This village is at foot of a rough path leading, in two days, by the Monu Pass (11,000 feet) to Ramsu on the road to Jammu. Another path leads from Hanjipur, by Konsar Bal south, above 1½ hours, then up the mountain, over a ridge 9,000 feet, 3 hours, down to Lashmarg, and along S. E. to Zojmarg, 1½ hours, total 6 hours without stoppage.

Zo'marg to Partal camp, about 3 hours.—Gradual zigzag ascent; then a long steep descent. This was all carefully surveyed in 1904 with a view to a railway and a 4½ miles tunnel through the range, emerging at Nandmarg, but found financially impracticable. On the crest of the pass are some very fossiliferous limestones. (Gondwana series). From Gulabgarh Riase is four days' journey.

The Dandwar Nullah, about Aripur, is famed for bears. From Dandwar village it would be easy climb to Sundar Tope (12,740 feet), which commands an unrivalled view over the eastern part of Kashmir.

(3). **Aripur to Rozlu, 12 miles.**—An ascent of 1,000 feet, to ridge Chunuteng (map error, Jordant); then steep descent 1,000 feet, beyond which pretty undulating country, partly forest with strips of cultivation in the valleys.

Rozlu to Vernag, 8 miles.—See above. Vigne, the traveller, was specially charmed with this fertile but still wild region.

The pretty undulating and well-wooded valleys of Lamur and Rozlu resemble the Lolab more than any other part of Kashmir.

There are many possible paths, which may be worked out with a good map, and local information.

CHAPTER VII.

EASTERN KASHMIR.

THE eastern or upper end of the valley is narrower than the part below Srinagar—chiefly at the expanse of the alluvial plan bordering the river, which is reduced to quite a narrow strip by the encroachment of the *karewah* and mountain spurs. Numerous beautifully watered valleys, open into it, offering opportunities for garden-making, which the Moghals did not neglect, and which still, for natural beauty claim a visit from the passing traveller.

The journey up the river is not of great interest. It occupies a day and a half, or two nights and a day for *dungas*, but house-boats often take three or four days. The time depends on the depth of water, and direction of wind, &c. Coming down stream a *dunga* takes about 18 hours under favourable circumstances. For the first few miles the river is very winding. It grows perceptibly shallower at the upper part, and is not navigable for large boats beyond Kanbal, the landing place for Islamabad. The road to Islamabad follows the right bank of the river for twenty-five miles and is quite good for motors. There is a bridge at Sangam, above which the road lies on the left bank; the whole distance is by road about thirty two miles and by water about forty-seven miles.

Only two miles by road from the Munshi Bagh, but round two long bends of the river, is the interesting temple of Pandrenthan (see page 114).

Five miles from Srinagar, where the mountain spurs come right down to the river, is a small village called Panduchakk, where the remains of a stone bridge may be seen when the river is low. Beyond this are *karewahs*, chiefly devoted to saffron culture. Saffron used to be a considerable source of revenue to the State, but the sale has of late years much declined. The flowers are gathered and the stamens collected in October, or November, and crowds go from the city to see the far stretching beds of mauve blossoms.

The crimson stamens sell at Re. 1-8 per tola.

Pampoor is a small decayed town on the right bank about eight miles from Srinagar. It contains a somewhat handsome mosque. Below the town is a fine chenar grove where visitors encamp. On the bank, further up, is a lodge built for the Maharaja. The river is crossed by a wooden bridge above the town. At the foot of the hills, which recede some miles from the river, is the village of Wean, noted for its medicinal springs. They are tepid and sulphurous. Visitors occasionally encamp in the neighbourhood for the sake of bathing. Two miles beyond these are other springs, esteemed very sacred, at the village of Krew.

The limestone ridges west and north of Khonmoo and Krew are of special interest to geologists owing to the splendid series of strata open to observation, containing some richly fossiliferous strata (*vide* Middlemiss and Hayden in Geological Reports, 1908-1909).

At the foot of the mountain, between here and the river, are the old Hindu ruins of Ladoo. The main road will be rejoined at Latapur, 13th mile post from Srinagar. The large village of Karkarpoor, on the left bank, about 12 miles up the river, is a good starting place for visiting the temple of Payech, one of the most interesting little temples in Kashmir. It is about seven miles from Karkarpoor, and the road there is good. It is rather nearer from Patgampur on river, near Avantipur, thence to Malangpur, and then over *karewah* direct to Payech, about five miles. For many miles the river now skirts the foot of the Wastarwan mountain. At the southern end of its slopes of the extensive ruins of the once famous city Avantipur, there is now but a small village below which are the remains of two ruined temples, by the 18th mile post (see Chapter IX, page 113). The temples should be carefully studied.

Above Avantipur opens out the valley of Trahal, up which there is a path to the mountains beyond (see Lidar Valley routes).

Bijbehara is a town of several hundred houses, 29 miles from Srinagar. There is good encamping-ground near the Maharaja's lodge above the town. On the opposite side of the river, which was once crossed here by a stone bridge, are some very ancient Hindu remains close to a new temple. There is a

wooden bridge at the town, from the piles of which grow some large trees. From Bijbehara there is a road up the right side of the Lidar Valley. There are some few insignificant ruins at the mouth of Lidar, where once, tradition says, there was a huge stone-built.

Islamabad is four miles by road above Bijbehara. By river it is 47 miles from Srinagar, and by road 32 miles. By the river side is the little village of Kanbal, where there is a rest-house. Half-way between this and the town is the Wazir Bagh, an orchard and encamping ground, by which boats can be moored when the river is full.

Islamabad is the second town in Kashmir; it contains about 20,000 inhabitants. It is built round the foot of a conical hill on whose side are beach-marks showing the level of the lake which formerly covered the valley. The town is picturesquely embedded in trees and intersected by running streams. From the foot of the hill issue numerous springs, which are received into stone tanks. The space round has been formed into gardens with houses for the Maharaja, and temples, etc. In the town are other springs. Over one a mosque has been built. Another is sulphurous. The water, especially in the tanks, swarms with a sort of carp which is considered sacred. The town owes a good deal of its prosperity to being the starting point for the Jammu route. Some weaving is done and braided table-cloths and floor-cloths are worked here. Islamabad is the best centre from which to visit Vernag, Atchibal, Martand and the Lidar Valley. Just outside the town, on the Bawan road, is the pretty Zenana Church Mission Hospital. The lady doctor in charge, Miss M. Gommery, M.D., is glad to show visitors over the Institution.

The conical hill overlooking the town commands a very wide and striking view; it is easily ascended from the *karewah* behind the Hospital.

For Kulgam and routes south-west, *see* last chapter.

Islamabad is a good centre for many trips.

(1) by Kulgam, Dandmarg, Manzgam, Haribal Falls, Kangwattan, Konsa Nag, and back by Shupiyon to Arwin or to Bijbehara;

(2) by Kulgam to Dandwar Nullah, then north-east by Aripur to Bringhim Lannor, Vernag, Kokar Nag, Nowboog, and back by Shangas ;

(3) by Vernag to Wangam, Soondbrar (p. 82) to Wakinringi (towards the Marbal Pass), back to Nowboog. Visit Doosoo and Rajparan, then back to Shangas, and up to Chur Nag (p. 85) returning by the Margan Pass to Gauran (p. 148) ;

(4) by Atchibal and Kokar Nag to Nowboog ; then by Balkun Galli to Kutihar, and back by Martand ; or by Paisan across the ridge to the Lidar Valley at Sallee, and thence to Harpat Nar, or to Eishmakam.

Any of the above suggested routes might be done in 10 days or a fortnight, and extended very pleasantly to three weeks by pushing further afield.

Vernag is nineteen miles from Islamabad. The direct road leads across comparatively level country with a low plateau to be crossed about the middle. The first half of the road is through fertile and often pretty scenery. The latter part is across stony and barren river beds.

Vernag is named from the copious spring which, rises at the foot of the Banihal Pass, in a fine stone tank which, with the buildings and gardens, was built by Jahangir. The situation is lovely. There is good accommodation in the bungalow overlooking the tank. This was a favourite residence of its imperial founder, who desired to be carried there when dying.

The direct road from *Islamabad to Vernag* which I have mentioned, leads up the valley of the Sandrin river, and within three miles of Vernag passes close to Shahabad, a very large village with houses and mosques, which testify to its former importance.

Shahabad is the starting point of two paths by which the ridge separating this from the Bringhim Valley may be crossed. Both paths ascend steeply for over 1,200 feet ; then one, turning east, descends gradually to Nuru, thence by *Kokar Nag* goes to the *Nowboog Valley*. The other goes direct to Atchibal.

From Vernag to Kokar Nag is $7\frac{3}{4}$ miles.—The ascent and descent are easy. At Kokar Nag there are some beautiful springs with a good camping ground close by. On the opposite side of the nullah, two miles off, is Sofahun, where are some iron mines, the chief in Kashmir. A little distance from this place are also some remains of an ancient temple. Up a glen, to the south-east of Kokar Nag, and reached *via* Wangam is

Soondbrar, a very sacred intermittent spring. It would be about 5 hours from Kokar Nag to the spring and back, or 1 hour from Wangam, where there is a good camping-ground.

ROUTES TO KISHTWAR.

From Kashmir there are two routes of which that by **SINTHAN PASS** is much the better.

One route to the Wardwan and Kishtwar lies up the valley and across the **Marbal Pass** (11,550 feet). The summit of the pass is crossed on the fourth march from Islamabad (Map No. 29).

33°30' N., 75°33' E.

Marbal route to Kishtwar.—I went this route in 1903, doing rather short marches.

(1). **Islamabad to Akingam**, a large village 2½ miles beyond Atchibal, total distance 11 miles. Here took on coolies for the trip.

(2). **Akingam to Wangam**, 5 hours, about 12 miles.—From here Soondbrar spring may easily be visited.

(3). **Wangam to Karabudurun**, 5 hours, 10 miles.—A very pretty alpine valley; sparse cultivation for first 2 hours, then over a shoulder, and up the Marbal glen with forest and grass. At 8,500 Wakinringi, a pretty little *marg*, Karabudurun a small *marg*, 9,200 feet. Gujar huts a short distance up side valley.

(4). **Camp to Singapur**, 8½ hours, 12 miles.—A steep ascent partly on snow, coolies took 3 hours. Height of top, 11,550 feet. Steep descent, 1 hour to snow in ravine. Here found the small rose rhododendron, the true alpine rose. Fine scenery, steady descent, 4 hours through forest by stream. Large village. Camp under elms among rice fields, 6,900 feet.

(5). **Singapur to Mogal Maidan**, 5 hours, 11 miles.—Descent steep to Chatru, 1½ hours, meet Tsingam route. Coolies took 3 hours. Then to left bank; 2 hours to Mogal Maidan, a few scattered huts, few supplies, no collies.

(6). **To Kishtwar** see below.

The chief route to *Kishtwar* is by the bridle road made by Colonel Ward. Ponies can be hired for the whole journey at Islamabad or at Atchibal. The stages are as follows :—

(1). **Kanbal bridge, Islamabad to Kothair, 10 miles.**—This is 3 miles beyond Atchibal, where the traveller may prefer to halt. At Kothair is an ancient Hindu ruin, a short distance to the right from the road.

(2). **Kothair to Doosoo, 12 miles.**—A good road through open and rather pretty scenery among low hills, then crossing the Nowboog Valley, and 2 miles up side valley, to Dyus or Doosoo, about 7,400 feet. There are beautiful camping-grounds higher, at Rajparan and at Daksun,

(3). **Doosoo to Sinthan, by mule path, 14 miles** or by footpath 11 miles.—A gentle ascent for several miles past Rajparan, cross a low ridge with rise of about 400 feet, then pass Kodan camping-ground. Then keep to the left up Harshanglen, then by a short zigzag to the pass, height about 12,300 feet. The footpath goes straight up the nullah, on snow till late in summer. In maps marked Chingam Pass. The pass is usually closed by snow from the end of November till April. The view is magnificent. Descent into Sintan glen easy for ponies; both a bridle road and footpath. There are supplies till Tsingam. So it is better having camped at Rajparan or at Kodan to push to that place, 19 miles, paying 1½ stages.

(4). **Sinthan to Chatru, 13 miles.**—At Sinthan, or Sirithan, there are some Gujar huts. A steady descent; pass Tsingam at 7 miles. The stage is just below junction of valley leading to Marbal Pass. Supplies scanty.

Chatru is a small village where there is a forest godown; supplies available, but few coolies. Camping-ground between the road and the stream.

(5). **Chatru to Kishtwar, 16 miles (6 as).**—This will be found a long and tiring march in hot weather, and the journey can be broken at Mogal Maidan, 5 miles down the valley. The scenery here becomes very rugged and picturesque, especially just below Mogal Maidan, where the stream flows under a towering precipice. For miles below this the Wardwan river is joined, and two miles on it is crossed, then 1½ miles on the handra-Bhaga river is crossed at a most picturesque gorge. Thence there is a steep climb 1,500 feet to the plateau on which Kishtwar is situated. Camping-ground under chenar trees on the maidan adjoining the town, 5 miles from the bridge. Water has to be brought from some distance and should be boiled.

Some of the grandest scenery in Kashmir is met with on this route, as there are very lofty peaks of 21,000 feet seen rising sheer from the deep gorges of the Wardwan and Chenab.

When going from Kishtwar to Kashmir camp at Tsingam (Chingam) then 5 hours, to camp above Sinthan at foot of pass; next day to Poosoo, 9 hours, less for ponies.

Kishtwar is a small town on a plateau near the junction of the Wardwan and Chandra-Bhaga rivers. There is a post office, dispensary, etc. Other routes diverge from here (see page 149).

Another *route to the Wardwan* lies up the Nowboog valley and across the Margan Pass (11,600 feet) (see page 148). This also would be crossed on the third march from Islamabad. It is quite practicable for ponies in summer; but in spring, when the snow is deep, it is often dangerous. The descent on the Wardwan side is very steep.

The *Nowboog* valley is pretty. It is on an average two miles wide, of park-like scenery somewhat spoiled by rice-fields, backed, however, by very rugged peaks. Owing to its altitude the climate is cool throughout the summer. The village of *Nowboog* is 11 miles from *Kokur Nag*. At Lohrin, 1 mile short of Nowboog is good camping-ground.

From *Nowboog* there is a path over the hills by *Halkun Galli* to Kutihar, the valley of the Arpat river. By this it is 1 mile to *Atchibal*. Within 3 miles of *Atchibal* is an old temple near the old iron-works of Kothair.

Atchibal may be reached direct from *Vernag via Shahabad*, 12 miles. The ordinary route is *Islamabad to Atchibal*, 7 miles.

One mile from the bazaar the path crosses the Arpat river, then south-east over rice-fields, 6 miles; good unmetalled road.

It contains a beautiful pleasure garden* and encamping-ground at the foot of the spur, where the mountains intrude furthest into the plains. On every side copious springs gush out from clefts at the foot of the limestone rocks. These form beautiful streams and cascades, which, with the groves of magnificent chenar trees, are the chief attractions of *Atchibal*. Outside the gardens there is a bungalow for European visitors. It is considered most probable that the springs are, in part at least, derived from the *Bringh* river, one branch of which disappears in a cleft of its bed. The limestone around this end of Kashmir appears everywhere to be honeycombed, so numerous and copious are the springs.

The valley of Kutihar, which opens to the north-east, is very fertile and pretty. At the head is a difficult and lofty pass to the Upper Wardwan.

*Vide Appendix II, Note on Moghal Gardens, page 228.

Shangas is a large village 3 miles from Atchibal, where grain, etc., can be obtained. Sangam is 4 miles further.

An excursion may be made as follows from Sangam at the head of Kutihar:—

Sangam to Nilhul, 4 hours.—The first three and a half hours steep; water scarce; fairly level camp in forest; a small supply of water near; height 9,000 feet.

Nilhul to Chur Nag, 2½ hours.—In one and a half hours leave forest behind; then steep grass ascent. The Nag is a small tarn, surrounded by not very impressive ridges, at a height of 12,300 or 12,400 feet.

From Chur Nag an easy walk of three-quarters of an hour to the Margan Pass.

Camp near here, height 11,200 feet: water abundant, but no wood near; return to *Nouboog* next day; an easy descent.

From Gowran in the Kutihar Valley there is a path across the hills to the Lidar Valley at Salee. It leads through a *galli* which is of geological interest.

Martund.—A path leads from *Atchibal to Martund* which may be seen standing on the *karewah* behind Islamabad. It is about five miles. The *direct road* to it is from *Islama'ad*. It passes for 2 miles along the foot of the *karewah*, and then ascends and crosses it another two miles. The whole plateau is now irrigated by a fine canal, brought from the Lidar above Eishmakam. The view from Martund is grand, but the ruins, although noble and massive, do not show to great advantage.* Two miles north of Martund, at the corner of the Lidar Valley, is *Bawan*, one of the most beautiful camping-grounds in Kashmir. There is a direct cart-road from Islamabad to Bawan, 4½ miles, this is the main road to Pahlgam. At the foot of the beach-marked cliff is a magnificent grove of chenar trees, and hidden away in the foliage are two tanks of clear flowing water, surrounded by a temple and pilgrims' houses. The water escapes by stone-lined conduits, and flows among the trees and round the green swarded encamping-ground. The water abounds with fish. Near by is a portion of the Lidar river in which it is permissible to fish. There is an Engineer's bungalow, ten minutes' walk above Bawan.

Half a mile from Bawan, along the foot of the hills near Bumzu, is a group of caves. One of these is over 200 feet long. The end of it can only be reached by crawling; doubtless the

* For description of temple, see Chapter IX, *et seq.*

cleft in the rocks, which was caused by the action of water, extended much further, but at that point it is closed by loose stones shaken from the roof, perhaps by some earthquake. On one side of the passage is a small chamber, probably artificial, containing the bones of some devotee or hermit. A little distance beyond this cave is another containing a temple, the porch of which has been carved out of the rock. From close by the temple there is a fine view of the Lidar Valley, which for fifteen miles is broad and fertile and well watered, but beyond that the mountains close in, towering up precipitously to a great height. Up the valley, forty miles distant, rises the beautiful snowy double cone of Mount Kolahoi (17,839 feet), from which great glaciers stream into the valley beneath.

THE LIDAR VALLEY.

This is one of the finest valleys in Kashmir, or in the Himalayas. Above it takes its origin in large glaciers; then flows through broad, grassy *margs*, and down by many a rapid and cataract between huge rock walls, and on through birch glades and sombre pine forests, till it emerges into the bright wide valley below Eishmakam and sparkles more soberly, but still wild, over many broad stoney beds and narrow canals to join the Jhelum or Vyet.

Its total length is somewhat over forty miles. The main river is formed by the junction of two large tributaries below Pahlgam. These, which might be called the Kolahoi and Shisha Nag streams, flow respectively from the north-west and north-east and after joining tend almost south. Up the eastern branch lies the great pilgrim route to Amarnath. The pilgrimage takes place during August. Thousands of Hindu *sadhns* and others come from all parts of India for it.

SUMMARY OF ROUTES.				Miles.
Islamabad to Eishmakam	...	...	...	15
Eishmakam to Pahlgam village	...	...	...	12
Pahlgam to Tanin	...	...	...	9 approx.
Tanin to Panjitarni	...	...	...	16 "
Panjitarni to Amarnath	...	...	...	4 "
		or		
Pahlgam to Aru	...	...	...	7 "
Aru to Lidarwat	...	...	...	7 "
Lidarwat to Kolahoi glacier	...	...	...	8 "
Lidarwat to Sind Valley	...	...	...	2½ stages.

On the right bank is the road from Bijbehara, a good one.

Bijbehara to Sallar, 11½ miles.—A very easy road following up the valley passing many pretty villages. Supplies plentiful. One mile short of Sallar is the village of Kotsu with a sacred spring by which is a good camping-ground. It is ¼ mile to east of the road.

Sallar to Pahlgam, 12 miles.—The valley rapidly narrows, and the scenery becomes wilder. Cross to left bank at 7 miles, join main road, thence 4 miles to P. O. and camping-ground.

There is a direct road to the Lidar Valley from Srinagar *via* Lattipur, a village on the river at the foot of Wasterwan. It is rideable throughout and in parts pretty.

Lattipur to Punzu, 11 miles.—Cross the Pustumi Bal, a rise of about 1,500 feet, a fair bridle road.

Punzu to Wularhama, 11 miles.—Cross the Bhugmur Pass, a rise of about 2,500 feet, rather steep.

Or leaving the river at Avantipur march 8 miles to Trahal where there is a fine open camping-ground above the big village. Next day 3 hours up the Bhugmur Pass, 2 hours down to Wularhama.

A mile beyond Wularhama join the above road from Sallar.

The main road is on the left bank, from Kanbal and Islamabad. One can drive up to Eishmakam ("lovely place.")

Islamabad to Eishmakam, 15 miles.—The road passes over level ground through very fertile scenery, now through an orchard-imbedded village, again out across a stream, through rice-fields, over a grassy plain, and then again into the shade of fine walnut or chenar trees. The last few miles there is a gradual ascent, and at last, leaving the river, the road winds up through pretty lanes to the village of Eishmakam. Here the mountains on either bank approach. Up a galli on the right at Harpat Nag (*K. Harpat*, a bear) are some old copper mines.

The village consists of a steep street, above which are the massivs walls and picturesque turrets of an old monastery. Zyn-ul-din was a disciple of the greatest of Kashmir saints, Nur-ud-din. His body, it is said, was not found after death, but his staff, at the mouth of a small cave, indicated where to build the shrine. A fine prospect is gained from the terrace of the shrine. The camping place is in a grove of walnut trees below. Beware of the soul rivulet coming down through the village.

Eishmakam to Pahlgam, 12 miles.—A beautiful forest ride of 6 miles leads to Batkot, a pleasantly situated village and camp. Beyond this the scenery gets wilder, and the crags above grander.

The road from Bijbehara crosses the river at LANGAM by a new bridge built in 1904 after the flood, by Colonel Ward. Ascending over a spur on the left east bank one sees Ganeshbal—a place of pilgrimage with a red

painted boulder, below on the opposite bank. The valley opens out; Towering above it centrally are the twin snow peaks of Kolahoi. Colonel Ward's house is over the next spur, and beyond it, on a forest plateau, are the best camping-grounds. Good water comes down a side nullah. There is a post office in the summer for 8 months; also a shop with stores. A church was built in 1905, and there is usually a chaplain for July and August.

The usual camping-ground is a mile short of the village, and about 27 miles from Kanbal. Supplies are fairly abundant.

There is another camping-ground round the corner to the east, above the village, on the opposite side, a mile or two up.

Pahlgam has many attractions of its own; pretty walks and rides and good fishing. Some of the *margs* above, as Baiserran and Khainmu are worth a visit. It is an excellent base, perhaps the best in Kashmir, for expeditions to the wider scenery of the higher mountains; Sona Sar, Shisha Nag, Amarnath cave, Har Nag, Lidarwat and the Kolahoi glacier, afford some of the wildest and most beautiful scenery of the Himalayas. And with proper arrangements for transport and supplies, the weather being averagely good, such trips are quite within the strength of ladies. The altitude of Pahlgam is about 7,200 feet, and it is somewhat warm occasionally in summer, and perhaps not bracing.

But it has less rain than Gulmarg; and as transport is fairly easy to obtain, people can make excursions to higher and cooler camps in hot weather.

Perhaps a *word of warning* is desirable as to taking baggage, often too heavy, or awkward in shape, on ponies, in wet slippery weather over the passes.

The pass to the Sind Valley is specially slippery on the west side.

There is an old ruined temple worth a visit, at Mamac on the right bank.

At Pahlgam the valley bifurcates; one path then passes up the north branch to Aru (see below.)

There is a three-and-a-half hours' climb up the spur, north of the village, to the top.

This commands a splendid view of Kolahoi.

Pahlgam to Tanin, 9 miles.—The pilgrim route goes up the east branch. It keeps on the right bank. Preslang is a small village, the last met with and is four miles up. The scenery gets even wilder. At one place there is a fine cascade. The stage is at Tanin or Chandanwara at an altitude of 9,500 feet. The road is rough, but practicable for laden ponies. The encampment is on a broad, grassy meadow, surrounded by fine trees and overhung by huge crags.

Tanin to Zoypal, 5 miles.—A stiff climb of 1,500 feet, leaving the river, brings one to the upper limits of the pines and birches. This ascent is called "Pisu" (flea), or probably originally "Pisar" (slippery). A fine view of the snow peaks is got.

The river is in a chasm 1,000 feet below.

The path winds round grassy slopes. At Zoipal are *margs* on both sides of the river, which can usually be crossed on snow bridges. On the south side are Gujar huts and birch copses. Altitude about 11,300 feet. Zoipal with its level ground and fuel is a better camp than Shisha Nag. A path goes to the Wardwan, south up the side valley ascending 500 or 800 feet to the pretty lake, Sona Sar, overhung by glaciers—thence see page 93.

Shisho Nag is about 4 miles up the main valley, east. There is a steep rocky ascent of several hundred feet, then easier round grassy spurs. It is a large sheet of water, of an emerald green colour on bright days, and is covered till June with ice. Altitude about 12,000 feet. Juniper is the only fuel. Curiously contorted peaks rise to the south, and beyond them the splendid Kohinur mountains.

Shisha Nag to Panjitarni, 11 miles.—A stony ascent to a pass about 14,000 feet across the water-shed, to the head waters of the Sind river. Then a gradual descent, with the Amarnath mountain rising in barren grandeur ahead. The limestone strata to the east are vertically ribbed producing a curious effect.

The river has to be forded four times. In July it is deep and swift.

People sometimes camp at Khel Nar, but that makes the journey to and from Amarnath rather long.

Juniper must be collected for fuel; the supply is rather scanty.

Panjitarni to Amarnath, 5 miles.—Cross several torrents; wind round shoulder to Googam; ascend steeply over a precipitous spur; then drop to the snow-bedded Amarwati stream, and ascend gradually to the cape, a lofty but shallow recess in the gypsum rock, with some frozen springs which represent the great Himalayan god Shiva. Many poetical accounts have been written of the final scene of the pilgrimage; but it, with some things of the sublime, has much of the repulsive.* Amarnath cave is 13,000 feet above the sea. The mouth of the cave is 150 feet high, and same width and depth. One path to it from Panjitarni crosses a lofty ridge, called Bairagi Ghat 14,000 feet (?), opposite the cave. A path has been made from Amarnath to the Sind Valley—not fit for ponies. In 1907 the Superintending Engineer, with his wife took ponies up from Baltal, and across to Pahlgam, but it was dangerous for all. It is sometimes passable as late as August and usually to end of June. The distance is 10 miles.

Another route to Amarnath is from the top of the Zoji Pass. I discovered it in 1904. Leaving the dak hut near mile post 71, and turning south up the Gumber ravine, $\frac{1}{2}$ hour to shepherd's camp, $\frac{1}{2}$ hour on avalanche snow. One hour past goatherd's camp, and along moraine keeping to left. Where glacier makes a bend keep south-east up rocks cutting off corner.

* *Vide Vigne, also Knowles, in Sunday at Home, 1886.*

One hour up rocks, $\frac{1}{2}$ hour up easy snow slope keeping well to the left. S. F. 60. Total time to top $3\frac{1}{2}$ hours then turn S. by W. 30, across snow, by crevasses, $\frac{1}{2}$ hour to pass, turn W. along ridge, 20 minutes, then easy descent S 40 minutes to ravine. Here join route from Bairagi Ghat, 5 minutes above cave well marked tracks; re-ascend from cave to pass, 1 hour 20 minutes; total journey back four hours.

This route is practicable from end of June to end of September. Major Lucas also made a pass from the Kibal Nullah to Amarnath, with his Goorkhas, in 1907.

Returning from Panjitarni the pilgrims usually take a path to the right, and descend to Tanin *via Astanmarg*.

Panjitarni to Astanmarg, 11 miles.—Retracing the previous road to 2 miles above Khel Nur, the path turns to the right, west up a grassy valley with one or two ponds, to a pass 14,000 feet high. Such Kach survey peak overlooks it on the south. This was climbed by Bishop Lefroy of Calcutta in 1901. It offers a very impressive view. The descent from the pass to Astanmarg is stony and steep, about 2 miles. The best camp is in the pretty birch glades of the side valley on the north, where are some Gujar huts.

Astanmarg to Pahlgam via Tanin, 15 miles.—The path descends steeply through forest, and at Tanin rejoins the other route. Many of the pilgrims return from Amarnath to Pahlgam in one day, and to Islamabad the next. Good for the *sadhu*!

An interesting cross route, only suitable for late summer, is from *Astanmarg via Rabmarg and Har Nag to Aru*. This is 2 days journey.

Astanmarg to Har Nag, 5 hours.—A steep ascent of 2,000 feet to Rabmarg. There is a little lake overlung by the great cliff of Rajdain. Thence half hour's easy ascent, on snow, to the pass. From the pass the author's party, with Bishop Lefroy and Bishop Westcott, ascended the survey peak; an interesting climb, requiring Alpine equipment.

To Har Nag is a descent of 2,000 feet. Only fuel juniper.

Harbhagwan Valley is a fine centre for climbing the glaciers and peaks of the Kolahoi group. There is a path down the valley to Baltai used by shepherds as long as snow bridges remain, but afterwards blocked by unfordable rivers.

Dr. E. F. Neve and Lieutenant Mason, R.E., climbed the south peak in 1911, and the highest point of the north peak in 1912. They slept in a shelter tent at 16,000 feet and next day were roped for 16 hours.

Har Nag to Aru, 8 hours.—A grassy ascent to the Pass, 600 feet above the Nag. Then steep rocky descent, 1,000 feet to valley. One mile down is Nafaran, where are Gujar huts and birch trees. A steeper descent, 1 hour, to Aram, a Gujar hamlet at edge of pines; round this are pretty

glades for camping. If ascending from Aru stop here or at Nafaran. Valley bends west, narrows, gradual descent to Aru, passing two other Gujar huts.

Another path goes direct from above *Aram* to *Pahlgam* crossing a ridge about 600 feet high, thence descending to *Pahlgam* about 3 miles. *Rabmarg* is near the top of the hill, with ponds and birch glades; a good sportsman's camp.

From *Pahlgam* the route up the western branch of the *Lidar* is very beautiful.

Pahlgam to Aru, 7 miles.—Path through woods, gradually ascending to about 9,000 feet. The meadows at Aru and the view of the whole valley below are charming. Camp beyond and above village on a wooded spur, are close to bridge on right. Three-anna stage.

Aru to Lidarwat, 7 miles.—Near *Lidarwat* the valley opens out more and is in places densely wooded. The river has to be crossed. Previous enquiry should be made about the bridges. Height 10,000 feet.

Camp on west side of valley close to where stream from *Tar Sar* joins on. Three-anna stage.

Lidarwat to Kolahoi, 8 miles.—All the way on right bank. At first through pine forest, then birches, occasional glades. The cliffs above are striking; in places ice-polished to a height of several hundred feet. At about 4 miles path emerges from forest, and grassy valley turns east. The last huts (*Gujar Kot*), on opposite bank; many small streams to be crossed and forded if bridges missing as often in early summer. At a bend is pretty waterfall. At head of valley is great *Kolahoi* glacier. Its overhanging snout forms ice-cave from which issues the river. Camp half mile below this. There is abundant fuel. Height 11,200 feet.

The glacier should be visited. Not far up is a difficult terrace, one can climb up at the side. Further up it opens out, and the great sea of ice can be seen enveloping the base of the grand rocky peaks of *Kolahoi* and its neighbours. A climbing party with lightly laden porters might cross to *Sonamarg* by a saddle to the north-west of *Harbhagwan* peak. There is a glacier to descend.

There is a better route descending on the north side to *Sarbal* village, 5 miles from *Sonamarg*.

Camp high up, at 14,000 feet. Next day start early, making for the depression in range due north of letter O (*Kolah Oi*) in survey map; past 2 ponds; on the north side follow the ridge leading north-east which curves round to north-west to *Thajwas*, but keep down the steep snow slopes into the head of *Thajwas* Valley.

LIDARWAT TO PAMPOOR.

Lidarwat to Tar Sar, 10 miles.—The ascent is gradual up a pretty valley. No wood within two miles of the beautiful lake of *Tar Sar*; so it would be better to march on, crossing the ridge beyond (13,300 feet) and ascend to *Nagheran* Valley, a fair descent of 4 or 5 miles.

This is a beautiful glen with park-like slopes, formerly famed for its stags.

Nagberan to Sootoor, 12 miles.—Ascend to a lofty ridge, whence the views stretch across the whole valley of Kashmir. The descent steeply for 1,500 feet, and more gradually for 3,000 feet (about) to the pretty village of Sootoor. The descent is mostly on grassy slopes and through a fine forest. Sootoor is near the head of the Trahal Valley.

From here an old temple ruin called Narastan may be visited.

Sootoor to Pampoor, 12 miles.—A steep ascent of 1,800 feet zig-zagging up grassy slopes on one side, and down on the other for 2,300 feet; then across a plain to the village of Khru, where there are numerous sacred springs, at which great *melas* are held in July. Thence 5 miles to Pampoor; or more directly to Srinagar *via* Wean, about 11 miles.

Sootoor to Avantipur, 15 miles.—An easy march, all down hill through pretty scenery. Trahal is passed half way.

At Avantipur arrange to meet boats; or else march by land.

LIDAR VALLEY TO SIND VALLEY.

(Map 28.)

This is another interesting but difficult excursion, unless the weather and passes are specially favourable.

There are two routes from Lidarwat, either of which may be done in two marches; in this case the camp midway would be in woodless and desolate regions, in fact, as close to the water-shed as possible. If taking the journey in three short stages the camp would be as follows:—For either route the path lies up the steep ravine towards Tar Sar, and the encampment would be where this valley bifurcates at the highest level of the birches. *Sekwas*, distance 6 miles, height 11,000 feet.

If going *via* *Jajimarg* to *Soothrar* (in the Sind Valley below Gund) the path takes the valley to the north-west, gradually ascending to the water-shed over grass slopes or loose boulders; then plunges very steeply down a long slope to the forest, where camp. The third march is also a steep descent through the forest. This route is seldom used.

Sekwas to Khem Sar, 5 hours.—The path turns up a valley to the right and crosses a narrow and stony ridge (about 14,000 feet); then descends steeply to Yem Sar, a small tarn. Marmots abound here.

Half mile further is Khem Sar (tarn), below which camp. Wood must be fetched from further down the hill.

Khem Sar to Zaiwan, 2½ hours.—At first round grassy hill side, then a steep descent. In wet weather most dangerous for laden ponies. Camp in forest glade; Gujar huts near.

Zaiwan to Koolan, 2½ hours.—A steep slippery descent through forest. If going from Koolan first day, long ascent 7 hours to Khem Sar; second day to Lidarwat, also about 7 hours.

Lidarwat to Koolan or vice versa ; pay 3 stages, have extra men, and very light loads.—In August and September baggage ponies can go. Give *rassad* to all, for 3 days.

If the pony men belong to Koolan or Gund in the Sind Valley, or to Pahlgam, they will know the condition of the path.

Ladies in *jampans* must be prepared to walk in difficult places. In wet weather it is very slippery. Only hill ponies should be taken by these routes, and ordinary travellers should not attempt them before July. In September snow may fall on the passes. In 1903 the Residency party crossed, and the paths were somewhat improved.

LIDAR VALLEY TO WARDWAN OR VICE VERSA.

(1). **Pahlgam to Zoypal via Tanin**, as above, 15 miles.—Above Tanin ascend steep hill 1,000 feet, then keep round till contour line meets the river, cross by snow bridge just below Zoypal, and bear to right, camp near Gujar huts on small *marg*. Wood abundant.

(2). **Zoypal to Suknes**, about 20 miles.—Steep ascent up left bank, stream to south; ascent 500 or 600 feet, then nearly level to Sona Sar (lake). Path up right side, then steep ascent, rocky in places. Then over snow turning to left. Snow slopes to top of pass 15,000 feet, 3½ hours from camp. Then very steep zigzag descent for 800 feet; snow will vary much. Then rocky and grass. First suitable camping-ground 1½ hours from top, where two streams join. Here Gujar huts and wood. Then 5 miles down left bank to Suknes. Fair path but steep in places. Coolies take about 9 hours from Zoypal to the first huts. Suknes and Wardwan, *vide* pages 147-8.

A better route from Suknes to Zoypal practicable for ponies in good weather is *via* Rangmarg and Wawajan.

Suones to Rangmarg camp about 1 mile beyond the village, supplies scanty and coolies must be fetched from lower down the Wardwan, after leaving Suknes keep on the right bank, close to the stream about 6 miles to where road branches off to Bhotkhol nullah, then ascend a very steep spur to a plateau, from here a fine view is obtained of the Bhotkhol Nullah and the peaks beyond Nunkoon. There are two possible camping places on the plateau. The path about 14,000 feet enters the Kudarun Valley, the descent is through some birch trees very steep and slippery in wet weather to Rangmarg in the Kudarun Valley, camp by the side of a stream coming down from the left.

Rangmarg to Shisha Nag.—The path now ascends steeply sharp to the left leaving the Kudarun Valley to the pass over Wawajan. At first path keeps to the right-hand side then 1,000-2,000 feet up cross a shale slope to the left hand side and continues to top of pass. The shale slope is steep for ponies but possible with care. At the top of the pass is a large snow field. The descent is not difficult to Shisha Nag, on turning the corner suddenly the peaks above the lake break into view, here joint route up Liddar from Tanin to Panjitarni.

CHATER VIII.

SIND VALLEY TOUR.

THE Sind Valley is the largest tributary of the Valley of Kashmir. It is upwards of sixty miles long, and presents most diversified scenery, ranging from narrow upland valley and deep rock-girt gorge to open grassy meadow land and village-dotted slopes.

The Sind Valley is the chief trade route between Kashmir and Central Asia.

At the head of the valley is the Pass into Ladakh—the Zoji La.

<i>Summary of Marches.</i>		<i>Authorised rates.</i>	
		Pony.	Coolie.
Srinagar to Ganderbal ...	12½ miles.	12	6
Ganderbal to Kangan ...	11 "	8	4
Kangan to Gund ...	13 "	8	4
Gund to Sonamarg ...	14½ "	10	5
Sonamarg to Baltal ...	9 "	8	4
Baltal to Matayan ...	14 "	12	6
Matayan to Dras ...	13 "	8	4

Ganderbal is a small village at the mouth of the valley and the starting point on the march up. It may be reached from the Munshi Bagh in a few hours' march, distance 14½ miles; or by water *via Mar Nullah* and Anchar Lake, or by water from *Shadipur* on the Jhelum, a few hours' row, or from the Nasim Bagh on the Dhal Lake, by road 7 miles.

Time for travelling in the Sind.—Sportsmen can push through to Ladakh in late winter and early spring. There is then real risk from avalanches from Gagangir onwards. In bad weather travellers should halt, and pass dangerous slopes early in the morning, and cross the Zoji before daylight. For ordinary travellers the end of May is a good time. Snow

still lies in the shade at Sonamarg, and occasionally the steep snow slopes, almost pathless, are dangerous for ponies even below Sonamarg.

June is a fine month ; and is a better time for many excursions than later ; as there are still solid snow bridges, by which one can penetrate otherwise pathless ravines, as, for example, to Amarnath cave from Baltal, or to Har Nag. Pony transport is not reliable for crossing snow, if very soft, so coolies should be taken.

In July and August the streams are all swollen, and the snow bridges nearly all gone, so some of the higher valleys become almost inaccessible. In September the weather is often fine and dry, and the rivers become fordable ; October is also a good month.

Some general suggestions may be acceptable, as to Sind camps and trips

If time is no object, the end of May and half of June may be spent slowly moving up to Sonamarg. Then a fortnight at Sonamarg ; and several days at Baltal. After mid July camping on the top of the Zoji at Kanipathar, or Gombur would be interesting. Or the two marches extra to Dras would be a change into a drier climate, and very different scenery and people.

The route across to the Lidar from Koolan should not be tried before July, at any rate not with ponies ; nor in wet weather at any time. There is a great advantage in keeping the necessary pony transport with one ; paying the half rates for rest days.

One or two sensible coolies should be kept to go down to villages to fetch up provisions, etc., and care should be taken that the payment reaches the right person. It is well for those camping some time to promise a rupee as *bakshish* to the *lambardar* of the near village for his help.

For a month's tour for a mobile party the following might be suggested :—

- (1) to Sonamarg, 4 days : camp for 3 days there ;
- (2) to Baltal, and visit the Zoji Pass, Amarnath or Har Nag (if in June), 2nd week :

(3) to Sonamarg, doing some more single day trips :
3rd week ;

(3) to Wangat, 3 days ; to Gangabal lake and Chitagul,
camping a day or two at Tronkoi and the lake :
4th week.

As a variant to this, for *good walkers*, needing few coolies

2nd week, if late in June, *via* Amarnath to Shisha Nag and the Lidar Valley, or in August or September *3rd week* back from Balta *via* Sonamarg, Nichnai, Gada Sar, and Haramouk, see routes 23, 24, etc.

COOLIES.

V. B.—For all the higher snow trips, it is necessary to have permanent coolies. Those for the Sind are best engaged from the big villages below Kangan, or at Ganderbal. Full rations should also be taken for them, and given out day by day.

If taken through to Pahlgam and there dismissed, it would be fair to give two days' full pay for their return journey. Before attempting any of the more difficult routes as *e.g.* from Sonamarg to Amarnath and thence to Shisha Nag, or across to Tilel, or to Kolahoi by the glacier valley, full enquiries should be made. In Switzerland 2 guides would be ordered for such routes. And, as in this country the Sahib has to lead (unless he has a good shikari), he needs some mountain experience unless he would get himself and party into a fix.

From Ganderbal to Baltal, at the foot of the Zoji La, is four and a half marches as follows :—

Ganderbal to Kangan, $11\frac{1}{2}$ miles.—The first half is over a *karewah* commanding fine views over the Kashmir Plain. Three miles from Ganderbal, near Sipur, is a place suitable for encamping if the start was made by road from Srinagar, or at village Nunner, a little further. The road then descends and crosses the Sind river near Wayil. The next mile or two is bare, stony and hot, up the right bank, but, as it gets round the curve turning east, the scenery improves and there is more shade. Near Pron paths branch off to hittagul and to Wangat. (See below, Gangabal tour) Crossing the Wangat stream we soon come to the *Parao*. Kangan is a pretty village with a walnut tree grove. A fine large bungalow has been built here. The Haramouk crags look very grand from here and along the march. Beyond Kangan difficulty is often experienced with supplies and coolies. It is best to get baggage ponies at Ganderbal to go right through. The Zilladar will help in this. There is a *scrat* with rooms for Europeans at Ganderbal, Gund and Sonamarg. The two latter are only fit for occupation in emergency.

Travellers to Ladakh will take ponies through to Dras and there change them. Early in the summer ponies cannot cross the Pass, special arrangements must then be made for coolies at Gund (*vide* Rules for Visitors).

There is an easy short cut for active pedestrians from the Shalimar Bagh to Hyan, taking six hours. (See below).

Kangan to Gund, 13 miles.—A pretty path through wooded lanes and by scattered farms to Mamur, where there is a camping-ground near a shop, seven miles from Kangan. One mile on at Harro cross to left bank, and through charming park-like country; views exquisite. There are *good camping places* a short distance beyond this bridge. Two miles further on re-cross to right bank, on which continue to Gund, 4 miles. A bridle-path keeps entirely on right bank, ascends almost imperceptibly, winding round the foot of the spurs.

The latter part is a gradual ascent. Gund is a pleasantly situated village, some little height above the river. All arrangements for coolies should be made here. Ponies can be also got. Height 6,500 feet.

Gund to Sonamarg, 14½ miles—Just beyond Gund the road leads along rock cuttings in the face of the cliff, and passes at 2½ miles the pretty village of Revil, and Koolan, 2 miles beyond. It is from these villages that supplies have to be fetched for people at Sonamarg. Here the road crosses to the left bank for 1½ miles; then re-crossing, pursues its way through pasture land interspersed with walnut trees to Gagangair. Here is a beautiful place for encamping, 7,200 feet, at the 7th mile.

Above Gagangair the valley closes in, and is overhung by stupendous precipices and crags which rise 9,000 feet almost sheer from the river. High upon the left is a lofty waterfall. In early summer the road lies across avalanche slopes. It ascends steeply. Above the gorge the mountains leave a wide open valley. A raised part on the left bank is encircled by the river. It contains lovely meadows, and is fringed on all sides by forest. This is Sonamarg, than which a lovelier spot would be difficult to find.

The lower village by the first bridge is Shitkari. Here a footpath turns to the right and ascends through the forest to best camping-grounds on the marg. Height 8,600 feet. Ponies should go round.

The main path keeps on above village round the slopes above river, then on partially cultivated plaids to Sonamarg village, 2½ miles, and re-crosses there to right bank. There is a *sarai*, with 2 small rooms for European travellers, also a post and telegraph office.

The climate of Sonamarg is very bracing; but the rainfall is frequent though not heavy, except for two or three days at a time in July and August with fine spells in between. The rainfall is heavier from May to September than in Gulmarg.

Sonamarg was once the chief sanitarium in Kashmir. The villagers will point out the ruins of many huts and of a church, which was accidentally burnt down. Near the latter is the best encamping-ground. The only supplies are milk, fowls and eggs. There are splendid walks and scrambles all round. It is advisable to see that the water-supply is kept safe, and some sanitary arrangements should be made by each camp for servants and coolies. Snow trout can be caught in the main river.

The chief walk is up the Valley of Glaciers. Those who scramble up to glaciers should beware of falling rocks. Some knowledge of the mountaineering is necessary for any of the bigger climbs. The green hill to the north-west of Thajwas bridge is easy, and one can ride part of the ascent. Travellers taking their own horses should beware of poisonous grass here and at Baltal.

Sonamarg to Baltal, 9 miles.—A lovely path through rolling meadows interspersed with forest. The best intermediate camping-grounds are at Sarbal, 5 miles, and Ranga Masjid, 7 miles. Baltal is merely a stage, fixed here for the sake of maintaining communications with Ladakh during the winter. There is a new rest-house, across the Zoji stream, in a lovely situation among birch glades, with good camping-grounds.

Up the valley to the east is the path to Amarnath cave. See page 89.

Before the end of July there is also a practicable path to Har Nag leading up the valley to the south and a climber's route from Sonamarg to Kolahoi.

The route beyond this is given in the chapter on Ladakh, page 126.

Sonamarg is 185½ miles from Leh and 50 from Srinagar.

From Sonamarg there is a mountain path to Tilel (see route 23).

There is a direct mountain path from the *Shalimar Bagh to Haiyan*.

The traveller would encamp near the Dhal Lake, start early, cross the ridge at a height of 9,000 feet, then drop down through the forest to near Haiyan, 6 or 7 hours' march. From Haiyan he would go to Koolan, 13 miles, and the following day from Koolan to Sonamarg, 11 miles.

GANGABAL LAKE.

On the slopes of Haramouk, at a height of 12,000 feet above the sea, are several lakelets, the largest of which, Gangabal, is considered sacred and is held to be the source of the Ganges! Part of the funeral rites of Kashmir Hindus consists in visiting this lake. The pilgrimage is during August. The route is as follows:—

(1) **Ganderbal to Wangat, 13 miles.**—As far as Pron the path is the main route up the Sind Valley. It then turns up to the north, across some rice fields, and passes along the right bank of the Wangat stream. The path is not very level.

Wangat is a pretty village about 6,800 feet high. Three miles beyond the village are some very interesting ruins of two old temples, with cloisters, etc. They are called Rajdambal and Nagbal (see Chapter IX, page 111).

(2) **Wangat to Gangabal, 12 miles.**—Above the ruins a path for 4,000 feet goes steeply up the hill, and ascends at once to over 10,800 feet. The ascent is grassy. If wet this is too slippery even for a hill pony, and for dandies it is very steep and long. The views are magnificent. Turning round the shoulder there are gentler slopes with birch forests and Gujjar huts. This is called Tronkol, and here one may well encamp, and do the return journey to the lakes next day. Above Tronkol there is gradual ascent over grassy shoulders, with occasional boulders to the lakes, a distance of 4 or 5 miles. The Haramouk glaciers come down to the shores of the lake. This excursion would be specially interesting at the time of the Hindu pilgrimage. If camping at the lake carry wood for cooking.

Another path, nearer but steeper, is from Chittagul. In the old survey map *Wangat* was wrongly marked in the Chittagul Nullah, which is west of it:—

(1) **Chitagul to Mahalesh, 6 hours.**—This is a steep climb, zigzagging up the spur to its summit about 5,500 feet up. This is not rideable. Here there is a grand view. The camp is an exposed windy place. There is water and wood in a ravine within ten minutes' walk.

(2) **Mahalesh to Gangabal, 3 hours.**—Along the grassy ridge over one pass over 13,000 feet; then to left and down to the stream, coming from lake; then follow it up. It is best to go up by *Wangat* and *Tronkol* and return by *Mahalesh*; 4 days are enough for the trip.

An interesting excursion is to continue on, *via Gangabal to the Wular Lake*.

At the head of *Gangabal* a path ascends past another small tarn, *Loolgol Nar*; then descends to *Kalasar*, a small lake shut in by frowning precipices. Then comes an easy ascent to a pass, probably 14,000 feet high, and steep descent to the picturesque ravine at the head of the *Erin Nullah*. The head of this nullah is called *Chitral*. Here camp. This is a 6 or 7 hours' march. Next day descend to *Koolbora*, 9 miles, or *Tsunt-nulla*, 12 miles, thence to *Wular Lake* at *Nidihul*, 8 miles, *Chitral* to the *Wular* about 10 hours' march.

Trip to Haramouk via Erin Nullah.—Mount *Haramouk* is one of the most striking features in *Cashmir* scenery, and a nearer inspection of its glaciers and lakes will reward the enterprising.

Reputed inaccessible, the special abode of the gods, it has of recent years been conquered step by step. The various peaks, first the north or station peak, then the west, then the central one, were ascended by separate expeditions, and finally in 1910 *Dr. E. F. Nave* and *Mr. G. W. Millais* climbed the east and highest peak. The marches would be from *Nalihal* on the *Wular Lake* to *Koolbora*, 5 hours; on the way pass *Sumlar*, at 2½ hours. There are many good camping-grounds.

Koolbora to Sarbal, 6 hours.—To bridge at junction of two valleys; 3 hour, then leave *Chitral Nullah* on left. Keep to right, gradual

ascent, 3 hours to Ganaspotra, then leave forest grassy, 2 hours to little lake, 1½ hour to 2nd lake. The route for climbing is up the ridge to north. From Sarbal to the summit and back is a stiff climb of 12 hours.

General Bruce climbed it from Gangabal in 1907, a fine bit of ice-work. This is a most beautiful valley. Returning to the Wular 4 hours to Koodoora, thence 4 hours to Nadihal.

GANGABAL TO BANDIPUR VIA TRESANGAM AND ATAWAT.

1. Gangabal to Tresangam.—On leaving Gangabal ascend from the head of the lake *via* Loolgool Nag as on the way to the Erin Nala, then leaving Kalasar on the left go straight down the valley that is seen from the pass by Loolgool Nag. This is the Tresangam Nala. There is no road, only steep tracks, in some places very steep, and is entirely unfit for laden ponies, for the first mile or two the descent is very steep, then a torrent has to be forded which brings one or two more goat tracks leaving the stream on the right, huge masses of boulders then make it impossible to keep by the stream as the path ascends up the hillside for about a mile and descends again to the stream, which again has to be forded more goat tracks lead into a belt of firs, and a little lower down the valley another nullah* joins at Tresangam (11,000 feet?) camp here. There are two Gujars' huts and plenty of wood, distance probably from Loolgool Nag to Tresangam 8 miles, but the road is bad the whole way.

2. Tresangam to Atawat.—Probably 12 miles, accomplished in 12 hours as the track was bad, cross the bridge from Tresangam and ascend steeply up the hill to probably 12,000 feet, keep high up hill side for 4 or 5 miles. The views are glorious, the way leads over a beautiful marg, called Magan (?), this would be an excellent place to camp in June or July, wood is plentiful. A mile or two beyond Magan the road descends sheer over a precipice and continues along a steep sharp spur, and is most dangerous for laden ponies; then leaving the spur the path descends sharply down the mountain side on the left, and finally comes to a small village. The path below this village is better than previously though very bad in places, it descends at last to the stream which has to be forded, the bridge is worse than useless, further on just by Awatkot another stream has to be forded, the bridge having been entirely washed away. There is a forest bungalow at Uskot but no very good camping-ground supplies can be obtained from the village.

3. Atawat to Bandipur, 9 miles.—This is an easy stage. The first 3 or 4 miles the road is rough, but improves as the valley widens out and a fine view of the Wular is seen, finally the Gilgit road is joined 3 or 4 miles above Bandipur.

From Sarbal to Mahalesh would be a practicable climb over snow ridge. But coolies would not follow.

* Up this nullah is a route to Tilel.

GANDERBAL TO THE GANGABAL LAKES VIA THE WANGAT NULLAH AND TRONKUL.

The Wangat Nullah crosses the main Sind Valley road about 10 miles from Ganderbal and 1 mile from Kangan. Turn sharp to the left just before reaching the bridge across the nullah and proceed up the nullah to the village of Wangat, about 15 miles from Ganderbal.

Continue for another 3 miles along the same track until some Buddhist ruins are reached. The camping-ground is alongside these ruins and from this point the ascent commences.

The ascent is by a very steep and broken road for about 4 miles. It is possible to take lightly laden ponies up it but in places roads may have to be taken off and passed along by hand. At the top of the ascent the track is fairly level but there are one or two difficult spots to negotiate. The ascent is about 4 miles and it is another 4 miles from the top to the camping-ground known as Tronkul.

There is no water to be had for the first 6 miles of the road.

From Tronkul to the lowest of the Gangabal lakes is about 4 miles. The track starts along a grassy ridge, crosses a shallow valley to another grassy ridge at the upper end of which the track turns sharp to the right and leads along a gentle slope to the lake.

An easier route is—

(1). **Sarbal to Mohandmarg, 1 march.**—Mohandmarg is on top of the range, south of Haramouk; it overlooks Ganderbal. Height about 10,500 feet. There is wood and water.

(2). **Mohandmarg to Ganderbal, 1 march.**—A steep, zigzag descent to Moingam, thence two hours to Ganderbal.

The ascent from Moingam to Mohandmarg would take 6 hours. It is a lovely camping-ground; from there one march to Koodoora in the Erin Nullah.

There is a route *via* Wangat to Tiel:—

(1) As above, **Ganderbal to Wangat, 15 miles.**

(2) **Wangat to Tronkol, 6 miles.**

(3) **Tronkol to Gandasar, 10 miles.**—Cross a pass over 13,000 feet half way, and descend to grassy valley and birch trees. Here join, a path going by Nichnai to Sonamarg, camp 10,000 feet.

(4) **Gandasar to Lohinsa, 10 miles.**—A steep climb to pass, 13,500 feet, then descend to narrow ravine. Height 9,800 feet.

(5) **Lohinsa to Girinal, 12 miles.**—A steep ascent to 11,200 feet, then a lovely walk along grass ridge, with birch forest for several miles. Then descend to Girinal village, or 4 miles further to *Purana Tiel*.

The author traversed this route early in October with baggage ponies from Tiel, the wonder is they were not killed on the steep slippery slopes, but Tiel ponies are trained gymnasts.

See Routes 23, 24, for Tilel.

On the right bank of the Sind river there is a path from Kangan to Manasbal Lake. It is fairly good. The distance is 16 miles. Half way is Moingam, which is the best place for camping. The path is very pretty. It keeps near a canal which passes round what would, without it, be barren hillside, and supplies the gardens at Manasbal. It is a short march direct from Ganderbal to Manasbal. Most travellers go by boat *via* Shadipore and Sambal.

MANASBAL LAKE.

Between the river and the foot of the mountain spurs, at the lower end of the Sind Valley, is a small lake, enclosed by a low hill, Aha-thung on one side and an elevated plateau on the other. This is Manasbal. Though only a mile or two in diameter, it is very pretty, and, owing to its depth, always has a considerable expanse of clear water.

At the upper end are some well shaded terraces watered by a canal brought from the Sind river. These, especially the highest, afford a very pleasant encampment. Close by is an old *faqir's* garden, renowned for its peaches and grapes. His cave is also worth visiting. He intended it for his grave, but after all was buried outside in the garden. Imbedded in the soil at the edge of the lake is a small temple of which the roof only is visible, it having probably been submerged by some rising of the water-level. At the foot of the hill opposite is a small village, Kundbal, whence most of the lime in the valley is obtained. A great part of the hill consists of fossil limestone. On the northern bank facing this village is an extensive terraced garden faced with masonry, called the *Darogha Bagh, another relic of the garden-making epoch of Jehangir. The outlet of the lake is a mile below this, a small canal, which joins the river at Sumbal. The large village of Batpur is near on the south-west, with many shady camping-grounds, springs and remains of old buildings and tanks.

The road from Srinagar to Bandipur passes through it. Morning and evening breezes from the Sind Valley keep the climate fairly cool. The lotus is nowhere more abundant or

* *Vide* Appendix. Note on Mughal Gardens, page 228.

beautiful than on the margins of the lake. At Sumbal there is good fishing.

THE WULLAR LAKE.

The Srinagar-Gilgit road crosses the river to Sumbal which is 2 miles from Manasbal. It leads north across the plain to the foot of the hills and skirts the spurs, passing the villages of Ajas and Sadrkot. It is a beautiful ride with a wide view of the lake. When the lake is high it extends to these villages, but in winter is miles away.

Bandipur is the starting point for Gilgit, and the chief commissariat depot. There is a bazaar of some size, also post and telegraph offices. See page 167.

Within 2 miles of Bandipur is Nadihal, the landing-place for the Erin Nullah. In late summer the neighbourhood of the Wular Lake is a pestilential mosquito-haunted swamp, and travellers should endeavour to cross the lake and get well away from its shores during the early part of the day. The best time to camp near the lake is in April and May.

Watlab, Zirimans and Kunas are the favourite camping-grounds. The last is safest for boats.

A few miles beyond Bandipur, on the north shore, immediately opposite the river mouth, is Alsu, whence there is a route to the Lolab and to Nagmarg.

The village is a mile or so from the shore and on higher ground.

Kewnas lies south-west of Alsu in the bay formed by the rocky spur Shukr-ud-din

Another path to the Lolab starts from Kewnas, and the bridle-path round the lake here ascends and crosses the low neck behind the Shukar-ud-din hill ; by road it is about 7 miles to Sopor.

In the little hollow on the east of the rocky point is Zirimans and on the west is Watlab. In stormy weather there is no safe mooring for *dungnobs* at either place.

The lake is a large sheet of water with very ill-defined shores. Early in the summer it is often fifteen miles or more broad. But in the autumn little clear water is left, the weeds are so universal and thick. The deepest part is towards the

low hill called **Baba Shukr-ud-din** on the north-west side, on the top of which is the shrine or *ziarat* of that saint, a renowned disciple of Nur-ud-din's. Near this the rocks come down to the water and a little distance out in the lake is a curious bubbling spring. Near the mouth of the Bandipur Nullah is a small island with some ruins: one of these was probably a *barahdari* and was built by Zain-ul-abadin. The other is an old Hindu ruin, formerly of grand dimensions, and still showing some fragments of elegant pillars and arches. In the spring and late autumn some fine sailings may be enjoyed on the Wular. There are frequently high winds in the afternoon: this makes the passage of ordinary Kashmir boats rather risky. Storms collect on the mountains, specially over Haramouk, and sweep down the valleys with great violence and little warning.

KEWNAS to RAJPUR An interesting little trip would be the forest path from Kewnas ascending 2,500 feet to the pretty little basin Rampur-Rajpur, where there is a forest hut: thence west down towards Sopor, or north over the hill to Nagmarg or across the ridge and down to the Lolab. The direct route is not fit for ponies; but one can ride along the top of the ridge to the west for 5 miles, then join the Arwan rouse, and descend to Doras forest hut: altogether about $4\frac{1}{2}$ hours, from the forest hut at Rampur-Rajpur there is an easy climb of about two hours to the top of Kahoota Station Hill, which commands a lovely view, quite uninterrupted on all sides.

NAGMARG.

Nagmarg is a favourite resort of Europeans and Gujars, situated on the flattened grassy summit of the range overlooking the Wular Lake above Alsu. It is surrounded by pine forest and is in many respects similar to Gulmarg. The prospect is, if anything, more beautiful. There is now a forest hut here.

It is reached by a fairly easy ascent of about 3,500 feet from Alsu which should be made in the early morning as it is quite shadeless. The water supply is a small spring liable to be fouled by cattle and to contain worms; but this has been improved and in early summer there is abundant supply. This is a charming place for a camp. (Koebel).

Cattle tracks and shepherds' paths lead right along the crest of the range to the Tragbal Pass, a day's march.

THE LOLAB.

The Lolab is a pretty valley behind this range. The road to it from Alsu ascends for about three-and-a-half hours, leaving Nagmarg on the right, then descends an equal distance through fine forest scenery. The Lolab is three or four miles wide and four times that length with several smaller nullahs opening into it. Its peculiar beauty consists in the wide park-like expanse of meadow and fields dotted over with groves of walnut trees and orchards in which villages are almost buried from sight, while the valley is fringed with low cedar-clad hillocks and shut in by dense forests. Formerly bears abounded, but frequent drives have decimated them. The valley should be visited before July or after August, as it is not elevated, and is hot in summer.

There are nice little forest huts at short stages, containing chairs and tables, and prettily situated. Permission to use them should be obtained, in writing, from the Assistant Forest Officer at Baramulla. The huts are at Doras, Chandigam, Kumbrial, Patalnag (above Daogmulla) Renawari and Kitardaji.

LOLAB TRIPS.—Start from Baramulla, Sopor or ALSU. Many other cross routes are possible. For simplicity I give the three chief:—

1. From Baramulla to Pantsal forest hut, 9 miles. An undulating good path; pretty scenery.

2. Pantsal to Kitardaji, about 7 miles. Ascent 600 feet, follow lovely forest ridge; descend little but beautifully situated, view of Kaj Nag mountain.

3. Kitardaji to Khaipor (Renawari hut), 12 miles. Cross Mowar stream at 5 miles, then ascend, skirt hill, lovely deodar forest, descend to Dachildora, and down to Khaipor, turn left up to hut, half mile; from here a party with tents could go to Shalura; turn N. E. to Tregam and thence E. to Kumbrial. The whole district of Utar Machipura is pretty.

4. Khaipor to Patalnag hut, above Drogmula, about 10 miles, crossing the Pohru valley and passing many villages.

5. Patalnag to Kumbrial hut, following up the Pohru, along a narrow forest valley, about 8 miles.

6. Kumbrial to Doras hut, 10 miles, fairly level valley, more open. If camping, Lalpur is the best place.

7. Doras to Alsu, about 14 miles. Cross a ridge 3,000 feet up; ascend through forest; a long, steep descent to Alsu; camp at village, 1 mile

from lake, or get into boats, *previously* arranged for. From the crest of the pass it is $1\frac{1}{2}$ hour N. E. to Nagmarg forest hut, or about $2\frac{1}{2}$ hours S. W. to Rajpur forest hut. (N. B.—One cannot be sure of getting a dunga from Bandipur.)

B.--A made road goes from **Sopor to Lalpur, 39 miles, via Chogu, Drogmulla, Kotwara**, as follows:—

1. From **Sopor to Burwan hut, 10 miles**, along a flat dusty road. If camping go to Chogul, 13 miles, as Harwan is out of the way.

2. **Harwan to Patalnag, about 14 miles**.—Following left (true) bank of Pohru river, join above route A 5.

N. B.—In early summer a dunga boat can usually be towed up the winding Pohru, with its pretty wooded banks as far as Pohru-pet two miles from Harwan hut. Here there is a rapid, if practicable, to ascend, then the boat might proceed to Chogul, or even to Awatkotla above which it is too rapid. There is seldom enough water for this after mid June; or

2. Alternative to above, **Harwan to Doras hut**. Climb the ridge N. E., about 3 hours ascent, not steep, hot in afternoon, descend $1\frac{1}{2}$ hours to *Doras* forest hut; distance about 9 miles. Thence, as above, to Nagmarg or Alsu, see A 7 or, in the opposite direction to Kumbrial, see A 6, and so back to Baramulla, 5 more marches, total 8 marches.

C. From Alsu (on the Wular Lake) arrange transport 24 hours before, from Bandipore or Sopor.

1. **Alsu to Nagmarg**, see page 104, *about 6 miles*, and steep ascent of 4,000 feet.

2. **Nagmarg to Doras, about 9 miles**. Descend three hours, then 1 hour on level; thence, as in A 6, reversing the direction; or B.2, see above.

Another path from Nagmarg would be S.W. to *Rajpur-Rampur* hut, chiefly descent, one ascent 800 feet midway, about $3\frac{1}{2}$ hours, and thence back to the Lake at Kewnas, 3 hours more. There is also a direct path from *Rajpur-Rampur*, to Sopor, about 9 miles; also one over the hill N. to Doras, not rideable in many places. There are many other paths. All the above routes are fit for baggage ponies, except the last, and may mostly be ridden on hill ponies. There is a Post Office at *Handwara*, which is the Tahsil, and is not far from the road between Renawari and Patalnag—see A 4. There is a direct road from there to Sopor, 16 miles. Ordinary travellers had better keep their transport right along, even if staying a day or two at some stages. The forest huts are usually a little way off the direct roads. If tenting in fine weather, it is better to be independent of them. Some of them are infested with fleas.

CHAPTER IX.

THE TEMPLES OF KASHMIR.

TH**ERE** are few ruins in India comparable to the massive temples of Baalbec or Palmyra ; but ancient India has nothing more worthy of its early civilization than the grand remains in Kashmir, which now feebly excite the wonder of European tourists and the pride of Kashmir Brahmans ; the massive, the grotesque, the elegant in architecture may be admired in many parts of India, but nowhere is there to be seen the counterpart of the classically graceful, yet symmetrically massive, edifices of Kashmir which, though inferior to Palmyra or Persepolis in stateliness, are in beauty of position so immensely superior to either.

The numerous indecipherable ruins which abound throughout the valley, and the immense quantity of cut and fluted stone, built, or rather patched into the walls of mosques, houses and into *ghats* and embankments, give evidence of how many have been lost of the series of temples erected by various rulers of Kashmir between the second and tenth centuries A.D.

Fortunately it is possible to identify most of those which remain, and they represent different periods in the development of the style.

Much that is very contradictory has been written about these temples, in spite of the evidence of history, conformation and style. "It is certain," to quote a competent Indian archaeologist, who confirms the conclusions of General Cunningham, Bishop Cowie, and others, "that all of the existing Kashmir temples were dedicated to the worship of Siva, and enshrine merely a conical stone, the popular symbol of that divinity. The interior of the *cella*, or sanctuary, is seldom more than ten or twelve feet square ; space ample enough for the simple form of adoration which alone is required by Mahadeva (Siva) from his devotees, *viz.*, that they sprinkle water on the sacred symbol,

pace round it with measured steps, and finally crown it with a garland of flowers. The drain for the purpose of carrying off the waste water still exists in most of the temples, and is clearly part of the original structure being a projecting corner from some one of the few enormous blocks of which the building is composed." Strengthening this almost irrefragable internal evidence as to the purpose of the buildings, we may add that Hinduism in Kashmir, from time immemorial, has been the centre of Shiv worship, which absorbed to itself the primitive serpent or *nag* worship, of the aboriginal tribes. In many places this combination determined the site of the temples, which are placed in a tank supplied by springs or *nags*, the special abodes of the water snake gods whose form was in many cases coiled round the symbol of Siva. Elsewhere the temples would be surrounded for the same purposes by a tank fed by a canal, as at Martand and Bhaniyar.

The exact age of the temples, and the name of the founders may in many cases be safely identified from the *Raja Taringini*; and that of others deduced with fair accuracy from modifications in the style or from tradition.

But the discovery of Brahmi script in the enclosure of the Badshah tomb makes one willing to accept the earliest date compatible with the ancient chronicles.

For a general idea of chief temples, we cannot do better than quote *verbatim*, by kind permission of the author, portions of the paper on the Architecture of Kashmir, by T. S. Growse, Esq., C. S., published in the Royal Asiatic Societies Transactions:—

"Owing to the great thickness of the walls, and the massiveness of the plinth upon which the temples are raised, their exterior proportions are much more imposing than would be expected from the insignificant interior.

"Though less suggestive of Greek influence than the detached pillars of the colonnades, the pilasters, with their definitely proportioned base, shaft and capital, the square architraves of the doorways and the triangular pediments that surmount them, but still more the chastened simplicity of outline and the just subordination of merely decorative details, are at a glance seen to be classic rather than oriental. Beyond

the points above enumerated, the resemblance ceases; the porches are curved into a bold trefoiled arch of similar character with English Gothic of the first pointed period, and the roof, instead of being flat and out of sight, is a high pitched pyramid, broken, however, into two compartments by a horizontal band carved with dentils and tryglyphs. In short, the adaptation of classic forms was complete just so far as the differences of climate and the conventionalities of religion allowed. In the sunny land of Greece a roof was left to be a useless encumbrance and therefore kept out of sight; on the snowy hills of Kashmir a substantial covering overhead was above all things to be desired; hence the roof became a prominent feature in the design. In sculpture the influence of Greek art was unfelt since the archaic representations of the deity were too sacred to admit of modification, and were reproduced in all their primitive rudeness in niches and on panels moulded with the most artistic grace.

In all the Kashmir temples, except Martand and Avantipur, the *cella* forms the entire building. In some examples there is an open doorway on each of the four sides; in others only one, facing east or west such a position enabling the rays either of the rising or setting sun to fall full upon the idol. In both cases the exterior effect is the same. When there is only a single entrance the porch above it may be made slightly more prominent, but on each of the other faces is a similar erection, though the doorway within it is closed. At the larger of the two Pattan temples the projection of these pseudo-porches is so considerable that they form deep niches or rather shallow chambers in each of which was once a *lingam*.

Although the purely architectural details of the building so markedly resemble classical styles, yet in its primary conception it is linked closely with the temples of Bengal: in both there is the square block surmounted by a pyramidal roof and in both the plan is extended by projecting porches on one or more sides; but in the more oriental form of Bengal the pediments and gables are curved. By a repetition of the porch and the addition of flanking *cellas* the imposing dimensions of Martand are attained (which may be said to have the counterpart of the chancel choir nave and transepts of Christian churches).

The earliest of all the temples is said to be that crowning the Takht-i-Suleiman, called by Hindus *Shankarachara*. This hill rises to the height of 1,000 feet above the plain, and overlooks the town of Srinagar, which spreads away to the foot of the opposite but somewhat lower eminence called the Hari Parbat. The first religious edifice on this commanding site was built by Jalaka, the son of the great Buddhist convert Asoka, about 200 B. C. In all probability there is no fragment of this now remaining. The temple was subsequently rebuilt and dedicated to *Jyeshthdevara*, a title of Mahadeva, by Raja Gopaditya, who reigned in the VI century A. D. To this date may be ascribed the low enclosing wall and the plinth of the existing temple; but some of the superstructure is evidently more modern.

(The quality of the stonework of the gateway and platform as well as of the actual plinth, and of the stone-lined tank to the south, is very remarkable. Evidently all of one period, and why not of Jalaka?—*Editor*).

Of more interest and in much more perfect preservation is the small cave temple at *Bhaumajo* (see page 86). It stands at the far end of a natural but artificially charged fissure in the limestone cliff which rises from the bank of the Lidar at the mouth of the valley bearing the same name, about half a mile from the village of Thawan. The entrance to the cavern, which is more than sixty feet above the level of the river, is carved into an architectural doorway and a gloomy passage fifty feet in length leads from it to the door of the temple. It is a simple *cella* ten feet square, exterior dimensions, raised on a boldly moulded plinth and approached by a short flight of steps. The square doorway is flanked by two round-headed niches despoiled of their statues and is surmounted by a high triangular pediment reaching to the apex of the roof with a trefoiled tympanum. There is no record for tradition as to the time of erection; but from the absence of all ornamentations, and the simple character of the roof, which appears to be a rudimentary copy in stone of the ordinary sloping timber roof of the country, it may with great probability be inferred that this is the earliest perfect specimen of a Kashmir temple and dates from the V or VI century of the Christian era.

The little shrine at Payach (page 77) comes next in point of antiquity, and in intrinsic beauty and elegance of outline is far superior to all the existing remains of similar dimensions. The traveller Vigne regarded it as the most modern of all, but apparently from no more solid reason than its excellent preservation. This, however, may be explained by the retired situation at the foot of a high table-land which separates it by an interval of five or six miles from the bank of the Jhelum and by the marvellous solidity of its construction. The *cella*, which is only eight feet square, and has an open doorway on each of the four sides, is composed of only ten stones, the four corners being each a single stone the sculptured tympanums over the doorways of four others, while two more compose the pyramidal roof, the lower of these being an enormous mass 8 feet square by 4 feet in height. It has been ascribed by General Cunningham, on grounds which in the absence of any positive authority either way, may be taken as adequate, to King Narendraditya. The sculptures over the doorway are coarsely executed in comparison with the artistic finish of the purely architectural details, and are much defaced, but apparently represent Brahma, Vishnu, Shiva and the goddess Durga. The interior is still occupied by a large stone *lingam* and from the water drain and the bulls carved on the smaller plasters of the doorway it is evident that this was the original intention.

Of somewhat later date are the temples at *Wangat* (page 96). These are in two groups situated at the distance of a few hundred yards from each other, and consisting, respectively, of six and eleven distinct buildings. In close proximity is a sacred spring called Nag-bal, and by it the footpath leads up the heights of Haramukh to the mountain lake of Ganga-bal, a celebrated place of pilgrimage. It is probable that the temples were erected at different times by returning pilgrims as votive offerings after successful accomplishments of the hazardous ascent. The luxuriant forest growth has overthrown and buried almost completely several of the smaller temples. On the summit of the largest a tall pine has taken root and rises straight from the centre in rivalry of the original finial. The architecture is of a slightly more advanced type than at Payach, the most striking feature being the bold projection and lofty trefoiled arches of the lateral.

Of very similar character, but in more perfect preservation, is the temple at *Bhaniyar*. This is much better known since it stands on the very edge of the high road leading from Murree to Srinagar, about a mile-and-a-half from the village of Naushahra. The actual shrine is a *cella* of larger dimensions than usual, being $13\frac{1}{2}$ feet square in the interior, with walls $6\frac{1}{2}$ feet thick, supported on a basement, 4 feet square, of singularly noble proportions. It is the earliest example that still retains its original enclosure, a cloistered quadrangle measuring 145 by 120 feet. Though the finer touches of the chisel have been effaced by time, the colonnade is in other respects almost perfect. The wall is pierced by a series of pedimented and trefoiled arches forming shallow recesses for the accommodation of priests and pilgrims.

A few miles further on the road is another temple of similar character, but originally, as it would seem, of more elaborate design. Here, however, the surrounding colonnade, if it ever existed, has entirely disappeared, and only the blank wall remains.

The celebrated temple of *Martand* is the next to claim attention, and is of far more imposing dimensions than any other existing example except Avantipur. It alone possesses in addition to the *cella*, or sanctuary, a choir and nave, or, to give them their Sanskrit terms, *antarala* and *orddhmandupa*. The nave is 18 feet square, and the total length of the building 63 feet. The sanctuary alone is left entirely bare, the two other compartments are lined with rich panelling and sculptured niches. The roof has been completely removed and lies in vast masses round the wall of the buildings; it is calculated that the height cannot have been less than 75 feet. The western entrance, approached by a wide flight of steps, now encumbered with ruins, is surmounted by a magnificent trefoiled arch and flanked by two side-chapels, one connected with the nave by the extension of their roof over the narrow intervening passage. On the other sides of the temple are similar lofty arches with closed doorways below. The pillared quadrangle, which is 220 by 142 feet in dimension, varies in no essential point from that at *Bhaniyar*, but the carving is rather more elaborate. There are in all eighty-four columns, a singularly appropriate number in a temple of the Sun; if, as is supposed, the number eighty-four is accounted sacred by the Hindu in consequence of this being

the multiple of the number of days in the week with the number of signs in the zodiac. The colonnade is distinctly recorded in the *Raja Tarangini* as the work of the famous King Lalitaditya, who reigned from 699 to 735 A.D. From the same authority we gather, though the interpretation of the verses is considerably disputed, that the temple itself was built by Ramaditya, and the side-chapels, or at least one of them by his Queen, Amritaprabha. The date of Ramaditya's reign is involved in some obscurity, but the safest conclusion is that he died in the first half of the fifth century after Christ.

On the right bank of the Jhelum, about half way between the towns of Srinagar and Islamabad, stood the capital of the famous King Avanti Varma, which he called after his own name *Avantipur* (page 79). Here he founded two temples—one before his accession to the throne, the other and larger one subsequently. Both were dedicated to Mahadeva—the former under the title of Avanti-swami, the latter under that of Avanti-swara. His reign extended from the year 858 to 883 A.D. The two temples are now well excavated but the gateways of both are standing and the colonnade of the smaller temple which had been completely buried underground, has recently been excavated. The style corresponds with that of the Martand quadrangle ; but the semi-attached pillars of the arched recesses are enriched with elaborate carving of very varied character, while the large detached columns are somewhat less elegantly proportioned. All travellers to Islamabad should visit these temples as fresh recent excavations have revealed a wealth of carving unparalleled in Kashmir.

It is recorded in the *Raja Tarangini* that Sankara Varma, who succeeded Avanti Varma, and reigned from 883 to 901 A.D., in conjunction with his Queen Sugandha, dedicated to Mahadeva, under the titles of Sankara Guresa and Sugandhesvara, two temples at his new capital of Sankarapura. This town is identified with the modern *Pattan*, where, beside the highway leading from Srinagar to Baramulla, two stately temples are still standing. Each is a simple *cella* ; but in the larger one, as already noted, the side porches are so deep as to constitute separate chambers. In both the architecture is of the same character as at Martand and of equal excellence.

Here and there the carving is as sharp and fresh as if executed yesterday, but there are many ominous cracks in the walls; and if the forest trees, which have taken root in these crevices, are allowed to remain and spread, the total destruction of both buildings is imminent. The large one was much injured by the earthquake of 1885.

Such a fate has already overtaken a most interesting temple situated on a diminutive island, called the *Lanka*, at the entrance of the Wular Lake. It was constructed on a plan entirely different from that of other existing examples, being a square (34 feet in dimension) with a single porch or narthex on the south side, projecting 6 feet beyond the walls of the *cella*. The exterior was ornamented with arcades of trefoiled niches in two tiers. These are so Gothic in character that they might be transferred without incongruity to the walls of an English cathedral. The island is a dense mass of jungle; and the forest trees, which have already displaced great part of the massive masonry, threaten soon to bring down all the remainder. There appears once to have been a surrounding colonnade, as a large number of fluted pillars are lying about, but none *in situ*.

The temple of *Pandrathan*, the last in the main series is next to Martand, the best known of all, in consequence of its close proximity to the capital. The pond has been drained and plinth excavated. Access to the interior is, therefore, a matter of little difficulty which is fortunate since the domed roof is well worth inspection, being covered with sculpture of such purely classic design that any uninitiated person who saw a copy of it on paper would at once take it for a sketch from a Greek or Roman original. The temple is 18 feet square, with a projecting portico on each side, and displays, in a confused exuberance of decoration, more especially the repetition of pediment and trefoil, clear indications of a latter date. It was erected during the reign of King Partha, who governed Kashmir from 913 to 921 A.D., by his Prime Minister Meru, who dedicated it to Mahadeva under the title of *Meruvarrdhanaswami*. The ground about it was then occupied by the original city of Srinagar; the modern name *Pandrathan* being a corruption of the Sanskrit *Purandhis-thana*, i.e., "the old capital." The seat of government had

been transferred to the present site by King Pravarusena II, nearly 500 years before the foundation of the temple but the old city was not entirely deserted till its destruction by fire in the reign of Abhinanyu, about the year 960 A.D. The conflagration was so violent that, excepting the temple, which was protected by the water about it, no other building escaped. There are in the neighbourhood of *Pand-rathan* some few fragmentary remains, which General Cunningham, more than twenty years ago, amused himself by piecing together and reconstructing with a wildness of imagination which his present mature judgment would be far from endorsing. The remains are simple as follows: first two large *lingams*, one 6 feet high, erect and entire; the other broken into three pieces, the lower part polygonal, the upper round with conical top, which together made up a height of 16 feet. Near these, which are separated from each other by a short interval, is a huge mass of stone, being the feet and legs, as high as the knees, of a colossal seated figure, probably a Buddhist image. At some little distance beyond this an isolated crag has been cut, as it stood, into some sculptured form, apparently a *chamukhi*, i.e., a square pillar with a figure on each face.* But the rock has been overthrown, broken into three pieces, and so defaced by the action of fire, that it is impossible to speak positively as to the original design. Of the three fragments, one, the base, is still attached to, and forms part of the natural rock. These four perfectly distinct objects, viz., the two *lingams*, the seated Buddha, and the rock-cut *chamukhi* were combined by Captain Cunningham into a gigantic Phallic pillar, with the heads and feet of four figures showing at the base and centre of the column, while their bodies were made to disappear into the polygonal shaft of the large *lingam*.

On the margin of the beautiful lake of *Manasbal* is another small temple about 6 feet square, sunk like that at *Pandra-than*, to some depth in the water. Strange as it may appear, there is good reason to suppose that all the Kashmir temples, not even excepting *Martand*, were originally surrounded by artificial ponds. This alone can explain the silting up of the *Avantipur* quadrangle. The water was probably conveyed from

* The pillar is limestone, brought from some miles east.—A.N.

an exterior reservoir into the courtyard, which was flooded to the depth of two or three feet, partially covering the plinth of the temple, while a stone footway was carried on masonry supports over the water round the margin of the colonnade, and from the temple door to the entrance gateway. The object of this curious arrangement was to propitiate the nags or water-spirits, the primitive divinities of the country. In proof of the prevalent ophiolatry may be adduced the ancient slabs sculptured with figures of snakes, which are still occasionally to be seen worked up into the walls of modern buildings. There is one at the temple *ghat Bijbihara*; perhaps the most curious of all is at the village of Changas on the Bhimber route into Kashmir where, among a number of small *lingams* under a pipal tree, is a rudely carved slab representing a serpent with its long coils spreading over the whole length of the stone and a devotee with clasped hands standing below. Abul Fazl speaks of nearly seven hundred figures of nags or serpent gods existing in his time in Kashmir.

One peculiarity of temple architecture yet remains to be noticed, and that is the occurrence here and there throughout the country of miniature models of temples, constructed in each case out of a single stone. The visitor to Kashmir by the Pir Panjal road passes one, half-way between Shupiyon and Ramu; there is another at Kohil, near Payach; a third, built up into the embankment of canal, called the Nali Mar; and two more in the city lake, often completely under water, and hence much worn and defaced. Several more still exist in the city.

The temples were naturally objects of dislike to the newly converted Muhammadan rulers, and about 1400 A.D. Sikander set himself to destroy them, while also forcibly converting the Hindus or driving them from the country. Many of the relics of his iconoclasm may be noticed in the embankments which line the river, and in the plinths of mosques or dwelling houses where cornices, friezes and pediments may be seen. The art of stone building seems to have been forgotten until temporarily revived by the Moghul Emperors.

There are other ancient temples worth visiting at Narastan in Trabal, at Kothair, 3 miles from Atchibal (east), and one close to Pahlgam.

SOME NOTEWORTHY KASHMIR KINGS.

Date.	NAME.
3rd Century B.C....	Asoka, the great Buddhist King, founder of Srinagar.
2nd " ...	Huska, Juska, Kaniska. These were Turkish Kings, also Buddhist.
6th " A.D....	Mihirakula, the white Hun King, extensive dominions in Central Asia, a patron of Brahmins.
" " ...	Gopaditya, founded temples on Takht and Gupkar.
" " ...	Matrgupta. Kashmir subject to Kings of Ujain.
" " ...	Pravarasena II, founder of new capital.
7th " ...	Durlabhavardhana, King at time of visit of Hiuen Tsiang, the Chinese traveller. He ruled most of the Punjab.
699—735 ...	Lalituditya, a King who conquered and built shrines, was victorious over Turks and expelled Tibetans from Baltistan. Built Martand colonnade, made canals.
855—883 ...	Jayapida, an adventurous and travelling King, founded Jayapura.
883—902 ...	Avantivarman, a time of construction and progress, flood prevention, etc.
928—937 ...	Samkaravarman attempted to re-conquer surrounding countries. Oppressive administration.
950—1003 ..	Cakravarman was deposed for a time, struggles with feudal lords.
1089—1101 ...	Didda, Queen, married a Lohara peasant; thence a new dynasty sprang; much internecine strife
1339 ...	Harsa, an able and versatile King, but tyrannical. Killed in a rising: the subsequent Kings were weak.
1420—1470 ...	Shah Mir usurped the throne, founded Muhammadan dynasty.
1532 ...	Sikandar But-Shikast destroyed many temples and shrines
1586 ...	Zain-ul-abidin, a patron of learning, a prosperous reign. Many Hindus re-settled.
1600 ...	Mirza Haidar conquered Kashmir from the north.
1600 ...	Akbar conquered Kashmir.
1752 ...	Jehangir, the great garden-maker.
1819 ...	Pathan rulers. Kashmir a province subject to Kabul.
1833 ...	The Sikhs conquered Kashmir under Diwan Chand.
1846 ...	Colonel Mian Singh, Governor, prosperity restored.
1846 ...	Gulab Singh acquired Kashmir by treaty with the British Government.

According to Kalhana, that great King Asoka, 3rd century B. C., founded the first city of Srinagar and it was probably along the slopes from what is now called the Gap (Ait-gaj) to Pandrenthan, where many scattered remains still exist in addition to the well known temple. Pandrenthan is probably a contraction of *Purana dhisthana*, meaning the old capital. This name is first mentioned by Kalhana in connection with the shrine Pravaressvara built there by Pravaraseni I, at the beginning of our era.

King Pravaraseni II, grandson of the above, built a new city in the neighbourhood of the Hari Parbat (stretching towards the Sathu or embankment, then as now shutting off the Dal Lake, and going to the Takht (Rajatarangini III, 336, *et. seq.*). He also built the first boat-bridge over the river. He was a pious Hindu, and erected various shrines, the chief one that called Pravaresa may be now indicated by the extensive ruins between the present Jama Masjid and the south gate of Hari Parbat. For many centuries the official name of the city was Pravarapura after its founder.

It was at first on the right bank of the Jhelum, and on the banks of the river, the Mar Canal and Dal water-ways. It was about A. D. 1050 that the Royal palace was transferred to the left bank, and it was at first near where the 2nd ridge now is.

There are various indications that even before the time of Pravarasena there had been shrines and temples where the city is now ; the mention of the image Bhimavam̃u, and of the temple Vardhamanesa (Rajatarangini II, 123), carries us back to about 50 B. C.

A few ancient sites and names can still be identified.

The stream from the Dal Darwaza now called the Tsuntkul was then called Mahasarit. The modern name Kundabal for an adjoining part of the city represents the ancient Ksurikabal. Below the Hari Parbat was an old Durga shrine and the village of Saritaka. On the south side of that hill is a Ganesh shrine then known as Bhimasvamin. This idol is said to have changed direction once or twice. There are neighbouring Muhammadan shrines which have utilized the abundant materials of ancient temples. Stein suggests that the present

Ziarat Pir Haji Muhammad, a little south-west from the *Jama Masjid*, is the ancient Vishnu Ranasvamin of King Ramadittya. There is still an octagonal *cella* with high basement, and enclosed courtyard, with ornamented gateways.

On the river bank by the tomb called the *Badshah Zain-ul-abidin*, now used as a granary, are some ancient gateways and other remains. On these Dr. Abbot recently discovered some fragmentary Brahmi inscriptions which probably date back to 150 B.C. Evidence of the use of Brahmi or Asoka script in Kashmir had hitherto been wanting, though its use was suspected. These remains are therefore the most ancient in Kashmir, unless indeed the basement of the *Takht Temple* antedates them. The coins of *Pravarasena* are in *Gupta character*, and the *Sharada* characters first appear on the coins of *Avantivarman* (845—884 A.D.).

Higher up the right bank, near the 2nd bridge, was the temple *Tardamanesa*; built by *Samdhimat* 50 B. C., close to *Malayar Ghat*. There is an interesting note about this in *Stein's Rajatarangini*, Volume I, page 382. Across the confluence of the *Tsunt-i-kul* with the main river *Vitasta*, was an old burning ghat, and the great island *Mayasum*, now the European quarter. The present *Drogjan* village, by the hospital, may be recognized in the name *Durgagalika*, where the blind King *Yudhisthira* was imprisoned after his abdication.

To the north, between the *Hari Parbat* and the *Dal* is the ancient *Rajanavatika*, now called *Renawari*.

On the left bank of the river, probably below the 2nd bridge is the site of the ancient palace of King *Ananka*. It was probably built chiefly of wood. A later palace built by *Zain-ul-abidin* is said to have been twelve stories high; with as many as fifty rooms in one storey; it was entirely wooden.

Some other sites may be briefly mentioned.

Bochwara, adjoining *Drogjan*, is the ancient *Ehuksiratika*. *Gupkar* was *Gopagrahara*, named after King *Gopiditya*.

The villages of *Thid*, *Bren* and *Ishbar* are also mentioned in the chronicles. Above the last, on the crags overlooking the *Dal*, was the *Suresvari Durga* shrine. Half way up, under a rock, is the sacred spring *S'atadhara*. The mountain

shrine is now neglected, but the tanks and lings in Ishbar are the scene of popular *melas*.

Turning to the north-west of Srinagar, on the present Ganderbal road is the village of Vetsar Nag with the ruins of several temples and many other remains.

Annual *melas* are still held at the chief tank. Beyond this about two miles, is the village Amburher, where formerly was the temple of Siva Amareswara. Some slabs and fragments still exist there.

Just to the north of the Fort hill, across a stream and inlet of the lake is the suburb now called *Amda Kadal*; this is certainly derived from *Amita* bhavans, where there are numerous, though inconspicuous, remains. These may date back to King Meghavahana's time.

East of this, across a bay on which the Leper Asylum is now situated, is the village of Sudarbal; the ancient Sodara; it is the deepest part of the lake. Once a famous place of pilgrimage, it has now fallen into oblivion.

But that the famous Hazrat Bal shrine should be so close suggests a local heritage of fame and a transfer of reverence from Hindu stones to Muhammadan relics.

EASTERN DISTRICT.

Pandrenthan has been noticed; at *Zewan*, 3 miles on, is a tank, probably the ancient pool of *Jáyavana*. Two miles north-east of *Zewan* is *Khoumoo*, above which are traces of an ancient shrine on the hillside. *Pampur* is the ancient *Padmapura* and has the remains of more than one temple. One was founded there by Padma in XIth Century. *Wean and Khru* are mentioned in the text as places of pilgrimage, with sacred springs.

The ruins of a temple at *Ladu* are of special interest on account of the circular *cella*.

The village of *Latipura* may be safely identified with *Lalitapura*, so called after King *Lalitaditya*, VIIIth Century.

The temples at *Avantipura* are described elsewhere (p. 113).

There are scattered traces of the ancient town. The shrine at the junction of the Vyet and Rembiara is very ancient and the near village of *Martamma* is mentioned by Jaonaraga.

Just below *Bijbehara* is the plateau where was once the famous temple of Vishnu Cakradhára ; it was here that in the time of Sussala about 1120 A.D. hundreds of people took refuge and were burnt with the temple. Beyond this was the town of Narapura, about which there is an ancient legend.

Bijbehara is the modern form of Vijavesvára, which is connected by tradition with a temple standing in the days of Asoka, who built a stone enclosure round it.

Up the Lidar valley is Mámal temple opposite Pahlgam, identical with the ancient Mánmessvára. Beyond this, towards the cave of Amarnath, are other sacred places mentioned by the old chroniclers. The Lake Susravas now Shisha Nág and the small lakelet Jámátr Nág (Zámatar Nág) then the high pass Vajvan to the five streams, Pantsatarangini.

Returning to the valley we find that Bomzu, Báwan, Martund, Shangas and Achibal are mentioned by Kalhana, Abul-Fazl describes Kukar Nág and the intermittent spring of Sund-i-brar. The Verang spring was then as now sacred, and so was the Vythvettar, one mile north-west of Vernag. It is said that Asoka erected many *stupas* near.

The associations of Shupiyon, Tsrár and Drang are within less remote time.

WESTERN DISTRICT.

About 12 miles west of Srinagar is a Karewa, which stretches from the Baramulla road to near Shadipur. This is the site of the ancient famous Paritrasapura, the capital of Lalitalitya, VIIIth Century. Here the foundations of numerous once grand structures may be traced. Already about 900 A.D. the city was so far ruinous that Samkaravarma removed materials from there to Pattan.

Nearer Shadipur is the village of Tregam ; near which an ancient canal large size connects the Panznara swamp with the marshes round the Wular. At one point near Ekmanpur are the ruins of an ancient sluice gate.

Stein claims that this is really the former bed of the Vyet. I have examined it *in flood time*, and consider it was a natural passage which was deepened, perhaps by Suyya, to act as a flood outlet.

It is interesting to note that in this matter as in the proposed deepening of the river channel below Baramulla Suyya forestalled modern engineers.

Five miles below Shadipur, near Sumbal, is Andarkot, the site of Jayapura, the capital of King Jayapida. Here there are some interesting remains.

At Pattan the ancient temple ruins are still conspicuous but at Tapar, four miles north-west only the foundations are now visible. Nor are there any remains of interest at Sopor, the ancient Suyyapura.

In many out-of-the-way villages chance travellers see well cut stones of great size, and fragments of ancient foundations, pointing to the populous condition and relatively civilized state of Kashmir at the beginning of the Christian era.

CHAPTER X.

LADAKH.

KASHMIR is half encircled by the Indus, the basin of which from its source to about longitude $75\frac{1}{2}$ east, a distance of over 600 miles, is usually called Little Tibet. The upper half constitutes the province of Ladakh; the lower that of Skardo, to the west of which is the Governorship of Gilgit. These three form the Trans-Kashmir provinces of the Maharaja's territory.

Ladakh is a large tract of country, including Rupshu, Zanskar, Nubra, as well as Middle Ladakh, and the lofty plateaux south of the Karakarum. It contains the loftiest inhabited districts in the world. No part is below 9,000 feet, and a large portion of the population live at elevations of from 12,000 to 15,000 feet above the sea. While this is the height of the valleys and plateaux, the mountain ranges average from 17,000 to 21,000 feet, and many peaks are 25,000 feet high. Cultivation is dependent on irrigation. Wherever there is level ground, and irrigation is possible, there are villages which are as verdant in their oasisic beauty as the mountains are grand in their barren massiveness. Being in the chief trade-route between Tibet and Western Asia, Yarkand and India, Ladakh has been traversed and described not only by sportsmen, but by scientific and political travellers. Among those who have visited it may be mentioned Moorcraft, Gerard, Cunningham, Thompson, Forsyth's Mission, etc.

A British representative, called the Joint Commissioner, resides at Leh during the summer to supervise the trade traffic.

The history of Ladakh was closely connected with Tibet for very many centuries.

Travellers to Ladakh should read Francke's short "*History of Western Tibet.*"

It seems clear that in the pre Buddhist period, parts of Western Ladakh and Zanskar were occupied by an Indo-Aryan tribe called 'Mons,' and that these were either driven out or

in part subjugated. The Dards of Gilgit and Astor also extended at another time up the Indus Valley to Leh itself; and their rock sculptures and drawings may be seen at Khalatse and Hunnpata. The Chinese may then have been over-lords. From Dr. Stein's researches at Khotan and the Lob Nor desert it seems that the northern irrigable slopes of the Karakorum were partially settled with an Indian race. And it seems probable that Kaniska (second century B. C.) and some of his successors ruled so far north. Then from the Kashmir annals we learn that Mihirakula (sixth century A. D.) the white Hun King held Tartary as well as Northern India. A century later Lalitaditya re conquered Ladakh.

By the tenth century the Tibetan power began to push back the Dards, and for a long period Kings of Central Tibet ruled from near Lake Manasarowar to the Zoji Pass. The religious bond with Lhasa was tightened about 1300 A. D. and the old Bonchos demon worship was replaced by Llamaism. Another 100 years later came Tsonkapa, the Llama reformer; but his success does not seem to have gone much deeper than the changed colour of the cap worn by Llamas, and local patriotic feeling favouring the red sect. One of the few noteworthy Kings, Sengge Namgyal invaded Central Tibet about 1610, and his son Deldan seems to have been powerful. Then came an invasion of Mongols, which was successfully resisted, but from this time the Ladakh power declined. King Deleg invoked the help of Emperor Shah Jehan, and with the advent of Muhammadans who already held Baltistan and Purig, the western Llama Kingdom tottered to its final fall.

The Sikhs held Kashmir, and Raja Gulab Singh of Jammu sent a bold Dogra leader, Zorawar, who had already seized Kishtiwari, across the passes to Ladakh. It is a romantic bit of history reminding one of Cortes and Mexico. Zorawar was a born leader, Ladakh and Baltistan were completely subdued; but reports of the gold of Lhasa drew Zorawar to a fatal expedition, when on the snowy heights near Manasarowar he and his whole force experienced a fate like that of the British, at the same time, on their retreat from Kabul. Peace was made and from that time resuming the conditions of a former

treaty, made at Tingmogang in the time of Delug, the Maharajas of Kashmir have sent embassies with presents, to Lhasa, every third year, and through the monks a close connection still exists. Thus the Lhasa authorities summoned the Ladakh monks to resist the proposed British Political Mission to Tibet in 1886. Ladakh was formally made over to Gulab Singh by the treaty which gave him Kashmir.

The population of Ladakh has been variously estimated. The total for the whole may be about 35,000. In Leh itself there are always many foreigners. Most of the population are settled, but some nomads or *chang-pa* inhabit the uplands of Rupshu. With the exception of some Muhammadan colonies, the people are Buddhist, belonging mostly to the sect of Red Llamas. The restricted amount of cultivable land has caused the curious custom of polyandry, where the eldest son of each family chooses a wife and his brothers become also minor husbands. Thus, and why the celibacy of hundreds of monks and nuns, the growth of the population is restrained. Throughout the country monasteries abound ; but they are neither so large nor so rich as prior to the Dogra annexation, upon which thousands of monks fled to Tibet.

The people are of Mongolian type—short, compact and ugly ; except in Nubra, the average height would scarcely exceed 5 feet. The men usually wear woollen caps with ear flaps, a pig-tail, a very thick long-sleeved cloak or *choga*, loose trousers and felt gaiters and boots ; the women long gowns, with plaited skirts, sheepskin *chogas* and a cloth cap. On gala days they wear flat head-dresses ornamented with large turquoises and brilliant dresses. The monks and nuns wear red cloaks and caps. All, except the Muhammadans, wear pig tails.

They are a contented cheerful race, neither quarrelsome nor revengeful, or rarely so under the influence of *chang*, a sort of barley beer. They are, moreover, fairly honest and simple minded, and not so given to habitual lying as some races. They are conspicuously lacking in chastity and cleanliness. From simple and natural marriage customs they are debarred by the restricted nature of the country, and by the intense cold of winter from ablutions, with which they also dispense in summer by choice.

The climate is one of extremes. The heat in summer is considerable, owing to the vast tracts of barren rock and sand which reflect the heat poured down from a seldom clouded sky. In winter the cold is of almost Arctic intensity and accompanied by bitter winds. The daily variation is also very marked. Snow seldom falls to any depth, and in summer there are but a few slight showers. So that all vegetation is confined to irrigated land, with the exception of the stunted brushwood or very scanty growth of poplars or willows which is met with in some few *nullahs*. Wherever in the ravines or slopes any area suitable for cultivation occurs, attempts are made to irrigate it by long and painfully constructed canals. Wheat, barley and buck-wheat are the only cereals met with. *Grim*, a kind of loose grained barley, is by far the most abundant, and grows at very high altitudes, ripening at 13,000 and even 14,000 feet above the sea. Orchards of apricots and apples are met with in the warmer parts under 9,000 feet in the shade of which lucerne and other fodder plants are raised.

Almost all the Ladakhis are agriculturists. The zho, a hybrid between the yak and common cow, is used for ploughing. The religious communities assist in cultivating the soil and are in many places the chief landholders.

Trade is chiefly carried on by Yarkandis, or half-breeds (Argoon) and the Muhammadans of Purk. The trade products of the country are wool, borax, salts and dried fruits. All the shawl wool of Kashmir is from Ladakh, whose upland pastures, though barren, support immense flocks of sheep and goats. Many of the ravines still abound in sport. The wild sheep *Ovis Vigni* and *Ovis Ammon*, the graceful Tibetan antelope, the ibex, marmots and hares, are met with; in some parts snow-leopards exist, and in the remoter districts, north and east, herds of yak and droves of the *kiang* still wander.

Ladakh is a country with peculiar charms, utterly destitute of the verdant beauty of Kashmir, yet its lofty sandy plains and rugged granite ridges have beauties which all who have once been there can appreciate.

ROUTE TO LADAKH.

Of late years the road has been much improved, so that in summer several marches a day might be done on staging

ponies. As far as the head of the Sind Valley the route has been already described. (See pages 95-96).

SUMMARY OF ROUTE.

SONAMARG to LEH	189½ miles.
„ to DRAS	3 marches.
DRAS to KARGIL	2 „
KARGIL to LEH	7 „

Sixth march—Baltal to Matayan (the Tibetan names are—**Shing Khang to Ambuti**)—15 miles. To Leh 180.

At Baltal the character of that valley changes; the river emerges from a narrow gorge, up which, so long as the river is passable by snow bridges, there is a path to Amarnath. But the Ladakh road turns up a side nullah, winding in summer by easy zigzags up the slope on the left, this is a new well made road with much rock cutting; 2 miles to top of steep ascent, 3 on to top of watershed. In winter and spring travellers ascend the rock-bound ravine in which snow is then accumulated to an immense depth. Laden ponies can seldom cross before June. The ascent is somewhat over 2,000 feet. The height of the pass is about 11,300 feet. Its Tibetan name is the Zoji La. From Nanga Parbat on the west, for several hundred miles, this is the most marked depression in the range. On either side mountains rise to a height of several thousand feet.

It was near the summit of the pass, several centuries ago, that a battle took place between the Drass hillmen and the invaders from Yarkand, who put their assailants to flight, and entering Kashmir wintered there.

At KANIFATRI, 3½ miles from Baltal, is a fair camping-ground.

The scenery completely changes on the north side of the Pass. The lofty ranges cut off almost all moisture, and at every march the appearance becomes more Tibetan. Till the end of June there is usually a considerable quantity of snow along the summit of the Pass. The author has ascended by the ravine route in the middle of May; and heavy snow fell at night. There was then snow to Matayan.

In October snow may fall to a depth of several inches, but the Pass does not close to horses for more than a few days at a time till December. Get Dras pony men if possible. There is but a very gradual descent for several miles; small dak huts at intervals are built to keep open the communications during the winter. It is sometimes necessary to ford rivers, as the bridges may be swept away.

At mileage 171, by the new Gumber rest hut is a path to Amarnath—see page 89.

At **MITSARHOI**, 9th mile, there is a little summer colony and a new solid rest-house; but the first village is Matayan, 15 miles from Baltal, and reckoned as 6½ marches from Srinagar. No supplies can be obtained. There is a rest-house for travellers. A *shikar* path goes up *nullah* to south-east from Minimarg, by which sportsmen can go to the Wardwan. (Probably a high pass is crossed on the second day, and on the third day reach Pujhoi. Except when there are snow bridges this route would be difficult.)

Seventh march—Matayan to Dras—12 miles: to Leh 164½.—A gradual descent. At a bend to the east, 4 miles down, is the village of Pandras. Another 6 miles down from this the open valley of Dras is entered. Passing the Sikh Fort one comes to a small plantation of poplars and a thana. Dras is a series of villages scattered over a broad and fertile valley. It is inhabited partly by Dards, partly by Baltis. Here are post and telegraph offices, granary, also a bungalow for travellers, for which Re. 1 a day is charged.

Dras is over 10,000 feet and is swept by cold winds. (For route to Suru see page 143.) Dras is called Hembabs by Tibetans. To LEH 131½ miles.

Eighth march—Kharbu to Karbu—21 miles.—For 7 miles the road leads down the valley, which gradually contracts and then bends northward. At the corner is the village of Dundul Thang. Below this the scenery becomes bolder, and the valley very narrow. Tashgam, formerly the stage, is 15 miles; cross the river, thence to Kharbu 6 miles; here is a rest-house, and small plantation of willows. An extra charge is made for this long stage.

Ninth march—Kharbu to Kargil—15 miles—The road ascends over a spur opposite the Shingo river. The Shingo *nullah* leads up to the Deosai plateau, and is known for bears and game. Eight miles down from Kharbu, on the opposite side, is the large village of KARKITOHU. At Chanegund the valley is rather more open, and for a mile or two beyond the traveller enjoys the contrast from the ragged barrenness behind and before. A few miles march along the face of precipices and then along the sandy banks, takes one to the junction with the Suru river. Here is a good suspension bridge, with the Kharai rest-but just beyond. The Skardo road crosses and follows down the river. The Leh road keeps to the right and keeps for 2 miles up the bank of the Suru, here a swift, somewhat shallow but broad stream, to Kargil. Coming from Dras one has gradually descended to 8,700 feet. From here there is again a gradual ascent. Kargil is an extensive place; miles of alluvium are here under irrigation, and on either side of the river there are scattered villages. It is the capital of Purik, a province chiefly inhabited by Ladakhs, who have embraced Muhammadanism, and subordinate to the Government of Baltistan.

There is a large *serai* and good rest-house for European travellers. Also post and telegraph offices. The SURU river is bridged one mile above the Sikh Fort. There is an extensive view of an amphitheatre of mountains. Up the valley to the south is the Suru district, with the Bhotkol Pass to the Wardwan. Across to the east is a low easy Pass HAMBUTTING L.A., 13,500, to Lhalun village and plain, seven hours' march. This is the nearest route to the Shyok. (See pages 164 5.)

Tenth march.—Kargil to Maulba Chamba, 23 miles.—The Suru river is left behind, with its picturesque banks and lovely distant peaks; and the path crossing the wide open valley, leads over a sandy plateau. Seven miles on is PASHKIM, a very large village dominated at the upper end by a fort-crowned rock, the scene of a brilliant *coup de main* by the Dogras on their occupation of the country. Beyond this the road enters a gradually contracting ravine, and the scenery becomes even grander. There are one or two picturesque villages, spots of verdure in this otherwise barren chaos of rocks and sand. The march may be halved by camping at LORSON (or Lanchan) at 14th mile. From here a path branches north-west to the Llalun plain, seven hours' march. The new road, a good one, continues up the right bank, passing the bridge to SHERGOL at the head of the *nullah*. Shergol is seen on the right. At Shergol the valley again opens. This is the first stage where Buddhists are met with. The geology of the region passed through is of great interest, the sandstone rocks are of brilliant colour and sharply cut outline.

Three miles up is MAULBECK or Maulba Chamba, a village clustering at the foot of a spire-like rock, on which is perched a *Llamasery* or Buddhist monastery. Near by is a large figure of Chamba carved on the face of the rocks.

There is an extra charge for this long stage (14 annas).

The rest-house is pleasantly situated on the Polo ground, well away below the village.

Eleventh march—Maulba to Chamba Karbu, 16½ miles: to Leh 93 miles.—The path rises by very gradual and easy ascent in 16½ miles to the NAMIKHA LA, a Pass 13,000 feet high; then descends and, following up a stream of some size in an open valley, comes to KHARBU, or rather to a group of villages of which Kharbu is the chief. This was the scene of some fighting in king Deldan's time (1620-1640 A.D.). The ridges are covered with ruins of old castles. On the opposite side of the river is another pointed rock covered with buildings, called Stacktse.

It is a pretty valley at about 11,000 feet above the sea, well cultivated but has no fruit trees. A decent rest-house for visitors is in the village, and a good camping ground beyond.

CHIGTAN is another old castle, down the valley to the north, and formerly the Sultan of Chigtan ruled most of Purig district (see Francke's History, p. 103).

Twelfth march—Kharbuto Lamayaru—15 miles.—This march in 10 miles crosses the Fotu La, a very easy pass about 13,400 feet high.

On this march the traveller may see ibex or *sharpu*. The route to KANGI turns to the south half-way up the pass. The view from the summit is splendid.

LAMAYARU is 5 miles beyond this, and about 2,000 feet lower. There is a good sized village and large monastery built on the top of some low cliffs. This should certainly be visited, and the fine image of Chunrezig be seen.

There is a good rest-house and a granary.

Thirteenth march—Lamayaru to Nurla, 18 miles : to Leh, 63 miles.—The path following down the narrow ravine between cliffs which force the road to cross and recross the torrent several times, at last opens into the Indus Valley. At a narrow place dominated by a fort there is a suspension bridge over the Indus. KHALSI, a large village, with pleasant encamping ground, lies a mile or so further on 3 hours from Lamayaru, 53 miles from Leh. There is a fair rest-house, and a post office, also a Moravian Mission. On a cliff towering over the village of Khalatse is the ancient important castle Bragnag, built by King Naglug, 1150 A. D., who also made the bridge. The Indus at this point is about 9,500 feet above the sea level.

KHALSI OR KHALATSE TO NURLA, about 8 miles, mostly stony and quite shadeless, fairly level. Apricots and mulberries ripen in these villages by mid-July. One can get shady camping grounds; and the rest-houses are clean and cool. Between 11 a. m. and 3 p. m. the heat is very great if travelling.

From Khalsi there is an obsolete pathway from the river as follows:—

Khalsi to Timisgam, 10 miles.—*Th. Tingmagang.*—Follow the Indus for a few miles, turn up a side ravine, ascend about 1,500 feet, cross a plain, descend a valley, in which is Timisgam.

Timisgam to Himis Shukpa thence to Traulse, 10 miles.—*Th. Hem Shugpachan.*—Again up, across the plateau, with occasional ravines to be crossed.

Traulse via Basgu to Nimuh—10 miles. *Th. Mmeo.*

At Bazgu the main route is rejoined, which we will now trace.

Fourteenth march—Nurla to Saspul, 14½ miles : to Leh 45 miles.—The scenery is grander than on the preceding march. In these 14½ miles there is but one poor stop of vegetation; but at Saspul there is abundant cultivation. Rest-house and granary. Across the bridge, about 2 miles is the interesting Alchi monastery, with its traces of Kashmir workmanship, also the cave monastery of Nyizlapug, ruined in the Balti Wars.

Fifteenth march—Saspul to Nimu—11½ miles : to Leh 29½ miles.—The road leaves the river, crosses a plateau, then descends to Bazgu, a most picturesque village; the cliffs are studded with old ruins, the rocks are of brilliant colour and fantastic shape. There is a pleasant garden in which to encamp, also a bungalow. Here are historical monastery and castle which were long besieged by Mörgols in the time of Gyalpo Delegs (1610—1680 A. D.). Ni nu is some 4 miles further on. Rest-house and garden.

Sixteenth march—Kimu to Pitok—14 miles—Th. Spitok : to Leh 19 miles.—Again leaving the river at Nimu, and ascending the

plateau, the valley is seen to open out. Gradually descending we reach at 10½ miles the village of Pyang, which is the best stage to halt at, if Bazgu was the previous halting place. At Pyang is a famous monastery, 400 years old. Three miles on, the river is rejoined and followed to Spitak, a large village clustering round an isolated hill. On this is a picturesque monastery built 500 years ago by Gyalpo Bumde. Here the Leh Valley is fairly entered; the road turns away from the river, and with a very gradual ascent of about 1,000 feet in 4½ miles leads to Leh, which is seen from a long distance. There is here a good dāk bungalow.

LEH is a town of several thousand inhabitants; there is a broad *bazar*, close to which rises a spur on which stand the old palace, a monastery and other buildings. Leh has numerous plantations, in one of which is the Joint Commissioner's house and the dāk bungalow. There is an English post office.

The Moravian Mission has a hospital and two schools here. The author has been indebted for the Tibetan names and various notes to the late Rev. F. Redslob, an indefatigable missionary and good linguist, who died in 1891 within a week of his colleague Dr. Karl Marx. There are Moravian Missions also at Kailang and Po. These missionaries are very frugal and very seldom take any furlough. The Mission Hospital was for many years under Dr. Ernest Shawe who died in 1907, mourned by all Ladakh. Rev. Mr. Francke, the author of the 'History of Western Tibet,' worked many years at Khalatse. He is the foremost living authority on ancient Tibetan Scrip.

Whether as the western capital of Llamaism, with its *Lamaseries, Churtens and Manis*; or as the centre of the Yarkand and Tibetan traffic, with its interesting articles of commerce and quaint figures of many nationalities, Leh is a place abounding in attraction for lovers of the picturesque.

At Leh the traveller should see the old palace of Sengge Namgyal, the great idol Maitreya in a monastery on Namgyalt some hill, the chürten 'on yellow crag', a mile above Leh, where there are some supposed graves of ancient Dards, the longest *mani* wall in the country at Tewar gorge, 850 paces long and other interesting places.

The Hemis Festival is also well worth a long journey. The great Hemis monastery is about 24 miles from Leh, the miracle play is towards the end of June.

THE UPPER INDUS VALLEY.

"The Indus is already a considerable stream when it enters Ladakh. Near the Chinese frontier it flows between low sand banks on an open valley. Below the influx of the Hanle

stream it becomes a rushing torrent confined within narrow walls; opposite Leh, it has room to spread out and divides into various streams, but it is soon confined again, and rushes through ravines, the mountains becoming closer and closer until in Lower Ladakh the Indus runs through a very narrow, almost inaccessible gorge"—(B. Shawe). In this distance it descends several thousand feet, and the climate alters much. The upper eastern valleys are inhabited by nomads during the summer months. In Central Ladakh there are villages wherever water is obtainable to irrigate the stony or sandy fans; and crops ripen in August or September. In Lower Ladakh the summer heat is considerable, and two crops can be raised annually; while apples and walnuts ripen. See route to Shayok (page 211). But the sun heat is very great even on the high plateaux, where it freezes every night. A black bulb thermometer placed in the sun often registers 25° higher at Leh than in the plains of India. Hence the height at which cultivation exists. Crops ripen up to 14,000 feet though an early snowfall occasionally spoils the harvest.

In Kashmir there is scarcely any arable land above 7,000 feet and even at that height the crops often fail to ripen.

The rivers rise enormously in summer. Shawe estimates that the Indus at Leh discharges 6,000 gallons per second in winter, and 54,000 gallons per second in summer. The Zaskar river is about the same size. The Shayok river is estimated at the point of junction to be equal to the Indus, the two together at Skardo giving in summer 250,000 gallons per second.

LADAKH ROUTES.

The chief trade routes from Leh are south to Simla, east to Lhassa, north-east *via* Chang Chenmo to Yarkand, or north *via* Nubra to Yarkand (this is the main road), and west to Kashmir.

The Simla routes are given in the tables at the end. We first look east.

Map. 45 E., Approx. 34° N. 78° 3' E.

Leh to Pangong Lake—(Route by Lieutenant Watts Jones, R.E.).

* 1 **Leh to Ranbirpur**—15 miles.—Easy march up Indus Valley.

* Not recently corrected.

2. **Ranbirpur to Sakte**—19 miles.—Up Indus Valley, large village with a good *serai* ; take on coolies for next four marches.
3. **Chumri to Camp Zingrul**—12 miles.—A steady ascent to 16,400 feet, small hut.
4. **Zingrul to Tsullak (camp)**—13 miles.—An easy ascent to Chang La 18,400 feet and descent.
5. **Tsullak to Durgu**—14 miles.—An easy march, small village at height 13,000 feet, a rest-house, no supplies.
6. **Durgu to Tanktse**—7 miles.—Here a village, only *satoe* obtainable, take yaks on from here to Shushul.
7. **Tankse to Camp**—15 miles.—Near to small lakes. If going to Chang Chenmo go from Tanktse to a hamlet, 11 miles thence to Ludkbung, 11 miles.
8. **Camp to Camp in sandhills**—13 miles.—On Pangong Lake.
9. **Camp to Mun**—9 miles.—Along south shore of Lake ; small village rest-house.
10. **Mun to Meruk (camp)**—10 miles.—Still along lake ; 3 houses only.
11. **Meruo to Shushul**—13 miles.—Large village ; rest-houses, height 14,200 feet.

Note.—All supplies should be taken from Leh. Fuel (*bortsa*) is abundant, grass for yaks at the camping places, but not generally elsewhere. The road is fairly easy throughout. A new trade route *via* Changla and Shayok has been opened to Karakoram.

PANGONG LAKE.

The Pangong Lake belongs to the same type as the many salt lakes of Central Asia, and evidences the same progressive dessication. At one time its shore was hundreds of feet higher than at present. Its length must then have been much greater than now, but the whole chain of lakes is still over ninety miles long, and from two to four miles broad. On the centre of its length, for many miles, it narrows to a mere channel of still water. The colour is an exquisite sapphire blue, with which the orange and carmine tints of the sunset light on the mountains form wonderful combinations of rare beauty. The formation of this lake, as also others which will be mentioned, is accounted for thus. The central valley having been eroded to its present extent, the current became too slow or too small to sweep away the deposit brought from a side valley by one of its tributaries ; the waters were gradually diverted, and finally obstructed by

the formation of an alluvial dam which accumulated to a great height damming back the waters (To a similar cause but more rapid in action and of glacial origin, may be attributed the Shalyok flood of 1842, of which the disastrous results are still visible). With a large surface exposed to evaporation, and but a small supply of water, the lake has never accumulated sufficiently to overtop its barriers, and then cut down a new channel, as the Indus has done in several parts of its upper course; and thus it is becoming yearly more saline. The depth is nowhere great; and a few centuries may transform it into another of those salt beds which abound in this region.—Huntington's 'Pulse of Asia.'

The *great plateaux* lie to the north of Pangong. The sportsman should hire yaks at Tanktse and lay in all supplies for his caravan. The stages are (Ward):

1. **Muglib**—9 miles.—A few huts,
2. **Tsearh Tso**—5 miles.—There are shooting grounds at Montol and Koh-Laba.
3. **Chobrang**—14 miles.—Height 15,000 feet. Sometimes called Chagra, 2 miles on is last inhabited place. Pass Lucking, 9 miles.
4. **Rimdi**—15 miles.—Height 17,500 feet. Cross Masimik Pass 18,000 feet. Only bortsa (fuel).
5. **Panzal**—12 miles.—Height 14,800 feet. Camp in Chang Chenmo Valley, near river, fuel abundant. 34° 15' N. 79° E. approx.

The great journey of Captain Bower and Doctor Thorold in 1891 led right across these lofty plains for several months. They saw much game and occasionally met nomad Tibetans. There are many large salt lakes. Not many marches north-east of Lhasa the explorers were forcibly turned back, and compelled to take a more northerly route. The whole journey through Tibet was at a height of over 14,000 feet.

In 1895 Mr. and Mrs. Littledale and Mr. Fletcher traversed parts of the same route, crossing into Tibet from Yarkand and reaching to within two days' journey of Lhasa; when checked they turned west by the trade route to Rudokh.

The exploration of Dr. Sven Hedin in 1907 may be said to complete our knowledge of the sources of the Indus, Sutlej and Brahmaputra; he twice crossed the great plains, a second time in the depth of winter and explored the Trans-Himalayas.

The Dipsang, Lingzhithang, and Kuenlun are wide salt plans of lacustrine origin, at an elevation of from 16,000 to 17,300 feet.

Across or skirting them, there are several tracks followed by caravans to Yarkand in the summer.

On the plains and in the adjoining valleys are found the wild yak and the kyang: the latter, however, is more abundant in Rupshu. Tibetan antelope are found in the Chang Chenmo.

The plains are bordered by mountains rising to about 21,000 feet. These may be considered the eastern continuation of the Karakoram range.

Westward the peaks rise to 25,000 feet and over, and still further, where, termed the Mustagh, there are peaks over 26,000 feet—one, "K. 2." being 28,200 feet high. This is now known as Mount Godwin Austen or as Chongori.

The known passes over these ranges are few.

The Chang Chenmo route crosses passes on entering and leaving the plateaux, another over the Karatagh, and then joins the Karakoram route.

The Karakoram route crosses, after leaving Nubra, the Saser (17,500 feet); then the Karakoram (18,300 feet) between the Shayok and the Yarkand river. At Aktagh the Chang Chenmo route is joined; then the Suket Pass (18,200 feet) to the Karakash river is crossed; and finally, one of the passes across the Kilian range north of Shahdula. In winter the usual Karakoram route turns north-west from Aktagh and across the Yangi Pass.

As a whole the mountainous region of Ladakh is for its height the easiest in the world. The snowfall is little and the snow line is above 18,000 feet. The valleys are silted up, and the rivers not impossible.

There are many hamlets at a great elevation.

Climbers might well direct their attention to any practicable peaks of the Karakoram, before attempting the far more difficult mountains to the west.

Between the left bank of the Upper Indus and the high middle himalayas lie the districts of Rupshu, Zanskar and Suru. A few words must suffice for these.

Rupshu is the highest inhabited country in the world. It is inhabited by the Changpa, a nomad race who live at from 13,500 to 16,500 feet, and even in one or two parts raise scanty crops of barley and peas at 15,000 feet above sea level.

The country has been called "a knot of mountains," for the ranges have no distinct form. Many of the high valleys do not drain at all and contain salt lakes; one of these, the Tsokar, is thirteen miles long and five miles broad; another the better known and beautiful Tsomorari, is slightly longer. The shepherd inhabitants live in felt tents, which they move from place to place, while their flocks obtain a scanty sustenance from the stony valleys and bare mountain sides.

Over these lofty valleys lie the routes from Spiti and Lahoul to Leh, the chief passes on the south being the Bara Lacha (16,200 feet) and the Parang (18,300 feet), and on the north the Tag'ang (17,500 feet).

The trade route (13 in Route Tables) from Kulu to Leh and Tibet crosses Rupshu, entering it by the Bara Lacha Pass. The Leh route leaves Rupshu by the Taglang Pass. The Tibet route, by which immense caravans of *laden sheep* travel, branches off at Rukshin, thence round the Salt Lake, and over the Polokonka Pass (16,400 feet) and through the Puga Valley reaches the Indus at Mahuje.

There is a route to Pangong as follows (authority Lieutenant Watts Jones, R. E.):—

* **Rukshin to Pangong, 6 marches.** —77° 50' 33" 20' Map 64.

1. **Rukshin to Salt Lake, 13 miles.**—Got yaks at Debring. No supplies can be got. There is *bortsa* for fuel, and grass for the yaks.

2. **Salt Lake Camp to Puga (camp), 25 miles.**—Across Polokanka Lah (16,400 feet), easy.

3. **Puga to Mahuje (camp), 16 miles.**—Cross Indus by ford or skin raft from Nimu-mud. One hut. Get yaks from Nimu-mud.

4. **Mahuje to Yahle (camp)—18 miles.**—

5. **Yahle to Statto-tso (camp), 9 miles.**—Cross the easy, usually snowless Stato La (17,000 feet).

6. **Stato-tso Shushul**—12 miles.—Here is a village, height 14,200 feet and join route to Leh *via* Tanktse. (See above).

An alternative route from Shushul to Chang Chenmo goes *via* Kurnak—(Ward):— $78^{\circ} 35' E. 33^{\circ} 35' N.$

1. **Shushul to (Camp)**—14 miles.—Go east to Pangoor Lake and ascend to foot of pass.

2. **Camp to Camp by Pangong Lake** 9 miles.—Cross an easy Pass. Sometimes no fresh water here.

3. **Camp to Dongure**—13 miles.

4. and 5. **Treakpu Kurbo** about 40 miles up the Changung Yokma, then up the Mipal-loomba. No supplies anywhere.

SHAYOK AND NUBRA.

The upper Shayok may be reached *via* Tanktse, crossing the Changla, which is the easiest of the passes north of the Indus. A new bridle path has been constructed *via* the Changla to Shayok village, thence up the left bank. Details are not available at the time of revising. It should be an improvement on the Saser route. There are direct routes from Leh to Nubra by either the Diger or Khardong Passes.

The following route by the Diger Pass is passable at all seasons and has less snow than the Khardong but the road is not kept so well.

1. **Leh to Camp**—11 miles.—Skirt mountains east of Leh—Four miles on is Sabu; then steady easy ascent up *nullah*. Camp near dak hut, firewood in late summer; height 15,000 feet.

2. **Camp Diger**—25 miles.—Steep zigzag ascent 2,000 feet. Snow on both sides of Diger La or Lasman La (map). Easy descent to village Diger; height 13,500 feet.

3. **Diger to Khalsar**—25 miles.—Long descent to Shayok, follow down left bank join Khardong route.

KHARDONG ROUTE.

1. **Leh to Sumbog**—11 miles.—Good bridle road, steady ascent all way. Camp also shelter but higher up about 3 hours ascent, 8,000 feet.

2. **Sumbog to Khardong**—16 miles.—Steep ascent $1\frac{1}{2}$ hours partly over snow (till August) to Pass. 17,400 feet steep descent sometimes dangerous from avalanches, 1,500 feet to turn, then gradual down rocky, then grassy valley to village. Camp in enclosure where willows, close to rest-hut.

3. **Khardong to Khartsar**—9 miles.—Steep down narrow gorge to Shayok, 2,500 feet in 5 miles, then along left bank, 4 miles, to stage Khartsar, where there is good shade and village.

4. **Khartsar to Tagur**—14 miles.—Along Shayok, sandy, at 3 miles cross suspension bridge to right bank, 3 miles to pretty village Tirit ; then turn north ; up Nubra Valley ; sandy *maidan* with thorn bushes, &c., then more extensive cultivation, Kialzung and Summur. Tagur is the chief village. From the Santaling Gonpa a fine view. This is an interesting monastery of yellow Lamas.

5. **Tagur to Panamik**—12 miles.—Cross sandy and stony *maidan* with one or two villages and straggling cultivation. Ford some swift side-streams. Panamik a pleasant place, and fine view. Hot spring at source 150° F., in baths 120° F.

The stages from Leh might be first day Khardong, second Tirit, third Panamik.

6. **Panamik to Camp**.—15 miles.—Through cultivation for some miles, then stony and sandy plain, 9 miles, cross Tillam. But river ; up a well graded zigzag over the cliff at entrance of *nullah*, then descend to the river at Umlung, where a cramped camping ground, 12 miles from Panamik ; then 6 miles up right bank, cross bridge, 4 miles on to camp Tutiyaik near foot of Murgistan Glacier, 1½ marches, 22 miles. The old road over the Chanlung joins about 4 miles up the *nullah*. In 1908 Captain Oliver and the author explored the Murgistan Glacier to a height of over 20,000 feet. For rest of route see Route Tables.

The **Nubra Valley** has a great reputation among the Ladakhis for fertility. It is open, being from 2 to 3 miles wide and is bounded on the east and north by gigantic snow peaks. Supplies are abundant, and it should be a good sporting ground for ibex as well as burhel. In 1897 G. W. Millais, G. Tyndale Biscoe and the author explored the narrow ravine east of Panamik, camping at 19,000 feet, and ascending a peak of 21,000 feet (boiling point observations). The main Saser range has three peaks of from 24,000 to 25,100 feet. The highest of these would be best attacked from the main route to Yarkand, camping at Changposhi, and then selecting one of the ridges leading south-east. But the mountains are steep, and the ice cap formidable. Dr. Longstaff, Lt. Slingsby and the author discovered in 1909 a great glacier lying north of Saltoro Pass (35° 30' N. 76° 55' E.) originating near Mount Gasherbrum and going east. Dr. Longstaff subsequently ascended from Nubra and proved it to be the Sia Chen Glacier, and the biggest known glacier in Asia. This has since been explored by Mrs. Bullock Workman, and thoroughly mapped.

Dr. de Filippi and a party of experts made a thorough exploration and study of the sources of the Shayok and Yarkand rivers during 1914.

The stages up the Nubra from Panamik are :—

1. **Kimi—15 miles—7 hours.**—Cross bridge at 5 miles to Kuvet, then up right bank, chiefly through cultivation Arano, 2 hours, then $2\frac{1}{4}$ hours along hill side. Good path.

2 **Kimi to Gonpo, 3 hours—8 miles.**—Pass villages Nyungsted, Zangsar, and ford some swift snow torrents. The monastery called Gonpo is the furthest inhabited place. Pilgrims visit it every third year. The "heavenly light" describe and theorised upon in former editions of this Guide Book resolved itself into some bright coloured patch of lichen on a grand flat granite cliff, part of which looks strangely like a Buddhist chorten. Suggestion does the rest. Beyond Gonpo the route up the valley is only possible quite early or late in the year when the river is fordable.

1. Returning it is 1 march, 10 hours from Gonpo to Guvet (Kuvet).

2. Thence to **Charasa**, about 13 miles. —8 hours.—Most of the way a fair path along the hill side, and the last few miles on the flat, with grass, sand and cultivation. The limestone knoll with old castle and monastery is very picturesque.

Nubra to Khapallu (compare details on page 165).

3 **Charasa to Mondari—18 miles.**—Sandy path down valley to Shayok. 6 miles, then rough path along cliff for 2 miles, impassable for laden animals when river is full, when 10 miles along sandy banks. A trying march, no drinking water ; 10 hours. Camp at village, can sometimes cross by skin raft to left bank.

4. **Mondari to Unmaru—8 miles.**—An easy path for 5 miles, then loose sand 2 miles. Time $3\frac{1}{4}$ hours.

5. **Unmaru to Waris—17 miles.**—Rough path ; one bad bit of cliff path leaves the river, ascend into a side *nullah* where Waris is.

6. **Waris to Biagdangdo—9 miles.**—Up over a pass 14,000 feet, then steep descent to another side *nullah* and follow down to Shayok Village at junction.

7. **Biagdangdo to Turtok—16 miles.**—Down right bank pass Chalanka two-thirds of way, cross bridge.

8. **Turtok to Prahnu—12 miles.**—On left bank, cross at stage to right.

9. **Prahnu to Puyan (Paxfain map)—12 miles.**—On right bank a good deal of cultivation. Cross at Saksa, join Chorbat route (see page 165).

10. **Puyan to Lanka—13 miles—6 hours.**—For detail (see page 165).

11. **Lanka to Khapallu—11 miles—5 hours.**—Gradually ascend round hill and reach plateau, thence $1\frac{1}{2}$ hours on, last half hour descend to villages, camp near Raja's lower house.

N.B.—In 1912 a pony road was completed on the left bank from Tiri bridge down to Khapallu.

If going to Saltoro, the ferry is at Firmu, half way from Lanka to Khapalu, but take the lower road along the river.

In winter the path is under the cliffs instead of over them, and at times it is right along the frozen river

Longstaff made a pass from Goma in the Upper Saltoro, by the Chulung Glacier to Chulunka; it was difficult for coolies.

ZANSKAR.

South-west of Ladakh lies the wild glacial region of Zanskar. The only inhabited portions of this district are the generally narrow ravines of the Zanskar river. The population is very small, probably not more than 2,500 people.—*Drew.*

The climate is very rigorous; more snow falls and fiercer winds blow than in Central Ladakh. Trees are very scanty even at the villages, and are unknown elsewhere. With difficulty are the crops ripened. Communication with the outer world is almost cut off during most of the year. There is only a very difficult and circuitous route even to Leh.

Most of the passes to Lahoul, Padar or Suru are rough and laborious. The Shingkun Pass to Lahoul is not very difficult and from July to October is crossed by laden ponies. The Pense Pass into Suru is the easiest.

Zanskar to Kishtwar, see below.

Do. to Leh *via* Lamayuru, also see below, also route 17.

Do. to Lahaul, see route 16.

Do. to Kashmir *via* Suru, see route 16.

An interesting circular tour would be to go from Kashmir by Wardwan, Suru and Rungdum to Zanskar, returning by Wan La, Lamayuru and Kargil (see pages 148, 129 and Route Tables).

ROUTES INTO KASHMIR.

KISHTIWAR TO ZANSKAR *via* UMASILA JUNE—JULY 1907.

BY W. S. TALBOT, Esq., I.C.S.

(1). **Kishtwar to Bhagna**, 5½ hours.—(The times given unless otherwise stated in all cases allow for walking, going easy, with numerous short halts but no long ones). Path for first 2 or 3 miles edges up the long spur which divides Kishtwar on the east from the Chenab valley, a considerable but very gradual ascent to the corner, where one gets at once into thick broad-leaved forest, with fine views up the valley. This continues for the rest of the march, with a couple of small villages at intervals, good water about ¾ds through the march.

Camp at about 6,000 feet on cultivated land ; good water. Flies troublesome.

(2). **Bhagna to Piyas**, $3\frac{3}{4}$ hours.—The path much the same as on previous march, a good bridle-path keeping a great height above the river, constantly ascending and descending to cross streams or get round spurs and often very steep. One village passed—Galhar. Fine waterfall near end of march. Camp on a broad terrace on the hill side, small village (and other camping place) a little up the hill, about 6,200 feet.

(3). **Piyas to Shasthu**.—Time not noted, but about the same as the last march. The path becomes bad on this march, a percentage of it consisting of wooden galleries carried along cliffs high above this river ; the galleries fairly rotten and broken away in places ; (I understand that the path has been repaired since, and that the Forest Department are now making a new one low down by the river). Plenty of good water on this march.

Another camping place at Lidvari, 3 miles or so from Piyás ; very cramped with a noisy waterfall a few yards away.

Path is up and down, mostly steep, all the way. The *chilgoza*, or edible pine, in considerable numbers. Views are very fine on this march, especially the first part, though the Brahma peaks keep out of sight all the time.

Camp at Shasthu, about 5,900 feet, not much above the river ; it is far from roomy. There are numerous on the hills across the river, and can generally be seen opposite in the evening.

(4). **Shasthu to Gulabgarh**, $5\frac{1}{2}$ hours.—The first part of the march the path is as on preceding one ; about half way the valley opens out and the path is again a good one ; emerging soon afterwards into terraced cultivation, with a number of small villages. Last few miles over glaring rivers and in a hot sun.

For first three hours no drinkable water, the only big side-stream being crossed by a bridge 276 feet above water level. After that water is plentiful and good until the cultivation begins.

The last village passed is Ardholi, police station, dispensary ; the Naib-Tahsildar's office is a mile or two further on by the Gulabgarh Fort. Question of abolishing the Naib-Tahsil darand police station is under consideration.

Chenab crossed and a good cantilever bridge. Camp near Tahsil office on a sandy *maidan* at junction of Chenab and Bhutua river. A very windy place. Height about 6,000 feet.

(5). **Gulabgarh to Chashoti**, $5\frac{1}{4}$ hours.—A good rideable path. Cross Bhutua river by good bridge at the start. Three very fine deodars by Matti village close by : first few miles through steeply terraced cultivation, then thin forest, cross and recross the stream by fair bridges, passing some good waterfall, and so to small village of Chashoti. Camp at about 8,000 feet under some fine old poplars. An easy march with a steady but gentle up-hill gradient, fine views, and plenty of good water.

(6). **Chashoti to Dangel.**—A very short and easy march of about 4 hours: path not so good but still rideable. Machel is passed after crossing tributary torrent from the west. There are the winter quarters of the military guard over the Sukcham sapphire mines. The small villages above this (Lusani, Dongel, etc.,) are Buddhist.

Camp at 9,200 feet at edge of dense forest of firs and birches, near mouth of Danlong *nullah*. The hill above Machel and all along to Dangel is part of sapphire mine area in which no one is allowed. It is also a sanctuary for ibex.

(7). **Dangel to Bujwas.**—A short march of $4\frac{1}{4}$ hours, easy going. Coolies are taken through from here to Zanskar, 4 marches, and as they only carry half loads on the pass a good many are required.

One hour to Jashiari, a small hamlet; $\frac{1}{2}$ hour more to Sukcham, its last village (usually called Sumjam). It is only one-house, with a hole under a rock for the sepoy. The mine is far up the steep hillside to north, and on June 22nd was still under snow. After Sukcham the valley opens out and forest disappears. Camp on a broad grassy *maidan* at about 1,500 feet, plenty of birch fuel. A very fine peak opposite and a circle of snows up the *nullah*.

(8). **Bujwas to Bigjani.**—A very short march of $3\frac{1}{4}$ hours, but steep. After a mile or two up the broad Bujwas *nullah*, the path turns to the left and zigzags up the steep side of a branch *nullah*; after 1,000 feet or so the *nullah* opens out into a wide basin; afterwards ascent is easier though still fairly steep, only occasional snow.

The proper halting place, being still deep in snow, camped about 500 feet below at about 14,500 feet in a very cramped place with snow around and an ice fall of a big glacier alongside. Not much shelter for coolies. Fuel of course has to be brought up from below. Cold night.

(9). **Bigjani to Gahaura**, $8\frac{1}{2}$ hours, but this was unnecessarily long as having no one who had crossed the pass this year. I took the wrong way and wasted much time cutting steps for about 1,000 feet up a slope. Coolies followed the same route and took nearly 12 hours.

At start a steep climb of 500 feet to the usual camping ground, thence a mile or two easy going over a broad glacier filled *nullah* (deep in snow). From head of *nullah*, at about 15,500 feet very steep ascent up snow-ice slope for about a thousand feet, thence a steady grind of about 2 hours to top of Umasi Pass (reached about 5 hours out), over snow fields, height 17,370 feet.

About 1,500 feet down steep slopes of soft snow, then some miles of gradually falling snow fields, and about 4 miles on over a confused jumble of fallen rocks to Gahaura (tahsil Kargil).

Camp at 13,500 feet; *bortsa* fuel; a good spring befouled by previous travellers.

Most of the servants and some coolies knocked up with snow-sickness in crossing the pass.

The alternative path on the south side of the *nullah* above Bigjani would be easier.

(10). **Gahaura to Atingi**, $2\frac{1}{2}$ hours.—Riding a local pony most of the way. A fair path down the *nullah*, which bears a certain amount of dwarf willow and other vegetation. Emerged into the wide Zanskar valley a mile across at the bottom, with a roomy and grassy camping ground. The village is a small one at about 12,000 feet.

Rock pigeons are fairly plentiful and useful; as *murghis* are unobtainable in Zanskar (fowls and eggs are also practically unobtainable in Padar).

(11). **Atingi to Kishrak**, which is close to Padam, the old capital of Zanskar, now in ruins. About 18 miles, easy going all the way, mostly alongside the river, but the last part is over a bare plain, stones and sand and would be tedious walking. A fairly big *ganpa* at Sani half way; hills bare and unattractive. Rather a strong side stream crossed after Sani; should be crossed fairly early in the day. It is sometimes bridged. Camp at 11,750 feet. Strong wind in afternoon, usual in Zanskar as in Ladakh. Baggage on ponies.

(12). **Kishrak to Tongde**, a very short march of $2\frac{1}{2}$ hours or so riding partly. Cross Nunak river by an easy *jhula* at the start. Rest of march over bare stony slopes. Camp 11,460 feet. Small village and *ganpa*.

(13). **Tongde to Zanglah**, $4\frac{1}{4}$ hours on a very slow-walking pony. About a mile near end of march is not rideable, where the valley closes in and the path gets on to a precipitous hillside for a time.

Camp about 11,400 feet. The village is rather a large one. The descendant of the former Rajas of Zanskar has a good house here (Zanskar is pronounced "Zahar" locally).

(14). **Zanglah to Namtse**, about 5 hours; a few miles down the main valley, then turn up a side *nullah*, very steep for 1,000 feet, after that much easier, and mostly rideable. Top of pass Namtse La, about 14,700 feet, $3\frac{3}{4}$ hours out; no snow.

Camp about 1 hour on by gradual descent 13,500 feet, plenty of willow bushes for fuel and good water. A cold place. The village.

Burhel are very numerous around here, but good heads scarce.

(15). **Namtse to Bangtse** (Tahsil Ladakh). Short march, difficult for ponies in parts, but mostly easy. About $2\frac{1}{2}$ hours.

Camp at about 13,000 feet. Plenty of fuel. No village.

(16). **Bangtse to Nirak**, 4 hours, crossing Tiktik La, 15,966 feet. Path up bed of right hand branch of *nullah* above camp for a bit, then steep zigzags up hill side, crossing the ridge into left hand branch at about 15,000 feet. From here one sees the pass straight ahead. Slight descent, then steep zigzags, gain the top where the next pass Singhe La appears straight in front with a fine peak, Z1 at its side. Easy descent to Nirak, a small hamlet included in Gulchung village at about 12,250 feet. Good house owned by an astrologer; some fair-sized pencil cedars in ravine above.

The pass is a very easy one, though steep on the Bangtse side ; very little snow.

(17). **Nirak to Manechan**, $6\frac{1}{2}$ hours. Straight down the hill to the river crossed at 10,819 feet by a good bridge. The river here runs in a fine rocky gorge. Up the other side very steep for 2,000 feet, cross a spur, descend a little, and rise gradually to Yulchung 12,735 feet, a fairly large village ($2\frac{1}{4}$ hours from camp). Steep ascent of 1,000 feet and after that gradual to the pass (Singhe La, 16,601 feet) hardly any snow on south side, but a considerable patch of steep snow on the north ($4\frac{3}{4}$ hours out).

After the snow is quitted there is a gradual descent to the camping ground, Manechan, about 1 hour on. This is a roomy plain with some fine hills around, plenty of brushwood for fuel. About 14,500 feet and cold at night. Baggage, on yaks, took $9\frac{1}{4}$ hours.

(18). **Manechan to Spangthang**, $4\frac{1}{2}$ hours. Easy going up and down over old moraine for about 2 hours until a low spur is crossed, and Fatoksar village comes in sight ; path descends a little way to the village, crosses the stream, and rise very gradually to the pass, (Shirshir La, 16,372 feet), reached in about 4 hours from camp. Good path, nowhere at all steep, except this short final ridge. No snow on either side.

Spangthang is $\frac{1}{2}$ hour further ; (the usual halting place would be Hanupatta) ; camp about 15,250 feet ; no fuel on the spot but can be got further down the *nullah*.

(19) **Spangthang to Wanla (Phanjila)**— $1\frac{1}{2}$ hours to Hanupatta, a poverty stricken hamlet of Wanla at about 13,000 feet. Yaks can go no further and are changed here for coolies. Rather poor path out to Phanjila, crossing and recrossing stream by small or rather sketchy bridge. About $2\frac{3}{4}$ hours from Hanupatta, 11,000 feet.

(20). **Phanjila to Lamayuru** passed the main village of Wanla $1\frac{3}{4}$ hours, a picturesque place with gonpa and fort on a high spur. Turn to *nullah* to left through Shilla (also part of Wanla), then up a small ravine to west in about $1\frac{1}{4}$ hours to top of the small pass Prinkiti La 12,500 feet by Guide Book, but seems less. Ascent very gradual ; final ridge fairly steep on both sides ; easy descent to Lamayuru about 1 hour.

N.B.—Native travellers are strictly searched before and after passing the sapphire mines. None are allowed to take over Rs 32 without a pass from the Naib-Tahsildar of Padar.

At Lamayuru the main road to Leh is joined, see page 130, thence it is half stages.

SURU Map 45 S. W. approx. 76° E. \times 34° 8' N.

Suru is a collection of hamlets scattered over an area 4 miles long and a mile or so wide.

The main path north leads to KARGIL along the river. If going to *Leh* one could go by Kurtse and Sapi to Shergol, (see above page 129) or by Kinor bridge to Paskyum (see above) or by Rangdum and the Kangi La to Lamayuru, pages 207, 208, or by Zanskar; to Kashmir the choice of routes is (a) by Kargil, (b) by Umba La (see below), (c) by Wardwan (see next page).

To see or to climb *Nun Kun* mountain cross the Pakartse La a *magnificent view*; go to Gulmatonga or Rangdum, cross the Suru river where fordable (according to season), ascend the Shafat Chhunullah and glacier. The author explored to 18,000 feet in 1902; he was followed by Mr. Sillem, who ascended to 21,000 feet and discovered the snow plateau between the four high peaks; then Dr. H. and Mrs. B. Workman followed and climbed a peak estimated 22,800 feet at the east, and called it Pinnacle Peak. In 1914, Count Calciati ascended Kun Peak, the highest rock peak, over 23,000 feet. The Dome Peak, or Nun, has not been attempted; it is 23,410 feet.

Another climb is from Tongul, 8 miles south of Suru; and one can choose either the Tongul nullah or one a couple of miles east; both paths join at the Sentik La, 16,500 feet. Then one climber's route goes on across the Barmal glacier and pass 17,000 feet, and round east another down the Bod Zojnai nullah and another turns due west down the Barmal glacier to the Bhotkot nullah, and joins the main route to Wardwan. The author will gladly supply details to any climbers.

There is a direct route from Shergol (on the main road from Leh to Suru. Map 45 N. W. and S. W.)

1. **Shergol to Sapi**—12 miles—8 hours.—Steady long ascent nearly 10 miles to pass 14,500 feet; easy, fit for riding; $2\frac{1}{2}$ miles down to hut.

2. **Sapi to Camp in Kartse Valley**.—Cross stream and ascend south to the Rusi La, easy pass, over 16,000 feet. Grand view of Nun Kun from top. After a drop of 2,000 feet choice of routes to the valley still 2,000 feet below. The left and easier descends to Barto, the right to Barso. The former about 14 miles or 8 hours from Sapi. The latter about 20 miles or 10 hours from Sapi, being 7 miles lower down the valley.

3. **Barso to Suru**—about 17 miles or $8\frac{1}{2}$ hours.—Descend valley to Kurtse, then rise about 2,000 feet over a spur and drop steeply to Suru valley. Cross to left bank by a bridge above Sanku.

NOTE.—If route by Barto, then 3rd march to Sanku, 14 miles; 4th march to Suru, 10 miles.

The Suru valley is wild and picturesque, but barren from Kargil to Sankho or Sanku, where it opens out; and owing to a greater rainfall the hill sides are somewhat greener. Wild

roses and other flowers are seen, and there is good pasturage in the higher valleys.

On one or two occasions when the bridges at Kargil have been swept away the traffic has been diverted 14 miles up the Suru river to Kinor bridge, 1 mile below Tsalis Kot; and thence descending the right bank to Tikse, 8 miles (passing Partse and Zakartang), here turn up steep side to Chuskor, ascend 1,000 feet, cross side stream and ascend spur to left 1,000 feet, thence along slopes of mountain immediately overlooking the great plateau between Kargil and Paskyum to the latter place, camping near bridge above village; 17 miles from Kinor.

There is a direct route from *Sanku*, 2 marches south of Kargil in the Suru valley, to *Dras*.

1. **Sanku to Umba**—8 miles.—A bad road $3\frac{1}{2}$ hours, fording stream half way.

2. **Umba to Dras**—18 miles—A double march. Steep ascent 3,500 feet to *Umba La*, 14,800 feet, easy descent to grassy valley, a camping ground two or three miles on, but no supplies; then easy ascent to *Lamagus La*, 14,000 feet, overlooking the Dras valley, to which a long gradual descent about $2\frac{1}{2}$ hours. Total time 10 hours. The path is difficult early in the summer, or after snow.

It is described in Wilson's *Abode of Snow* as if it were an Alpine feat.

Author with ponies went from Dras to *Umba* in July; it took ten hours marching with halts.

Going from *Dras* it is $3\frac{3}{4}$ hours to top of first pass, $\frac{3}{4}$ down, $1\frac{1}{2}$ hour, in grassy valley, $\frac{3}{4}$ hour steep ascent, $1\frac{1}{2}$ hours steep descent to *Umba* village allow 1 hour halts en route, total 9 hours.

KARGIL TO KASHMIR VIA SURU AND WARDWAN.

Kargil to Tsalis Kot—15 miles—8 hours.—Take ponies through to Suru. Path very rough over moraines; supplies scanty. Pass Kinore bridge 1 mile from Tsalis Kot.

2. **Tsalis Kot to Sanku**—10 miles— $4\frac{1}{2}$ hours.—Two miles rough, rest of road better. Large scattered village at Sanku opposite the fertile Kurtse valley. Good camping ground with shade. Supplies plentiful. Path to *Umba La* starts west from here. (See Route 14, also above).

3. **Sanku to Suru**—15 miles—8 hours.—One hour along valley, then over stony spur, with ruined castle, and steep staircase. Then rough path by river and along face of cliff to a village, one and a half hours picturesque gorge, a bridge to opposite bank. Wide bend round corner to west, then again south rather stony; get distant view of Nun Kun. Finally $1\frac{1}{2}$ hours on level with grass past scattered villages, cross a side *nallah*. choice of camps. Shade at polo ground, or near the Thana. total time 8 hours for coolies. Rest-house not habitable. A collection of harness, supplies, fowls, eggs, ghi, sheep, &c. Near village is Captain

Christian's grave. Engage coolies through to Suknes, to which there are two distinct routes. Take 4 days' supplies. The path is seldom fit for ponies. Route A. early summer.

4. **Suru to Donara**—10 miles—Road very rough, the track carried away in places; Donar or Gyaling Kor on small plain; good camping ground. Fuel close by; no supplies. Height 12,400 feet.

5. **Donara to camp below Bhot Khol glacier**—10 miles—8 hours.—Road turns south two miles foot of pass, ford shallow streams. One mile steep ascent over ice and rocks (to 14,400 feet). Bhot Khol Pass first summit 600 feet ascent, $\frac{3}{4}$ mile fairly level over deep snow, soft in places, to second summit, then very steep descent, zigzag on snow; 4 miles in valley along the main glacier, then good path to the camp E. $75^{\circ}54' \times 34^{\circ}$. No supplies, but wood. Cross the pass early in day. In 1902 Rev. C. E. Barton and the author discovered that the Barmal glacier which ends in the Bhot Khol glacier comes all the way from Nun Kun, an average width of one mile, and total length of 15 miles. At times there is a variation in this route descending from the summit of the Pass to Sagar Nar $2\frac{1}{2}$ hours along ice and moraine, then $\frac{1}{2}$ hour's descent to Kanital, and $\frac{3}{4}$ hour on to camp, rejoining the other route.

6. **Camp to Wompét**—12 miles— $7\frac{1}{2}$ hours.—Easy descent in Bhot Khol nullah, road generally good and fairly level but somewhat slippery, and in places over snow (in August), then ford the river, sometimes difficult, about 10th mile, an ascent sometimes slippery, camp by birch forest. The fords are extremely difficult at times, and it is usually best to cross on the snow at the glacier, and keep down the left bank. About 2 miles on is Wompét, a large plateau usually occupied by goatherds, 11,300 feet.

7. **Wompét to Suknes**—10 miles—7 hours.—Rough and slippery for four miles through birch forest. Grand scenery, turn abrupt corner. Then cross wooden bridge, rest of road fairly good. A village: scanty supplies. From here a path to Sona Sar (Lidar Valley) 12 miles climb (see page 86).

Route B. Late summer, when Bhot Khol crevasses are bad.

4. **Suru to Sirimarg**—15 miles—10 hours.—To Donara as above, then keep up due west. After much rough ground upland valley opens out. Camp near foot of terminal glacier. Height 13,700 feet. A *bransa* for coolies. Fuel scanty.

5. **Sirimarg to camp in Bhot Khol Valley**—12 miles—10 hours.—About 500 feet up glacier and moraine, then to left steep up rocks, and again to left on easy snow slope to Pass, 15,500 feet. Yurangshan Pass or K. Gujighar, $75^{\circ} 49' E.$ Steep rock descent to moraine, 1,000 feet *baransas* at Khelahoi and Sekahoi, easy descent to Morse Khol, and finally a second steep and often slippery drop on to Konnag in the Bhot Khol. This pass is some 6 miles west of the Bhot Khol Pass. Here join Route A.

6. **Camp to Suknes**—15 miles.—Two miles on right bank, enquire ford from goatherds, at times dangerous, then cross, ascend to Wompét, Marg, and as in first route, 7th march.

7. **Suknes to Inshin**—18 miles—8 hours.—Several steep ups and downs, generally downhill. Pass village Basman, broad fertile valley; supplies plentiful.

8. **Inshin to Suknes**—Do not cross stream, but keep on right-hand side all the way to Suknes.

9. **Inshin to Camp**.—10 miles—5 hours.—Very steep ascent, then better along slope; in places rocky ascents and descents. Usual camp Lutharwan some 3,500 feet above Inshin, where firewood is difficult to find. Better cross Pass and descend to Gujars' huts about 2,000 feet down. Total about 8 hours, 18 miles.

In this case next march omit Gauran and march to Nowboog, 9 miles.

Coolies should be taken through from Inshin to Nowboog or Shangas.

The direct pass from Nowboog to Achibal is the better and easier.

10. **Camp to Gauran**—10 miles—5 hours.—Slight ascent over boulder and marshy land to summit of *Margan Pass*, 11,500 feet. Steep descent, rough road about 2,000 feet. Then easier down valley through forest, 2 hours to Gauran first village, rather hidden by trees on left bank where valley first widens. Supplies include potatoes and honey.

11. **Gauran to Shangas**—15 miles—6 hours.—Road level and good, 7 miles to Nowboog, large village. Plentiful supplies, then ascend to *Hockin Galli*. Undulating path—good usually, but slippery in wet weather, miles through forest. Shangas a big village, good camping-ground under *chenars*. Supplies plentiful.

12. **Shangas to Kambal**—12 miles.—One path goes *via* Achibal, to which there is also a direct path from Nowboog. Thence 8 miles to Islamabad, and 1 mile on to the rest-house and boats at Kambal. (See page 80).

N. B.—The Bhot Khol Pass is rarely practicable for ponies, and is difficult for them. The advice of the Suru people should be followed in this point. In winter avalanches sweep the *nullahs* on the Wardwan side and are a danger. A few years ago the ill-fated camp of Dr. Genge was buried under an avalanche.

In the above route Suknes and Inshin are in the upper part of the beautiful Wardwan valley. A rough path leads down the valley from Inshin to Marau, the chief village, 24 miles. The *nullahs* on the east used to be good ibex ground, but the intrusion of goatherds has driven away the game to less accessible parts, over the great range.

Following down the valley it is three rough marches to Kishtiwari. (See below).

I have not been myself, but am told that from Marau there is a rough path on the right bank in three stages *via* Sarwal

spur and Nanzil, joining the Kashmir Road a few miles above the bridge over the Wardwan river, thence about 7 miles on to Kishtiwār. For the left bank see page 225.

KISHTIWAR ROUTES.

The bridle road to Kashmir is given on pages 88-89.

KISHTIWAR TO RAMBAND—SIX STAGES.

This joins the main road from Jammu to Kashmir at Ramban; one path follows the left bank of Chenab. Another crosses ridges on right bank.

1. Path crosses the rivers Chandra-Baga and Wardwan, 5 miles along the Kashmir road, then ascends the spur opposite to Keshwan. 7 hours quick walk.

2. To Brut, 15 miles, crossing two ridges.

3. To Doda, 15 miles, descending two hours, then cross a ridge and descend to large village; on the opposite side is a path to Chamba, *via* Bhadarwar.

4. To Kushtigarh, 10 miles, steep climb at end.

5. To Rajgarh, 12 miles, long ascent and descent.

6. To Ramban, 16 miles, several ascents and descents, hot and tiring.

KISHTIWAR.

Most parts of the Kishtiwār district are scantily populated. The mountains are steep and rocky. Below 9,000 feet there are forests of pine and deodar, also oak at lower levels. The rivers flow in deep gorges, and the paths are difficult. The plain of Kishtiwār, with its many villages, and cultivated, gently undulating ground, affords a pleasing contrast to the surrounding mountain wildness.

The town, which possesses a post office and dispensary, is very small and dilapidated. Formerly there were independent Rajas of Rajput descent. The hillmen of these districts are allied to those of Chamba, but many of them are Muhammadans, and some Kashmiris have settled in the large villages and intermarried with Kishtiwāris. Travellers will do well to consult Hutchison and Rose's Guide to Chamba. See Route 10.

CHAPTER XI.

BALTISTAN.

Baltistan bounds Ladakh on the west and extends for 150 miles on either side of the Indus. It is a wild district, with lofty mountains and deep valleys, all of which drain into the Indus. Most of the villages are situated either on the Dras river, the lower part of the Shayok, the Shigar or the Indus itself. The chief town is Skardo, after which the whole province is often named, where the Wazir-Wazarat resides, and where there is a post and telegraph office. Shigar is another populous place, one march from Skardo, while Khapalu is the capital of the Lower Shayok. On the north the province of Skardo is completely shut off from all communication by the mighty Mustagh Range. But with Ladakh, Kashmir and Astor there is intimate connection and constant traffic.

Until conquered by the Sikhs under Zorawar Singh, Skardo was the capital of a Muhammadan Raja, whose descendants still retain the title. At one time the Skardo Rajas ruled a large territory, and even conquered Chitral. The chenar trees by Chitral Fort were planted by one of them. The Rajas of Kharmang, Khapalu, Shigar, Skardo, Rondu, Astor, Hunza, and Nagyr, are all descended from an early Raja of Hunza, and these families intermarry. This did not prevent constant internecine warfare until the Sikh conquest.

Most of the inhabitants are of Tibetan origin and speech, differing not greatly in appearance or language from the Bhots of Ladakh; but they are a rather taller race, and have been modified physically by intermarriage with their neighbours, the Dards, and in social habits, by their adoption of Muhammadanism. The upper classes are distinctly Aryan.

They are polygamists, and for this reason the country tends to become over-populated. The quantity of cultivable land is

limited by the possibility of irrigation. This has been most laboriously extended along precipitous hill sides, but thousands of Baltis yearly emigrate in search of work to Simla and other parts of the Himalayas. They are a sturdy, willing people, pleasant to deal with and rather independent.

They wear woollen skull cap, coat and pyjamas, with boots of strips of untanned skin. Their heads are shaved, except at the side and back, and from under the cap straggling elf locks fall over the neck. Some few of the higher parts, as around Dras, are partly inhabited by Dards, called Brokpa or Highlanders. These also are Muhammadans and of the Shia sect, but in Shigar and Khapalu many belong to the Nur Bakhsh sect. The whole population is considerably over 50,000 persons.

The chief route to Skardo is that by the Sind Valley and Dras.

At Dras arrangements should be made for supplies, except milk, fowls and eggs which can be obtained at each stage, as also coarse *ata*.

The Skardo route diverges from the main Ladakh road at *Kharal* suspension bridge, by the junction of the Dras and Suru river.

Ninth march.--Kharbu to Kharal.--12 miles.--The new bridge, is 90 yards span; close beyond is the rest-house, there is neither village, shade grass nor good water. It is better to go on $3\frac{1}{2}$ miles to Gangani, a stony road. Old gold digging passed. All mile posts distance is from Kharal.

Tenth.--Kharal to Olthing-thang--12 miles.--As above to Gangani $3\frac{1}{2}$ miles. A village of 20 houses, good shade and water and cultivation. Then 1 hour stony path to opposite Belargo, a pretty village. Fine granite ridge above on right 2 hours on with one ascent of about 200 feet, then descent to stream below Olthing, then 20 minutes up through hamlets and fields to rest-hut. A cleaner camp in small terrace might be got 5 minutes further on and below path. Water should be boiled. Time $3\frac{3}{4}$ hours, coolies 5 hours.

Eleventh--Olthing-thang to Tarkati--9 miles.--From Kharal $21\frac{1}{2}$ (this might be done in one day). The bridle road keeps high above Suru river and ascends slightly to corner above junction with Indus, 1 hour, then steeply down $\frac{1}{2}$ hour to Indus in a narrow gorge, 150 yards wide, then $\frac{1}{4}$ hour on to hamlet Mashang, good water; the old road then ascended over cliffs, but a new road keeps low down, built up or rock-cut for 2 miles. At Tarkati a pleasant shady camp near river, large village, fair supplies good water, 3 hours, coolies 4 hours.

Twelfth.-Tarkati to Kharmang--11 miles.--4 hours self, 5 hours coolies; at mile 23 ascend 600 feet and cross a small *nullah*, village Shiritang one hour; then steep stony descent to river, $\frac{3}{4}$ hour to village Gilliaro, where shade, water and possible camp; at mile 26 over a zig-zag

parri, at mile 29 village Bagicha, good shade and water, 20 minutes on to patch cultivation Bondoko, then one hour stony hot road to Kharmang, in a deep gorge last mile sandy. The rest-house is on left bank near rope bridge, no shade, grass, nor water. All supplies are brought across the bridge (span 90 yards). The Raja's house is picturesquely situated on the right bank nearly a mile from the bridge, and across a side stream. The old castle is ruinous. Raja Aman Ali Shah of Karmang has a wide district from the Shingo river below Dras to Parkutta, and up the Indus to Urdas. The next *nullah* on the right bank is reserved for his shooting; a path leads up it to the Ganche La, and so across to Khapalu: it is 2 days' hard going (see page 163).

Thirteenth—Kharmang to Tolti—12 miles.— $4\frac{1}{2}$ hours, or coolies 6 hours. A mile to a corner where Indus breaks through a rocky gorge: formerly a great moraine, probably from Ganche *nullah*, must have blocked the river here. There are fierce rapids. The path turns west for 1 hour to Malri Do village; then again bends N.W., again cultivation; then long stony bends, with one ascent, and again to left and down to Tolti. A small rest-house; or $\frac{1}{4}$ mile further a good camping-ground by the polo ground, 45 miles from Kharal. It is a pretty village, but in the winter never sees the sun.

Fourteenth—Tolti to Parkutta—18 miles—5 hours, coolies 6 hours. At first some cultivation, then a short bare stretch, then the fertile fields of Kamango, gradually ascending, note the great erratic boulders of the former glacial epochs. Six miles from Tolti pass under a great cliff, turn west, and after 2 miles more reach a series of hamlets Ghori, Shardock, Rasan. A small river by a bridge $\frac{1}{2}$ mile up, or ford, then villages Mantaka, Rasan. The fertile fields stretch for 3 miles. Then turn north at mile 56 along a small parri, soon reach cultivation, thence $\frac{1}{2}$ hour on to Parkutta village, and rest-house on a rock 58 miles from Kharal.

Fifteenth.—Parkutta to Gol—14 miles—5 hours, coolies 6 hours. $1\frac{1}{2}$ hours through cultivation, then $\frac{3}{4}$ hour undulating reach fine village Sirmik, 20 minutes to small side stream; then turn more north through village pass mile 65, at mile 66 a short rocky parri, and a sharp bend of the river in a water worn gorge; path scaffolded and built up under cliffs. At 10 mile from Parkutta a ferry crosses to right bank of Shayok by confluence, below Kiris, which is seen as a fine stretch of rich cultivation for some miles up that valley. For Gol one keeps on round a corner for 2 hours to Gol village and rest-hut; $\frac{1}{2}$ mile further is a better camp near a side stream, with a good spring.

Sixteenth—Gol to Skardu—21 miles—coolies 9 hours, pay 6 annas— $\frac{1}{2}$ stages. Ascend a little beyond the village, then stony and bare, $2\frac{1}{2}$ hours to opposite Narh; $\frac{1}{2}$ hour to bend of river; well built up path, 1 hour on to cultivation and trees, Torgum, 8 miles from Skardu; pleasant walking with shady places, meadows, fields and extensive views, $2\frac{1}{2}$ hours, valley opens out; finally ascend from grassy flat to plateau, pass the SKARDU Tahsil on right, then comes the rest house.

Near by is post office, telegraph, dispensary, etc., a little below is the barracks; and just beyond at the foot of a great

trap hill is the picturesque polo ground. The Raja's house is to the south a little higher, and a bazar. There are several camping-grounds, but none very good. Water abundant and good, also supplies, English stores, etc.

The Shigar river joins the Indus opposite Skardu. Height about 7,500 feet. The climate is cold in winter, but the snow-fall less than in Kashmir. The Indus rarely freezes here. In summer it is rather hot. At the end of August the shade temperature still reaches 80°; but the nights are cool. The fruit (grapes, apricots, melons, etc.) is delicious.

The Indus Valley below the Skardu plain again contracts into a narrow precipitous gorge, between the rocky walls of which the now large river is churned into foam as, in a series of rapids, it descends the steep part of its course to its great bend southwards.

There is scarcely a path even for men on either bank. There are but few villages and these are situated high up the mountain side, on which high level deposits, like those above Skardu, give evidence of the height to which the valley has been at times blocked and water accumulated.

Rondu is 5 marches down. Dr. Rudduck, who gives the route, says: "Path generally bad, sometimes in bed of river, sometimes as much as 2,000 feet above it. Ponies not being trained to climb are not available for baggage. The path beyond Mendi to Haramoush is still rougher."

Major Napier, R.A., writes that this refers to some years ago, and since then the path has been somewhat improved; but there are still some bad places.

A bridle path is being gradually brought up the right bank of the Indus from the Gilgit, but has not yet reached Rondu.

There is now a higher path by which ponies can go to Steriko beyond Mendi.

1. **Skardu to Kumara**—6 hours.—Two miles below Skardu cross Indus by ferry boat, and follow down right bank.
2. **Kumara to Sari**—5 hours.—Easy path for half way, then leave the open valley, and slopes are rough.
3. **Sari to Toongus**, 4½ hours.—A rough march.
4. **Toongus to Dasu**—5 hours.—At Bagicha usual to change coolies, then steep ascent of 2,350 feet, then descent of 800 feet to village.

5. **Dusu to Mendi, 5 hours.**—Gradual rough descent to Indus. Cross by a high rope bridge, with ladder approach, one of the worst bridges in the Himalayas, then about a mile to village, which is the capital of Rundu.

DEOSAI ROUTE TO SKARDU.

This is by far the best route between July 15th and September 15th. It is sometimes open earlier and later.

Those who intend to travel this way must make arrangements for their own supplies, and transport from Bandipura (*vide* Rules for Visitors).

The early marches are by the Gilgit road (see page 167) as far as Burzil, 5 marches from Bandipura; or the lightly-laden traveller may take the route *via* Wangat and Tiel (see page 101).

From *Purana Tiel* it is one march of 7 hours to Sonawani where the Gilgit route is joined crossing a pass with steep ascent and rather easier descent of about 3,000 feet. There is also a path from *Sonamarg to Tiel* (see route 23).

The Deosai route is across an uninhabited plateau, so provisions and also some dry firewood should be taken.

Burzil to Camp Chandakut, 8 hours, excluding halts.—(Ponies) Ascent from Burzil Kothi 450 feet north-east to Wambi; then more rocky, steady, easy ascent 1,000 feet to pass, 12,800 feet Mir Panzil or Stakpi I a. turn north one mile slight descent north-east to Chota Deosai, open grassy valley, cross stream to left 3 hours leave valley, which turns south-east (here path to Shingo), ascend north-east, steady over stones and boulders; then steeper to summit Sari Sungar Pass, height 14,200 feet; down to shallow lake, then another on right view over plateau with rolling hills. Gradual descent to grassy valley, 2 miles on to Camp Sekbachan, 7 hours marching, then $1\frac{1}{2}$ on flat to shelters at Chandakut, height 13,200 feet. In wet weather, or if much old snow, this would be too much for one day. Bitter winds sweep plateau. August 19th, temperature at 7 A. M. 28° Fahr., streams partly frozen. From here is a path west over easy pass 12 miles to the Gilgit road.

Chandakut to Ali Malik Mar, 7½ hours, excluding halts.—One and three-quarter hours to Kruhni Ab shelter, cross stream, one hour ascent to stony plateau (height 13,500 feet). Here a view round complete circle of snow peaks. All these rounded hills are old moraines.

Down to and cross larger stream Bodab, $1\frac{1}{2}$ hours; then $1\frac{1}{2}$ hours to another stream. Marmots abound in parts of the plain.

Two hours slightly ascending and crossing another stream to camp at north-east corner of the plain close to side valley. Usual low wall shelters **Ali Malik Mar.** A path to Skardu across ridge opposite two marches; a sculptured stone with Buddhist inscription at one place in the Salpa nullah.

If making shorter marches: 1st Camp, *Sekbachan*; 2nd *Bodab*; 3rd *Ali Malik Mar*.

Ali Malik Mar to Pindobal (Camp), $7\frac{1}{2}$ hours, excluding halts.— Gradual easy ascent up grassy valley to north for $3\frac{1}{2}$ hours; then one mile of steep slopes into a rough stony valley east; then 500 feet up zigzag steep slope to top of *Burji La*, 15,900 feet, 5 hours from camp. Magnificent mountain view of the giants of the *Mustagh*, with a glimpse of the *Shigar* orchards 8,000 feet below. A descent over snow for 500 feet; then rocks 1,500 feet to *Wazali Hadan* shelter wells, then one hour's steep down ravine to large spring; pencil cedar bushes; one hut. Total descent $2\frac{1}{2}$ hours. Height of camp 11,400 feet.

Pindobal to Skardu, 5 hours—Steep descent in gloomy gorge, 3 hours; then emerge suddenly, $\frac{1}{2}$ hour to huts *Kurpito*, on edge of *Skardu* plain. One-and-a-half hour east by narrow avenue of willows and poplars, then stony *maidan*, cross a stream to first of straggling hamlets of *Skardu*, pass polo ground and post office to rest-house.

The other path from *Ali Malik* leads in from *Salpa* ravine.

It is difficult to follow the above description in reverse order, so I give the following details:—

SKARDU VIA DEOSAI TO BURZIL ROAD.

Skardu to Wozul Hadar, $7\frac{1}{2}$ hours, 14 miles.— $1\frac{3}{4}$ hours to *Karpito* at foot of ravine, then $4\frac{1}{2}$ hours steady ascent, at $3\frac{1}{2}$ hours pass *Pindobal*, shelters, where abundant wood and a fine spring, no wood up at camp.

Wozul Hadar to Wozul Ab or Lalpani, 9 hours, 18 miles.—Ascend $2\frac{1}{2}$ hours, the last 500 feet steeper and occasionally trouble with snowbeds over pass and down zigzags $\frac{1}{2}$ hour, then gradual descent $1\frac{1}{2}$ hours to *Ali Malik Mar* shelter walls, $4\frac{1}{2}$ hours on to camp at *Wozul Ab* (red water). This is the first of three chief fords, dwarf birch fuel.

Wozul Ab to Sekbachan, $4\frac{1}{2}$ hours, 10 miles.—General direction S.W. 40 minutes to large stream *Bod Ab* (big water) ford, gradually up over a stony plateau *Shamoskith*, then down to *Kalapani* or *Kruhia Ab* (black water) ford, 5 minutes on to good stone shelters, fuel; $1\frac{1}{2}$ hours to *Chandakut*, stone shelters, no fuel, $\frac{3}{4}$ hour to *Sekbachan*; there are equally good camping-grounds for the next two miles on.

Sekbachan to Burzil, $6\frac{1}{2}$ hours, 13 miles.—Slight curve S.S.W., then gradual ascent W. $2\frac{1}{2}$ hours to *Sari Sangar* lakes, and pass, boulders in places, then steep down S. W. to *Chota Deosai*, very little fuel here, cross stream, keep S. W. $1\frac{1}{2}$ hours, easy grassy valley to *Mir Panzil Pass*, then stony, $\frac{1}{2}$ hour, and steep descent, 1 hour to *Burzil* rest-house and main road.

Before the Deosai snows are sufficiently melted, a traveller may cross the Burzil and get to Skardu by the Alumpi La. The route follows the Gilgit road to Gudai, and then diverges to the east.

1. **Guadi to Babin**, about 9 hours. (Coolies).—Steeply up Dichel *nullah*, then over shoulder down to grassy valley. Easy going partly through pine forest for many miles; a village; cross an unbridged stream, village $\frac{1}{2}$ mile on; Camp.

2. **Babin to Camp (west of Pass)**, about 10 hours.—About 2 miles up cross a side ravin; then 2 paths; lower goes south-east to Deosai; upper winds gradually up over grassy shoulder. Turn left in to side valley; by stream a camping-ground; follow up stream 3 miles, stony ground, camp 13,000 feet at foot of pass in amphitheatre of steep snow ridges.

3. **Camp (Alumpi La) to Thlashing Spang Huts**, 12 hours.—Steep path and much snow; then level $\frac{1}{2}$ mile, then over rounded slopes, then level, then final very steep snow ascent, note-book says 60°. This must be a mistake; probably 45°; coolies suffered from height. Summit 4 hours from Camp Alumpi La, height 16,500 feet. Then very long steep snow descent; at foot level, then rocks, to a camp, descent 2 $\frac{1}{2}$ hours. Then about 5 $\frac{1}{2}$ hours down rocky valley to goatherds' huts.

4. **Huts to Katsura**, 13 hours.—Gradual descent 6 miles to village Shigathang; then cross river to left, 5 miles flat or rocky to village, and meadows 5 hours. Below this bridges over river, gone; so driven upon spurs to left, rocky moraines, with steep ascent, scramble along top precipice and down 4 $\frac{1}{2}$ hours to meadow; then a likelet, striking scenery, stupendous cliffs and peaks, one hour to Camp in Katsura whence fine view west to Skardu. This is a large village with supplies, above left bank of Indus.

5. **Katsura to Skardu**, 12 hours.—Soon descent past huge rocks of moraines to the level, green where irrigated; elsewhere a sandy desert. A village oasis midway, and another further on.

A direct route from Skardu to Astor joins the above at Thlashing Spang, crossing the Banak Pass. A path not always practicable, and often difficult.

From Skardu two marches to Shigathang; thence—

3. **Shigathang to Ordoks**, 12 miles.

For several miles easy; then a steep ascent, and rocky to height 13,000 feet; no fuel.

Ordoks to Chumik, 9 miles.—Four miles ascent chiefly on snow and steep to Bank Pass, 16,000 feet. In late summer crevasses appear, cross undulating summit; then steep descent 5 miles, 4,500 feet to Chumik where wood is procurable.

Chumik to Thingeh, 13 $\frac{1}{2}$ miles.—Six miles gradual descent on right bank to Herpo *nullah*; then 1 $\frac{1}{2}$ miles to wooded plain, easy for 2 miles, then rougher to Gutumsar village, 2 miles, on to next village Thingeh, 8,000 feet.

Thingeh to Astor, 14 miles.—For 7 miles easy path through many hamlets, rough for one mile, better for 2 miles, then steep descent; cross Astor river and ascend to Fort; thence across ravine and on to bungalow.

ASTOR TO RONDU.

These are sportsmen's routes and often difficult.

1. **Astor to Thingeh, 14 miles.**—(See above).
2. **Thingeh to Camp, 9 miles.**—At 7 miles leave main *nullah* and turn north; camp at about 12,000 feet. A steep ascent.
3. **Camp to Camp, 12 miles.**—A steep ascent to 16,800 feet, cross glacier, descend to stone shelters, mainly snow, then rocky.
4. **Camp to Mandi, 18 miles.**—A long rough march; pass several villages; steep descent to Indus.

Another route is as follows (Wingate):—

1. **Mandi (Shot) to Balamik, 12 miles.**—Fair path, 6 or 8 hours, riding
2. **Balamik to Baltal, 10 hours.**—A village is passed 2 hours below Camp.
3. **Baltal to Thingeh, 8 hours.**—Cross pass, easy except last, one hour of ascent, descend to Thingeh.
4. **Thingeh to Astor.**—(See above).

NORTH OF SKARDU.

The routes north of Skardu lead by either the Shigar or the Shayok Valleys.

Skardu to Shigar, 6 hours.—Above Skardu, $1\frac{1}{2}$ miles, is a ferry over the Indus, here called Attock Darya; after crossing the path follows up the right bank; $1\frac{1}{2}$ hours along sandy plain there is a division of paths. That to right leads to Khapalu *via* Narh. Now turn left up small ravine, cross a stony plateau, then down to Shigar Valley, soon reach cultivation, then $1\frac{1}{2}$ hours level, mostly shady, passing many hamlets to polo ground, where is a rest-house. There is an alternative route from the ferry going round west of the hill and following up the left bank of the Shigar river 5 hours, mostly on soft sand, then $1\frac{1}{2}$ hours among fields and avenues to Shigar. If skin raft is procurable at Skardu a long detour to the ferry can be avoided.—(Shigar 1910.)

Shigar is a widespread group of beautiful villages. The Raja lives in a mansion at foot of old castle rock. The fruit of Shigar is famous; also its polo. The old mosques and tombs of the Rajas are interesting. Supplies can be got through the Thanadar. The climate is cooler than that of Skardu.

Shigar to Askole lower route (WRIGHT, 1910).

1. **Shigar to Yuno, about 20 miles.**—Easy going for much of way, avenues willow trees, afterwards stony, sandy plain. In summer ford some small streams.
2. **Yuno to Koshuma, opposite Dassu, about 12 miles.**—stony and sandy plain, near Wungo necessary to climb and follow canal in summer when river high. Cross to Dassu by skin raft; this needs to be arranged beforehand by order of Tahsildar of Skardu, who will send from Gulabpur.

3. **Koshuma to Chckpa**, about 10 miles —A very difficult march to the rope bridge below Biano; better path on right bank, *via* Dassu. Path on left bank ascends 1,500 feet, some very narrow ledges.

4. **Chopka (Chokpicng in map) to Askole**, about 16 miles. A rough stony march, start early to get across a stream about 1½ hours out and two streams of liquid mud, 2½ and 4 hours respectively from Chopka. These are a mere trickle early in day, but cannot be crossed late.

At Pakore (Hoto on map) a rope bridge to left bank of Braldo, and recross at Chongpo to right bank.

Shigar Baltoro and Mushtagh Pass (by Mr. Ferber).

1. Up Shigar Valley to Hashu, 1½ hours, then ascend *nullah* to right, cross streams constantly, two steep ascends, coolies took 9 hours to camp near head of *nullah*; but better to camp 3,000 feet higher above steep grass slope, before snow. A heavy day's work.

2. **Camp to Askole**, 10½ hours. Ascend 1,500 feet up steep snow and rocks, 2 hours, to summit Skoro La 17,000 feet. On the north side is a glacier filled valley. Snow for three hours, descend past some hamlets to Thal Brock, 6½ hours from top. Here steep drop to Braldo Valley, fine view. Two hours to rope bridge below Askole.

It is easier to make three marches, the second camp being at Thal Brock; and also better to go to Askole by the lower route, and return by the Skoro La (WRIGHT).

3. **Askole to Bardomal**.—In favourable conditions, when Domordo Lungma can be forded, can be done in 9 hours. Otherwise a long detour up to bridge; camping at Korofon between the Biafo glacier and Domordo stream; second day 6 hours.

4. **Bardomal to Ortokas**, 9 hours.—Ascend Baltoro glacier. Mr. Montagnier built a cairn 6 feet high near foot of this glacier 200 yards to the north-west. The bearings then (June 1903) were 173°5' to foot of glacier, cross glacier to left bank, reach Liligo 3 hours, follow bank over boulders, small lake and Choher Zechen 3 hours, then again on glacier, cross two side moraines to Ortokas, 3 hours, a green slope, good camp. Take wood on from here.

5. *Cross glacier to right bank*, 4 hours, **Mustagh Lunka** at corner of Conway's Piale glacier.—Ascend Mustagh Lungma on glacier, 1½ hours to Mustagh Spangla, grassy slope on left bank, keep along this 1½ hours to upper edge. Lobsana Blangra. All these times are with coolies, and excluding halts.

6. **Follow glacier**, 3–4 hours, to foot of Pass.—The ascent is somewhat difficult, took 3 hours, would be less if guide knew the way, height 18,400 feet. The descent on north to Chang-Tong offers no special difficulties.

Fifty years ago local men took ponies over this pass. It then got blocked by glaciers. Captain (now Sir Francis) Younghusband traversed it many years ago, returning from Pamirs.

Returning from Askole *via* lower route, very narrow in places and sometimes blocked by mud avalanches.

1. To Pakore, 3½ hours.

2. To Hu, 5 hours.

3. To Dassu, 5½ hours.

4. Simnu, 6 hours, thence by skin raft to Shigar or Skardu, one day.

Askole is a world's end, surrounded by veritable glacial seas. East is the Baltoro glacier, the longest except Siachen out of the Arctic regions. Conway's party followed it up in July 1891, and ascended a lofty peak, Pioneer Peak (23,000 feet), at its head between Mount Gusherbrum and the great "K. 2" which is 28,200 feet high. Eckenstein reconnoitred K. 2 in 1902 and camped on its glacier at 19,000 feet for over a month. He has given the name Chigoro for K. 2.

In 1909 the Duke of the Abruzzi with a well equipped Italian party explored round K. 2 and climbed Bride Peak to a height of 24,600 feet, the highest ever attained by any climbers. Dr. de Filippi has written an interesting book about the expedition.

Some very fine ibex have been shot on the hills above the Baltoro glacier. The last good camp with fuel is at Rodkass, 13,900 feet.

There is little hope of any mountaineer ascending K. 2, which is too steep and icy.

North-east from Askole is the huge Biafo glacier linked by a vast snowfield at its summit with the Hispar glacier. Conway's party traversed this in crossing from Nagyr. They had fine weather, and being early in the season the snow was still in good condition. Since Dr. and Mrs Workman have mapped both glaciers.

A large party of Nagyr raiders lost their way on this glacier fifty years ago, and perished.

The west branch of the Shigar *mullah* is the Basha. The route up is on either bank. If right bank, cross by skin raft, then 6 hours to Gulabpore.

If left bank—

1. **Shigar to Kashomal, 6 hours.**—Fairly level and good, but latter part stony in places. One and-a-half hour to Hashu, then $1\frac{1}{2}$ to Alchori, 1 and $1\frac{3}{4}$ to Tsildi, 1 to Kashomal Kosar Gan, a fine peak, behind camp, climbed by Dr. and Mrs Bullock Workman in 1900.

2. **Kashomal to Chutrun, 80 hours.**—Still in wide valley, where the two rivers join. One and-a-quarter hour to Yuno; here long delay in crossing the Braldu by (zak) inflated skin rafts; then across a flat stony plain $2\frac{1}{2}$ hours; then another ferry by raft over Basha river and walk to Tisser $\frac{1}{2}$ hour; pretty water-fall high up on left. Opposite is the gorge of Braldu river, and a striking Lingam point on ridge, revered by both Hindus and Muhammadans. Then $1\frac{1}{2}$ hours up Basha Valley, at first easy and pretty, then over sand and stones to Churnu where is a dirty rest-house. Much white marble here. *Chutrun* means hot

water, so called from the copious springs, temperature 110° Fahr., which rise here. There are bathing tanks much used by the sick from all parts of the country.

3. **Chutrun to Doko Sibri, 3 hours.**—Across cultivated fan $\frac{1}{2}$ hour, then up *parri* to next fan, 1 hour, then $\frac{1}{2}$ hour to Dogoro; beautiful groves of walnut, easy path, $\frac{1}{2}$ hour to Sibri, another half hour Doko, 600 feet above river, camp beyond village. Coming down easily go Doko to Gulabpore; a rough precarious *parri* below Tissar can be avoided if skin raft arranged for.

4. **Doko to Arando, 4 $\frac{1}{2}$ hours.**—Along slopes, some up and down in 2 $\frac{1}{4}$ hours, turn corner to left, valley widens, stony bays and cultivated fan, 1 hour beyond where 1 hut, thence 1 hour to Arando, across stony plain, then sandy plain, crossing streams. Coolies took 6 $\frac{1}{2}$ hours.

Arando is the last village, and has 50 or 60 families. The dirty snout of huge Chogo Longma Gan (glacier) ends half a mile west here. Tipor Gan almost overhangs village to south. Both these glaciers advanced for some years but have lately receded. Height 9,800 feet.

Dr. and Mrs. Workman explored the head of the glacier and ascended to over 23,000 feet. They have also explored the Hispar glacier and published a book entitled "The Call of the Hispar," describing their adventures.

North is the Kiro *nullah*, up which the route was formerly to Nushik Pass.

1. **To Domak, 6 hours.**—The marches are briefly: rough narrow path, cross Chogo Longma 2 hours. Ali Beg Bransa $\frac{3}{4}$ hour. Harimach (a good camping-ground) 2 $\frac{1}{4}$ hours up moraine and over side glacier 1 hour, grassy camp with birch trees. Domak, height 11,500 feet; stone huts.

2. **To Katche Bransa, 4 hours.**—Along grassy slopes, 50 minutes to level meadow called Shaghran (polo ground), pass junction of Huchus Alchori Gan with Kiro Gan; (glacier) 1 $\frac{3}{4}$ hours. Grassy hollow at side of moraine; wood and water; Tsauwachu, rest; then 1 $\frac{1}{2}$ hours to camp, following side moraine and crossing glacier. Height 14,000 feet; no fuel beyond here.

3. **To Stiatbu Bransa, 4 $\frac{1}{2}$ hours.**—Cross to middle glacier and up central moraine 1 hour, another hour up and across north to Ding Bransa at foot of spur, up spur $\frac{1}{2}$ hour; down to side glacier, north-west across glacier (bad crevasses) to next spur; two hours Stiatbu, very steep, tiny platform for camping. Height 16,000 feet.

4. **Stiatbu to Gafe-fong Bransa, 1 $\frac{1}{2}$ hours.**—One hour up very easy snow valley to Nushik Col, whence view over to Hunza Mountains; retrace one hundred yards, then east up steep snow to big rocks. Here a good shelter under rock 16,800 feet; 20 feet

above this the cornice can be tunnelled in 1 hour, rope ; beyond is steep ice slope ; traverse cutting in 1 hour ; then descend to easy snow slope 500 feet. Beware of avalanches.

Further progress depends on snow bridges. Mid June is the best time. Zurbriggen early July found only one. Author found in September bridgeless crevasses 10 to 40 feet wide. If snow bridges, descend 1½ hours to side glacier, cross roped to *Haigutum* or *Hai Kuru*, on left of Hispar glacier 1½ hours, thence to *Hispar* 1 day.

Note.—Take supplies from Arando and fuel from Katche Bransa. Do not stop at Siatbu, push on to Garfo-fong Bransa ; do not take laden coolies on till successfully explored down to glacier ; return to camp ; take coolies next day.

In returning, march (1) to Tsauwachu 5 hours ; (2) to Arando 5 hours ; (3) to Chutrun 7 hours ; (4) to Gulabpore 5 hours ; by skin-raft to Shigar 9 hours, including halts and portage.

Chutrun to Rondu via the Ganto La (by Lt. F.G. Moore, 6th Jats).

A useful sportsmen's route, not open before June.

1. **Chutrun to Camp**—Coolie time 7 hours.—Half hour ascend crossing the torrent twice, then up steep, on south, to ridge 3,300 feet above Chutrun, drop 500 feet to shepherds' huts, then up 800 feet to a small meadow with huts. Camp at near end 12,100 feet ; fuel abundant and good water.

2. **Camp to Harimal, 8 hours.**—Half hour easy on snow, then steep on grassy spur, then 800 feet up snow to top of Ganto La, 15,000 feet, very steep, step-cutting necessary. Descent easy but steep to some huts on meadow 12,300 feet. From here a fairly good path down *nullah* to Harimal 10,000 feet in the broad Turmik Valley.

3. **Harimal to Dusu, 3 hours.**—Easy down valley, here join Indus route. The above is not fit for laden animals.

Pachora.—(See route by Captain Archdale, R. H. A.).

Stak to Harimal.—Cross glacier.

1. Stak to Camp.—13 miles, 8 hours.
2. Camp cross Stak Pass to Nurissin or Nusmin, ascend 3,000 feet, 5 hours, then 3 hours down to Turmik river.
3. Short march to Harimal, 9 miles.

KHAPALU AND THE SHAYOK.

Khapalu is the capital of the Lower Shayok. There are three chief roads practicable for laden ponies. One from Skardo following the right bank of the river ; one from Shigar across the Thalle La, and one from Ladakh by the Chorbat Pass.

Skardo to Khapalu, 5 marches.—

One route is by left bank Indus to Gol, 21 miles (see above, page 152). *Gol to Kiris* cross rivers by skin-raft at confluence, about 8 miles. Three hours. Or by right bank as follows :

1. **Skardo to Narh, 12 miles.**—Cross Indus, as in route to Shigar. (See page 157). Follow up right bank, sandy plains, and further on rather rougher.

2. **Narh to Kiris, 14 miles.**—Cross some side *nullahs*; leave Indus; a raft ferry here connects with road to Dras. Kiris is a group of fertile large villages, with a Raja.

3. **Kiris to Kuru, 10 miles.**—Half hour through fields, then 1 hour sand and stony to Gohu village, $\frac{1}{4}$ hour up, then down stony road, $\frac{3}{4}$ hour along foot of cliff, Kuru, a large village; camp west of it. Time, self 4 hours, coolies 5 hours.

4. **Kuru to Dowani, 10 miles.**—Ascent to 1,500 feet above river, then cross plateau, steep wild descent. Kunis $2\frac{1}{2}$ hours, no good water; 1 hour sandy to rocky corner, bad boulders $\frac{1}{2}$ hour, then again sand 1 hour to Balghar, $\frac{1}{4}$ grass and fields to Dowani, distance 10 miles. Time, self 5 hours, coolies $6\frac{1}{2}$ hours.

Rough in places. At Dowani valley opens out, beautiful cultivation, Khapalu visible.

The road from Thalle Pass joins here.

5. **Dowani to Khapalu, 9 miles, $6\frac{1}{2}$ hours.**— $1\frac{1}{2}$ hours in pretty cultivation, partly in avenues, then two hours on sand or stony paths. Cross river by skin-raft below Khapalu; great delay for coolies as a skin-raft takes one hour for each trip and carries few men at a time.

This is a charming march in July when apricots are ripe.

One hour through hamlets up slope to *parao*, height above river 700 feet, above sea 9,000 feet.

Khapalu is a group of hamlets, with 5,000 inhabitants, on a long slope shaped like an amphitheatre. The Raja's mansion above it to west, with polo ground near.

The scenery most striking. A little above to north is the Hushe-Saltoro *nullah*, with group of extraordinary peaks. The only path as yet discovered over the Mustagh ranges at the head of the valleys is the Saltoro.

SHIGAR TO KHAPALU, FOUR MARCHES.

There is a lower road as from Skardu, first stage, to Narh.

Narh to Shigar (by Major Napier, R.A.), 13 miles.—This is useful to travellers from Kashmir, who can cross the Indus by skin-raft about 7 miles below Gol. Then $1\frac{1}{2}$ miles down bank, then turn to right up small *nullah*, through a village steep

at first then easier, but rough, cross a small col, and drop down to direct path from Skardu to Shigar where it crosses a saddle descend to valley, then 4 miles to polo ground.

The upper road to Khapalu is nearer and better when not blocked by snow, especially for pack animals, as there is grazing.

The author traversed it in 1895.

1. **Shigar to Camp**, 9 hours.—A steady ascent, $1\frac{3}{4}$ hours up right bank of side *nullah*, then left bank one hour, then easier for two hours to Banka Haral shelter hut, 9,150 feet, at junction of two *nullahs*; left is to Tuserpo Pass, and rejoins this route next march; right up is Yaltsa. Karapur hut, one hour, up easy grassy slopes, with pencil cedar; two hours beyond is a hut, height 13,500 feet, splendid icy cliffs above on south.

2. **Camp to Kasurmik**, $10\frac{1}{2}$ hours.—Cross Thalle La. A gradual easy ascent on grass slopes, $2\frac{1}{2}$ hours to top, 16,000 feet; splendid mountain scenery, only new snow in September; $1\frac{1}{2}$ hours' descent to shelter huts; coolies took two hours more. Below this one hour, *nullah* from Tuserpo Pass joins on west, and the path turns south-east, one hour to cultivation, one hour cross to left bank, here habitations; $1\frac{1}{2}$ hours Kasurmik, height 12,000 feet.

3. **Kasurmik to Dowani**, $4\frac{1}{2}$ hours.—One hour pass Daltiri on opposite bank (right), height 11,000 feet; half hour to Baltoro, $\frac{3}{4}$ hour Yarkor, cross to right bank, large village, two hours again on left bank, pass three villages, reach mouth of ravine, turn left to Dowani. Coolies took $5\frac{1}{2}$ hours; supplies; here join route from Skardu, see last page.

Another path leads down from the *Thalle La* to Kuru passing Olmo-ik (hut), Kasurmik, Barungus and Bragar.

Khapalu to Kharmang via Ganse La.—This is a difficult sportsman's route, only suitable for July 10 to October 15.

1. **To Camp**, $2\frac{1}{2}$ hours.—Path up *nullah* behind village; steep in place, camp near grazing ground; no wood, only fuel cowdung.

2. **Camp to Camp over Pass**.—Coolies 13 hours; the path soon loses itself, and way is very steep in places over boulders up left bank of *nullah*. Where three *nullahs* meet take centre one, direction shown by stone cairns. Steep rocky ascent, turning to right up *nullah*, again up rocks and patches of snow, then loose boulders to top of Pass, marked by cairns. Height probably over 16,500 feet. Time from camp, quick going exclusive of halts, 4 hours. Then easier descent, snow slopes, to first ground suitable for camp, 1 hour. No fuel but cowdung.

3. **Camp to Kharmang, 5 hours.**—Fair path all the way. About 4 hours to a small lake in *nullah*, here is a camping-ground and cultivation but no villages, path scaffolding on left of lake. Then turns to left over rocky spur. Then descend to first of hamlets of Kharmang; another mile to rope bridge. If going from Kharmang to Khapalu carry fuel to higher camp. Better make 2 camps ascending, then cross Pass and down to Khapalu. (Notes by Captain Maud, R.E.).

Longstaff and Singsby crossed from Kharmang to Khapalu early in June, over 3,000 feet snow; coolies deserted so they carried own loads.

Khapalu to Saltoro.—North of Khapalu are great glacial valleys which attract sportsmen and climbers. From the plateau above Khapalu magnificent snow peaks come in sight.

Khapalu to Hushe.—In winter and spring there are temporary bridges over the Shayok. After early May skin-rafts are needed. One ferry is below Khapalu. The path then leads high over a *parri* on right bank to the Hushe *nullah*; another ferry is east of Sirmu.

In summer a skin-raft can be used from Khapalu to Dowani if river high.

1. **Khapalu to Gourtse.**— $\frac{3}{4}$ hour up to cultivated plateau; 2 miles across, from east edge view of Masherbrum, and the Saltoro spires. Half hour descent steep sandy to Yungchung; 2 miles on flat grassy to Sirmu, rich cultivation; 1 mile on to raft short crossing; then $1\frac{3}{4}$ hours stony N.W. to hamlets; total 12 miles; self 7 hours, coolies, 10 hours; usual delay at ferry. Gourtse is a group of small hamlets extending for some miles up the flat valley, up which leads the Hushe path. Two days to Masherbrum. I do not know about the fords which must be difficult in summer.

2. **Gourtse to Parao, 9 miles.**—Ascend zigzag, 1,200 feet, cross low ridge. Wonderful sheer granite cliffs and spires on opposite side, river gradual, winding descent to east. Coolies 4 hours, large village, well carved mosque; camp beyond and above village by side stream.

3. **Parao to Mandi, 12 miles.**—Two hours on stony flat to Dumsumu at junction of Kondus and Saltoro. A bridge and some noteworthy ancient Buddhist rock drawings; then 3 hours steady up hill stony, in gorge, at Mandi it opens out, some cultivation; total self 5 hours, coolies 8 hours, height 10,800 feet.

4. **Mandi to Goma, 6 miles.**—Half stage, almost level, and chiefly through cultivation cross and recross the river. This is last village. Coolies $3\frac{1}{2}$ hours.

5. **Goma to Ghiaru, 3 hours.**—Cross both streams (bridge) then up right bank of Bilaphend, pass 3 glaciers, above third a wide level valley with groves of willows, flowers and clear streams. Lovely camp $\frac{1}{4}$ mile below snout of main glacier.

From Ghiaru the Saltoro Pass can be crossed on 3rd day camping at Narm (coolies 8 hours). Ali Bransa (8 hours); cross pass $2\frac{1}{2}$ hours snow field and glacier for 3 hours to the Terim Sia-Chen glacier; and 2 marches down to the head of the Nubra valley, but this is impassable owing to the unfordable river from April to mid September (see page 133).

Up the *Kandus valley to Khorkhun* hot springs is one long march. This is described by Baltis as a fine place. Dr. and Mrs. Bullock Workman after exploring the Siachen glacier made a new pass returning to Kondus.

KHAPALU TO LEH.

1. **Khapalu to Lanka**, 11 miles, 5 hours.—Gradual ascent 1,000 feet to plateau, half hour across it, then along hillside fair path to Lanka. Sirmu is left far below. Luggage must be carried by coolies.

The plateau is covered with old moraine; and on the north are lacustrine deposits. Chikor are plentiful.

2. **Lanka to Puyan**, 13 miles, 6 hours.—Towering cliffs both sides. Then up *parri* (350 feet), well scaffolded path over sandy stretch to Dau. Soon valley widens; one hour village Khaz; one hour to large village Kustang. From here a difficult path leads south-west over high pass to Kharmang, 1½ days; 1½ hours to another well built out path round face of *parri*, 3¾ hours to village Puyan (in map Paxfain).

3. **Puyan to Camp (Chunga)**, 12 miles, 7 hours.—At Puyan there is a fortified rock with a small mosque on it. A road keeps up left bank of Shayok. It would be a day's journey to Khartsar; three more to Leh. (See Route 20).

The summer route turns south up defile, two hours' steep ascent up narrow ravine, crossing half-way up to right bank; half an hour a patch of cultivation; 1 hour more fields, ½ hour cross bridge and ascend, 1 hour to Zyingstan; summer huts and field; then easy grassy valley; 1½ hours to Chunga shelter huts, height 14,500 feet.

4. **Camp to Hanu**, 19 miles, 8½ hours.—Up grassy valley, 1½ hours to last hut; then turn up slope to left, steeper ascent of 1,000 to top of Chorbat Pass, 16,700 feet, 2 hours. This pass is passable for ponies for three months, and passable by yaks for six or seven months. There was a good deal of snow early in September 1895. Descent rather steep for 1½ hours to grassy valley with summer huts. Then more level ground, ½ hour; then 1 hour steep descent to cultivation, turning to right; 2 hours down Hanu Gongma, where there are three villages and supplies. This district is Buddhist. Height 11,000 feet.

5. **Hanu to Skirbichan**, 17 miles.—One hour to Lower Hanu, 1½ hours more on left bank to Indus river; keep up right bank of Indus. Stony path, up and down.

9. **Skirbichan to Khalatse**, 16 miles.—Barren and stony path, one village about 6 miles on. No drinking water on road. At Khalatse join Srinagar-Leh road, thence 4½ marches.

KHAPALU TO KASHMIR.

1. Route by Skardu and Doesai. (See pages 154, 162).
2. Routly Kiris and Kharmang. (See pages 162, 152).
3. Route by Chorbat and Khalatse. (See above.)
4. Route as follows :—

- (a) **Hanu to Dah**, 7 hours.—Two-and-a-half hours to Indus, turn down right bank, $1\frac{1}{2}$ hours to Kanyutse, $1\frac{1}{2}$ hours to Pindor, $1\frac{1}{2}$ hours to Dah on plateau; supplies; coolies; a little up and down.
- (b) **Dah to Sanatse**, $4\frac{1}{2}$ hours.—Descend 200 feet, cross ravine, gradually ascend 500 feet, narrow path in cliff down and on to Garken, 2 hours. Here is a rope bridge. Continue on right bank; $2\frac{1}{2}$ hours up and down, rough in places, to Sanatse, long descent, and cross Indus by wooden bridge 12 paces span to camp. Village a little way off, Sanatse village is a large one with hundreds of little terraced fields. The path on right bank continues one mile to Urdu from which it is two marches to Kharmang, a path used for ponies. Probably the reason the traffic to Skardu goes by Chorbat is that there is such abundant grass for two marches, but in the Indus Valley no grazing for ponies or yaks.
- (c) **Sanatse to Llalun**, $7\frac{1}{2}$ hours.—Path ascends $\frac{3}{4}$ hour to small village (Sanacha or Sanatse); then one hour gradually up and round spur into side ravine; $\frac{1}{2}$ hour gradual descent. Half hour ascent up *nullah* to cultivation, $1\frac{1}{2}$ hours to above village of Tsirimo, 2,000 feet above Indus. Three hours up a shallow valley to Llalun. Here emerge suddenly on a broad, rolling plain, with rounded hills, Llalun or Llalungma, "Valley of Gods." Twenty or thirty houses, height 2,500 feet. A path leads south in eight hours across Bul Pass, 13,400 feet, to Lotsun on main road, half way between Maulba Chamba and Karguil.
- (d) **Llalun to Karguil**, $6\frac{1}{2}$ hours.—Gradual ascent, 1,000 feet, $\frac{3}{4}$ hour to Humbuting Pass on west. Wide view. One hour gentle descent to first huts of Bahtse; thence almost continuous cultivation, $1\frac{1}{2}$ hours to village Sud; still $1\frac{1}{2}$ hours down to opposite the great stony plateau over which Ladakh road passes; still keep round, slopes to right one hour, then cross bridge, $\frac{3}{4}$ hour, join main road, cross Suru river, and turn $\frac{1}{2}$ mile to left to Kargil rest-house, thence to Srinagar by main road or by Suru.

ASTOR AND GILGIT.

There is a road direct from Srinagar, *via* Sumbal, to Bandipura as mentioned on page 102.

Most of the traffic beyond Bandipura is in connection with the Supply and Transport Corps of the Indian Army. Unofficial travellers must arrange their own transport, sending word at least a week beforehand to the Naib-Tahsildar.

From the **Partab Kadal** (1st bridge) it is **11 miles to Shadipur, 15½ to Sumbal, 28½ to Chota Sadrkot, 34½ to Bandipura.** Telegraph Office. The ghat is $\frac{3}{4}$ mile down to left. Special care is needed about drinking water for those in boats at Bandipura.

1. **Bandipura to Tragbal, 11½ miles.**—There is a good road up the middle of valley, $2\frac{1}{2}$ miles to the Badkul bridge at Sonarwain, where is the Supply and Transport Office. Two miles on from here is a spur up which the road goes, sweeping to the left for three miles up the *nullah*, then a great turn to the right round the face of the spur, and finally to the left mounting nearly 4,000 feet in nine miles.

A direct short cut, rough and steep, leads off $\frac{1}{2}$ mile from the bridge to the left, through Kralpura village, and then straight up the spur. By this it is 3 miles up, but by the road $6\frac{1}{2}$ miles from the foot. The ruling gradient is 1 in 10. At Tragbal there is a good rest-house, height 9,160 feet. There are other huts. Tragbal is a pretty little meadow on the shoulder of the mountain, imbedded in pine forests, through which glimpses of the Wular Lake, of Haramouk and the Pir Panjal ranges are obtained, getting grander as one ascends. Good water is brought by pipes from a higher *marg*. The water supply is scanty. No supplies are obtainable at Tragbal. Half-an-hour higher up is Hafkalan *marg* suitable for camping.

2. **Tragbal to Gorai, 13 miles ; from B. 24½.**—Winding up through the forest the road emerges at 10,500 feet on the crest of the grassy ridge, which is then followed up. This is the RAJDIANGAN PASS, of which the highest point, 11,900 feet, is five miles beyond Tragbal. There is a shelter hut here, and also two miles beyond at Safedpatthar, where the road descends again more steeply in zigzags. At the foot is Zotkusa, 3 miles down, and 2 miles further is the new rest-house at Gorai. Snow lies in the sunless hollows all the year.

3. **Gorai to Gurais, 15 miles ; from B. 40.**—Still descending the grassy valley it is five miles to the bridge over the Kishenganga at *Kanzalwan*,

The main road is on the right bank. From *Kanzalwan* to *Malik Kadal* bridge is $3\frac{1}{2}$ miles. The scenery is very beautiful in this wooded gorge and on to Gurais, where the valley again widens. To get to these cross the *Malik Kadal* and keep up the left bank for $2\frac{1}{2}$ miles to *Burdwan*, where there is good shady camping-ground on the edge of the poplar copse, with pleasant walks, fishing, etc.

Another fair camp is by the ziarat beyond *Wampor* bridge.

The main road is on the right bank. At $4\frac{1}{2}$ miles is another bridge (Wamper). Two miles further is a bridge by the Fort, and the dak bungalow is half a mile further.

There is a post and telegraph office one mile below the Fort. Gurais is about 7,800 feet above the sea, and has a pleasant summer climate though not very bracing.

The splendid limestone mass opposite Gurais (north) can be climbed up the *nullah* in its face. It rises to 14,000 feet, the still more conspicuous pyramid at the east end is an easy climb from Chorwan, and the pass to Tilel. (Author, 1907.)

There is a hill path behind Gurais leading to the Bandipura *nullah*. The Tilel *nullah* joins in a mile or so up.

4. **Gurais to Pachwari**—15 miles.—From Bandipura 55 miles, height 8,500 feet.

Two miles from the bungalow the path enters a narrow valley; and two miles further it crosses to the left bank. Below this, Chorwan bridge, on the left is Sonawan, from which the bridle-path to Tilel crosses the high ridge. See routes 23-24. A mile on is another bridge, the road again crossing to the right bank. Two miles from this are the huts of Zain; and one mile on is Bangla, formerly the stage. The old path to Kamri diverged near here, but the new track is now two miles on. There is a gradual ascent and then descent to cross side torrent. It is $3\frac{1}{2}$ miles from where the paths diverge to the bungalow at Pachwari—two rooms, with bath-rooms.

5. **Pachwari to Burzil Chauki**,—11 miles; from B. 65 miles, height 11,740 feet.

At $4\frac{1}{2}$ miles the road turns a corner into the more open grassy valley of Minimarg. Here is the highest Imperial telegraph station in India and a small village 9,360 feet.

Turning left, it is 6 miles gradual ascent to the Burzil bungalow. The Deosai route to Skardu turns off here, see page 154. This march is dangerous with avalanches in April and May.

6. **Burzil to Chillam**, 17 miles, from B. 83 miles.

It is a rather steep and then gradual ascent to the Burzil Pass, 13,900 feet. It is long blocked with snow in winter, though dak runners struggle through.

At 5 miles is a stone rest-house; a long gradual descent follows; after 5 miles is another stone rest-house, Sardar Koti, from which it is 6 miles on to the bungalow.

7. **Chillam to Gudhai**, 16 miles, from B. 99 miles.

Still descending it is $4\frac{1}{2}$ miles to Das bridge, there is scanty cultivation; the valley contracts and becomes less fertile and more rugged. Three-and-a-half miles on is Krim polo ground; then 8 miles to Gudhai bungalow. Here turns off the Alampi La route to Skardu, page 156.

Not far from this, by ascending the hill on the right a short distance a very fine view of Nanga Parbat can be obtained.

8. **Gudhai to Astor**, 17 miles, from B. 117 miles.

Seven miles down is the Upper Naogam bridge; then another; then turning a corner the river joins the Astor river, which is crossed by the Gurikot bridge; a steel cable suspension one 190 feet span, above which on

the left bank is an inspection bungalow, P. W. D. Then the road ascends 600 feet. It is 6 miles to the bungalow, post office, telegraph office, and polo ground at Astor. The fort is a mile further. There is a cantonment and bazar. The Gilgit Residency has summer quarters on a *marg*, *Rama*, a few miles up the hill from Astor. There are one or two huts. It is a very pretty Alpine place. There is a Tahsildar in civil charge of the Astor district.

Retracting our steps, we will follow **KAMRI PASS ROUTE** from Gurais to Astor. It diverges near Bangla on the other route.

Gurais to Kamri, 15 miles.—From near Bangla steady zigzag ascent to Kamri bungalow. No supplies. The scenery is fine.

5. **Kamri to Shankargarh, 25 miles.**—Cross Pass 14,100 feet. Fine view of Nanga Parbat. Descend 700 feet to head valley, then gradual on the grassy slopes. Good bungalow at Kalapani, 14 miles from Kamri; no supplies. Then more level grassy stretches to long hut, not fit for habitation except in emergency; no supplies.

6. **Shankargarh to Ratu, 16 miles.**—Steady descent; one or two hamlets, a few trees. Bungalow, no post nor supplies unless the troops are encamped here which does not necessarily happen every summer. Height 8,400 feet.

7. **Ratu to Astor, 21 miles.**—Get some fine views of Nanga Parbat, pass Mons and Chagan. Then cross the Rupal *nullah*. The huge granite boulders in the moraines testify to the enormous glaciers which used to fill this ravine, which turns up on the left towards Nanga Parbat. The swift chocolate-coloured torrent is crossed by a wooden bridge. A rough path turns off to the left to *Chorit*, a beautifully situated village, and some 3 miles further is *Tarshing*, a village surrounded by Alpine pastures and close to the foot of the glaciers immediately above which the vast precipices and towering snowy dome of Nanga Parbat rise towards the zenith. The glaciers seem to have advanced of recent years.

The river from the Rupal *nullah* has tunnelled beneath the ice and the crevasses have closed owing to the obstruction of the opposite cliffs.

There is a pass at the head of the Rupal *nullah* into Chilas. The **Mazenu Pass**; 17,000 feet high; crossing the west spurs of Nanga Parbat. Part of the Kashmir army crossed it in 1865.

It is crossed on the second march up from Tarshing.

8. **Tarshing to Buner, Chilas.**—3 stages.

1. To Kaonagod—14 miles up Rupal *nullah*.

2. To Zamalbazi—12 miles cross pass.

3. To Buner—10 miles, village.

Here join route by the Barei Pass to Chilas.

Nanga Parbat (26,669 feet) is the culminating point of the Kashmir ranges, and is, in some respects the grandest mountain in the world. Though linked with the central chain of the Himalayas, it is turned at right angles to the general axis, and is parallel to the Indus where the latter takes a decided bend southwards. It is seen from the Murree hills over 100 miles away. At its foot are large glaciers. Those on the east descend into the Rupal *nullah* to a level of about 9,000 feet.

Over the south shoulder of Nanga Parbat is a pass of about 17,000 feet altitude into Chilas. As none of the mountains around Nanga Parbat and detached from it exceed 17,000 feet, it is seen unobstructedly from all sides. Seen from Gor on the Indus a sheer height of 22,000 feet is visible within a distance of thirty miles. From the usual passes into Astor 16,000 feet vertical is seen.

The outline and grouping of this great mass, rising glistening white with pinnacles of ice, and dome of snow above the dark lower ranges just as some huge marble cathedral rises above all meener buildings is a site never to be forgotten.

King amidst Kingly mountains,
 Monarch o'er snowy height,
 Girdled with glacial fountains,
 Fenced by avalanche might,
 Battlements towering skywards,
 Pinnacles glistening bright;
 Who shall dispute Diyamir,
 The crown that's thine by right?

A.N.—1817.

The death of the gallant Mr. Mummery in 1895, with two Gurkha guides, marks the dangers of these inaccessible peaks. They were probably swept away by an avalanche. The weather conditions of Nanga Parbat (Diyamir) are seldom favourable for many consecutive days. The climbers attained no great height. The conditions in the Karakoram are far better for ascending to the greatest heights. Dr. Norman Collie states that in July 1895 the weather on Nanga Parbat was very favourable.

Below the Rupal *nullah* the road is taken along the face of cliffs, by some new rock cuttings; it is 6½ miles from Rupal bridge to Gurikot village, thence a mile to P. W. D. bungalow where the Kamri route rejoins the Gilgit road, which we resume for Astor (see page 169).

A new road is being made from Astor to Ramghat which will not touch Dashkin nor Doran.

9. **Astor to Dashkin**, 14 miles; from B. 132 miles, height 7,800 feet. In summer the marches beyond this are hot; the mountain sides barren. At 11 miles is Harcho bridge, and another a mile lower down, then a rise to the little village on a plateau. There is a waterfall near bungalow at stage.

10. **Dashkin to Doyan**, 11 miles; from B. 143 miles, height 7,800 feet.

Four miles through the Mushkin forest with cold clear streams, then ascend to a corner whence a fine view, then steep descent to stage, and bungalow at stage.

11. **Doyan to Bunji**, 18 miles; from B. 161 miles.

The Hattu Pir, with a zigzag descent of 4,000 feet, has to be traversed. A trying journey, especially if hot; in summer the heat is fierce. It is 11 miles to Ramghat bridge and thence 7 miles to Bunji bungalow; there is also a post and telegraph office.

12. **Bunji to Pari Bungalow**, 18 miles, from B. 179 miles.

Bunji is on a sandy waste, formerly used as a convict settlement. It is 7 miles on to Partab Singh bridge over the Indus. A fine structure of 320 feet span. Formerly there was a ferry here. There is a winter route along the Indus to Skardu.

Some miles down, south of Gor, is the site of a huge landslip in 1840. It blocked the Indus, back for six months, and the lake formed extended to Gilgit. The dam gave way at last with great rapidity and a most destructive flood swept the whole valley down to Attock. A Sikh army is said to have been overwhelmed on a plain below Derbend.

The road from Ramghat to Leychor is now abolished in order to avoid the dangerous slips at those two places. A direct route from Bandipur to Chilas branches off from the top of the Rajdiangan Pass, *via* Khel and the Barai Pass.

From Chilas the road proceeds as far as Leychor, where the Indus has been newly bridged, it crosses to the right bank and goes *via* Thalich and Partab Singh bridge and thence as before to Gilgit.

A new road now leads down the river to Chilas, joining the main road at Ramghat bridge. (See Route 20).

It is 6 miles from the great bridge to the middle of *Dak Parri*; thence 4 miles on to the bungalow. It is a desert region, with fierce heat in summer and sand-flies.

13. **Parri Bungalow to Gilgit**, 19 miles.

It is 10 miles to Minawar bridge, 7 miles on to Jutiai barrack and miles to Gilgit, where is a post office, telegraph office, fort and several officials' houses.

The Political Agent resides here in winter, and there is quite a little colony of English officers.

GILGIT.

The country is a barren one, with lofty precipitous mountains, narrow rocky gorges, swift glacier-borne torrents, and only narrow strips of cultivation around stone-built villages. It is, nevertheless, of no small political importance.

Up to 1842 neither Astor nor Gilgit had been annexed by the Sikhs. At that date an invasion from Yasin drove out the former rulers of Gilgit, who appealed for help to the Sikhs; a few regiments were sent and the Sikh commander, Nathu Shah, occupied Gilgit, and married the daughters of the Rajas of Yasin, Hanza and Nagyr. Since then the history may be briefly summarized. In 1847 a raid from Hanza was followed by an invasion of that country; it was unsuccessful, and Nathu Shah was killed.

In 1852 Gilgit was invaded from Yasin, a large relieving force from Astor was annihilated, and the garrisons were massacred.

In 1860, under Devi Singh, the whole country was re-occupied, and even Yasin overrun. A punitive expedition to Hanza in 1865 utterly failed, and the tribes around Gilgit again rose. The fort was invested, but reinforcements arrived and the besieging hordes broke up.

Darel was then invaded. Since that time the Dogra ascendancy has been undisputed, although the Hunzas more than once gave trouble, and even captured the frontier fort of Chaprot.

This was fully avenged by the very successful expedition (1891-92) under the orders of Colonel Durand, which captured Nilt by assault, and, in spite of glaciers, precipices and a brave foe, stormed the *sangars* beyond, thus turning the flank of the defenders; then pressing on captured the whole country without further fighting, thus reducing all opposition up to the Pamir and Chinese frontier.

This was followed up by the brilliant conquest of Chilas by a mere handful of troops under Sir George Robertson.

Astor, Gilgit and some of the countries beyond are inhabited by a race termed Dard, and classified by many ethnologists under the name Galcha. They are of Aryan type.

There are considerable local differences, but, as a race, they are of medium height and strongly built. Their features are long and oval, head dolichcephalic, nose strongly curved, expression rather fierce and sinister. Some few are of fair complexion and light eyes; but they are not so fair as the Kashmiris. They usually wear dark woollen clothes, with a

peculiar cap made of a bag with its edges rolled up. They are an independent and bold race, more straightforward than the Kashmiris and less blood-thirsty than the Pathan. All are Muhammadans except the tribes of Kafirstan. Some of the districts bordering the Indus are republics. Communication with Badakhshan is easy by the Darkot and Barogil Passes, which are the lowest depressions in the great Hindu Kush and Karakorum chains, from Bamian on the west to the unknown passes of Tibet on the east.

The country, however, is of such an unfertile and difficult character as to be only practicable for small bodies of men. Some of Timour's hordes entered Chitral from the north, but none but Mongals and nomads could have done so.

HUNZA AND NAGYR.

Protected by giant mountains and unfordable rivers these tribes lived in security on the banks of the Hunza river. Numerous well-cultivated villages are scattered about and are most charmingly fertile. The former Chief or Thum of Hunza sent marauders across the Kilik or Shimshal Passes, who attacked Yarkand caravans. Frequently the two tribes would fight one another, but occasionally combine to raid the Gilgit district. They are now tributary to Kashmir and a British officer on political duty resides in Hunza. The people seem well content with a peaceful administration and just rule which interferes little with any internal affairs.

Tribal levies were sent to Chitral in 1895, and were loyal and useful. The population of the whole valley does not exceed 15,000, and is fairly well off. Wheat, barley, millet, &c., are grown, and many kinds of fruit. By religion the Hunzas are Muhammadans of the Mulai sect; the Nagyr are Shias.

Some gold is found in the rivers.

The routes from Gilgit to Hunza Nagyr and to Gakuch are given in the tables.

Kashmir to Astor via Gagai.—(Ward)—Kanzalwan is the point of divergence from the main road to Gilgit.

1. **Kanzalwan to Tarbut**—9 miles.—Pass Bukthor.
2. **Camp**—10 miles.—March 2 miles up the Gagai branch of the Chota Gagai, and camp under pass. Difficult going owing to the water across track.
3. **Camp**—6 miles.—Cross rather high but easy pass, camp in Rehart glen.

4. **Lohinhada**—6 miles.—A short march down ravine, then ford Kamri stream to main road—(see p. 169).

The district on the Kishenganga river below Gurais is called Drawa. The valley is throughout narrow and scantily populated, and with inferior paths. A path, in places high above the river, leads from Gurais *via* Shardi to Muzaffarabad. There is a small amount of traffic in summer between Khagan on the west and Kashmir which crosses the lower part of the valley near Charkot.

Another route from upper Khagan and Chilas crosses at Shardi, *vide* Route 22*b*. A very direct route to Chilas is *via* Khel, and was traversed by the author in 1896. The stages are as follows:—

1. **Aslu to Dewar**—12 miles.—Five and-a-half hours. Cross low ridge into Lolab Valley.

2. **Dewar to Krurus**—14 miles.—Five hours through the Lolab, arrange for coolies and supplies for 14 days.

3. **Krurus to Camp**—18 miles.—Eight hours. Cross a ridge 10,000 feet, descend wooded valley.

4. **Camp to Duch**—9 miles.—Three and-a-half hours. A Gujar village in Machel *nullah*; cross and re-cross the stream.

5. **Duch to Khel**—15 miles.—Five hours. Descent to Kishenganga river, cross and follow down right bank.

6. **Khel to Mori**—15 miles.—Six and-a-half hours. Ascend the pretty Khel *nullah*; at 2½ hours pass Domel, from which a hunter's path leads to Mir Malik *nullah* and Astor. One or two huts, the last habitations.

7. **Mori to Camp**—18 miles.—Eight and-a-half hours. Pass at 10th mile Kalan rock caves, then ascend 2,000 feet to Barei Pass, 14,500 feet, steep descent (snow in September), and follow down valley, a goatherd's hut.

8. **Camp to Poloi**—10 miles.—Five hours. Pass a lake, then steeper descent to village.

9. **Poloi to Lower Bunar**—13 miles—Five hours. Descend rocky valley. Pass Kalabai village at 8 miles, cross to Managuch village, by which path leads up to Mazeni Pass (4 stages to Tar-shing, thence one to Astor). Descend river banks and recross at Bunar, a well-cultivated village.

10. **Bunar village to Bunar Parao**—13 miles.—Five hours. Rather tree high on left bank to plateau, then steep bad descent, ford stream and continue miles to the *parao* on main road from Bunji to Chilas

11. **Bunar Parao to Chilas Fort**—17 miles.—Six hours. A good bridle path on left bank of Indus.

12. **Chilas Fort** is on a large alluvial plain high on left bank of Indus, height 3,700 feet. There is a new bridle road leading across the Babusar Pass. (*vide* Route Table 18)

APPENDIX I.

RULES FOR VISITORS TO KASHMIR.

As these are numerous and frequently altered, it is not advisable to print them here *in extenso*. Copies can be obtained on application to the Motamid Darbar, Captain Chattar Singh, who registers the names of all visitors.

All matters connected with Kashmiri servants, boatmen, etc., should be referred to him.

An abstract of some of the chief rules may be given as follows :—

1. Passes to visit Kashmir must be obtained from the Resident.

2. Certain routes are considered private, or special permission is required. The ordinary routes open to the public are by Murree, Havelian, Pir Panjal and Poonch.

3. The Resident prescribes certain limits, beyond which travellers may not go without special passes.

4. Visitors may not occupy houses in the town of Srinagar nor camp in certain specified gardens.

5. If carriage is required, thirty hours' notice should be given. Carriage and supplies may not be demanded except at proper stages.

6. Visitors are requested to see that their servants do not import articles for sale on which duty is leviable. They are also responsible that their servants discharge their debts before leaving.

7. Uniform should be worn at State banquets.

8. Certain preserves are fixed for game in addition to the private *jagirs*.

Licenses for shooting are necessary, and there are closed seasons, as well as limited number of heads allowed per gun. The detailed rules can be obtained from Major Wigram.

9. *Fishing* is prohibited in all sacred tanks and between the first and third bridges at Srinagar.

Special fishing licenses are needed for certain rivers.

There are also special rules with regard to the occupation of quarters at Srinagar or Gulmarg. For details the official rules should be consulted.

TARIFF OF BOAT HIRE.

The hire of a 1st class *dunga* with crew is Rs. 20 per mensem. The crew should consist of at least four persons, women, and children over twelve years of age to be considered as able-bodied members of a crew.

The hire of a *shikari* is determined by the number of the crew, who are paid at the rate of Rs. 6 or 7 per mensem, and Rs. 2 for the boat. When boats are taken out of Srinagar, boatmen are entitled to *rassad* at the rate of half-anna per man per diem. Rule 57-1-A should be consulted.

TARIFF OF DUNGA HIRE BY DISTANCE.

	Rs.	A.
From Baramulla to Srinagar, per boatmen	...	0 10
„ Srinagar „ Baramulla „	...	0 8
„ „ „ Islamabad „	...	0 10
„ Islamabad „ Srinagar „	...	0 8
„ Srinagar „ Awantipur „	...	0 6
„ „ „ Ganderbal for the trip	...	1 0

When boats are ordered from Srinagar to meet a visitor at any place, half hire of the boat from Srinagar is payable in addition to the fare to the place where the visitor is proceeding. When a boat is not used on the date for which it is ordered annas eight per diem is payable for detention.

TARIFF OF HIRE OF COOLIES, PONIES, &c.

I.—In all localities in the territories of His Highness the Maharaja of Jammu and Kashmir the standard rate shall be paid for the hire of coolies, ponies, &c., except where otherwise specially provided.

II.—The standard rate in the said territories is as follows:—

For Coolies	...	...	...	...	4 annas per stage.
„ Kahars	...	...	...	...	7 „ „ „
„ Riding ponies	...	...	...	...	1 rupee „ „
„ baggage and servants' ponies	...	...	...	...	8 annas „ „
„ Yaks or bullocks...	...	...	...	...	8 „ „ „

A coolie's load is 25 seers, and the load of a pony, yak or bullock is 80 seers.

Travellers must provide, at their own cost, all ropes required for securing their baggage.

CENSUS of 1911.

Jammu Province	...	...	...	...	...	1,521,307
Kaahmir „	...	...	...	...	...	1,157,394
Frontier „	...	...	...	...	...	226,877
				Total	...	<u>2 905,578</u>

RELIGIONS.

	Jammu.	Kashmir.	Frontier.
Muhammadan, per cent.	57	93	81
Hindu	41	5	19

There are 202 Christian converts in the State.

Education.

Of the Muhammadans	6·9	per 1,000 can read and write.
„ „ Hindus	5·8	ditto ditto.
„ „ Christians		
(including Euro-peans of all ages).	464	ditto ditto.

KASHMIR GLACIERS.

Some of the largest glaciers in the world are to be found in the extreme north of Kashmir, such as the Siachen Baltoro, Biafo, Hispar and Chogor Longma. In the middle range, especially at round Nanga Parbat and Nun Kun, there are also large ones.

In Kashmir proper, *i.e.*, the watershed of the Jhelum, there are a few small ones such as Kolahoi. And on the southern side of the valley in the hollows of Tata Kutu and Brahma Sakul there are permanent beds of neve of considerable size

and depth but not properly denominated glaciers. Of very recent years the subject of glacial movements has been receiving study by a *Commission International des Glaciers*, and the Geological Department in India is taking it up. In Kumaon and Lahaul some surveys have been made ; but the most important work was done by Mr. H. H. Hayden in Nagyr. Apparently in most parts of the Himalayas the glaciers fluctuate in size, but the alteration of a few hundred feet is spread over long periods. But in Hunza and Nagyr the phenomenal, I may say unique, movement of some miles in a few months has been attested by reliable witnesses.

My information (September 1906) was that the Hassanabad glacier had advanced 6 miles in three years, the advance each year being between the beginning of June and end of August, and being greatest in 1905. This modifies slightly the statements made to Mr. Hayden (Geological Survey of India, Vol. XXXV, part 3, page 135), and seems more probable.

The local appearances quite agree with the statement of the Wazir, that 40 years ago the glacier was as far or even further down the valley. And it appeared to me that in geological time the glaciers from Hispar and other lateral valleys of the Hunza river extended some miles below Aliabad, and that the plateaux on either side of the river, now so richly cultivated, are mainly ancient moraine.

The Yengutsa glacier above Hispar village has also advanced about two miles since it was mapped in 1892 by Conway. This work of surveying is far too extensive to be taken up thoroughly by the Geological Department. And it is one in which travellers and sportsmen can render valuable help. It is officially suggested that photographs (with the camera level) should be taken from some marked spot near the snout of any glacier. A cairn may be built and a rock marked by chisel or paint. Especially noting the ice cave where the sub-glacial stream escapes. There should be some easily recognized landmark in each photo. Any measurements, or simple plane-table survey of the snout would much enhance the value of a report.

POST AND TELEGRAPH OFFICES.

<i>In Kashmir.</i>	<i>Murree Road Offices— concluded.</i>	<i>Jammu District.— concluded.</i>
Srinagar Head Offices P. & T.	Rampur P.	Kahna Chak P.
Bandipur P. & T.	Baramullah P. & T.	Kishtiwar P.
Bargam P.	Pattan P.	Padar P.
Baramulla P. & T.	<i>Gilgit Road Offices.</i>	Ramband P. & T.
Bijbehara P.	Bandipur P. & T.	Ramgarh P.
Doru P.	Gurez P. & T.	Ramnagar P.
Gulmarg P. & T.	Minimarg P. & T.	Ranbir-Singhpur P. & T.
Handwara P.	Chillam P. & T.	Riasi P. & T.
Islamabad P. & T.	Astor P. & T.	Samba P.
Kulgam P.	Bunji P. & T.	Setwari P. & T.
Magam P.	Rattu P.	Tawi P. & T.
Maharajganj P. & T.	Gilgit P. & T.	Udhampur P. & T.
Malsbaibagh P.	Chilas P. & T.	<i>South East District.</i>
Pampur P.	<i>Ladakh, &c.</i>	Basoli P.
Pailwama P.	Sonamarg P. & T.	Jasmirgarh P.
Pahlgam (Lidar) P.	Dras P. & T.	Jasrota P.
Pattan P.	Kargil P. & T.	Kathna P.
Sangrama P.	Leh P. & T.	Prol P.
Shupiyon P.	Skardo P. & T.	<i>South-West.</i>
Sonamarg P. & T.	<i>Jammu District, &c.</i>	Bhimbar P.
Sopor P. & T.	Jammu Head Office P. & T.	Dharmasala P.
Vantipur (Avantipur) P.	Jammu Mandi P.	Manglamai P.
<i>Murree Road Offices.</i>	Aknur P.	Manawar P.
Kohala P. & T.	Arnia P.	Naoshahra P.
Domel P. & T.	Banihal P. & T.	Punch P.
Muzaffarabad P.	Batoti P. & T.	Rajaori P.
Garhi P. & T.	Badrawar P.	Sehra P.
Chakothis P.	Chineni P.	Seri P.
Uri P. & T.	Doda P.	Thana P.
	Dansal P.	

ROUTES INTO KASHMIR.

POST OFFICE INFORMATION.

Page vi. Introduction line 1.—For Inspectors read Superintendents.

,, 178.—*Post and Telegraph Office.—Insert the following :—*

<i>In Kashmir.</i>		<i>In Kashmir—contd.</i>		<i>In Kashmir—concl'd.</i>	
Amirakadal	P. T.	Charar Sharif	P.	Nasinbagh	P.
Achabal	P.	Fatahkadal	P. T.	Naushera	P.
Brah	P.	Gulmarg, West	P.	Sri Rambirgang	P. & T.
Bawan	P.	Langel	P.	Tral	P.

There is no Post Office at Nil Nag and Tragbal.

<i>Murree Road.</i>		<i>Ladak Road.</i>		<i>Punch.</i>	
Add the following :—		Add—		Add—	
Bagla	P.	Kagan	P.	Bagh	P.
Phagwari	P.	Khalatsi	P. T.	Hajeera	P.
Dewal	P.	Terkati	P.	Kotli	P.
Kernah	P.	Malshahibagh	P. T.	Phuljhari	P.
Hattian	P.	Tolti	P.	Palandri	P.
<i>Gilgit Road.</i>		Shigar	P.	Rawalkot	P.
Add—		Khapalu	P.		
Gupis	P. T.				
Bunji	P. T.				
Teru	P. T.				

STATE DISPENSARIES.

At most of these there is a good supply of ordinary medicines, and an Indian doctor.

Jhelum Valley Road... Muzaffarabad, Uri.

Kashmir Valley ... { Baramulla, Tregan, Sopor, Bandipur, Islamabad, Shupiyon.

City.—Main Hospital, Diamond Jubilee Zanana Hospital, and two branches, Gulmarg, in summer.

Kishenganga Valley (West).—Titwal.

Jammu Province (West).—Mirpur, Kotli en route to Poonch.

Pir Panjal route.—Bhimber, Naushera, Rajaori.

Aknur.—16 miles N. W. of Jammu.

Hamirpur.—30 miles W. of Jammu.

Jammu.—Town Hospital.

Riasi.—36 miles N.

Udhampur.—2 stages N. on Banihal route.

Ramban.—4 stages N. on Banihal route.

Eastern District.—Kathna, Hiranagar, Bassoli, Ramnagar, Badrawar, Kishtwar, up the Chenab Valley, Padar or Atholi, east of Kishtwar.

Ladakh Province.—Kargil, Leh.

Baltistan.—Skardu, Khapallu.

Astor.—Rattu, Bunji.

Gilgit.—Gupis, Nomal, Chalt, Hunza-Nagar, etc.

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TABLE OF ROUTES.

Jammu to Srinagar via Banihal.

163 $\frac{1}{2}$ miles.

[NOTE.—The initial letters b. s. c. stand for Bungalow, Supplies and Coolies].

No.	Stage.	Miles from last stage.	REMARKS.
...	Jammu, b. s. c. ...		<p>Map No. 29. From Wazirabad by rail: cross Tavi.</p> <p>A new tonga road goes to Udhampur in two stages; first 21 miles, Jhajjar, rest-house. Second 21 miles, Udhampur, good rest-house.</p>
1	Dunsal ...	16	Direct old road cut across from Nadani tunnel, and rejoin cart road.
2	Udhampur, b. s. c. ...	16	Eight miles short of Udhampur, many low ranges, ekkas Rs. 5 from Jammu, good rest-house.
3	Dharmtal, b. s. c. ...	12	Ascend valley, easy grade, but hot; height 3,700 feet.
4	Batot, b. s. c. ...	16	Pass Chineni town, then ascend pass 3,800 feet, after six mile new alignment for 8 miles. Ponymen prefer direct old road, in places shorter. Descend 1,800 feet.
5	Ramband, b. s. c. ...	16	Gradual descent to river Chenab, new alignment in parts. Cross suspension bridge, height 2,400 feet.
6	Ramsu, b. s. c. ...	16	Graded road, height 4,100 feet; good rest-house.

ROUTE 1—concluded.

No.	Stage.	Miles from last stage	REMARKS.
7	Banihal, b. s. c. ...	10	Gradual ascent, valley, better road, rest-house, 5,650 feet.
8	Vernag, b s. c. ...	13	Ascend Banihal Pass, 9,000 feet. Fine view, zigzag descent 2,000 feet, then easier to Vernag; fine camping-ground near tank and spring, height 6,500 feet.
9	Islamabad, b s. c. ...	16½	Almost level, down valley many large villages. Alternative routes, see page 75. Bungalow by river Jhelum at Kanbal, 1 mile beyond Islamabad post office, height 5,300 feet.
10	Avantipur, b s. c. ...	15	Usually by boat, for road see page 78. There is a project to connect Jammu and Srinagar by a rope railway.
11	Srinagar ...	17	

NOTE.—Some of the rest-houses are inferior, but gradually being replaced.

There will soon be a cart road all the way.

ROUTE 2.—Jammu to Srinagar via Akhnur and Rajaori.

(Compare 2c. and d.)

...	Jammu, b. s. c. ...	...
1	Akhnur, b. s. c. ...	18	Station on North-Western Railway.
2	Chauki Chora, s. c. ...	13½	Here cross Chenab by ferry.
3	Thandapani, s. c. ...	13	Ascending a low range.
4	Dharamsala, s. c. ...	10	Along a <i>nullah</i> .
5	Sialsui, s. c. ...	10	Cross low spurs and stream.
6	Rajaori, b. s. c. ...	14	Cross a high ridge.
			Join Pir Panjal Route (see page 26). There is a hill path from here to Kotli Route, 3, stage 6.
14	Srinagar ...	95	
	Total ...	173½	

ROUTE 2. (b).—**Jammu-Riasi-Gulabgarh Pass,
Islamabad.**

Map No. 29.

A.—Note on the route.—Village names are given to areas including many hamlets. The village name is not enough to locate the halting-place. Hence great difficulty in following the Guide-book's accounts, and hence also the appearance of wild confusion in the Survey map. Distances very difficult to estimate owing to nature of road. Though very hard for ponies, it is not impracticable at all; but coolies are almost always employed.

	<i>Miles.</i>
1. Jammu dak bungalow to Jammu Mandi 2) Jammu Mandi to Nagrota (Udampur) } 9 cart road 7)	
2. <i>Bamial</i> , passing at 9 miles Thandapani, the usual stage, named from a fine deep well. Hot work along stream- beds in low flat valleys and over dry ridges	12
3. <i>Riasi</i> —Down valley, through and through stream to Chenab at 5 miles (Village Dera). Then up bed, very hot. to Pabbar, 10 miles. Ford Pab- bar Nala, and pass along cliff, then through fields and a fine mango grove. Wide and difficult ford Anji Nala, (survey map, Dooda stream), Riasi just beyond; fine fort and maidan...	16
4. <i>Arnas</i> .—Very hot, long climb to Salal Fort on ridge, 7 miles, long descent to bridge at Kanthan, road so far good. Thence a track down right bank of Chenab, 2½ miles more, to nice village and camp. View of Konsa Nag range up Ans Valley ...	14
5. <i>Kund</i> hamlet, in Thuru village. (Not any of the <i>Tooroos</i> of the map but between and north of the two northern most marked). Steady ascent, steep near end, rising from 1,600 feet to 4,000 or 5,000. All steep slope at Kund, one bad camping-ground, and roofs	8½

6. Hamlet in *Shajru* (Survey, Sarjeru, but probably well N. E. of the northernmost marked there). Easy descent into Plasu Nala bottom, 1 mile. Crossing may be bad, a tree was thrown across in 4 hours' work. A very steep ascent, ending in better grade about 3 miles, but again turning to rough wet ascent, tracks and streams indistinguishable on *khud*. Camp on roofs, very steep hillside.. (Other road to Sahar, presumably that shown on map, was said to be impracticable.)
7. *Sahar* group of hamlets overlooking Ans Valley. From *Shajru* over ridge and along, behind longer, ascent by *Kalwa* (Gujar camping place) on to high ridge and along it possibly *Kalo* station of survey map is passed. Steep drop into *Serni Nala*, smaller than *Slasu*, cross by tree, camp 1 mile further at a granary and roofs.
8. *Angrala* (Map *Angril* also Guides). Climb ridge above village to a saddle where pony-road direct from *Serni Nala* crossing joins (used if not stooping at *Sahar*). Up and up over a spur, behind which is *Kharai Nala* (*Gnlabgarh* stream) far below. Mostly downhill thence to *Angrala* through thin forest. Camp on roofs, steep hillside, rice and maize fields ...
9. *Dewal*.—Patch round through woods above cliffs, then steep shaly descent to bridge. Stream said to be impassable for days in flood, a fine torrent, with precipitous gorges. Exceedingly stiff rise opposite for 1,800 or 2,000 feet; then along curves of hillside and down into open bit of valley full of rice, at a swift torrent turn up, steep rise to *Dewal* (the northern one on map) Roof camp ...
10. *Arital* (?)—*Partal*, Survey and Guide (page 67). Over high steep ridge 2 miles, left through oaks and along *khud* to a zigzag descent, *Kindorah* at bottom. A scattered Gujar village,

Miles.

5½

no camping ground visible, maize fields. Here strike main stream again and cross several affluents to a Gujar hovel and damp camp. Exactly opposite stream from head of pass falls in a fine series of cascades. Scenery really good for first time on journey. Muli Peak visible.

- | | | |
|-----|--|------|
| 11. | <i>Nand Marg</i> (Nandimarg or Nan Marg) over Pass 12,530. Fine end peak of the Kónsa Nag Brahma Sakal range, at valley head on left. Climb steep, passing through a wrecked forest high up, then emerging on great open slopes, dreary but easy going to actual pass (of much geological interest, see Record Geological, Vol. XXXVII, Part 4, page 288 <i>et seq.</i>) 6 miles. View mediocre and confined. Short cut from Pass to Nandmarg omitting Gogalmarg diverges immediately choice of two halting places, one just below steep descent at, say, 10 miles, the other at far end of Nandmarg, a straggling impalpable village 2 miles long. Here mosquitoes legion (over 7,000 feet) .. | 14 |
| 12. | <i>Kulgam</i> .—Gentle descent through Hanjipur (12½ miles) to ford of Veshau Nala (bridge at ordinary times?) Enter the open valley. Road good and largely level. | |
| 13. | <i>Kambal</i> (Islamabad P.O., one mile beyond).—Good valley road with willows. Ferry over Veshau bridges here and at Kanbal rebuilding 1909. Last 2 miles beautifully shady boats. | 11 |
| | Total distance | 117½ |

B.—A cross route from this to the Banihal route, joining at Ramsu stages given :—

Kund to 1, *Budhun* (Survey, wooden; one of them); 2 *Gul* (head-quarters of whole Gulabgarh Sub-tahsil); 3, *Dalwa*; 4, *Sangaldan*; 5, *Sumbhar-Harog*; 6, (in Ramban tahsil) *Sarbagani*; 7 *Ramsu*.

C.—A cross route from Riase to Rajaori on the Pir Panjal route :—1, *Poni* (crossing Chenab by Talwara ferry); 2, *Thandapani* (another one);

3, *Dharmstala* ; 4, *Sialsui* ; 5, *Rajaori*. Marches mostly 9 or 10 miles, one about 14.

DARHAL PASS.

The following is an alternative to the main route by the Pir Panjal, see page 28 :—

Aliabad Serai to Biloh.—Camp 1 mile from serai on left bank of stream coming from last : march up left bank 6 miles to Nandam Sar, a lake frozen till July : grand scenery. One mile on to pass 13,080, then 2 miles along the divide, south edge, grand views of distant plains, pass little lakes : 2 miles descent to Biloh camp near stream : total 12 miles.

Biloh to Darhal.—Slight ascent, steep long descent, nearly 8,000 feet in 5 miles, then more gradually 2 miles to Darhal. Not fit for laden ponies.

Darhal to Rajaori.—A rough descent following valley to Rajaori about 9 miles. These two stages might be done by lightly laden coolies in one day.

It will be seen that the tremendous ascent on second day would be trying if going towards Kashmir.

Rajaori to Aliabad Serai another route

"After crossing the Rattan Pir, at its foot the path divides. The left track (east of the Pir Panjal), passing Nil Sar, leads to the Darhal Pass, 13,080 feet. Just beyond this pass is Nandam Sar, a lake a mile long and half a mile wide, in which the Laddi river takes its origin, and runs down to join the Rambiara, a stream a little above Aliabad Serai, about sixteen miles distant. The other track crosses the Darhal pass, about five miles to the east, at a height of 13,403 feet. Close to the Pass is Bhag Sar. The Rupri river rises at this lake, and joins the Rambiara stream, opposite a water tower, about four miles below Aliabad Serai. The track from Bhag Sar leads down the Rupri Nullah for seven or eight miles ; it then crosses the high ridge, a stiff climb that forms the left bank of the nullah, and joins the Laddi track for Aliabad Serai." This route would not be open before June.

ROUTE 2c.—Jammu—Rajauri.

1. *Aknur*, cart road, ferry across Chenab at end of march. Small town, fort, rest-house, tahsil, &c.

(Domana canal bungalow half-way.)

2. *Chauki Chaura*.—First over stony plain, then a long distance up stony torrent beds and ravines amongst the low hills, cross a low ridge and get into the sandstone country around Chauki Chaura at the foot of Kali Dhar hills. A rather long march, 4½ hours.

3. *Thandapani*.—Ascent to Akhargalli to cross Kali Dhar range, views rather disappointing ; rough descent to Satot, and on through broken country to Thandapani, a stage on the Riasi-Rajauri route. An average march.

(A new road has been surveyed on this route, but there are no signs of its being made. The present road is a rough one).

ROUTE 2d.—Riasi—Poni.

1. *Poni* (cf. Route 11, march 3, where it is called Pouni). Cross Chenab by ferry, usually with a violent wind blowing down the river and the air full of sand. Tedious march along torrent beds and ravines, and repeated fordings of small streams; finally a short but steep ascent to the Poni plateau; small town.

2. *Thandapani*, easy march.

Thandapani to Rajauri, see Route 2.

ROUTE 3.—Jhelum to Srinagar via Poonch.

Map No. 29.

...	Jhelum	...	...	Town and Cantonment on North-Western Railway.
1	Dolial, s. c.	...	14	
2	Tangrot, b. s. c.	...	14	Khansama, Ferry over river.
3	Chaumuk, b. s. c.	...	10	Near foot of outer hill; a direct path to Kotli from here (see Route 4).
4	Biari, s. c.	...	7	
5	Senser, s. c.	...	12	A series of low hills crossed; road bad; some pine forest.
6	Kotli, b. s. c.	...	17	Rejoin Poonch river; an open bungalow or baradari; long ascent and descent.
7	Saira, s. c.	...	14	Bad road, crosses many spurs, short cut, fording river.
8	Poonch, b. s. c.	...	16	Cross river half-way by bridge. road after a mile or two, much better. Beyond this, <i>vide</i> pages 27, 28, 29, 157
15	Srinagar	...	94	
	Total	..	198	

A more direct route, unfit for laden ponies, is as follows :—

ROUTE 4.

No.	Stage.	Miles from last stage.	REMARKS.
...	Jhelum	...	
1	Katiala, s. c.	8	Here ferry across river Jhelum.
2	Mirpur, b. s. c.	14	Cross low hill ; a good sized town.
3	Chaunuk, b. s. c.	10	Good level road ; ford Poonch river on arrival.
4	Radan, s. c.	8	Ford river ; enter outer hills ; half march only ; village known as Rajdani.
5	Gulpur, s. c.	13½	Road bad ; frequent ascents ; half way is Narh ; on top of a hill beyond is Neki ; Troch Fort is above encampment.
6	Kotli, b. s. c.	11	Road bad for most of way. Join Route 3.
14	Srinagar	124	
	Total	188½	

ROUTE 4b.—Rajauri to Kotli.

1. **Sohana.**—Cross the range west of Rajauri ; a considerable ascent (2½ hours) and descent (2 hours) mostly through *chil* forest. A long march and a very bad rocky road, but passable for mules.

2. **Khuhjiratta.**—Follow the Sohano *nullah* down and get into the open but broken country north of the Kali Dhar. An easy march.

3. **Kotli.**—Pleasant march, by a good road on the whole mostly through the fringe of the *chil* forest, until the Tawi crossing about ¾ through. An average march.

(Tahsil, Police Station, Post Office, Dispensary).

ROUTE 4c.—Kotli to Nurpur.

1. **Tharochi** (Golpur village) ; road mostly high above the Poonch river, and would be easy in dry weather, but extremely slippery in wet. Crossing of Tawi (Bahn) may be awkward in rainy weather. An average march. Tharochi Fort, with a garrison of five *chaukidars*, is an imposing object on a hill top up the *nullah*.

2. **Rajdhani.**—Quite a short distance on the map, but a fairly long march, about 5 hours. Considerable descent to cross the torrent coming from Khwas, then long ascent over sandstone slopes through *chil* forest.

Good views. Through Nar, a large village, beyond which is a high corner overlooking the river ; this used to be dangerous but has been improved. After this bare sandstone hills very steep on one face ; cross two such ridges, one of considerable height, and so to camp.

3. **Nurpur.**—First part of march amongst low bare "*pabbis*," and along the sandy lands down by the river. Last part easy.

Nurpur has numerous public buildings, district offices, tahsil, police station, jail, &c. It is a considerable town.

Jhelum can be reached in one long march, see route

ROUTE 4d.—Mirpur to Bhimbar.

Two marches, easy and uninteresting, tahsil, etc., at Bhin.bar.

ROUTE 4e.—Bhimbar to Akhnur.

1. Barnala.
2. Minawar.
3. Johrian (good canal rest-house).
4. Akhnur.

These are all marches of reasonable length in the plains.

ROUTE 5.—Poonch to Rawalpindi

Map No. 28.

New road.—This is the direct road from the railway, and the easiest way ; road still under construction.

1. **Poonch to Hajira, 16 miles.**—Cross suspension bridge, 360 feet long, damaged by flood last year, under reconstruction, a temporary bridge is meanwhile maintained, cart road on left bank for 8 miles, bridged and drained throughout. *Sehra—Kotli*, road continues from Madharpur down the left bank, suspension bridge at Madharpur, 310 feet, recrossing Poonch river. Fishing generally good at Ser. Continue 8 miles. cart road under construction ; passes Devarandi to Hajira ; small mud rest hut, supplies and coolies available if notice is given to Tahsildar.

2. **Hajira to Torar Khal, 11 miles.**—Graded ascent, road under construction. Ascent never exceeds one in twelve, and is for 6 miles nearly level, passes Bhongo, Narwal. Tarar is one mile below and beyond Helan.

3. **Torar Khal to Palandari, 20 miles.**—Six feet road, well graded, small rest-hut, supplies and transport through tahsil only, there are six shops scattered round ; and a branch dispensary, on stage the following are passed :—Papinar, Gorala, Lawna, Chomria, Gorah, 2 pine forests are passed, otherwise through cultivation.

4. **Palandri to Lachman Pattan, 15 miles.**—Cart road, graded descent ; native rest-hut, supplies very scanty ; there are two shops on each side of the river ; but supplies very limited, no coolies or mules available locally.

5. **Lachman Pattan to Kahuta, 20 miles.**—Cross suspension bridge to British territory ; bridge road, dak bungalow, supplies and transport on previous notice.

ROUTES INTO KASHMIR.

6. **Kahuta to Sihala.**—Station N. W. Railway, 12 miles, good road (8 miles to Rawalpindi).

N. B.—Obtain a *parwana* from H. H. the Raja of Poonch for transport and supplies. This road should now be open through for *ekka* traffic. The Hajira river will be crossed by a proper suspension bridge, 140 feet span, and a small hut will be made at Zazar. The tahsil, it is expected, will be taken to Palandri where a sarai will also be built by H. H. the Raja Sahib, another sarai will probably be made at Sehala for the convenience of Poonch visitors.

ROUTE 6.—Muffarabad to Sharda via Kishenganga.

There are two roads running along the Kishenganga river, one on each side of it to Karnah, but the best is along the left bank of the river. Reaching Titwal the river is crossed by bridge on to the right of the Kishenganga. This road goes on to Dawarian where the river is crossed to the left bank, and reaching Dudanyal through the forest it is again crossed to the right bank and then the road goes on to Skarda, which is situated on the left bank of the river. The stages are as follows :—

Map No. 28.

1. **Muzaffarabad to Nurasiri, 10 miles.**—There is water in several places on the way to Nurasiri, but good springs are at Jhamirian and Chhalpani, two to three miles short of Nurasiri, and there is one spring a little beyond it which is handy for those who stay at Nurasiri.

2. **Nurasiri to Panjgram, 11 miles.**—Good spring water is met within the way at Chunan and other places, and there is one at Panjgram in the Panjgram Nullah. There is no camping-ground, tents, are pitched on the roofs of houses.

3. **Panjgram to Naseri, 10 miles.**—There is no spring water on the way, but water channels are in several places.

4. **Naseri to Titwala, 9 miles.**—There is spring water in the way near Batangi near Alikot and good running water is met with in several places.

From here a path up Karnah valley to Kashmir, 1½ day up valley to Jalre (*See Route 6* on next page).

5. **Titwal to Jura, 10 miles.**—There is no spring water at Jura, though it is met with in several places on the way. There is a water channel at Jura. There is no camping-ground, tents are pitched on the roofs of the houses if there are any crops in the fields.

6. **Jura to Shahkot, 10 miles.**—There is a water channel at Shahkot. There is no camping-ground, tents are pitched on the roofs of the houses or near the river bank. Dallar is a beautiful place between Jura and Shahkot. The Jagran Nullah joins the Kishenganga river there. It is a beautiful place and there is a forest house. A road leads to Jagran from there.

One should not miss the beautiful scenery in Jagran when going up to Sharda. From Dallar at a distance of about three miles is Salkhalla, across the river Salkhalla is the home of markhor.

7. **Shahkot to Keran**, 10 miles.—Water is handy in most places. There is a bridge at Keran and a forest road leads from it through the Keran Nullah to Shalora in Kamraj.

8. **Keran to Dawarian**, 10 miles.—There is water in most places.

9. **Dawarian to Dudanyal**, 8 miles.—Water is plentiful. There is a bridge at Dawarian. A forest road runs from it through the forest to Dudanyal. From there the forest road leads through the Jumagand Forest to Tregam in Kamraj.

10. **Dudanyal to Sharda**, 8 miles.—Water is handy. There is a bridge at Sharda to cross the river. At Sharda is a famous ancient temple. The scenery is fine. For connection see below.

ROUTE 6b.—Kishenganga to Kashmir.

ROUTE 1.—From Titwal via Karnah Valley.

1. **Titwal to Tantar**, 9 miles.—Steady ascent, good road, many villages, usual supplies, good camping-ground, height 5,500 feet.

2. **Tantar to Jalre**, 7 miles.—Steady ascent, last village Nachian, 7,000 feet, then forest, camping-ground below pass, 8,500 feet, no supplies.

3. **Jalre to Tumni**, 14 miles.—Rather steep ascent. 1,500 feet to Nachian Galli, long descent along steep slopes, then forest to Drangiari bridge, 7,000 feet small marg (good camping-ground, no supplies or only milk), then on to villages, Zunarishi, or Tumni, 1 hour further, height 6,000 feet.

4. **Tumni to Magam**, 11 miles.—Through cultivation, villages, good path.

5. **Magam to Sopor**, 19 miles.—Cross Pohru by ferry or ford near Wadipore, then 15 miles on a main road.

N. B.—Below Zunarishi, stage 3, there is a bridge at Ruri, and a road on left bank to Shalu a 5 or 6 miles, and on to Tregam and the LOLAB, *vide map*.

ROUTE 7.—Jammu to Kashmir via Kishtiwar.

(Maps Nos. 29—46).

...	Jammu	...	...
4	Batoti, b. s.	...	51	<i>Vide</i> Route 1.
5	Asan, s.	...	16	No bungalow; bad road, ascent and descents; follows left up bank of Chenab.
6	Kullen	...	15	Rest-houses (bad), at most stages supplies scanty; coolies few.
7	Bheli	...	10	

ROUTE 7—concluded.

No.	Stage.	Miles from last stage.	REMARKS.
8	Jangalwar, s. c. ...	14	Joins Routes 8, 9 and 10.
9	Kandani, s. c. ...	13	Steep path, but somewhat improved of late years
10	Kishtwar, s. c. ...	15	A large and important place; another path <i>via</i> Badrawar (<i>vide</i> Route 8).
11	Mughal Maidan, s. c....	11	Cross Chenab and Wardwan rivers by two bridges; two long steep ascents See page 83.
12	Tsingam, s. c. ...	11	Bridle path, pass Chatru at 5 miles. Camp above forest.
13	Sinthan ...	7	Cross Sinthan Pass about 12,000 feet. Shorter footpath.
14	Doosoo, s. c. ...	14	
15	Islamabad, b. s. c. ...	22	Across low hills, then on level. See page 80.
17	Srinagar ...	44	By boat.
	Total ...	233	N. B.—Stages 8 to 10, better path, <i>via</i> Salena, fit for hill ponies but rather longer.

This route closes in November. Most of the way is fit for hill ponies, but they have to swim the rivers. It is rough road; a *parwana* is needed to obtain supplies or coolies. From Kishtwar better road.

ROUTE 7b.

Udhampur to Batoti-Kishtwar road at Khaleni. (See route 7).

1. Udhampur to Dramthal on the Banihal road.
2. Dramthal to Sid Mahadev on the Banihal road as far as Chineni, there turn off to the right, and for about 4 miles low down along the Tawi by a good cobble-paved road. Then turn up the hill to the left and finally a steep climb by a zig-zig path to Sud Mahadev, about 1½ hours from the Tawi. About 5,750 feet and a well-known place of pilg image, but without any objects of interest. It is in the *jacir* of the Raja of Chineni.

3. **Sud Mahadev to Rot.**—The path starts climbing at once, and (except for one dip of 500 feet nearly half way up) climbs steadily to the pass about 9,500 feet, reached in $3\frac{1}{2}$ hours. Descent, through forest, mostly about 2 hours. Camp on narrow rice terraces at about 6,000 feet. The path on this march is bad in many places, and sometimes little dangerous even for a led pony. No snow to speak of early in April 1910.

4. **Rot to Parbal.**—A very short march. Down 500 feet to the nullah and up about 1,750 feet the other side. Fair path. This is about the last village of Marmat, which is a fine forest nullah with productive land.

5. **Parbal to Sarsi.**—About 4 hours' steady going by a fair path throughout which avoids crossing the main ridge behind Parbal, but rises to about 5,000 feet to cross the end of it; a good distant view of the Kishtwar snows from this point. After this there are several descents and ascents of 400--500 feet but the going is easy. Finally a considerable descent, to camp on a spur at Sarsi (*ilaka* Gallian) at nearly 7,000 feet. This is a pleasant march all through.

6. **Sarsi to Khaleni.**—Straight down to cross the stream (Nala Bacha) at 5,000 feet. Then up 500 feet through Pariot, and along and down the Pariot spur with a bird's eye view of Doda and its fort at the end. Then a long and steep descent to cross Nala Bacha again at 3,300 feet and up a few hundred feet to camp at Khaleni on a plateau overlooking the Chenab, a fairly warm place in April. This is a moderate march.

(Note.—By going straight from Rot down the Marmat nullah to the Kishtwar road, Khaleni could be reached in one march, but it would be long one).

ROUTE 7c.

Another route from Sud Mahadev to Marmat is *via* Marothi.

1. **Sud Mahadev to Marothi.**—A small descent, then up about 1,500 feet, a pleasant path, mostly rather steep through woods and cultivation, to a high gap in the ridge to east, with a very old, but not very big deodar up at the top ($1\frac{1}{2}$ hours). Then a hot descent of 800 feet to the nullah, and the other side to camp on the Marothi ridge at about 6,000 feet or over. About 3 hours from Sud Mahadev.

2. **Marothi to Dehra.**—A short march but a stiff climb all the way along the Marothi ridge to the top of the range behind, $2\frac{1}{2}$ hours. A led pony can get through with some difficulty; no village or supplies.

3. **Dehra to Bari (Seot).**—Long steep descent through fine forest to Behota and on by an up and down path *via* Rot to Bari Path fair (though tiring) except towards the end on either side of Bhawani Khad, where it is in places difficult for any pony. A long march, camp at about 4,500 feet. This village is in the Chinini *jagir*.

From Bari, either Assar or Khaleni can be reached in one march.

Compare Route 7.

ROUTE 7d.—Kishtwar to Batoti.

1. **Kishtwar to Kandani** on the Chenab (Jural numerous on the isolated hill to south).

- 2. **Jangalwar** } In the Bhadarwah *jagir* of the late Raja
- 3. **Bhela** } Sir Amar Singh.
- 4. **Khaleni**.

All these are easy marches on the whole (contemporary notes not available).

5. **Khaleni to Asar**.—About 4 hours' steady going. The road hardly deserves the name being rocky and precipitous in many places. There are many minor ascents and descents, and one long and extremely steep spiral descent to cross the Marmat stream close to its junction with the Chenab. The latter part of the march is rather bare and hot. Camp on fields overlooking the Chenab at 3,200 feet. "Milestone" on house "Batoti 11½ miles" but it seems longer (*jagir* of Raja Chineni.)

6. **Asar to Batoti**.—About 4 hours. The road runs fairly easy with minor ascents and descents until it reaches Ansi Dhar, where there is a big and steep climb of 2,450 feet to cross the ridge; then down steep about 1,750 feet to cross the Chakwa nullah and up the other side 1,100 feet to Batoti. The march is short, but a hard one for coolies, and baggage takes some time.

ROUTE 8.—Jammu to Kashmir via Badrawar, not recently revised.

Maps Nos. 29—46.

...	Jammu, b. s. c.	...	...
1	Jutanwali Kui, s.	...	9	
2	Sarion Sar, s.	...	8	
3	Chain, s. c.	...	10	
4	Ramanagar, s. c.	...	15	Cross low hills.
5	Korta, s. c.	...	13	
6	Dundar, s.	...	14	Cross range, about 8,000 feet.
7	Asmas	...	10	
8	Badrawar, s. c.	...	13	Cross Sooji Pass, over 10,000 feet, descend to valley.
9	Jaoru, s. c.	...	17	
10	Jangalwar, s. c.	...	14	
19	Srinagar, s. c.	...	127	Join Route 7.
	Total	...	250	

ROUTE 8b.—**Riasi to Udhampur.**

Riasi on the Chenab, 2 miles from Jammu.

1. **Riasi to Katra.**—About 4 hours or rather less, going easy; several very deep *nullahs* to cross with steep ascents and descents. Otherwise easy. Katra has a small bazar, but is an empty place except during the time of pilgrimage to the shrine of Trikta Devi in the summer. Monkeys abound. This side of the Trikta hill (the three-peaked hill conspicuous from Jammu) is sacred, and no shooting must be done there.

2. **Katra to Udhampur.**—The best way is probably *via* Thikri, joining the Udhampur cart road near the 26th milestone, in about 1¼ hours. Udhampur is about 16 miles on, and the whole march about 22. Except the dip to cross the Jhajjar Khad the earlier part of the march is easy.

A more direct route across country *via* Chak Rukwalan saves some miles and is not difficult. May be divided into two short marches at Chak Rukwalan. Some of the torrents cannot be crossed after heavy rain, but this applies to both routes.

ROUTE 9.—**Pathankote to Kashmir.**

Map No. 46.

	Pathankote	...	...	Terminus of a branch line of rail, joining the North-Western Railway at Amritsar.
1	Madhopur, s. c.	..	10	
2	Thain, s. c.	...	15	Ferry across Ravi.
3	Basoli, s. c.	...	12	A small town, height 2,170 feet.
4	Pud, s.	...	13	Cross a ridge.
5	Hartli, s.	...	14	North-west up nullah and over ridge.
6	Lohang, s.	...	8	
7	Camp	...	16	Cross Chatardhar Pass, 10,000 feet.
8	Badrawar, s. c.	...	14	Join Route 10 or 8.
9	Jaoru, s. c.	...	17	
10	Jangalwar, s. c.	...	14	
19	Srinagar	...	127	
	Total	...	260	

There are probably *serais* or rest-houses, but all inferior, and carriage would be difficult if many coolies are required. Apply for *parwana* to Governor of Jammu by letter.

ROUTE 9b.—Basohli to Ramnagar.

1. **Udhampur**—Rather a rough march through broken country, crossing numerous khads—not a particularly long one.

2. **Sumarta**.—Cross high river.

3. **Samnabanj**.—Camp on the top of the Samnabanj range at about 6,000 or 7,000 feet. A long climb by a rough road, but not a long march.

4. **Ramnagar**.—Easy descent all the way.

Tahsil, etc., and “palaces” of the late Raja Sir Ram Singh.

Note.—Detailed notes not available.

The above route is not open in the winter, when it is necessary to go round through Ramkot, and strike over the hill from Thal, with a long ascent and descent by a rough path.

ROUTE 9c.—Ramnagar to Udhampur.

1. **Chanunta**.—A short march through a country of low hills and deep ravines with difficulty.

2. **Udhampur**.—An average march, rough country to Janghanu, a small and decaying town; beyond this cross the Tawi by fording when low enough and on skin rafts when high, ponies swimming. From the other side the rise to Udhampur is easy.

ROUTE 9d.—Kathua to Basohli.

1. **Basantpur**.—An easy march, about 2½ to 3 hours' riding; road stony but not bad on the whole; pass Lakhanpur Fort, now used as a customs post, a fine solid little building in excellent preservation, about 200 years old. Ascent at end to Basantpur plateau is steep.

Pleasant camp under mango trees.

Police out-post here.

2. **Basohli**.—The first part of the march as far as the khad marked Belli on the map, is twice as long (riding) as the apparently longer second part, owing to the abominable state of the path in the former, more especially beyond the Rajpur customs post; it could not well be worse and remain pas-able for animals. Thain village and fort—*cf.* Route 9 (2-3)—lying high on the hills with a pleasant bit of shady lane was a too short interlude; it is a steep rocky ascent of about 500 feet to get up to it, and a steep descent down to the river again after it. Elsewhere is a narrow track along the steep hill-side overlooking the river. Beyond, after going down for a short distance into the bed of the Ravi, the road is easy.

Basohli or Basoli is a decaying town. It has tahsil, police station, dispensary, etc.

The ferry over the Ravi is very badly maintained by the Gurdaspur authorities. Improvement in this respect and as regards the Kathua road is probable.

ROUTE 10.—Chamba to Kashmir.

(Authorities : J. KELLY and V. W. SMITH.)

Chamba is reached *via* Pathankote and Dalhousie. It is a charming valley, watered by the Ravi with a small town, the capital of the principality. As far as Chamba there are good dak bungalows. See also page 126.

Map No. 46.

1. **Chamba to Manjir**, 16 miles. 2. **Manjir to Bhandal**, 14 miles, now replaced by—

1. **Chamba to Saluni**, 19 miles. 2. **Saluni to Bhandal**, 14 miles.—A new and better graded road, which was open up to a little past Saluni camp in 1908. The road follows the Ravi right bank downwards from Chamba, turns up a side valley in the bed and again up a left hand ravine, very hot, to a low watershed at the 8th mile, Pukri village. A rest-house will be built here. Down a long and rather deep ravine into the very bottom of the Sehol River Valley, about 12th mile; cross bridge and rise sharply after a mile, leaving old road to Manjir and climbing steadily round big ravines to Saluni, a fine airy site on ridge, say 6,500 feet.

2. **Saluni to Bhandal**, 14 miles.—The new road goes almost level along the left side (right bank) of a tributary valley coming from the Padri Pass. The old path, shorter, dips to the stream and crosses by a bridge, then up and down to Bhandal, a nice little hut and village.

3. **Bhandal to Langera**, 11 miles.—The same valley still followed on left bank, right side, very trying ups and downs (alternative through stream-bed once), till Langera hut is sighted in a grand position from near a fine waterfall. A spur divides the valley in two.

4. **Langera to Thanala**, 14 miles.—Substitute over Padri Pass.—Dip and climb the spur, then along it for miles (diversion through stream once) up and down. At a divide where a steep zigzag leads to a higher meadow about 5th mile, is the last good breakfast halting place before the glen narrows (branch on the left is followed) and the woods close in. A shaly bit down to ford, and up a ridge opposite looking like a knife lying edge upwards. This is not the pass, as you strike the same stream again immediately on the other side and follow it to the open pass itself—Hovel and Gujars. Emerge on edge of hill above Thanala, desperate drop to within half a mile of camping ground.

5. **Thanala to Bhadarwah**, 7 miles.—Delightful Sunday walk in pleasant valley. Bungalow at Bhadarwah good enough but for flies in July 1908.

6-7. **Bhadarwah to Janglawar**, 20 miles.—Crossing the stream at Bhadravar the road climbs the ridge opposite. This is hot and trying, but the rise is only about 1,500 feet. The path then follows the Jaora ridge on the left side for about two miles through fine forest slopes, when it suddenly turns to the right through a gap in the ridge down a small ravine. At the bottom is Jai, a pretty spot enclosed by two ridges. It is

ROUTE 10—concluded.

not a village, boasting only of a *musafirkhana* and a small *bania's* shop. The road turns to the left at Jai and follows the right side of the Jaora ridge alongside the stream, which is a feeder of the Chenab. For a couple of miles it traverses meadow land with wooded hills rising close on either hand. The valley then narrows and the stream becomes a torrent. After a steady descent of perhaps five miles the path rises above Jaora village and finally reaches the top of the ridge again, where it takes off to the left and descends the other ridge to Jangalwar. This is a steady descent of about 3,000 feet.

Camping at Jaora is uncomfortable, especially in wet weather, whereas ideal camping grounds can be found below Jai. It would be necessary to make previous arrangements for provisions, however, as there are no villages near.

A mobile party could do the whole march in a day, and the road is rideable everywhere. Near the point where the road finally turns and descends the ridge a magnificent panorama of distant snow and ice fields presents itself.

8. Jangalwar to Kandni, 10 miles.—Through the stony ravine on the ridge first, and a mile or two of bad rocky path, then better by the Chenab to Tatri P. O. village, and bridge over side stream at its junction. Here is the turn northwards of road and river. Except for a bad shaly corner beyond the next big torrent, all is now plain sailing to Kishtwar. *Kandni* hovel gives room for a tent on top; villages away up the hills, here very steep. Coolies and supplies bad here, forest officers generally do not stop. The two stages combined are not hard.

9. Kandni to Kishtwar, 10 miles.—Easy and pleasant march till three miles before Kishtwar side valley takes road (new alignment, easy grades). In side valley beyond crossing chenars a fine spring, and a village just short of which the road runs up the hill in zigzags, rather steep to the Kishtwar plateau. Old stone causeway will be noticed. Pass to right of fort and through bazar to Chaugan beyond town; magnificent chenars and open outlook.

N.B.—There is a tight place 2 or 3 miles out between Bhandal and Langera, where ponies do not generally pass; otherwise the whole route would be rideable, only bad on the Padri march.

ROUTE 11.—Jammu to Srinagar via Budil Pass.
 (Authority: General J. TYNDALE BISCOE, XIth Hussars.)
 Map 29.

No.	Stage.	Hours walking.	Miles from last stage about	REMARKS.
1	Akhnur ...	...	18	Small town on Chenab.
2	Katar, s. c. ...	8 hours ...	20	Height 1,900 feet; rough ascent and descent; village, supplies.
3	Ponni, s. c. ...	4 ,, ...	10	2,150 feet, village, supplies.
4	Bharak ...	4 ,, ...	10	2,700 feet, camp lower than village
5	Powara, s. ...	4 ,, ...	10	2,700 feet, scattered village.
6	Korbani ...	6 ,, ...	12	5,500 feet, stiff climb, no village.
7	Chowni Gujars	4 ,, ...	10	8,500 feet, up and down, few huts.
8	Budil, s. c. ...	5 ,, ...	12	5,500 feet, cross Ans river, 4,100 feet and ascend old fort, ponies and supplies.
9	Gubur ...	6 ,, ...	12	8,800 feet, up through forest over a low pass, no coolies or supplies
10	Delhi ...	6 ,, ...	10	Cross passes 12,300 and 14,000 feet, easy, no fire-wood at camp, no supplies.
11	Sedau, s. c. ...	5 ,, ...	12	6,500 feet, village, supplies, coolies.
12	Shupiyon, s. c.	1½ ,, ...	5	Join Pir Panjal route (<i>see</i> pages 26—30).

NOTE.—This is a rough cross-country path, only suitable for sportsmen. Compare Route 26.

ROUTE 12.—Simla to Kashmir (vide Route 14).

- (a). One route is *via* Bajaora (11 marches) and Baijnath (16 marches) to Chamba (24 marches), thence as in Route 10.
- (b). Another *via* Bajaora (11 marches) up to the Kulu Valley, across the Rotang Pass (16 marches) into Lahoul, thus far on the main route to Leh. It continues, however, down the Chenab through Pangi and Padar to Kishtwar, 30 marches from Simla; thence as in Route 7, in all 37 marches and 500 miles. Hill ponies and baggage animals cannot traverse this route.
- (c). From Kalka *via* Suket, Paiampur to Badrawar, etc.

ROUTE 13.—Simla to Leh via Kulu and Lahoul.

No.	Stage.	Miles from last stage.	REMARKS.
...	Simla ..	...	Bungalow.
1	Fagu (8,167 feet) ...	12	Bungalow and supplies.
2	Theog (7,453 feet) ...	51	Ditto.
3	Mauttiana (7,897 feet)	11½	Ditto.
4	Narkanda (9,182 feet)	11	
5	Komarsen (5,200 feet)...	6	
6	Dulaish (6,530 feet) ...	10¾	Bungalow and supplies.
7	Chawai (6,108 feet) ...	7	Bungalow, few supplies.
8	Kot (7,772 feet) ...	8	Bungalow, few supplies, descent and long ascent.
9	Jibi (5,930 feet) ...	10½	Cross Pass, 10,720 feet, few supplies.
10	Mangalor (3,770 feet)...	8¼	Bungalow.
11	Larji (3,130 feet) ...	7½	Bungalow, few supplies.
12	Bajaora (3,597 feet) ...	12	Bungalow, plentiful supplies.

ROUTE 13— continued.

No.	Stage.	Miles from last stage.	REMARKS.
13	Sultanpur (4,086 feet)	9	Tahsil, post office, bungalow, dispensary, other routes join here. It is well to arrange for ponies or mules to go through from here.
14	Katrain (4,826 feet) ...	13	Good road, bungalow, supplies.
15	Manauli (6,302 feet) ...	12	Ditto ditto. (See Map 46.)
16	Rahla (8,853 feet) ...	8 $\frac{3}{4}$	Good road, steep in places, bungalow, no supplies or coolies, except by previous notice, cross river several times.
17	Koksar (10,261 feet) ...	9 $\frac{1}{2}$	Cross Rotang Pass, 13,048 feet. Road usually open by June 1st, snow on Pass, rest-house, supplies and fuel by giving previous notice.
18	Sisu (9,938 feet) ...	9	Fair road, rest-house, supplies and coolies as above, cross Chandra river.
19	Gandla (10,352 feet) ...	7 $\frac{1}{2}$	Fair road, village supplies, Buddhist monastery near, also residence of Thakurs of Lahoul, rest-house, coolies.
20	Kailang (10,352 feet) ..	10	Rough road, some ascents and descents; cross Bhaga river, rest-house beyond village, also post office and Moravian Mission, supplies plentiful. Onwards only grass and fuel. Take pony transport through to Debring.
21	Gimur (10,508 feet) ...	16	Bad road up right bank, grass, fuel, milk.

I am indebted to Capt. BETHELL, 8th Gurkhas, for recent corrections on this route.

ROUTE 13—continued.

No.	Stage.	Miles from last stage.	REMARKS.
22	Sundeo (10,634 feet) ...	7½	Opposite Darcha, few supplies, small village.
23	Parseo (12,464 feet) ...	...	Leaves trees behind; undulating, bad road, ascent first 3 miles, camp on right bank near bridge, no fuel.
24	Zinzambar (1,405 feet)	6	Cross bridge; slight uphill road; some snow, camp on left bank; bad camping-ground, no fuel.
25	Kanlung (15,120 feet)...	14	Ascent easy, Buralacha Pass (16,221), last part of march descent very rough; scanty fuel.
26	Serchu (Lingtepain) (13,950 feet).	10	Level road, no supplies, thorn, scrub fuel.
27	Rachog-ba (13,400 feet).	8	Road over plain. Ford Trasp river at 3 miles, camp at foot of ascent to Lachuling Pass, scrub fuel, no supplies.
28	Samdu (15,522 feet) ...	8	Stiff ascent, up zigzag 2 miles, then easy, no supplies, grass or fuel, camp 2 miles from top of Pass.
29	Pang (15,200 feet) ...	16	Cross easy, Lachutung Pass (10,630), rough descent, no supplies or grass; thorn, scrub fuel.
30	Rukchan (15,374 feet) ..	19	Path over sandy plain; sometime Tartar camp; no supplies or grass, scrub fuel.
31	Debring (15,776 feet)...	14	Tartar camp; take on <i>yaks</i> from here; camp 2 miles from Taghlang Pass; few supplies, grass and scrub fuel.

ROUTE 13—concluded.

No.	Stage.	Miles from last stage.	REMARKS.
32	Gya (13,156 feet) ...	15	Easy ascent to Taghlang, steep (17,500), then occasionally pass descent, 13 miles to Gya village; serai, monastery, and few supplies, Map. 45 S. E.
33	Upshi (11,395 feet) ...	15½	Good road, serai, village on left bank of Indus, supplies.
34	Marshalong (11,500 feet)	9	Two miles further inside ravine is famous Hemis monastery; serai, fuel, no supplies.
35	Chushot (10,745 feet) ..	13	Collection of scattered villages; cultivation, serai and supplies.
36	Leh (11,582 feet) ...	11	Supplies, bungalow, post office, etc., capital of Ladakh, Moravian Mission; British Joint Commissioner resides near bungalow. All other Ladakh routes join in here.

NOTE.—In going down from Ladakh take *yaks* from Debring to Darcha.

ROUTE 14.—Palampur to Leh.

No.	Stage.	Miles from last stage	REMARKS.
...	Palampur ...	76	From Pathankote Railway Station, or 96 miles from Jullundur Station, <i>ekkas</i> can be taken. There is a bungalow.
1	Baijnath ...	10	Cart road thus far; bungalow and supplies.
2	Dhelu ...	12	Bungalow.
	Jutrunji ...	14	Ditto.
	Budwani ...	15	Height 7,000 feet, bungalow.
	Karam ...	10	Cross Rabu Pass, 10,000 feet.
	Sultanpur ...	10	Join Route 14.

ROUTE 14b.—**Leh—Debring via Skin Markha.**

1. Leh to Rumbak, cross Indus (long march, might go to Stok or Spitak, thence Rumbak) (Burhel ammon).
2. Skin, cross pass, easy.
3. Markha.
4. Lang'aneshan (Barkel) } no village.
5. Kharra, cross pass, easy } no village.
6. Chamartse (Burhel).
7. Oldung.
8. Sangotha, cross pass, very easy (Ovis ammon). }
9. Zarr (hares plentiful). } no village.
10. Debring (not a full march).

ROUTE 14c.—**Debring to Tsomoriri, Kiangcho Maidan and Zanskar.**

1. Debring to Thugzhe (salt lake).
2. Thugzhe to Polokarka (camp close under pass) (Zbugzhish (Ovis ammon).
3. Sakshang (large Chamba encampment).
4. Kurzok (Tsomoriri).
5. Yogra Nissa (camp about 17,250 feet).
6. Lanyar (cross pass over 18,000), easy (Ovis ammon).
7. Nynma ditto ditto.
8. Sumkhel (Leh-Kulu road).
9. Lachalung Sumdo (Leh-Kulu road) (Lachalung pass easy) } Cf. Route 14, march 28 to
10. Chaklang (partly on Leh-Kulu road).
11. Langtarme.
12. Kargiah Pulu.
13. Kargiah (cross Sarichan Lal 18,300 feet, not difficult path, avoids the small glacier at top (See Route 16b).
14. Tetah } Bad road in places.
15. Surleh (Burhel ibex) }
16. Rarru }
17. Padam (Kishrak).

Note.—Villages at Kurzok also at Kargiah and all subsequent stages.

ROUTE 15.--Lahoul to Kashmir via Zanskar.

Map 46.

No.	Stage.	Hours from last stage.	REMARKS.
...	Kyelang	...	<i>Vide</i> Route 13, dak bungalow; take supplies as far as Padum.
		<i>Miles.</i>	
1	Kolong	13	Camp.
2	Darcha	10	Camp. Last village in Lahoul.
		<i>Hours.</i>	
3	Dakbajan	5	Grass and wood at camping-ground.
4	Ramjak	5	Grass and wood scarce, road very bad for ponies.
5	Lakong	7	Cross Sinkul La, 16,722 feet; ascent easy, no wood, little grass.
6	Kargya	$\frac{1}{2}$	Small Zanskar village. Join Ling route.
7	Tetha	$4\frac{1}{2}$	Better road; village on left bank.
8	Sarleb	$5\frac{1}{2}$	Change coolies at Chah; road rough.
9	Reru	7 or 8	Change coolies at Tohar; road rough.
10	Padum	$\frac{1}{2}$	Change coolies at Pipchah; some supplies.
			Route to LEH. see Route 18, also in text, page 131, Map 45 S. E.
11	Ating	$5\frac{1}{2}$	Change coolies at Sani ($1\frac{3}{4}$ hours).
12	Abing	...	Change coolies at several places. Map 45 S. W.

ROUTE 15—concluded.

No.	Stage.	Hours from last stage.	REMARKS.
13	Bok ...	6	No village ; foot of Pense La.
14	Rangdum, s. c. ...	7	Cross Pense Pass, 14,400 feet, into Suru ; fair pony road, monastery. A cross route goes from this by Kang Pass in 3 days to Lamayoru or to Karbu, see below.
15	Camp Suma Bransa ...	8	Grassy valley with peaty plain, 2 hours to Shagma Karpo hamlet, 1 hour through old moraine, 1 hour to opposite Shafat Chu (up which route for ascending Nun Kun), 4 hours down grassy valley to Suma Bransa—willow shelters. Skirting Kun Nun Mt., some supplies.
16	Purkatse, s. c. ...	4	Fair path down valley, bad staircase at corner, ice cliffs, Ganri glacier opposite, rough ascent to village (Mahommadan).
17	Suru, s. c. ...	3	Over hill wonderful view ; steep ascent and descent ; supplies fair ; see page 147 for route to Wardwan.
18	Sankho, s. c. ...	7½	Fair road except on staircase.
19	Cam Umbala ...	7½	In ravine to Umbala, then ascent 3 hours ; slippery descent to a green valley ; brushwood, grazing.
20	Dras, b. s. c. ...	5	Short ascent, and very long decent, cross river by bridge below Dras, bungalow ; rest of route eight marches as per pages 95-96.

The author is partly indebted for these notes to C. J. R. Fraser, Esq.

ROUTE 16.—Leh to Wanla and Suru—Cross Route.
(Authority : Rev. P. SHAWE.)

No.	Stage.	Miles from last stage.	REMARKS.
1	Leh to Parka ...	8	Cross Indus at Chuglansir bridge.
2	Parka to Rumbak ...	17	Narrow ravine; bad road; at 11 miles pass hamlets Zingcham; only milk and fuel.
3	Rumbak to Shingo ...	12	Fair road up Kandha La 16,000 feet; gradual descent; small hamlets; milk and fuel only.
4	Singo to Kaya ...	8	Steep descent; bad road; small village one mile west of junction of valleys (Shio in map east of this); so far <i>yaks</i> from Leh; from here take coolies.
5	Kaya to Camp ...	10	Descent to Zanskar river, then very bad road, five miles; small village; Chilingon bridge from which take on milk, eggs, fuel.
6	Camp to Camp Ezang	5	Along river and up side valley; small village; change coolies.
7	Ezang to Sumda Chennmo.	8	Bad road, ascent, cross and re-cross stream several times, small village, take <i>yaks</i> if obtainable.
8	Sunda to Hinju ...	12	At five miles cross Gung Skyl Pass 14 500 feet (in map error Chokitah); first steep, then easy descent to village.
9	Hinju to Wanla ...	12	At first rough, reaching Wanla stream is good road; several hamlets. Wanla, a large village, a path down to Lamayuru, six miles.
10	Wanla to Dzagla (Camp).	14	Steady ascent of ravine; cross and re-cross stream; at three miles a natural bridge and hot springs. Camp at foot of pass.
11	Dzagla to Camp ...	16	Steep ascent, two hours to summit, 15,000 feet, then steep afterwards; easy descent past Dumber to Kanji. Large village, thence to foot of pass, six miles; fuel at camping ground.

Route 16—concluded.

No.	Stage.	Miles from last stage.	REMARKS.
12	Camp to Rangdum monastery.	20	Four hours' ascent to top of Kanji Pass, 17,000 feet; steep; bad descent; then along southern side of ravine till valley opens out. The Gonpa is on little hill on edge of plain; here join route by Pense Pass, No. 15 at stage 14.
	Total ...	142	

NOTE.—There is a direct path from the Leh main road, halfway between Karbu and Lamayuru to Kangi, fording the river 15 times in a few miles.

ROUTE 16b.—Leh to Zaskar.

Map 45 S. E.

Leh—See page 131.

No.	Stage.	Distance, miles.	REMARKS.
1	Nimu ...	18	Along main road, rest-house, supplies.
2	Ezas ...	16	Cross Indus below junction with Zaskar river, ascend valley, fair path; supplies, village; see also Route No. 16.
3	Drogulkia ...	9	Up Sundah-fu, small village, fuel.
4	Hinju ...	10	Long, easy ascent and descent. Choke La, 13,513 feet; hamlet fuel, grass, water.
5	Phanjila ...	9	Hamlet, f. g. w.
6	Honupatta ...	7	Fair road, pass Sundu at 3 m. village, some supplies, 12,400 feet.

ROUTES INTO KASHMIR.

Route 16b — concluded.

No.	Stage.	Distance, miles.	REMARKS.
7	Photaksar ...	13	Cross Sirsir La, 16,372 feet, fair road, some supplies, village, 18,900 feet.
8	Yelchang ...	16	Numerous ascents and descents, cross Singi La, 16,600 feet; village 12,730 feet.
9	Naerang ...	6	Cross Chochu Bori La at 2½ m. and Zanskar bridge at 5 m, small village.
10	Pangot .	10	Camping-ground.
11	Kurma-fu ...	10	Cross Chelong Labho, 14,530 feet.
12	Zang La ...	13	Village, some supplies, 11,050 feet.
13	Kursha ...	12	Cross Luna Sampu bridge; leave Zanskar valley, turn up Doda valley.
14	Ating ...	16	Village supplies.
15	Padam ...	14	Compare routes 15, 16, 17.

ROUTE 17.—Route from Padam to Leh via Marang La Pass, by N. C. Cockburn, Esquire, 1905.

No.	Padam to	Miles.	Map 46.
1	Reroo ...	15	Fair level road, bad for ponies in one or two places.
2	Itchor ...	7	Ditto dit o. General direction S E for three marches.
3	Char ...	15	Very bad path, in places quite destroyed by avalanches. Cross rope bridge at Jhar.

ROUTE 17--concluded.

No.	Padam to	Miles.	Map 46.
*4	Pbooktal ...	6	First 3 miles on loose shale, occasionally very bad, no village, one small, one across river.
*5	Gaytah ...	9	Fair road, no village.
6	Mar-shoon ...	16	Bad path at first, then cross rope bridge at Goktung, after which it improves.
*7	Sutak ...	18	Very curious looking galleries over precipices, then over flat plateau, and cross river by wood bridge.
*8	Lungturma ...	11	Good road, though hilly; no village, old one destroyed by avalanches and not rebuilt.
*9	Marang La Pass ...	6	Steep rough road, mostly up bed of stream, camp below pass, no village.
*10	Camp ...	11	Very steep ascent over pass, then steep descent and down bed of stream, no village.
*11	Loon ...	10	Short steep ascent, then good level path, no village; general direction N. E.
*12	Sangtha ...	8	Fair path, quite fit for <i>yaks</i> and ponies, no village; general direction N. E.
*13	Debring ...	15	Gair path, join Kulu trade route, no village.
14	Gay ...	15	Good path, cross Takalung Pass.
15	Upchi ...	18	Good path, down Gaya valley chiefly N., Map 45 S. E.
16	Marsalang ...	10	Good path, join Indus valley.
17	Chushot ...	13	Good path down Indus valley, N. W.
18	Leh ...	12	Good path.

*No supplies.

Coolies must be taken from Char to Mur-shoon and from there to Sangtha, where they or *yaks* can be got from Karnak. Notice should be given to the lambardar at Mur-shoon, there may be delay. This route follows the Zanskar river as far as Lungturma and at Loon follows the Tara river.

ROUTE 18—**Simla to Leh via Spiti.**

No.	Stage.	Miles from last stage.	REMARKS.
	Simla—		
11	Wangtu ...	121	Up Sutlej valley.
18	Dankar in Spiti ...	61	Crossing Tiri Pass, 15,300 feet.
19	Kaja Th. Kaze ...	16	Follow up Spiti river.
20	Kiwar Th. Khyipar ...	12	Ditto.
21	Jughtha Th. Jeigthag,	12	Ditto.
22	Dutung (?) Camp ..	10	Cross Paraing Pass, 1,300 feet, difficult.
23	Umdung (?) Camp ...	17	Traverse high plateau to stage 31.
24	Norbu Sumdo ...	20	From here alternative route to Hanle and Pangong (<i>vide map</i>).
25	Kyangdom ...	11	
26	Karazak, Th. Khorzang,	13	A direct road leaves Puga to the right, crosses Nagpe-gonding Pass 18,000 feet, to camp; thence to Thugje.
27	Puga ...	17	Cross Dopashi Pass, 16,500 feet.
28	Camp ...	13	Cross Polokonka Pass, 10,600 feet.
29	Thugje ...	12	
30	Debring ...	14	From here see Route 3.
31	Gwa ...	16	Cross Taglong Pass, 17,500 feet.
32	Upshi ...	12	Serai; Indus valley.
33	Machalong ...	11	Ditto.
34	Chushot ...	12	Ditto.
35	Leh ...	10	
	Total ...	430	

This is not a difficult route, and horses might usually be ridden. From Wangtu another route to Spiti follows round by the Sutlej valley, *vide Wilson's Abode of Snow*.

From Spiti there is a route closed to Europeans in to Tibet.

ROUTE 19.—Leh to Karakorum, Yarkand route.

No.	Stage.	Miles from last stage.	REMARKS.
...	Leh	...	See route in text, page 137.
1	Camp	8	Shelter hut.
2	Khardong	16	Cross Khardong Pass, 17,500 feet, hut.
3	Khalsar	9	Down steep ravine $2\frac{1}{2}$ hours, left bank of Shayok, $1\frac{1}{2}$ hours, rest-house, supplies.
4	Tegar	6	Along Shayok to suspension bridge 3 miles, thence 3 miles to Titri, pretty village, turn up Nubra 6 miles, monastery, village, supplies.
5	Panimik	13	Route up Nubra Valley; serai.
6	Umlong	15	Cross Tilumbuti, 2,000 feet ascent, 700 feet descent, made road, grass fuel.
7	Tutipalak	6	Side <i>nallah</i> .
8	Brangsa Saser River	14	Cross Saser Pass, 17,500 feet.
9	Bulak-i-Margo	18	
10	Bera Murtze	11	
11	Kizil Angur	8	
12	Daulat Beguldi	14	
13	Brangsa	22	Cross Karakoram Pass, 18,200 feet.
17	Shahdulla	70	On way cross Suket Pass, 18,209 feet.
29	Yarkand	240	Two more passes on the way.
	Total	477	

An alternative route up the Shayok river avoids Saser Pass and joins the above at stage 10. It crosses the Changla. I am not able at present to say which is the best route. Enquiries should be made from the British Joint Commissioner, Leh.

ROUTE 20--Payan to Leh by Shayok.

No.	Stage.	Miles from last stage.	REMARKS.
1	Payan to Prahnu ...	12	Cross at stage to right bank; a good deal of cultivation.
2	Prahnu to Turtok ..	12	Keep up left bank; here also a bridge.
3	Turtok to Biagdangdo.	...	6 hours, coolies needed, cross Chulunka, keep up right bank. One bad parri beyond Chulunka nullah. Then chiefly by river, good, camp village 30 houses, good water, small game in winter, road by river all the way.
4	Biagdangdo to Zdongpolas.	...	About 7 hours. Ponies leave Shayok, ascend side nullah 2 hours, then cross a pass 13,000 feet, then along hill side to small village, no shade, little water, people Buddhists.
5	Zdongpolas to Waris	...	About 4½ hours. Ponies along hill side about 2 hours, then a pass, descent, first gradual then steep, into Waris nullah, then ascend ½ hour to village, good supplies, also water and good camping ground, cross here if river fordable (October to May).
6	Waris to Unmaru ...	...	12 hours. Ponies and zhos, if unable to cross return to last pass, turn S. E., steep bad sandy path 3½ hours along top, then descend to Shayok; thence 4½ hours wearisome sandy plain. Last ½ hour grassy, small game (hares) large village, good supplies, poor camping ground among huts.
7	Unmaru to Mondari ...	...	About 3 hours (Map Hundar), an easy march, scanty cultivation, good camping ground and supplies, water thick.
8	Mondari to Charasa ...	...	See page 139. It is well to arrange many days beforehand for a skin raft at Unmaru or Mondari and to go up the front bank.
9	Khartsar to Leh ...	...	Three marches by Khardong or Diger. See route 19 and page 137.

N. B.—A new path, fit for ponies, is entirely on left bank of Shayok.

ROUTE 21.—Hassan Abdal to Chilas.

Number of stage.	Stage.	DISTANCE.		REMARKS.
		Inter-mediate.	Total.	
		Miles.	Miles.	
1	Abbottabad, b. s.	44	...	By tonga; P.T.
2	Mansehra, b. s. c.	16	60	By <i>ekka</i> ; bungalow, feet.
3	Jaba, b. s. ...	13 $\frac{1}{2}$	73 $\frac{1}{2}$	<i>Ekka</i> to Ota <i>serai</i> , then ride to P. W. D. bungalow.
4	Balakot, s. c. ...	10 $\frac{3}{4}$	84	<i>Serai</i> , police station, height 3,287 feet, large village.
5	Kuwai, s. b. ...	12 $\frac{1}{8}$	96 $\frac{1}{2}$	P. W. D. rest-house.
6	Mahandri, s. b.	13	109 $\frac{1}{2}$	Ditto ditto, 5,154 feet.
7	Khagan, s. c. b.	11 $\frac{1}{2}$	121	Ditto. Height, about 6,500 feet. large village.
8	Narang, s. b. .	14	135	Ditto. Fine forest scenery.
9	Buta Kundi, b. s.	10	145	Ditto. Height about 9,000 feet.
10	Burawai, b. ...	8	153	Ditto. No supplies till Babusar.
11	Besal ...	11	164	Leave forests behind last hamlet; dak hut, block-house.
12	Gittidas ...	8	172	Halt here unnecessary. Lalusar.
13	Top of pass ...	4	...	Lake on left; hut, 11,000 feet.
	Babusar, s. c. b.	8	180	Bungalow; cross pass, 13,715 feet; easy gradient, village, 9,200 feet.
14	Singal, s. c. b. ...	13	193	Bungalow, barren valley, large village.
15	Chilas ...	10	203	Fort; P. T. cantonment, 4,000 feet.

This and other Gilgit routes by kindness of Lt. Colonel Medley.

Inhabitants of Khagan Valley very unobliging; difficult to get any supplies. The road is good. Much snow from Burawai to Babusar till mid June. Application for use of P. W. D. rest-house should be made to the C. R. E., Abbottabad.

Route open from July 1st to end of October. Water abundant and usually good.

ROUTE 22.—**Kashmir to Chilas.**

The most direct route is the following; but Shardi can also be reached by following the Kishenganga up from Domel or down from Gurais, also from Shalura by the Pathra Gali. See route 6.

Map 28.

No.	Stage.	Miles from last stage.	REMARKS.
1	From Sopor to Chogul, s. c.	16	In the Kashmir Valley the path to Lolab (see page 91).
2	Chogul to Kombrial, s. c.	16	So far a good level road. This stage is in the Lolab Valley.
3	Kombrial to Camp ...	About 8	The path now leads north up narrow, grassy and wooded valley on the right bank of the Sochar stream; it ascends gradually, then cross to left bank; camp about 9,000 feet.
4	Camp to Camp ...	About 10	A steep ascent to pass, about 11,000 feet, with steep descent to valley, camp in upper forest; level.
5	Camp to Shardi, s. c....	About 8	Ascend north-west, cross steep spur and steep descent to Kishenganga by Madmati mullah. Shardi is a small village at the junction, Camp in walnut trees. There is an old mud fort, also an ancient stone temple of the Kashmir type. The river is crossed by a rope bridge, and in winter by a wooden bridge.
9	Shardi to Sangam ...	9	Cross the Kishenganga, then the Sotsuti by wooden bridge, follow left bank; north with gradual ascent; camp; wood abundant.

ROUTE 22.—concluded.

No.	Stage.	Miles from last stage.	REMARKS.
7	Sangam to Camp (Damelat).	9	Steady ascent, a stream flows in from north-west; keep up branch to the north-east; camp above forest; very rough in places.
8	Camp to Kamakdori Galli	10	Cross about midway the Kamakdori Pass, 13,750 feet; very steep on both sides for 700 feet from summit; snow on north side nearly all the year; open for six months.
9	Kamakdori to Daloi, s.c.	15	Rough descent; pass village Niat, 8 miles; thence to Daloi 7 miles, here join Babusar route.
10	Daloi to Chilas, c. s. c.	10	Follow valley 8 miles down to near Indus, then turn left and ascend to plateau on which is fort.

ROUTE 22b.—Kashmir to Chilas by Barei Pass.

Map 28.

No.	Stage.	Miles.	Hours' march.	REMARKS.
1 & 2	Sopor to Kumbrial.	...	...	<i>Vide</i> route 22.
3	Kumbrial to Camp Sidura.	16	7	Cross Kobel Pass, 10,000 feet, 2 hours' descent to a marg, 8,000 feet.
4	Camp to Dach (Machel nullah).	10	44	3 hours' steep down to main nullah, frequent fording, a little cultivation, 7,000 feet.
5	Dach to Khel	15	5	Ascend 600 feet, then down to Kishenganga bridge, 2 hours along river bank to Khel.
6	Khel to Mori	15	66	Turn north-west Domel, 2½ hours; good path, huts. Here one nullah north-east to Astor, other north-west to Barei Pass. 4 hours' gradual ascent to Mori, height 9,800 feet, hut.

ROUTE 22*b*.—concluded.

No.	Stage.	Miles.	Hours' march.	REMARKS.
7	Mori to Kalan ...	10	5	Gradual ascent, shelter at a big rock below pass, height 12,600 feet.
8	Kalan to Paloi ...	20	9	Steep up pass, North and West 50° 1½ hours, then North and West 30° 1 hour top 14,700 feet, turn west down into valley, descend 1,000 feet, then easy valley, grassy, 4 hours to lake, 2½ hours down, cultivation, then pine trees, Paloi 9,450 feet.
9	Paloi to Buner vil- lage.	10	4½	2½ hours down to Kilbai village, walnuts, opposite side is Managuch, route to Mazenu Pass (4 days) to Tarshing, (see page 169). Then 2 hours on right bank, re-cross at Buner, height 5,500 feet. View of Nunga Parbat.
10	B. Village to Buner Parao.	12	5	Gradual ascent to plateau, then plunge down, cross river (if fordable) follow down to Chilas road and the serai; by the Indus, height 3,200 feet, thence along left bank, sand and stones (see page 221).
11	B. Parao to Chilas...	17	5½	

N. B.—There is a cross road from Buner village to Thak, one long stage with easy low pass.

ROUTE 23.—**Sonamarg to Lake Gangabal via Gad Sar. Four marches.**

1. Start from Thajwaz, steep ascent to Pass Patri, two and-a-half hours, descent 400 feet to river and cross on snow or bridge, then steady ascent along side of stream for two and-a-half hours, camp at foot of Nich Nai Pass. Juniper for fuel.

2. Steep ascent to top of Nich Nai Pass, height 13,500 feet, then descend on snow slopes, Vishu Sar valley. Cross stream to left bank and gentle ascent to west to Vishu Sar lake, 5 hours.

ROUTE 23.—concluded.

Steady ascent to lake Krishn Sar, 400 feet and then steep ascent for 1,000 feet up limestone ridge, steep descent to right of small tarn and along narrow valley in westerly direction for two miles to lake Gad Sar. Then turn to north and down Kell Nai valley to mouth of narrow gorge leading to pass over to Tilel. Time from Vishn Sar 6 hours.

Cross river and ascend steep slope to left for 1,000 feet through birch wood on to green upland shoulder. Wind round to south-west gradually rising to watershed, which is reached in three hours. From here a very slight descent at the top of Charner valley brings you to the path over to Gangabal on the right. A steep climb of 1,500 feet, the last part on snow. Height of pass 13,500. Descend steeply 1,500 feet and then along grassy valley to right to Ganagbal lake.

Thence to Tronkol and Wangat or to Chittagul, see page 96. Lightly laden ponies can go during mid-June to end September.

ROUTE 24.—Gurais to Dras via Tilel.

By author, September 1907.

No.	Name.	Miles.	Hours.	REMARKS.
	Srinagar to Gurais.			
1	Chorwan ... feet)	6	2	At Chorwan bridge, turn down left bank. Camp $\frac{1}{4}$ mile above dirty village in <i>nullah</i> , coolies, supplies.
2	Purana Tilel (8,000 feet.)	15	8	Three hours' steep ascent (not passable for laden ponies in wet weather), 3 hours' steep descent to river. 1 hour to Zedgei huts, $\frac{1}{2}$ hour to Camp Purana Tilel, supplies; coolies; camp opposite village.

ROUTE 24.—concluded.

No.	Name.	Miles.	Hours.	REMARKS.
3	Husangam ...	14	6	One hour to Jurinal bridge (route back to Wangat, Kashmir) $\frac{3}{4}$ hour still on right bank to Neru, $1\frac{1}{2}$ hours to Badigam, 1 hour Sardab, $\frac{3}{4}$ Buglinda, then a 'parri' or ford and recross, by bridge near Husangam, coolies and supplies scanty, one could camp near any of these villages.
4	Abdulhoon (10,000 feet).	12	5	Half hour, ford or Parri Malingam; 1 hour, Bodab; 2 hours Gujrind; 1 hour Abdulhoon, camp below; get horses and supplies from Gujrind; fair road. From Gujrind a pass to Deosai, 2 days.
5	Camp Cross Pass (13,500 feet).	10	8	Three hours' ascent to a wide meadow Baltal, sometimes Gujars, then 1 hour steep, and $2\frac{1}{2}$ hours along grassy slope, (snow till August, top of pass, Kawa Bal small tarn. $1\frac{1}{2}$ hours steep down; scanty fuel.
6	Bhotkolan (11,000 feet).	15	8	Eight hours down <i>nullah</i> ; frequent fords; stony bad path; some level good grassy bits; a few huts, no supplies.
7	Das (10,400 feet) ...	13	5	Two hours over a very bad "parri." ponies go unladen and roped; long delay, 1 mile, $41\frac{1}{2}$ hours Mushka village valley widen, fair path, $2\frac{1}{2}$ hours to <i>Dras</i> rest-house. (See page 128).

NOTE.—Tilal ponies climb like cats, some parts of this road are very bad and the fords dangerous. Supplies scanty, on 5th march pass Nilnai by which difficult path to Sonamarg 2 days and on north by Kurdgei *nullah* a Pass to Deosai 2 days.

ROUTE 25—Gilgit to Nagyr.

No.	Stage.	Miles from last stage.	REMARKS.
1	Gilgit to Nomai, s. c.	17½	Cross the Gilgit bridge; then most of the way across stony plains, following up on bank of Hunza river and then crossing to left bank.
2	Nomai to Chalt, s. c.	15	Another hot, shadeless march; camp near fort; height 6,340 feet.
3	Chalt to Gulmat, s. c.	15	Still up left bank; road formerly crossed the spur; 11 miles Nilt Fort (captured December 1891), cross <i>nullah</i> , more cultivation, and a plain; shady camp by village; height 6,600 feet.
4	Gulmat to Tashot, s. c.	6	Three miles on is the fort of Pisan on bank of Hanza river; 2 miles further is village Minappin; then cross <i>nullah</i> , 2½ miles on is Minchar; 1 mile on is Tashot, a small village; height 6,680 feet.
5	Tashot to Nagyr, s. c.	14½	Ascent to Shaiyar, 7,370 feet, after five miles, then one mile to Askordas, a large village with good polo ground; 1½ miles on to the Sumaiyar river. On from here much of the way is barren and stony to within the last mile. The direct route from <i>Nagyr</i> to <i>Hunza</i> crosses the Hunza river by a long rope bridge; it is a four hours' walk. From <i>Nagyr</i> to the bridge is 7 miles; thence 3 miles. Behind <i>Nagyr</i> is the <i>Hispar nullah</i> ; <i>Nagyr</i> to <i>Ratal</i> , 5½ miles; <i>Ratal</i> to <i>Gutens Harai</i> , 9¼ miles; thence to <i>Bunpuch Harri</i> , 11 miles; on to <i>Hispar</i> 7¼ miles. <i>Hispar</i> to <i>Hajgutum</i> is one long march; and thence across the <i>Nushik La</i> to <i>Ding Bransa</i> one day. This is a climber's pass only practicable about mid-summer (see pp. 160, 161).

ROUTE 26.—Distance from Gilgit to Bunji via Jagrot.

Serial No.	From	To	DISTANCE.		REMARKS.
			Inter- mediate.	Total.	
			Miles.	Miles.	
1	Gilgit ...	Pari Bungalow...	19	...	
2	Pari Bungalow	Jagrot ...	7	26	
3	Jagrot ...	Bunji ...	13	39	

ROUTE 27.—Distance from Babusar Pass to Gilgit via Chilas.

1	Babusar Pass	Babusar Bungalow.	6		Kashmir Territory and Frontier boundary pillars commence from Babnsar Pass. Hot road up stony left bank of Indus, scanty supplies, except at Bunji.
2	Babusar Bungalow.	Singal Bungalow	13	19	
3	Singal ...	Chilas Bungalow	10	29	
4	Chilas ...	Bunar ...	17	46	
5	Bunar ...	Jellipur Bungalow.	10	56	
6	Jellipur ...	Leychar ..	13½	69½	
7	Leychar ..	Bunji ...	14	83½	
8	Bunji ...	Gilgit ...	37	120½	
	Babusar Pass	Abbottabad ...	131½	...	
	Hassan Abdal	Ditto ...	43	...	

ROUTE 28.—Distance from Chilas to different stations.

1	Chilas ...	Muraski month Nullah.	21	...	
2	Muraski ...	Thor village ...	5¼	26¾	
1	Muraski ...	Hador ...	11⅝	...	
1	Chilas ...	Gunar Kul ...	24½	...	

ROUTE 29.—Distance from Gilgit to Gupis

Serial No.	From	To	DISTANCE.		REMARKS.
			Inter- mediate.	Total.	
			Miles.	Miles.	
1	Gilgit ...	Hunzal ...	9	...	
2	Nunzai ...	Bargu Pari ...	6	15	
3	Bargu Pari ...	Sharote ...	3	18	
4	Sharote ...	Gullapur Bungal- low.	3	21	
5	Gullapur ...	Dalnati ...	5	26	
6	Dalnati ...	Gich Pari ...	6	32	
7	Gich Pari ...	Singal ...	2	34	
8	Singal ...	Gakuch Bungal- low.	11	45	
9	Gakuch ...	Hobar Pari ...	8	53	
10	Hobar Pari ...	Sumail ...	6	59	
11	Sumail ...	Roshan Pari ...	1	60	
12	Roshan Pari ..	Roshan Fort ...	4	64	
13	Roshan Fort ..	Gupis Fort ...	4 $\frac{1}{4}$	68 $\frac{1}{4}$	
	Gupis Fort ...	Burandas in Ya- sin Valley ...	24	...	

ROUTE 30.—Distance between Gupis and Shandur Lake.

1	Gupis Fort ...	Janjrote ...	6	...	
2	Janjrote ...	Khutti ...	2	8	
3	Khutti ...	Dahinial ...	8	16	
4	Dahinial ..	Tangai ...	8	24	

ROUTE 30.—concluded.

Serial No.	From	To	DISTANCE.		REMARKS.
			Inter- mediate.	Total.	
5	Tangai ...	Pingal ...	3	27	
6	Pingal ...	Shamara n ...	8	35	
7	Shamara n ...	Chushi ...	2	37	
8	Chushi ...	Barkulti ...	7	44	
9	B arkulti ...	Sirbal ...	1	45	
10	Sirbal ...	Gulzar Fort ...	3	48	
11	Gulzar Fort...	Handarp ...	2	50	
12	Handarp ...	Langar ...	8	58	
13	Langar ...	Shandur Road...	10	68	

ROUTE 31.—Gupis to Ghizr via Yasin.

1	Gupis ...	Gandai ...	8	...	
2	Gandai ...	Yasin ..	9	17	
3	Yasin ..	Thui Kul ...	12	29	
4	Thui Kul ...	Darkot ...	15	44	
5	Darkot ...	Ghizr ...	9	53	
1	Gilgit ...	Chamagarh Bridge.	17	17	
2	Chamagarh ..	Chamagarh Kul Head.	2	19	

ROUTE 32.—Distance between Gilgit and Hunza via Tashot Bridge.

Serial No.	From	To	DISTANCE.		REMARKS.
			Inter-mediate.	Total.	
			Miles.	Miles.	
1	Gilgit ...	Dawar ...	4	5	Compare route 25.
2	Dawar ...	Pilchi ...	5	9	Sandy.
3	Pilchi ...	Dak Pari ...	4	13	
4	Dak Pari ...	Nomal ...	4 $\frac{7}{8}$	17 & 7 furlongs.	Bungalow, vil- large, fort.
5	Nomal ...	Charch Nullah .	8 $\frac{1}{8}$	26	
6	Charch Nullah	Kachi Pari ...	3	29	Good path over dangerous parri.
7	Kachi Pari ...	Chalt ...	2 $\frac{7}{8}$	31 & 7 furlongs.	Bungalow, fer- tile villages.
8	Chalt ...	Chalt Village ...	1	32	Descend.
9	Chalt Village ..	Chalt Bridge ...	1 $\frac{1}{2}$	33 & 4 furlongs.	A long ascent. Cross suspension
10	Chalt Bridge...	Kohar Pari ...	2 $\frac{1}{2}$	36	bridge ; then
11	Kohar Pari ...	Nilt ...	5	11	cultivation ; an ascent and gra- dual slope.
12	Nilt ...	Thel ...	1 $\frac{1}{4}$	42 & 2 furlongs.	Cross ravine ; cultivation whole way.
13	Thot ...	Gulmit ...	2 $\frac{1}{8}$	44 & 3*	* Pretty village, Pretty village,
14	Gulmit ...	Pissan ...	3 $\frac{1}{2}$	47 & 5 furlongs.	glacier close above.
15	Pissan ...	Bridge of Passin	6	43 & 3 furlongs.	Fine view.
16	Pissan Bridge	Minapin ...	5	49	Good cultivation, open valley ; glacier beyond.
17	Minapin ...	Tashot Bridge ...	3	52	Descent, by river, if road broken detour.

* Chained to the point, Political Officer's Quarters, Bungalow.

ROUTE 32.—concluded.

Serial No.	From	To	DISTANCE.		REMARKS.
			Inter-mediate.	Total.	
18	Tashot Bridge	Murtazabad ...	3	55	Stony ascent.
19	Murtazabad ...	Hassanabad ...	1 $\frac{5}{8}$	50 & 5 furlongs	
20	Hassanabad ...	Hassanabad Bridge.	3 furlongs	57	Advancing glacier on left.
21	Hassanabad Bridge ...	Aliabad *	1 $\frac{1}{2}$	53 & 4 furlongs	Far stretching cultivation, many villages, Baltit castle in sight.

ROUTE 33.—Distance to and from Gilgit and Hunza via Phakr and Askardas Bridge.

1	Gilgit ...	Tashot Bridge ...	32	...	For distance of the intermediate stations see No. 32.
2	Tashot Bridge	Phakr Village ...	2	24	
3	Phakr Village	Askardas Fort ...	4	58	
4	Askardas Fort	Askardas Bridge	1	59	
5	Askardas Bridge	Aliabad ...	2	61		Rest-house.

ROUTE 34.—Distance between Gilgit and Baltit (Hunza).

1	Gilgit ...	Aliabad ...	58 & 4 furlongs	...	As per distance No. 32.
2	Aliaba	Baltit † Hunza...	4 $\frac{1}{2}$	63	† Residence of Amir of Hunza

ROUTE 35.—Baltit to Kalik Pass.

1	Baltit ...	Atabad ...			The path is very rough for five marches owing to 'parris,' then through stony it is easier.
2	Atabad ...	Gulmit ...	14 $\frac{1}{4}$	19 $\frac{1}{4}$	
3	Gulmit ...	Passu ...	6 $\frac{1}{4}$	27	
4	Passu ...	Khaiber ...	10 $\frac{1}{4}$	37 $\frac{3}{4}$	
5	Khaiber ...	Khudabad ...	11 $\frac{3}{4}$	49 $\frac{1}{2}$	
6	Khudabad ...	Misgar ...	10	56	
7	Misgar ...	Mur Kashi ...	11 $\frac{1}{2}$	71	
8	Mur Kashi ...	Kilik Pass ...	11	82	

* Chained to the point, Political Officer's Quarters, Bungalow.

ROUTE 36.—**Kishtwar to Wardwan**, along river. This is a rough village path not fit for ponies. Kishtwar, see Route No. 7, and page 149.

1. **Phalma**, 6 miles.—Along main road to Kashmir cross Chandra Bhaḡa. Keep up left bank Wardwan river, small village. F. G. and water supplies scarce.

2. **Ekali**, 14 miles.—Up valley, pass Bandarkut. Supplies as above.

3. **Sanger**, 16 miles.—Along bend to E., then turn N., huts.

4. **Hamza**, 15 miles.—Cross to right bank, huts; recross to left bank, huts.

5. **Petgam or Maru**. 13 miles.—Cross Farriabad bridge, huts, village, supplies.

6. **Hajka**, 11 miles.—Up Wardwan valley, huts.

7. **Inshin**, 9 miles.—Village, supplies. Here join route across Margan Pass.

Stages 1 to 4, map 46, then map 45, S.W.

ROUTE 37.—**As follows may be found in "Routes in the Western Himalayas, Kashmir, etc.," Survey of India, Dehra Dun.**

	Price 8 annas.
Badrawar to Madhopur <i>via</i> Basaoli	... Page 6
Chini to Spiti <i>via</i> Sutlej and Para	... „ 11
Dalhousie to Chamba (two routes)	... „ 14
Dalhousie to Dharmsala <i>via</i> Chuari	... „ 15
Kangra to Kulu (Sultanpur), two routes	... „ 32-33
Kishtwar to Lahoul (Kailang <i>via</i> Chandra Bhaḡa Valley) ... ..	... „ 35

(First 4 marches more recent and correct on pages 140—141 of Guide.)

Leh to Losar (Spiti)	...	... 47
Spiti to Pangong Lake	...	.. 107
Sultanpur to Spiti	...	... 116

APPENDIX II.

MOGHAL GARDENS IN KASHMIR.

Before the visitor comes to Kashmir he should read Mrs. Villiers Stuart's "The Gardens of the Great Moghals" and visit at least one of the Moghal Gardens in the plains at Agra, Delhi or Lahore. The Moghals were great garden-lovers and were much handicapped at first by the lack of water in India. They disliked heat, strong winds and dust and escaped from these in their gardens. They had to bring water from great distances. In the earlier gardens the water-courses were small, the garden consisted of four square plots divided by straight cross-paths, gradually the complicated gardens were evolved with broad water-courses, high water chutes, large tanks, and Turkish baths. Every Moghal garden was absolutely symmetrical and the water-courses were lined with cypresses and other trees. In the spring the gardens were covered with flowers especially with thirty-two kinds of tulips, the designs resembled those of a carpet. The gardens were emblematic of paradise and the molvies attached mystical meanings to the trees. At immense expense the long terraces were constructed and nearly every garden was longer than at present, the modern roads pass through the lowest terrace which used to be approached from the lake. The design of the Shalamar differs from the Nishat because the former is a royal garden and consisted of a garden for the court nearest the lake and another for the Emperor and the third for the ladies.

Akbar the contemporary of Elizabeth made the Nasim Bagh.

Jehangir, the contemporary of James I, made Shalamar in 1619. Achchibal and Verinag; his prime minister and father-in-law Asaf Khan the Nishat Bagh (*vide* Guide of the Great Moghals, Chapters VII and VIII). Every one should go for a picnic to Chasma Shahi. Besides these gardens there are many ruined gardens especially on the route to Jammu (*c.g.*, Bijbehara), in most cases they mark the royal camping grounds built for the convenience of the court to and from the plains.

Other gardens are to be found at—

1. Nageem, commanding a magnificent view of the Takht from the further end of Sainundar Kol.
2. Hazrat Bal, where there are oval stone basins carved with figures of fish, ducks and herons.
3. Darogha Bagh, on Manasbal Lake built for Nur Jahan.

APPENDIX III.

MOTOR ROUTE--RAWALPINDI TO SRINAGAR.

Rawalpindi 1,720 ft.																
Miles	26	Tret 4,000 ft.														
37	11	Sunny Bank 6,050 ft														
64	38	27	Kohala 1,880 ft.													
75	49	38	Dulai 2,039 ft.													
85	59	48	21	10	Domel 2,172 ft											
99	73	62	35	24	14	Garhi 2,642 ft.										
115	89	78	51	40	30	16	Chenavi 3,414 ft.									
133	107	96	69	58	49	34	18	Uri 4,366 ft.								
146	120	109	82	71	61	47	31	13	Rampur 4,831 ft.							
162	136	125	98	87	77	63	47	29	16	Baramulla 5,183 ft.						
178	152	141	114	103	93	79	63	45	32	Pattan 5,207 ft.						
196	170	159	132	121	111	97	81	63	50	34	18	Srinagar 5,200 ft.				

APPENDIX IV.

RUKHS OR GAME SANCTUARIES.

Rukhs are as follows :—

1. Uri.
2. Hokarsar.
3. Chasma Shahi.
4. Dachgam.
5. Khonmoo.
6. Khru.
7. Tralcum Kirrim.
8. Achhabal.
9. Koolgam.

There is a public road over the Pastoom Pass through Khru Rukh and one through Tral over the Sangre Dar leading to Kirrim.

Except on these two roads no one is allowed to enter a rukh without written permission.

This rule applies to all roads which enter the Dachgam Rukh. No one is allowed to cross from the Liddar or from Arapal or Khonmoo into the Dachgam.

The penalties for entering a rukh are heavy and all servants of visitors are liable to be fined.

Permission to enter any rukh is **only given** under exceptional circumstances and application must be sent to the Honorary Secretary, State Rukhs, who will obtain His Highness' orders thereon.

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THE TERRITORIES OF THE MAHARAJA OF JAMMU AND KASHMIR

Scale 32 Miles = 1 inch



Key to Survey Maps.
1/4 inch Sheets.

2	5	9	13
3	6	10	14
4	7	11	15
5	8	12	16

Note - In ordering a Map the number 43 should be given, then the letter, then the square number.
 e.g. for Srinagar 43-16 for Islamabad 43-1.
 These Maps are scale 1 inch to 1 mile in 3 colours with contours for heights to scale.
 There are also survey Maps scale 16 miles to 1 inch of Kashmir.