THE FRONTIERS OF BALUCHISTAN.



TRAKUN ON THE RUD-I-BIYABAN. (From a Sketch by the Author.)

[Frontispiece.

# THE FRONTIERS

 $\mathbf{OF}$ 

# BALUCHISTAN

# TRAVELS ON THE BORDERS OF PERSIA AND AFGHANISTAN

ВŸ

G. P. TATE F.R.G.S., M.R.A.S., OF THE INDIAN SURVEYS

### WITH AN INTRODUCTION BY

Col. SIR A. HENRY MCMAHON K.C.I.E., C.S.I.

WITH A COLOURED FRONTISPIECE, THIRTY-SIX PLATES AND TWO MAPS

# WITHERBY & CO. 326 HIGH HOLBORN LONDON

# TO MY WIFE

. . .

# WITHOUT WHOSE CONSTANT ENCOURAGEMENT

# AND ASSISTANCE

THIS BOOK WOULD NEVER HAVE BEEN WRITTEN.

# INTRODUCTION.

To lovers of Nature a desert ever presents peculiar fascination, and those who have once come under its spell can seldom free themselves from the longing to leave the crowded highways of civilization and return again to the untrodden regions of the silent wilderness.

In his "Frontiers of Baluchistan" the author furnishes us with many choice sketches of the desert and desert life painted in life-like colours, and with a fidelity such as none but a true child of the desert can attain to.

While one portion of the work deals with the vast desert which lies between Quetta and Persia, a wilderness which Nature appears from time immemorial to have determined should never be anything else, the other and larger portion describes that strangely interesting country of Seistan, which Nature has bounteously endowed with every gift of water and soil, and which has become a desert by man's own handiwork and folly.

The vast ruins, which everywhere in the latter region testify to a past prosperity and civilized population, both long since gone, give to the silence of the barren

# INTRODUCTION

wilderness in which they stand a sadness which can be but inadequately described in words.

Through both these regions, and also the present small inhabited portion of modern Seistan, Mr. Tate leads us with picturesque descriptions and interesting historical allusions.

Upon the many interesting incidents which marked the history of the Baluch-Afghan Boundary Commission, 1895-96, and the Seistan Arbitration Mission, 1903-5, with which Mr. Tate, as Survey Officer, traversed the various portions of the country dealt with in this book, he has felt himself debarred from touching.

He has, however, fully made up for lack of personal narrative by the strength and picturesque colouring of his portraiture of the country and people he describes.

# A. HENRY McMAHON.

QUETTA,

VIII

6th February, 1909.

# PREFACE.

IF the lives of human beings are shaped by a controlling and mysterious influence, then I must have been predestined to be a wanderer all my days, for my travels began at an age when most people are still in the nursery.

By the time I was ten years old I had traversed two sides of the triangle which has Calcutta and Karachi as the ends of its base and Abbottabad for its apex. Of the journey between Calcutta and Abbottabad I have no recollection, but of the journey from Abbottabad to Kushālgarh on the Indus, I retain a very clear impression, for I rode each day's stage along the frontier road on my pony, while my mother and a very small sister travelled in a doolie carried by bearers. At Kushalgarh we chartered two wide-beamed vessels manned by oarsmen, on which temporary dwellings had been erected, one for ourselves and the other for our servants and my pony. The tedium of our long journey down the river was broken by stoppages at several points where friends-and strangers also-extended a generous hospitality to the small party of voyagers.

Those were the days when the frontier was garrisoned

# PREFACE

by regiments of the Frontier Force, and trans-border politics bulked largely as topics of conversation in the small stations along our marches. In this way there was laid in my mind the foundations of an interest in those countries and their affairs which has never been effaced. As we floated down the Indus, day after day was visible to the west, the lofty mountain barrier. Beyond the mountains lay a mysterious land of which very little was known. An occasional Indian explorer had at times, with considerable risk, brought back scanty though valuable geographical information, and the yearly caravans of Afghan traders alone gave an insight into affairs " at the back of beyond."

Life in the small frontier cantonments in those days was full of incident as the homes of the warlike and independent border clans in some cases lay within easy reach of our military settlements, and at times when a spirit of unrest was abroad it was unsafe to go unarmed. The conditions of our daily existence exercised an influence on my small mind, which was kept alive by the great camps of Povindah Afghans which we met on our voyage down the river to the point where it is joined by the five rivers of the Punjab. These camps were composed of women and lads whose husbands and fathers had gone further into India on business intent. As a rule, however, the vicinity of these camps was avoided by us, as we were too weak a party to accept any risks from such unruly folk.

### PREFACE

"Once on the frontier always on the frontier," was a saying that used to be current in Anglo-Indian society. It has been fulfilled in my case. Many years passed since this memorable journey, and many of my holidays were spent within sight of the mountains to the west of the Indus. Then, again, later on I crossed the barrier, and the old fascination came over me with redoubled strength, and it has held me in a grip which no hardships have been able to loosen. For a series of years the Frontier of Baluchistan-and, as my friends of Khārān used to tell me, the desert-was my "home" for the greater part of each year. Though at intervals this connection has been temporarily interrupted, yet the fascination of the desert has again and again drawn me irresistibly back to it-inexplicable though that fascination has been to many of my friends.

It is not possible to analyse this feeling nor define it in exact terms. Something is due to the freer and more simple, if strenuous, existence, and a good deal also to the fact that when I made the acquaintance of these tracts they were to a very large extent either imperfectly or not at all known. Contact with the rude inhabitants revealed an utterly unexplored field for research in the folk-lore and tribal legends, with which I became conversant over the camp fires, or in lonely bivouacs among the hills. The presence of an insignificant explorer's retinue excited no fears in the minds of the people, nor was there any object to be gained by the assumption of

# PREFACE

false appearances on their part. I saw them off their guard, and found much to interest me. An explorer's library, again, must needs be limited, and mine consisted of books of a solid and lasting description. Thrown on one's own resources for occupation, the powers of observation are rapidly developed, and not a day passed that did not provide work for the responsive fingers.

Finally, for me there was the burden of the daily task, but for which I should never have had the greatly appreciated opportunities that presented themselves at various times. A great deal of this work was completed under very considerable stress of circumstances that had to be overcome, and on which it is unnecessary to enlarge. At other times purely professional and scientific requirements had to be cheerfully subordinated to others of a wider and more important nature.

To those whose photographs I have used in this book to supplement the pictures which are my own handiwork I offer my best thanks.

# G. P. TATE.

# MUSSOORIE,

15th December, 1908.

XII

# CHAPTER I.

#### BEFORE BRITISH RULE.

Causes which led to the first Exploration and opening up of Western Baluchistan—The Seistan Trade Route—Early Explorers, Pottinger and Christie—Sir Charles MacGregor and Captain Lockwood—Sir Robert Sandeman—The old order—Azād Khan, the freebooting Chieftain—Murder of Mir Sābik—Spoils from Maiwand—The famous desert guides—Chāgai—Legend of Balanosh and the Dragon

#### CHAPTER II.

#### EARLY EXPERIENCES.

Early Experiences—Defile of the Lorā and Shorāwak—Salt deposit in Māshkel Hāmun—Compared with that at the head of the Ran of Cutch—Legend of Pir Sultān—Visit Khārān—The "Major" a general utility man—Slave deserter—Ido, Mamasseni, and his famous breed of greyhounds—Running down gazelles

# CHAPTER III.

#### ALONG THE AFGHAN FRONTIER.

The Afghan Border—Indo-Afghan Boundary Commission under Major A. H. McMahon—Experiences during progress of delimitation across the desert—The Mālak Dokand—Herds of wild asses at Saindak— Night March to the Shela—We lose our water—A trying experience— Extremes of temperatures at Gudar-i-Shah—A desert formed by a change in course of the Helmand—Brine pools, due to continuous evaporation—Comparison between the Shela and the Luni River in Western Rajputana — Kuh-i-Malik Siah — Neza-i-Sultān, one of Nature's curiosities—Famous spring, pools at Manzil—A desolate and repulsive spot

# CHAPTER IV.

#### ON THE ROAD TO SEISTAN.

Return to Quetta, 1902—Accompany Colonel McMahon on a Second Boundary Delimitation—Leave Quetta—Extensive view from Kishingi overlooking Nushki—Recross old ground—Christie's Route in 1810— Webb-Ware, Pioneer of the Trade Route—Cross the desert in several parties—Experience severe weather at Arbu—Desert highway marked by graves of victims to thirst—Make the Helmand—Colonel Pollock and Dr. Bellew—The wind of Seistan, terrific gale and dust-storm— Experiences of march in the teeth of the gale—Māla Khān, ruined fort and tomb—Pattinson's Irregulars garrison it in 1842—Death of Pattinson—M. Ferrier in 1845—Khwājah Ali—Gazelles

#### CHAPTER V.

#### DOWN THE HELMAND.

Treeless country—Mulberry trees introduced previous to 1839, Captain E. Conolly—Baluch hamlets and cattle shelters—Necessity for the latter—Representative escort of Afghan troops at Khwāja Ali— Osgood boat and raft of skins on the Helmand—Trough of the Helmand—Landi or Colony of the Barech Afghans 1

15

26

49

# CONTENTS

# CHAPTER VI.

#### A LAND OF OLD RENOWN.

Characters of the Helmand—Camp opposite Chahārburjak—The useful mulberry tree—Shortage of fuel—Introduction of Akhundzāda to the Mission—Break up camp—The Rud—Kamāl Khan's mud fort as a market—Memories of the Rud as a granary—Rustam's Weir and its destruction by Timur Leng—A clever camel—Dangerous fords—A meat diet for fast camels—Infuriated camels—A narrow escape— Albino camels—Bandar-i-Kamāl Khan—Remains of a Zoroastrian Tower of Silence—The City of Rustam—A weary night ride

#### CHAPTER VII.

#### THE PASSAGE OF THE HELMAND.

A miniature mountain stronghold— The Sena Rud as a thieves' trail— Fights with cattle raiders—Brigandage an honourable profession in the past—Māshi—A useful tamarisk jungle—Kala-i-Fath—Great strength of the citadel—Five hundred square miles of ruins—Not previously explored by Europeans—Treasure-seekers and their finds —We cross the Helmand—An impressive spectacle—A terrified camel delays the march—How to take camels across deep water -

# CHAPTER VIII.

#### ARRIVED AT OUR GOAL.

A fertile country—Band-i-Seistan—Yearly destruction of the weir—A curious irrigation system—Easy cultivation—Game—Nād Ali—Severe cold—Starving inhabitants and our dead transport animals—Willow trees—Remains of an ancient civilization—The river's course through the ruins of Nād Ali A capricious Princess and the ruin she caused— A brick-built fort—A raid by Turkomans—British military tunics the fashion—Strange gardening—The Khāsh Rud—Chakānsur—A story of violence and bloodshed—Kala-i-Kang—Nothing but a cesspool—The meaning of "Kang"

### CHAPTER IX.

#### THE ALSATIA OF SEISTAN.

Survey work with a small party—Cross into Persia—The Seistani mattock—Deh Dost Muhammad—Changes brought about by the Helmand—A mound of great antiquity—A dense growth of tamarisk bushes—Timely growth of green food—Takht-i Shah—Surprise visit by Sir Henry McMahon—An undesirable guest and his strange story— Summoned to a conference—A token of friendship—Pleasant greetings — How the wild pig was hunted—The rising Helmand—Return from the Miān Kangi—Cross the Pariun—A dilemma and a timely hint— An area liable to floods—The importance of reclamation works— Devastation caused by the annual rise of the Helmand—A princely debauchee—The Alsatia of Seistan—Yakub the Brigand

## CHAPTER X.

#### THE WIND OF 120 DAYS.

Life in Seistan compared to residence in a museum—Work of the Mission—Mixed character of inhabitants—"Bad-i-sad-o-bist-roz," or the famous "Wind of 120 Days"—Its distribution and character86

101

113

Destructive effects—A natural sand blast—Rifts torn in plateaus— Compelled to take refuge in the Consulate—Extremes—Direction and velocity—Signs of its approach—Personal comfort—The "Smoke of Seistan "—Falls of Snow—Seistan fly and its attack on human beings and cattle—Heavy mortality among our transport—Cautery and the camel—A fatal journey—Heroism rewarded—Deaths from drowning

160

179

201

# CHAPTER XI.

#### MARKING THE BOUNDARY.

Area surveyed by the Mission of 1903-5—Instructions to survey the triple frontier—Elaborate arrangements—Regular camp established— The usefulness of melons in the desert—View from Sena Rud—Birds in the desert—Migration of wild fowl—" Fossils "—The "River of the Desert "—The Panther Mountains—Desert larks and the water tanks— Sir Henry McMahon inspects our work—Progress in the Trade Route —Wells sunk—The Mission's last tour in Seistan—The Lake basin— River scenery—Hydrophobia in the camp—Mad jackals—Baluch woman mauled by a jackal—Sheikh Weisi—A blizzard and its effects —Reeds and their seeds—A terrific wind—One hundred and twenty miles an hour—Mad wolf rushes the camp at night—Our heavy losses —Epidemic of rabies—Pasteur Institute at Kasauli—The shrine of Bibi Dost

## CHAPTER XII.

# LAST DAYS IN SEISTAN.

Relaxations and entertainments—Keep in touch with the world—A well organised postal service—Curious mishap to our letters—The shrine of Bibi Dost—Nasratābād—A waterlogged city—A "scratch" dinner—Farewell banquet to the Mission—Standard of Persian education—A dangerous staircase—Cossacks' chanting—The Cossacks and our men entertain one another—Farewell Durbar—We start our homeward journey

CHAPTER XIII.

#### SOCIAL CONDITIONS.

Mian Kangi and Shahristān contrasted—Native architecture—Ingenious ventilation—Native dogs—Gardening—System of government—Ancient agricultural associations—How the canals are repaired—Towns and population—Yearly rebuilding of the Band-i-Seistan across the Helmand —Opium—Fondness of the native for barter—Saiads and the "priestly families"—Religious beliefs—Education—Legend of the Malik's daughter — Art — Metal work — Pottery — Weaving — Carpet-making among the Baluchis—Baluch women compared with those of Fārsiwān —A lady mayor—Dress—Intermarrying

215

# CHAPTER XIV. THE HELMAND.

The name "Helmand "—Great area of the Seistan Lake—The source of the river—The ford at Girishk—Major Tod crosses the river on an elephant—Tributary streams—Valley of the Helmand Possible diversion of its course—Its periodic rise—The rivers that feed the Seistan Lake—Area of the lake dependent on the height of the Helmand—Natural high-water gauge—Years of drought and flood— Advance of the water into the empty lake - Cultivation of the bed of the lake Pasture lands—The silt—Subsidence of the Seistan area— Historic records of the course of the Helmand—Future possibilities

# INDEX

Abba, the Persian, 236. Ab-i-Istāda Lake, Altitude of, 1.6 Adam Khan, 78, 79. Adras Kand, the, 244. Afghan Commission, 26, 28. - Commissioner, 33. ---- Frontier, 2, 4, 5, 16, 49, 133, 180. Garrison at Nād Ali, 122. Afghanistan, 50, 51, 123. Agriculture, Systems of, 92, 116, 136, 220, 249. Ahmadwāl, 52. Aiwan, a Lofty, or Adit, 216. Akhundzāda, the, 79, 80, 86, 89, 123, 130, 213. Aliabad, 182. Ali Khan, 122. "Ali with the Scar," 12. Alkali Bush, 41, 87, 155, 182, 190. Allahvār Nāwar, 184. Alluvial Soil, Deposits of, 159. Amin Khān, 58. Amir Chāh, 23. Amir, Representative of the, 79. - the, 72. Amrān, 228. Anglo-Russian Convention, 2. "Antiques," manufacture of, 107. Aqueduct, a rude, 115. Arak-i-Shutar (Camel Sweat), 141. Arbitration Award, the, 252. Arbu, Camp at, 59. - Peak, 54. Architecture, Mediæval, Relic of, 105. Arghand-ab, the, 240, 241. Arghassan, the, 240. Art in Seistan, 230. Asses, Wild, 34, 68. Azād Khan, 5, 8, 9, 10. Azim Khan, 9-11. the, 162. "Bad-i-sad-o-bist-roz," Bahramabad, 163. Bahrām Chāh, 30.

Bāla Dasht, 182.

Balanosh, 14.

Baluch, 58, 79, 126, 144; a Sanjarāni, 89, 92; battalions, 127; camelmen, 12; camp, publicity of a, 235; camps, 12; carpets, 232; girls, work of, 234; greetings, 6; guides, 3, 35; hamlets, 67; homes, 71; Mamasseni, 71; the Seistani, 145; woman, a, mauled by a jackal, 193; women, reputation of, 234.

Baluchistan, 3, 4, 5, 16, 41, 49, 127. Afghanistan and Persia, Meeting point of, 180.

- in 1884-5; northern, 2, 16.

Bamian, 238.

Bandān, the, 138, 244. Bandar, 91, 95, 97, 187.

Bandar-i-Kamāl Khan, 89, 90. 92, 95, 96.

Band-i-Bulbaka, the Weir of, 251.

Band-i-Kuhak, 224. Band-i-Rustam, 90.

Band-i-Seistan, 50, 114, 224, 225, 242.

Barech Cultivators, 58, 92.

Barechis, Landi of the, 72, 73.

"Bast," a Sanctuary, 20. Bell, Capt. R. C., 54.

Bellew, Dr., 57.

Beringak, 139.

Berthon boats, 134, 148, 150, 202.

Bhakāt, 156.

Bibi Dost, shrine of, 193, 200, 204, 228.

Birds, migration of, 183.

Birjand, 138.

Blizzards, 54, 142, 193. Bloodshed, a story of, 129.

Boat, collapsible, 72.

Boats, sailing, 191.

"Book, People of the," 205.

Boundary, 26, 50, 51.

- between the Helmand and Kuh-i-Malik surveyed, 180.

Boundary, Commissions (see Mission). Commissioner, the Afghan. 123. Brahui camps, 12. Bread, unleavened, 143. Bricks, sun-dried, 106. Brigandage, 103. British Consulate, 205. British frontier, 4; influence, 2, 15; intervention, 8. Buildings, modern, in Seistan, 131. Bulrushes, seeds of, 194. Bunjar, 231. Burial, a hasty, 78. Burj, village of, 17. Burj-i-Mirgul, 140, 142, 143, 144. Cakes, a present of, 143. Camel, a clever, 91; an episode with a, 110; attack by an infuriated, 93, 94; bells, 64; bladder of, 172; laden, in a gale, 65; unusual death of a, 172. --- corps, 149, 199. - men, missing and recovered, 37, 39. - trains, 52, 56. Camels, abandoned and retrieved, 44-45; albino, 94; and foct-bridges, 110; bitten by flies, cauterization of, 173; 170: crossing deep water with, 111; crossing the Helmand, 108, 109; used for food, 121, 171; dying, for riding, 117; meat93 ; poison from, 141; rabies in, 198; water required by, 33. Camel-thorn, 155, 171. Camp, main, 76. - rushed by mad wolf, 197. Canals, crossing of, 91. Capital, a waterlogged, 206. Carpet-making, 232, 233. Cattle bitten by flies, 170; famous, 123; grazing in water, 248. Cattle-raiding, 102–104, 184. —— shelters, 71. Cavalcade, an imposing, 207. Cemetery, ancient, 64. Cereals ousted by Tamarisk, 155. Cesspool, a great, 131. Chāgai, 4, 5, 13. - Afghans give up Fort of, 29. - north-west of, 14. Chahār Bāgh, 206, 209.

Chahārburjak, 87, 88, 90, 242. Chah-i-Diwān, 42. Chakānsur, 107, 123, 128, 130, 223, 243; a story of, 129; governor of, 79. Chàkar Kohān, 52. Chiefs, intelligent, 144. Chinkāra, 69. Chosroes, unworthy descendant of the, 156. Christie, Captain Charles, 4, 53, 71, 82, 105, 138. Church, the State, 228. "City, the," 205. Civilization, remains of an ancient 118. Coins, ancient, 107, 121. Colour effects, agreeable, 153. Columns, junction of the two, 57. Commission (see Mission). Conolly, Captain Edward, 70, 145, 146, 239, 246. Consulate, 206. Coot, 183. "Copper Smith, Leith the," 128. Corvées, 222. Cossacks entertain Indian troops, 210-212. Cultivation (see Agriculture). Curiosities, one of Nature's, 44. Curzon, Lord. 2. Customs regulations, the, 123. Cyrus the same as Kai Khasrau, 119. Dādi, 201. Dagāl Gardis, 107. Daki, ruins of, 150, 151. Dalbandin Plain, 162. Dām-o-Dim, 77. Darband, wells of, 45. Dasht-i-Margo, 68, 75, 83. 85. 173, 241. Dasht-i-Meski, 83, 87, 95, 106. Death, the Plain of, 173. Deerhounds, 25. Deh Bahlol, 133, 134. Deh Dost Muhammad, 134, 135, 136, 139, 140, 142, 177. Deh Khānam, 152. Dela's Peak, 101. Depression, a great, 59. Desert, birds in the, 183; difficulties in a, 33; disaster in, 176; great landmarks of, 60; lost in the, 175; mausolea in the, 185;

panorama in the, 186; tracts, 16.

# INDEX

Desert larks, water-tanks visited by,187. "Desert, River of the," 185. Deshu, 62, 64, 67, 70. Desolate valley, a, 46. Dhāk, 52, 53. Dik-i-Dela, 101, 102, 104. open-air, Dinner, an 209; 8 "scratch," 207; wines at 8 Persian, 210. Disease, cattle, 146. Dogs, intruders resented by, 218. Dolmah Barré, 208. Dor, the, 240. Douglas, Major, 54. Dranakuh, hills of, 34. Dress, 235. Drought, a severe, 114; and flood, years of, 246. Drowning, loss of life by, 178. Ducks, 68, 167, 183. Dud-i-Seistan, the, 167. Duganān, camp at, 29. Durand, Sir Mortimer, 26. Durbar, the farewell, 213. Dushak, ancient site of, 138. Dust, discomfort caused by, 62. Dustbin, Nature's giant, 84. Dwellings, modern Seistani, 137. Dyes, for carpets, 233. Echis carinata, 47. Echo, curious, 20. Education confined to males, 229. - Persian standard of, 209. Efflorescence, nitrous, 118. Ellis, Mr. A. G., 246. Entertainments of the Mission, 202. Escape, a narrow, 31. Escort, complimentary, 71-72. Explorers, early, 3-5, 11, 15, 16, 28, 50, 53, 57, 65, 66, 70, 71, 78, 82, 83, 87, 94, 105, 138, 188, 232, 239, 246. Exposure, deaths from, 67. Famine, 67, 117, 123. Farāh, district of, 244. River of, 189, 190, 191, 200. Farsiwan, attitude of the Baluch to the, 236; average life of a, 235; the, 134, 135. - women, intrigues of, 234. Fārsiwāns, beliefs of, 229. Fatal journey, a, 176. Ferrier, M., 65.

Ferry-men, refractory, 148. Feuds, blood, 79, 103. Fights, hand-to-hand, 103. Fire, narrow escape of the Camp from, 29. Fish caught in the ice, 193. Flies, attacks by myriads of, 170; disease spread by, 170. Floods, devastation caused by, 155. Fly, the Seistan, 169, 205. Fodder, green, 140. Forbes, Dr., 66, 133, 232. Ford, an ancient, 239; an important, 114; the Saints', 40. Fords, unsafe, 92. Fording the Helmand, a fine view of, 109. Fort as a market, 90. — little mud, 89. Fortalice, a famous, 89; a miniature, 101; a modern, 122; interesting ruined, Fortress, an 105; an island, 130; an unsavoury, 131. "Fossils," supposed, 185. Francolin, 116. Freebooters, 6. Frontier, demarcation of, 27; problems, 479. trijunction, between Afghanistan, Baluchistan, and Persia. 41, 42. Fuel, scarcity of, 217. Game, scarcity of, 22, 68. Gami Chāh Mullah, 44, Gardening, peculiar, 127. Garmsir, district of, 73. Gaud-i-Zireh, 4, 35, 41, 59, 187, 241, 242, 245, 247, 251, 252. Gazajai, salt water at. 174. Gazelle, 68, 69. - hunting with hounds, 24. Geese, 167. Geography of the country, 16. Ghilzai camelmen, 198. Ghur country, the, 244. Girdi Chah, 51. Girishk, 238, 239, 241. Goldsmid, General Sir Frederick, 50, 224. Government, system of, 219. Gramophone in Seistan, 202. Granary, a remote, 90. Grass, Bunnu, 190. Grave decorated with travertine, 32.

Graveyards and trophies, 22. Griffith, Dr. William, 238. Gudar-i-Shah, 40, 41, 78. Guest, an uninvited, 140. Guide, a brave, 176. Guide's Duty, a, 7. Guides, 184 ; Baluch. disputes between, 175; famous desert, 11-12. Gun-stocks and locks from mulberry, 88. Hair tonic in a mail-bag, 203. "Hamsayah," 228. Hāmun, salt deposits of the, 19-20; the, 18, 140, 147. Hāmun-i-Puza, 139, 243. Hāmun-i-Sāwari, the 190, 245, 249. Hāmun of the Māshkel, altitude of, 16. Hamza Khān, the Kaiāni Prince, 105. Hazarahs, 238. Hazrat Ali, 40. Hārut Rud, the, 243. Headgear, varied, 7. Helmand, the, 4, 7, 16, 50, 59, 64, 67, 73, 74, 76, 81, 83, 84, 86, 90, 91, 99, 102, 104, 105, 107, 113, 114, 115, 116, 120, 130, 136, 178, 180, 183, 185, 187, 188, 193, 199, 225, 239, 242; basin, the, 240; bifurcation of the, 119, 134; branches of the, 110; change in course of the, 50, 82, 95, 135, 250; crossing of the, 108; delta, the, 59, 128, 212, 249, 251; delta, variation of population in the, 224; failure of the, 123; future course of the, 252; importance of the, 244; maximum discharge of the, 245; meaning of the name, 237; overflow of the, 152; present bed of the, 80; rise and fall of the, 72, 146, 151, 155, 191, 241; ruins in bed of the, 243; sailing on the. 202; sandbanks in the, 108; set of the, 159; the empty, 246, 247; the source of the, 238; tributaries of the, 240; variable course of the, 58, 251; weir across the, 224. - Lower, 106. - Middle, 70, 88, 153.

----- Valley, 56, 57, 66, 71, 75, 89, 241.

Helmand, Baluchis of the, 68. Herat, 4. Highways, desert, 89. Horses protected from flies, 170. Hounds, extraordinary, 22-25. Hunter, a mighty, 23. Hunters, professional, 145. Hunting-dogs, fine strain of, 22–25. Hunting gazelle with greyhounds, 24. Hurricane, a, 61. Husenābād, 82, 207. Hydrophobia, 191. Ibex hunted with dogs, 24; successful stalk of, 17. Ibrahimābād, 131, 133. Ibrahim Khan, 122, 125, 133. Ido, the Mamasseni, 12, 23. Ilamdār Channel, 130. Illusion, peculiar optical, 35. Iltāz Karez, village of, 28. Imam Juma, 207. Indian escort and servants, dinners to, 208, 211, 212. — frontier question, 2. – gazelle, 69. ----- troops, in Seistan, 105. Inferno, the, 83, 84, 85, 107, 194, 242, 252. Influenza in Seistan, 171. Insects in the desert, 184. Inundation, yearly, 152. Irrigation expert, the, 222. - methods of, 60, 115, 135; water for, 240. Irvine, Major, I.M.S., 196. Jackal, a mad, 191, 192, 200. Jackals, 117. Jacobabad, 4. Jahan Beg, 129. Jalk, 4, 8. Jallalābād, 110, 155, 194. Jālwar, fortress of, 10-11. Jamok the Luri, 9. Jän Beg, 84, 86. Jehannam, 84, 107, 174-177. Journey, a plucky, 125. Jungle, tamarisk, 68, 70, 104, 108. Kabul, 16, 238, 240; Mission to, in 1893, 26. Kacha Kuh, 35, 77. Kadanai, 240. Kad Khudas, 219, 222, 225. Kaiānian race, the, 119. Kai Khasrau, 119, 163,

Kala Bist, 73, 241. Kali-i-Dukhtar, 138. Kala-i-Fath, 105, 106, 107. - (village), 99. Kala-i-Kang, 130, 132. Kalat, 4, 21. Kamāl Khan, 89. Kambarān, 52. Kandahar, 6, 72, 240. "Kang," meaning of, 132N Kāni, 53. Karachi, 4. Karez, the, 174. Kārguzāh, the, 206, 207, 227. Kārku, mound of, 137. Kārkuieh, 136. Kāsamābād, 200. Kasauli, Pasteur Institute at, 200. Kerosene oil tins as water tanks, 181. Khānishin hill, 56, 60, 62, 76, 77. Khārān, 5, 8, 9, 11, 18, 22, 52, 93. - the wind of, 60. Khāsh, oasis of, 243. - River, the, 129, 139. Khuspās Rud, 243. Khorassan, 1, 4, 162. Khwabgah, 113-116. Khwāja Ali, 66-68, 70-73, 241. Kirman, 4, 89. Kirtākāh, 34, 35. Kishingi, 51. Kohlak, mound of, 138. Kora Gaz tree, 87, 229. Koshk-i-Dukhtar, 120. Kuhak, fort of, 114, 115, 224. Kuh-i-Chagai, 52. Kuh-i-Dalil, 77. Kuh-i-Khwāja, 42, 195, 247. Kuh-i-Kuch, 191, 245. Kuh-i-Malik Siah, 33, 38, 41, 42, 79, 180, 187. Kuh-i-Safed, 18. Kuh-i-Sultān, 19, 43, 77. Kul-Helots, the, 236. Kullah, the national cap, 128. Kuls, the, 227. Ladgasht, palm groves of, 18. Lady Masumä, the, 235. — Mayor, a, 235. Läkari, 114. Lake area, cultivation in, 249. — basin, 186, 189, 191. Lalla, depression of, 174. Landi, 65.

Landi Muhammad Amin Khān, 58-60. - of the Barechis, 72, 92. - Wali Muhammad, 82. Landmarks, important, 43, 73. Langar-i-Sultan, 20. Larks, desert, 183. Legend of a green dragon, 13-14; of Pir Sultān Weis, 19, 46, 47; of the "Maiden's Bower," 120; of the Malik's daughter, 229. Levies, the, 12, 78, 189. Lijji Spring, the, 14. Locks, ingenious wooden, 88. Lockwood, Captain R. B., 4, 5, 43. Lorā Defile, 17, 18. ---- Hāmun, 16, 18, 29. ---- River, 16, 17, 28. Lunatic, a harmless, 140. MacGregor, Col. C. M., 4. - Sir Charles, 43, 162. Mackenzie, Captain R. J., R.E., 27. McMahon, Sir Henry, 5, 26, 27, 28, 33, 49, 51, 72, 79, 97, 140, 142, 177, 179, 187, 202. Mad Animals, narrow escapes from, 192. — horse, attack by, 199. - jackal throttled, 200. - wolf, narrow escape from, 197. wolves, animals bitten by, 199. Mail rider, holding up of a, 203. Maiwand, battlefield of, 9, 22. Māla Khān, 66, 67; fort of, 64, 65. Mālak Dokand, 30, 31, 32, 77. - Nāro, 32, 77. Malaki, 144. Malcolm, Sir John, 3. "Malik," 41. Malik Azim Khan, 163. — Jallalúdin Khan, 156. — Kutb-ud-din, 229. – Siah Kuh, 26. Malik's daughter, 121. Maliki, 146. Manor houses, remains of ancient fortified, 80. Manzil, 45–47. Map, Khan Bahadur's, 177. March, a cold, 53; a terrible, 35-39. Margo ferry, 144. Marriageable girls, buying of, 234. R

# FRONTIERS OF BALUCHISTAN

Māshi, 104, 108, 198. Māshkel Hāmun, 4, 8, 9, 18. Masjid Cathedral, 120. Matches, scarcity of, 248. Mattock, the Seistani, 134. Maynard, Captain, 33. Mejlis, or assemblies, 219. Melons in the desert, 174, 181. Memorials, sad, 55. Menu, a Persian, 210. Merv, 125, 126. Meshed, Seistan wind at, 162. Meski plateau, 104. Metal work, 231. Miān Kangi, 116, 133, 136, 137, 139, 142, 144, 146, 151-159, 171, 177, 189, 192, 215, 216, 220, 223. Milak, 158. Minto, Lord, 3. Mir Ab, the, 222. - Gul, plot against, 141. - Sābik, 8. Mirābād, headland of, 96. Mirage, salt, 19. Miri peak, 77. Mission, 26, 49, 53, 68, 73, 79, 86, 104, 107, 116, 120, 121, 122, 133, 146, 177, 189, 192, 193, 196, 201, 202, 203, 204, 206, 207, 227, 252. — at Rudbār, 78. — British officers of the, 33. — camps, the, 113, 166. - farewell banquet to the, 208; few casualties among the, 173, 178; in Seistan, 94, 109, 160; introduction to the Akhundzäda, 89; of 1872, 123; of 1894-6, 27; of 1896, 41, 79; of 1903-5, survey work of, 179; route of, in 1885, 67; Seistan, 42, 51, 94, 160, 215; split up of the, 53; work of the, 161. Mission's escort, 105. Mohi-ud-din, 173-177. Money, silver, scarcity of, 227. Monolith, a vast, 43-44. Mortar, clay, 106. Muhammad Amin Khān, settlement of, 57. - Reza Chah, 187, 189. - Khān, 188, 214, 247. Mulberry trees, 70, 87, 88, 155. Mulla Barfi, 168. Murād Khān, 51. "Mustansir-ud-Daulah," 209.

Nād Ali, 116-122, 126, 128, 136-139 228, 243; mad jackal at, 193. Napoleon Buonaparte, 3. Nārui Sardar Said Khan, 157. ----- shepherds, 46. Nasratābād, 127, 163, 205-6, 210. Nauroz, the, 168, 224. Naushirwan the Just, 101. Neh, 138. Neza, 43-44. Neza-i-Sultān, 77. Nitre-coated glen, 46. "Noah, year of," 245, 246. Nomad tales, 12-14. Nomads, encampment of, 54; scanty dress of, 6. Nushki, 1, 3, 4, 51, 52, 53, 70, 162, 203, 214. Opium used in Seistan, 226. Ovens, native, 215. Padag, 81. Pādzalok, 96-101. Pagos, 220-222, 249. Palangān Kuh, 138, 186. Palchota, 52. Panorama, 76, 77. Panther Mountains, the, 186. Pariun, the, 122, 144, 147, 149, 156-159, 215, 217, 220, 224, 245. Partridges, Black, 68, 116. Pasteur Institute at Kasauli, 200. Pattinson, Lieut., 66. Persia, 1-5, 16, 50, 51; frontiers of, 4, 16, 26, 49, 130, 133, 180. Persian education, standard of, 208. ---- Government, the, 228. ---- Gulf, 4. ---- officials, 208, 209; problem, 2. - Resident, the, 208, 209, 227. Petroleum, Russian in Seistan, 181. Pig, wild, 116, 144–146. Pillar, an old memorial, 96. Pillars, boundary, 41, 79, 187. Pillau, a sweet, 208. "Pilu," 41. Pir Sultan, Legends of, 46-48. - Weis, 19. " Pisé," 106, 231. Plague-ridden country, a, 169. Plateau, a cold, 28; a waterless, 57; barren, 159; rifts torn in, 163; theory of fracture of, 59.

Pollock, Colonel, 57. Pomegranates, 155. Pool of Manzil, 45–48. Popalzai landlord, the, 58. Population of Seistan, 223. Postal service, 203. Pottery, 80, 231. Pottinger, Lieut. (afterwards Sir Henry), 4, 5. Prayer-carpets, Seistani, 121. "Priestly families," the, 228. Prince of Seistan, legendary, 113. Princess, a capricious, 120. Pyrœum, a famous, 98. Quetta, 1, 9, 12, 16, 22, 28, 49, 51, 144, 203. Rabāt, 30, 31, 32, 33, 44-45. Rabies, epidemic of, 191-199. Rafts, 72, 112. Raids, 5, 124, 125. Rainfall, scanty, during 1895-6, 32. Rās Kuh, 52. Ravens, 103, 183. Rawlinson, Sir Henry, 66. Reclamation, land, 154. Reed-beds, 135, 139, 248. Refraction, a disappointing, 74. Relic-hunters, professional, 121. Religious beliefs, 228. Reminiscences, 77. Reuter's daily telegrams, 203. Revenue tax, 221. Ride, a night, 99. Rifles stolen from Kandahar. 10. "River of the Desert, " the, 97. River-beds, ancient, 38, 136. Rock-gauge, natural, 245. Rodin, 90. Rud, or, the River Valley, 89. camels of the, 93; memories of, 90. Rudbär, 74, 79, 84, 89, 90, 241, 251. Rud-i-Biyabān, 95, 167, 185, 188, 251. Rud-i-Gaz, the, 244. Rud-i-Kuchk, the, 247. Rud-i-Pariun, the, 132, 135, 151-155. Rud-i-Seistan, the, 223, 224, 242; canal, the, 114. Ruins, agriculture among, 74, 80; ancient, 98, 137; near Rudbār, 80; of Jallalābād, 156; of Sarotār,

107.

Russian influence, extension of, 2. Rustam, a legend concerning, 113. - City of, 96-99. - the famous weir of, 251. --- weir, 91, 120. Saddlebags, 234. Said Khan, 158. Saida, 176. Saindak, 34. Saint, an influential, 47. Sakzais, 139. Salihān, pools of, 54. Salt collected by caravans, 19, 21. - mirage, 19; springs, 242. Saltpetre extracted from ruins, 119. Salvadora persica, 41. Salyx babylonica, 81. Samuli peak, 30. Sand blast, a natural, 163. Sandeman, Sir Robert, 515. Sanjarāni chief, 82, 142; immigrants, 129. "Sarais" along the trade routes. 30. Sardar Gul Mahommad Khan, Afghan Commissioner, 27. - Sharif Khan, the rebellion of. 154. Sarfarāz Khan, 5. Sarotār district, the, 174, 249; ruins of, 107, 121. 230. Sārunis, 135. Sāwari Hāmun, the, 191, 244. - Shāh, 190. Scenery, mountainous, 77. Seals, intaglio, 230. Seeds of Bulrushes, clouds of, 194. Sehkuha, 188. Seiāds, 145, 148, 150, 228, 236. Seif-ud-din, 201. Seistan, 1, 2, 7, 41-42, 49, 57, 66, 70, 84, 88, 92, 102, 104, 132, 133, 135, 141, 155, 160, 165, 187, 191, 202, 204, 211, 217,  $\frac{1}{100}$ 235; Alsatia 220, 230, of, 157; anarchy in, 224, 231; as a museum, 160; average rainfall in, 168; barter in, 227; building in, 106; camels of, 93; canals in, 90, 159, 223; capital of, 152; cattle of, 123; conquered by Arabs, 250; delta of, 123; dialect, 249; disputed ownership of, 50; droughts in, 123, 247; dust in, 164; famine in, 123; floods in, 121, 246; high priest

of, 207; Inferno of, 107, 174, 194, 242, 252; influenza in, 171; insects in, 169, 170, 205; invasion of, 105; legendary Prince of, 90, 113; Maliks of, 128; native's history of, 145; Persian, 236; plains of, 83; population of, 161, 223-224; revenues of, 209; river of, 224; Russian petroleum in, 181; snow in, 168; survey work in, 179; trees in, 118; weavers of. 232; wind of, 61, 161, 163; windmills in, 169; wines in, 210. Seistan Lake, 35, 42, 96, 106, 129, 243-245, 251; altitude of, 16; shrinkage in the, 136; subsidence of, 250; boundary through, 50; catchment area of the, 237; cultivation in the bed of the, 248; deposit of silt in the, 250; future position of the, 252; sailing on, 202; water flowing into the, 247. "Seistan, City of," 246. - Smoke of," the, 167. Seistani, the, 122, 149, 171, 226. Seistanis, dwellings of, 216. Sena Rud, 102, 182, 184, 186. Shah-Godar, 4. — Jahan, Grand Mogul, 105. — Sawār, 12. ---- Sulemān, murder of, 9. Shahristān, 157, 215, 216, 220, 221, 223. Shām-i-Mukhtasar, 207. Shamsābād, hamlet of, 102. Sheeraz, 4. Sheikh Husen, 52. Weisi, 193, 194, 200; township of, 192. Shela, stories of the, 73. - River, 35, 37, 39, 40, 247. Sher Muhammad, 143, 144. 62 Shiahs, 228. Shorāwak, 18, 28, 60, 92. Shrine of Bibi Dost, 193, 200, 204. - sacrifices at a, 204. Shrines, 14, 40-42, 48, 205, 228; trophies at, 69. Siāhdak, 142, 144, 145, 146. Siksar, the, 119, 132, 133, 134, 135, 155. 157. Silver money, scarcity of, 227. Skirmish, a short, 78. Slave-boy musician, an escaped, 22. Slaves, trade in, 6.

Smoke, a pall of, 167.

Snake-bite, 47.

- Snow, heavy, 195; in Seistan, 168. Sork-Kuh, 77.
- "Sprite of the Black Hills," 42. "Staff," a giant's, 44.
- Sultāni Canal, the, 115.
- Sunni doctrines, the, 228.
- Superstition, a strange, 199.
- Survey officer, 49; work, early, in 1886-7. 16.
- Takht-i-Shah, 139, 140.
- Tamarisk, 41, 73, 87, 116, 128, 134, 136, 137, 150, 182, 190, 216. a causeway of, 226; fuel, 88; great size of, 104; in blossom, jungle, 117, 118, 153; 138, 147, 152, 192.
- "Tamarisks, place of," 84, 174.
- Tamerlane, 251.
- Tarnak, the, 240.
- Taxes, farming of, 222.
- Teal, 183.
- Telegraph station, nearest, 203.
- Temperature, 39, 53, 54, 167, 193, 195.
- Tents, effects of friction on, 162.
- Terraces, a peculiar colour, 56.
- Thieves, fight with, 78; trail, 102.
- Thirst, deaths from, 55; sufferings from, 37–39.
- Timur Leng (Tamerlane), 91, 224, 229. 230.
- Tod, Major, 239.
- Tombs as shelters, 65.
- Trade of Seistan, 5.
- overland with Persia, 1.
  - restricted nature of, 227.
- Trade route, 1, 3, 30, 51, 53, 188, 203, 214, 247.
- Trākun, 96–99.
- Transport, great mortality amongst the, 171; train missing, 64. Travertine, 32.
- Treasure-seekers, professional, 107. Turkomans, "Alamans" of the 124; a raid by, 125.
- "Tutins," 112, 148, 151, 248.
- Typhus, heavy mortality from, 170.
- Unexplored country, 179. Uniforms, old British, 126.
- Vegetables, 127. Vegetation, 57, 128; luxuriant, 115; parched, 99, 182; wild, 165.

# INDEX

Ventilators, use of, 217.
Views, extensive, 75, 128, 138.
Village garden, the, 218; street, the, 218.
Vines, destruction of, 155.
Viper family, 47.
Vultures, 103, 117.

Wali Muhammad Khan, 92. 142. Wanliss, Major, 133, 140, 143, 152. Ward, Mr. T. R. J., 96, 97. Warmāl, 188. Water in the desert, difficulty of carrying, 180; provision for, 181; scarcity of, 33. Water-skins, repair of, 181. Weaving, carpet, 232. Webb-Ware, 53. Webb-Ware's Jemadar, 94. Weir, a temporary, 114; building of the, 225. - of Rustam, the famous, 50, 90, 242, 251. Wells sunk, 188. Wild fowl, 28; migration of, 183.

Wind, a terrific, 196; fierce northwest, 107; wearing effect of, 163. "Wind of 120 days," the, 35, 88, 162, 165–169, 202, 250. Wind-storm, 197. Windmills in Seistan, 169. Winds, prevailing, 60-61. Willow, the Babylonian, 81, 88, 190. - trees, 87, 118, 144. Wolf, a mad, 197; a tame, 214. "Yak Gumbaz," 185, 187. Yakub the Brigand, 157. "Yamin-ul-Nizām," the, 209. Yazdān, 124. Zāhidān, ruins of, 138, 152, 159, 163, 169, 229, 231, 246; plateau of, 205, 224, 242, 251. Zāru, 53. Zeh, plains of, 34. Ziarats, 228. Zireh, hollow of, 95. Zoroaster, 229. Zoroastrian Tower of Silence, 96.

