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**BALUCHISTAN DISTRICT GAZETTEER SERIES.**

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**VOLUME I.**  
.....

**ZHOB DISTRICT.**



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## P R E F A C E.

THE Zhob District, which borders on Afghánistán, originally comprised five tahsils, Fort Sandeman, Kila Saifulla, Hindubágh, Músa Khél, and Bori; of which the last two were transferred to the new District of Loralai in 1903. The present volume, therefore, deals mainly with the remaining three tahsils, but occasional reference has had to be made to the other tahsils also.

The material for this volume was collected and arranged by Rai Sáhib Jamiat Rai, assisted by the Gazetteer staff. After revision by me, the draft was finally examined and passed by Major A. McConaghey, Political Agent, Zhob, whose knowledge of the District is extensive. Owing, however, to the limited time which remained for the completion of the work, both revision and examination had to be somewhat hurriedly carried out.

In many instances where the conditions of both Districts were exactly similar, a good deal of the material has been reproduced, with the necessary local adaptations, from Mr. Hughes-Buller's Gazetteer of the Quétta-Pishín District and use has also been made of his report on the Census of Baluchistán, 1901. Much information has been derived from the Administration Reports of the District from 1890-91 written by the various Political Agents who have held charge: from the reports on our dealings with the Jogizai family by Major McMahon, C.S.I., C.I.E., Major Archer, C.I.E., and Major Showers, C.I.E., and from the Settlement Reports of the Kila Saifulla and Hindubágh tahsils written by Khán Bahádur Mír Shams Sháh and Kázi Abdulla Ján.

A bibliography will be found at the end of this volume giving other works made use of in its compilation. The section on Forests was revised by Bhai Sádhu Singh, Extra Assistant Conservator of Forests in Baluchistán; and the articles on Geology, Coal and Chromite were kindly contributed by Messrs. Vredenburg and Tipper of the Geological Survey of India.

Thanks are due to the local officials for the assistance they have so willingly rendered and especially to Lála Bhág Mal, Extra Assistant Commissioner, Lower Zhob.

C. F. MINCHIN, MAJOR,  
*Superintendent, District Gazetteers,*  
*Baluchistan.*

QUETTA, December, 1906.

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## CHAPTER I.—DESCRIPTIVE.

The District of Zhob is situated in the highland part of Baluchistán, forming the north-eastern corner of the province under direct British administration, between the basin of the Indus on the east and the watershed between India and Central Asia on the west. It lies between north latitudes  $30^{\circ} 32'$  and  $32^{\circ} 4'$ ; and east longitudes  $67^{\circ} 27'$  and  $70^{\circ} 3'$ . Its greatest length from east to west is about 160 miles and its breadth from north to south about 88 miles. The total area of the district is 9,626 square miles.

PHYSICAL  
ASPECTS.  
Situation and  
dimensions.

The District, as at present constituted for administrative purposes, takes its name from the river Zhob, which, rising to the east of the Pishín valley traverses the District from its south-western corner to its north-eastern extremity, where it joins the Gomal.

Origin of  
name.

The District is bounded on the north and north-west by the Frontier Province and Afghánistán; its eastern boundary is marked by the Sulaimán range, and the Loralai and Quetta-Pishín Districts border it on the south and west, respectively.

Boundaries.

The northern boundary was demarcated in 1894-95 by a joint Afghán and British Commission, Captain A. H. McMahon (now Major Sir Henry) being the British Commissioner and is fully detailed in the joint Agreement\* dated the 26th of February, 1895, an extract from which is printed in appendix I.

The general direction of the boundary runs in a zigzag line due west to its termination at a point where it meets the northern boundary of the Quetta-Pishín District close to the junction of the Pseín Lora and Tokarak rivers.

From Domandi, where the Gomal and Kundar rivers meet, the boundary runs along the watercourse of the latter

\* *Administration Report of the Baluchistán Agency for 1894-95.*

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ASPECTS.

to its junction with the Kandl river, thence along the Kandl to where it is joined by the Sharan Toi. From this point the bed of the Sharan Toi river marks the boundary north-westwards for about one and a quarter mile where the first pillar has been erected. The rest of the boundary encloses on its south, a part of the District which is mostly plain and which is included in the tract locally known as Khurásán. From the first boundary pillar to pillar No. XIV erected on the east bank of the Kand river between Inzlan and Multani hills, the line passes through almost plain country. The principal peaks on which pillars have been erected are situated in the Pinakai, Sháh-ghar and Sra-ghar ranges. From pillar No. XIV the boundary is defined by the centre of the river bed of the Kand to its junction with the Loe Wuchobai *nullah*, whence the boundary runs first due south and then eastwards as far as the Pinakai plain where it crosses a long range called the Nakhás hills to the south and running in the same direction again takes a sharp turn westwards till it joins the Pseín Lora.

The portion of the northern boundary between the Zhob District and the Punjab, from Domandi eastwards to Khajúri Kach had already been definitely fixed by the Government of India in October, 1890, it being laid down that the Gomal river between Domandi and Khajúri Kach should be recognised as the boundary line between the Baluchistán Agency and the tribal country under the management of the Punjab.

Eastern  
boundary.

The north-eastern point of the boundary having been fixed at Khajúri Kach, Lieutenant A. H. McMahon from Baluchistán and Mr. L. W. King, Deputy Commissioner, Déra Ismáíl Khán, were deputed to lay down the eastern boundary. They, however, differed on various points and Messrs. King, Donald, and Grant from the Punjab and Lieutenants McMahon and McConaghey from Baluchistán subsequently met to settle the first section of the boundary.

## BOUNDARIES.

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PHYSICAL  
ASPECTS.

The joint proposals submitted by these officers were accepted by both the Punjab and Baluchistán authorities, and were finally approved by the Government of India in February, 1894. The boundary was defined to run from Khajúri Kach along the east bank of the Zhob river to the Zarmelán ravine, thence in a south-easterly direction along the main or northern branch of the Zarmelán *nullah* to the Ziárat peak (7,232 feet) and along the watershed of the Ziárat, Branj, Pisgah, and Shínsar range to a point beyond Shínsar whence it was to leave the crest of the main range and descend the spur which forms the watershed between the Khwája and Trikha Chaprezi *nullahs* with their respective affluents, to the junction of the Viastah *nullah* with the Zao stream thus leaving the former entirely within the Punjab jurisdiction. The boundary from this point onwards was in dispute between the Bargha Shíránis on the Baluchistán side of the border and the Largha Shíránis on that of the Punjab, and was not then further demarcated. In March, 1895, Mr. Gee, Deputy Commissioner, Déra Ismáíl Khán, and Captain Archer, Political Agent, Zhob, met at Mughal Kot, and after enquiring into the disputes, submitted joint proposals which were approved by the Government of India. The boundary fixed upon runs from Viastah *nullah* southwards along the Narai-ghar range to the Gat pass, then it passes the peaks of Abeshti Sokai and Tor Sar to the Khaisa-ghar range, then along the Pezai Kotal (8,800 feet) ridge to the Kotal at the head of the Khiáderzai Dahána. Thence, leaving the maidán in the Largha country, the boundary runs south-south-west following the crest of hills called the Zarghún Zawar and Surwalai to the Manai or Wala Narai. A little south of this point, the line runs east of the Wala village including it in the Bargha country and leaving the Zawar Kár village in the Largha country. From the Surwalai hills the boundary runs in an easterly direction through the Wala or Punga Narai till it reaches the Sháh or Salat ridge down which it passes south into

PHYSICAL  
ASPECTS,

the Chúhar Khél Dabána, where the boundary line is marked by a large rock in the bed of the stream called Katao Dabara. From this point the Loralai District commences and the further description of the Punjab-Baluchistán boundary will be found in the Gazetteer of that district.

The boundary between the Zhob and Loralai Districts has not been demarcated, but runs roughly in a southerly direction with the western strike of the Tor-ghar range of the Sulaimán mountains and extends as far as Bagha locally known as Tap, at which point it takes a westerly course and follows the line of the Lwara watershed, continuing through the range of hills locally known as Satiára, to the Razana river. Here again it runs due south in almost a straight line, leaving the Kashmír, Landián, Ali Khán Kili, and Ali Ahmad villages to its west, after which the line of boundary runs roughly with the western slopes of the Súr range of the Sulaimán mountains to its termination at the source of the Machlaman river.

Southern  
boundary.

The southern boundary has not been defined. It runs from Machlaman in a south-westerly direction to Sori (about 20 miles), thence due north for about 7 miles, whence it follows a westerly direction passing the watershed of the Churmi-ghar until it joins the Loralai-Quetta-Pishín boundary near Súrghund (about 102 miles).

Western  
boundary.

The western boundary, which has also not been demarcated starts from Súrghund, takes a sharp curve first to the north and then west along the watershed of the Zoi hills east of Yúsaf Kach or Kats (about 20 miles). From near Murgha Mehtarzai at the village of Kánr Mehtarzai which is in the Hindubágh tahsíl, the line follows the watershed between the Zhob and Barshor rivers round the head of the Kamchughai valley in Zhob down the ridge between Murghakai and Shamshob to Tál in the Bábu Chína valley. The chain of Kand mountains thus marks the boundary northwards, which

## CONFIGURATION.

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after running through the Bábu Chína valley and crossing the Sakír range turns due west. From this point to the Kadanai river the boundary is recognised on tribal lines, all Taraghara and Súr villages being considered as belonging to Pishín, while all Mírzai villages are held to be in Zhob.

PHYSICAL  
ASPECTS.

The greater part of the District is covered with hills Configuration, intersected on the south by the great valley of the Zhob and on the north by the smaller valley of the Kunder and its tributaries. The Zhob valley is an immense stretch of alluvial plain, extending from the Tsari Mehtarzai pass, the watershed between the Zhob and Pishín valleys, in the form of a crescent to the Gomal river, and contracting considerably near its north-eastern extremity. Numerous small valleys run up from it into the hills on either side, the most important being Haidarzai and Ismailzai. To the north of the valley there rises a wide belt of remarkably bold hills. Unlike the hills to the south of the valley, these hills do not consist of a series of parallel narrow ridges, but rather of a chain of almost distinct mountains, some of the heights of considerable relative elevation, yet preserving a general parallelism in their strike. Among these mountains, are situated the valleys of Sharan and Khaisor, and to the north of the latter again lies the considerable valley of the Kunder, which extends from near the Arghasán watershed first eastwards and then north-eastwards till its drainage reaches the Gomal river. (*N.-W. F. Gazetteer.*)

The country between the Gomal and the Kand peak which is drained by the Kunder and Zhob rivers is known from its inhabitants as Kákar Khurásán.

The following description of the northern portion of the District has been extracted from Sir Henry McMahon's paper,\* "The Southern Borderlands of Afghánistán":—

"The general characteristics of the country may be described to consist of barren hills and mountain ranges and vast open plains, where, in most cases, either want of

\* *The Geographical Journal*, Vol. IX, No. 4, 1897, page 393, et seq.

## PHYSICAL ASPECTS.

water or the unsettled state of the people has prevented the cultivation of the soil. Rocks and stones, varying from the size of the huge gigantic boulders on the mountain sides to that of the small pebbles and shingle of the strands of the dry torrent beds, cover the greater portion of the surface of the country. Refreshing green oases here and there, sometimes in the form of green wooded valleys with rippling streams of pure water, sometimes in forest lands along the high mountain tops, sometimes in the form of extensive tracts of rich cultivation in wide valleys and plains, break the monotony of the vast wastes around, and afford a relief to the eye and a pleasure to the senses which none but travellers in that country can fully realize. Very interesting natural phenomena to be seen in the Kunder valley, are the mud volcanoes at Khut Kanda. These curious volcanoes are situated on a neck of high ground on the south bank of the Kunder river, and are of a thick liquid mud, which comes bubbling up from below, and every now and again surges over the crests of craters which vary from 2 to 30 feet in diameter inside. The mud deposited by this overflow forms into the hard rock of which the outer slopes of the craters are formed."

On the south of the Zhob valley and at an average distance of about 12 miles, a succession of parallel ridges running from north-east to south-west divides the drainage of the Zhob from that of the Bori valley in the Loralai District.

In the north open plains occur such as that of Girdao east of Spéra-ghar, Zari Dagar, Loe Dagar, Gardai Zangal, and Késhatu.

Hill ranges. As already mentioned, the District is intersected with hills in all directions, the Sulaimán range lying to its east; the Toba Kákar range in the north, centre, and west; and offshoots of the Central Bráhui range in the south.

## Sulaimán range.

A range of mountains ( $28^{\circ} 31'$ ,  $32^{\circ} 4' N.$ ;  $67^{\circ} 52'$ ,  $70^{\circ} 17' E.$ ) some 250 miles long, lying between the Gomal river on the north and the Indus on the south, and separating the



## HILL RANGES.

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PHYSICAL  
ASPECTS.

North-West Frontier province and the Punjab from Baluchistán. Its backbone consists of a main ridge running north and south, flanked on the east by parallel serrated ranges. These parallel ranges may be said to begin at the Ghwailíára pass in the north-east corner of Zhob, where the Gomal river runs through the range. At this point there are two ridges, but further south their number increases especially in the vicinity of the peak called the Takht-i-Sulaimán. These ridges run north and south, having between them long narrow valleys. On the Baluchistán side these flanking ranges gradually take an east and west direction to meet the Central Bráhui range. The greatest height of the range is about 11,300 feet, the elevation gradually decreasing to the southward. The following description of this range is taken from Sir Thomas Holdich's "India":—

"From the Gomal River to Jacobábád there stretches one continuous chain of mountain peaks, which, although now distinguished by many local names, may well be known under their ancient designation of Sulimáni. They are, and they have ever been, through the ages of an immense past, the original habitat of the Pakhtún or Pashtú speaking mountaineers whom we now call Patháns. The Sulimáni system is not a water parting; it is not a central divide that throws off the beginning of a great system of drainage east and west. The slopes of the Sulimáni hills, both east and west, drain equally to the Indus, and it is the drainage of the western slopes that, turning suddenly and bursting through the main chain of central limestone ridges, forms those terrific gorges and rock-bound mountain gates which are our only means of access to the traversable valleys of the western plateau. The main Sulimáni ridge, which is the dominating feature of the Indus frontier south of the Gomal, lies back from the foot of the hills some 30 miles — which 30 miles of gradual descent from the plateau to the plains is packed close with narrow, rugged, sun-scorched, treeless ridges, composed

PHYSICAL  
ASPECTS.

chiefly of recent clays and conglomerates, which preserve an approximate parallelism in their strike, likening the whole system to a gigantic gridiron. Narrow little 'subsequent' valleys between these sharp-backed ridges contribute an intermittent flow of brackish water to the main arteries; and these again, as before described, break transversely across the general strike of the minor ridges ere they debouch into the Indus plain." \*

The geological formation of the southern parts is distinct from that of the north. In the former, sandstones, clays, and marls predominate; in the latter, pale marine coral limestone rests on cretaceous sandstone. Petroleum has been worked in the Marri hills.† On the southern slopes vegetation is scarce; in the central part olive is abundant; further to the north the higher elevations are covered with edible pine (*chilghoza*). In this part of the range there is much magnificent scenery of which the extraordinarily narrow gorges constitute the most striking feature. These clefts afford a means of communication with the Punjab, the principal routes leading from the Zhob District being through the Záo, Gat, Khiddarzai Dahána, and Chúhar Khél Dahána passes. Straight-horned márkhor are to be found at the higher, and mountain sheep at the lower, elevations.

Takht-i-Su-  
laimán.

The highest point of the range is known to Europeans as the Takht-i-Sulaimán (Solomon's Throne), but to the natives of the country as Kase-ghar or Kaisa-ghar. The actual *takht* or throne is described by Sir Thomas Holdich as a *ziúrat* or shrine‡ situated on a ledge some distance below the crest on the southernmost bluff of the mountain.

"The mass of the Takht itself may be described as a high tableland, about 8,000 feet above sea-level, bounded on its east and west margins by high rims formed by parallel ridges of rugged and steep outline. The western ridge

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\* *India*, by Colonel Sir Thomas Holdich (1904), pp. 36-37.

† In the Sibi District.

‡ A detailed account of the shrine is given under **Population**.

## HILL RANGES.

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presents the highest peak or Kaisa-ghar (11,300 feet) and the eastern culminates in the celebrated Takht-i-Sulaimán (11,070 feet). This tableland, with its two parallel rims, is altogether formed by a huge cap of coral limestone." (Griesbach's Geology of the Takht-i-Sulaimán).

PHYSICAL  
ASPECTS.

The two ridges which are about 10 miles long and 1 mile apart have, about the centre of the valley between them, a plateau called Maidán with an elevation of 8,950 feet. The northern drainage of this area finds its way through various hill-torrents into the Lahar known also as the Khaisára stream, which eventually runs through the Gat pass to Drában in the Déra Ismáíl Khán District, and the southern water drains into the *nullah* known lower down as Dahána Khiddarzái.

The Záo Tangi is a defile, in the Sulaimán range, and runs between perpendicular precipices of limestone rock rising above it 2,000 feet. The average width of the defile is 30 to 40 yards, but in places it narrows to 10 yards. Its general direction is right across the main ridge of the Sulaimán mountains, but it winds a good deal, varying north-north-west to south-west. The ascent throughout is gradual. The defile is noted for a formidable obstruction in it, about  $3\frac{1}{2}$  miles from Gandera Kach, known as Sarái or *dabara* rock. This is an immense rock worn smooth and almost spherical by the action of flowing water. It is about 30 feet in diameter, and placed in the middle of the defile, raised on a bed of smaller boulders and stones to a height of 10 feet above its bed on its lower or east side; for there is a difference of 30 feet in the height of the bed of the defile, east and west, or below and above rock. There is no passage except to the north of the rock, and this is only 4 to 6 feet in width, and the ascent from the lower level to the higher being almost perpendicular has to be ramped—a task requiring a great deal of labour. Only lightly laden animals can get through

The Záo  
defile.

PHYSICAL  
ASPECTS.

the passage. The elevation of the Sarái rock above sea level is 3,000 feet. After passing this rock, the defile presents no great difficulties. Throughout the pass, water is to be found at all times in the Záo stream, and in springs gushing out from the limestone rocks, some of which are warm springs; but the water is more or less saline. (*N.-W. F. Gazetteer.*)

The Gat  
defile.

The Gat defile is a gap in the Sulaimán range, only a few yards wide, with perpendicular sides of limestone rock, about 2,000 feet high. The bottom of this passage is of gravel and rock, and is covered from side to side with water  $1\frac{1}{2}$  feet deep, and in many places there are large boulders. A path fit for footmen runs through this passage to Drában, 30 miles from the east end of the defile. For about  $1\frac{1}{2}$  miles down the Gat the path follows the gravel bed of the stream through water all the way, for the next 4 miles it leads over boulders and slippery rock, and is very difficult. At the end of this distance the path makes a detour over bare rock to the right hand side, the ascent and descent of which are not deep, but very slippery. In the defile, in many places, foot-people have to pass from boulder to boulder on account of deep pools here and there in the bed of the river. (*N.-W. F. Gazetteer.*)

Cháhar Khél  
Dahána  
pass.

A very direct pass from the Zhob to the Déráját. The actual length of the gorge, which gradually narrows to 20 yards and in places to a few feet, is about 4 miles. The enclosing limestone cliffs are high and precipitous, rising perpendicularly some 1,500 feet. The bed of the stream is full of gigantic boulders and in the pass are a number of waterfalls from 6 to 10 feet high, with steep limestone rocks on either side. A road was made through the pass in 1894-95 and completed during 1895—1905.

Subsidiary  
Ranges. Shín-  
ghar.

A range situated in Lower Zhob to the west of the main Sulaimán range and separated from it by the Lahar or Khaisára valley. It extends from Kachbína on the north to the Siliáza valley on the south. The main peak

of the range (9,273 feet) is also called Shín-ghar. It is about 30 miles from Fort Sandeman and almost due west of the Takht-i-Sulaimán. The top is fairly level and affords a pleasant site, which is used as the sanitarium of the District during the summer months. The hill is well wooded with *chilghoza*, or edible pine and mountain ash. The water supply, though good, is scanty. The western slopes of the range drain into the Zhob river, and the eastern into the Khaisára stream. Paths from the Zhob valley lead through the range along the larger water courses, the principal ones being viá the Khwáza pass or viá the Chachobi *nullah* to Kuria Wasta in the Khaisára valley. These routes are fairly practicable by camels and the local bullocks. Of game, márkhor and mountain sheep are fairly numerous. The villages on the western slopes are occupied by Harfpál, and those on the east by other Shíránis.

The Torghar, the highest peak of which is Charkundai <sup>Torghar.</sup> (7,517 feet) lies between the Músa Khél Sahara on the east and the Gosa plain, in Zhob, on the west. It is a continuation of the southern hills of the Sulaimán range. Further south it is known as Súr-ghar, and there separates the Músa Khéls from the Kibzais of the Fort Sandeman tahsíl.

The eastern drainage flows into the Músa Khél country, while that to the west runs into the Siliáza and Sawara streams. The drainage of the Súr-ghar flows into the Sehán and Tangisar streams. Besides the bridle-paths leading from Fort Sandeman and Murgha Kibzai to Músa Khél through this range, a detailed description of which will be found in Chapter II, paths lead—(a) from Gosa plain by Kili Háji Ahmad to Sahara Músa Khél through the Sra Kháo stream and over the Gardai Zhara hills; and (b) the principal caravan route from Kibzai Sahara through the Adozai village, Narghosa, Kili Faizulla, Bábal Kakshai *nullah*, and Pazhai hills. The vegetation of the hills consists of the olive, pistachio, and wild almond.

**PHYSICAL ASPECTS.** A mountain range (  $30^{\circ} 22'$ ,  $32^{\circ} 4' N.$ ,  $66^{\circ} 23'$ ,  $69^{\circ} 52' E.$  ) in the Zhob and Quetta-Pishin Districts of Baluchistan which forms the boundary between Baluchistan and Afghanistan and at the same time the watershed between India and Central Asia. It is an offshoot of the Safed Koh, with three parallel ridges gradually ascending in a south-westerly direction from a height of about 5,000 feet near the Gomal to the peaks of Sakir (10,125 feet) and Kand (10,788 feet) in the District. Running in a general south-westerly direction in the Quetta-Pishin District it continues under different names until eventually it merges into the Central Makran range after a total length of about 300 miles.

Toba Kákar range.

The higher elevations consist of wide plateaux intersected on either side by deep river valleys. In winter the cold on these wind-swept plains is intense. They are covered thickly with the small bushy plant called southernwood or Artemisia. Little timber is to be seen. Bosomed in the Kand mountain is one of the most picturesque glens in Baluchistan called **Kamchuhgai**. The portion of the range east of the Kand peak is inhabited by the Kákars, that to the west by Achakzai Afghans. The upper strata consist of flysch, known to geologists as Khojak shales, beneath which lies a conglomerated mass of shaly bands and massive limestone. Intrusions of serpentine containing chrome ore and asbestos also occur.

Subsidiary ranges. Spéra-ghar.

Commencing from the north-east, in the angle formed by the Kundar and Zhob rivers, are the subsidiary ranges of Spéra-ghar, Súr-ghar, and Zhwe-ghar. The Spéra-ghar range in the centre runs from Domandi in the north, to the Chukhan valley in the South, the Girdáo, and the Sri Toi plains lying between it and the Zhob river. The highest peak is Tswarlas-guna (8,770 feet). To the east of the Spéra-ghar range and in the angle formed by the Sri Toi and Zhob rivers is the Súr-ghar range, the highest peak of which is Sáng-ghar (7,121 feet). To the west of the Spéra-ghar range and between it and the Kundar river lies the

Zhwe-ghar range, the highest peak of which, Shíntsak, is 8,144 feet.

PHYSICAL  
ASPECTS.

The eastern and southern drainage of the Spéra-ghar is carried by the Sri Toi and its affluents to the Zhob; the Kundar receiving that from the north and west. The inhabitants are chiefly Mando Khéls. *Chilghoza* pine is found on the range. Of the routes leading through the range the principal one is that from Mír Ali Khél through Girdáo and Shín Bázhæ to Husain Nika Zíarat. A path runs from Fort Sandeman northwards through Wala, Nawe-obo, Sir Toi-tangi, and Zhwe pass to Náma Kánrae on the Kundar.

To the north of the Zhob valley in the central portion of the District there stretches northwards a succession of high ranges intersected by long valleys. The first of these ranges called Spín-ghar stretches from the Kazha-tang first eastwards and then north-east, and lies between the Zhob river on the south and the Khaisor valley on the north. The highest peak called Yavháshki is 9,728 feet. "The southern slopes of the Spín-ghar falling towards the Zhob valley present a most peculiar and intricate formation. First, a precipitous fall of a thousand feet or more; then successions of lateral ridges, generally very steep and rocky towards the south. Gentle grass-covered slopes to the north, intersected by numerous tortuous water courses, divided by perfectly level parallel valleys, with scarcely perceptible gradients at the points of departure of the drainage to east and west, each water-course suddenly bursting through an unexpected rocky gorge into the low country at right angles to the main course of the streams." (*N.-W. F. Gazetteer.*)

The northern drainage is carried by various hill torrents into the Rod Jogízai. Many paths lead through this range to the north, the most important being that known locally as the Loi Liár which runs from Khasnob in the Zhob valley through the Spín-ghar range by the western end of the Khaisor valley through Mughal Cháh to Ghazlúna in Kákar Khurásán.

PHYSICAL  
ASPECTS.

Cumin seed grows in this range in the rainy season, and the principal trees are pistachio (*khanjakh*) and olive. Coal seams occur near Multani Mír Alam, Sikandar Tsari, Spín-tangi, and Toi-tangi.

## Tor-ghar.

North of the Khaisor valley is another long and lofty range called Tor-ghar. It extends from the head of the Khaisor stream in a north-easterly direction to the Chukhan valley and the Zhwe-ghar range. The highest peak of the Tor-ghar range is Baliára-ghar (9,705 feet). This range is the watershed between the drainage which goes south-eastwards through the Jogízai stream and Toi-tangi into the Zhob river, and that which finds its way north-eastwards in the Kunder river. The north-west of the range is occupied by the Jalálzais; the southern slopes by the Bítózais and there are a few Mardánzais to the east. A path goes viá the Jogízai Rod, Tánishpa, and Kunder to Kamr-ud-dín Káréz. Another route leads from Toi-tangi through Oshabal and Pinakai to Tánishpa. They are practicable by laden animals.

Kand moun-  
tain.

The Kand mountain, the highest peak of which is Zíárat (10,798 feet), lies to the north-east of the plain of Pishín near the head of the Zhob valley and separates Pishín from Hindubágh. The vegetation consists of pistachio, and on its western slopes juniper and wild almond; various kinds of grasses also grow. The country around Kand is entirely Kákar; on the west are the Targharas of Pishín and on the east the Isa Khél and Mehtarzai Sanatias. Paths lead from Hindubágh through Kamchughai to Háji Khán Kila and Kazha-Viála in the Pishín tahsil.

## Tabai.

The high range of Tabai is the continuation of the Kand mountain to the north-east and divides the south-east end of the Toba Kákar highland from the low-lying country of the Zhob. (*N.-W. F. Gazetteer.*) Its southern drainage is carried by the Oblunpsha, Hatála, Rúgha, and Malghuzár hill torrents into the Zhob, while that from the north runs into the Rod Fakírzai. The picturesque glen of



**Kamchughai** owned by the Isa Khél Kákars lies between Tabai and Kand. Asbestos is found in the southern slopes of the range in the Spín Potai hillocks near Tilérai Muhammad Ján. The vegetation is the same as that of Kand; and *shír khisht* (*Atraphaxis spinosa*) is also found in this hill. The bridle-path from Hindubágh to Murgha Fakírzai and Bábu Chína crosses this range by Rágha Narai and a footpath from Rágha Sultánzai also goes to Háji Khán Kila in Pishín over the Mézhliár Narai pass.

PHYSICAL  
ASPECTS.

From Tabai the range continues north-eastwards as far as the Kazha-tangi, the first portion of the range being known as Tsapar and the latter portion as Shín-ghar. The southern drainage falls into the Zhob river through the Khazína, Lakanr, Srakhula, and Dahána hill torrents and the northern finds its way through the Shín Shobai, Kozh Kach, Horak, Roghánai and Shina Khura into the Rod Fakírzai. There are small patches of hill cultivation throughout the range.

Tsapar and  
Shín-ghar.

The Sakír range is the line of hills north of, and Sakír enclosing, the Rod Fakírzai valley. It is a continuation of the Pishín range from Nigánd peak and stretches in an easterly direction from the Taghratu stream in Quetta-Pishín to the end of the valley near the Sharan tract. The Sakír peak overlooks the head of the Kundar and the comparatively open stretch of country forming the watershed between the Kundar and the Arghasán valleys. It is composed of alternate strata of hard and soft sandstone with a steep dip to the north and a difficult scarp to the south. From the summit (10,125 feet) on which lies a shrine, an extensive view to the north can be obtained. The sides of the range are fairly well wooded with pistachio (*khanjak*) trees. The southern drainage of the range goes into the Rod Fakírzai through various streams, the principal of which are Khoz Sharan, Súr Rágha, Murghakai, and Lunda. On the latter are situated irrigated lands belonging to the Fakírzais and Mardánzais. The northern

PHYSICAL  
ASPECTS.

drainage through its various hill torrents is entirely utilized by the Fakírzais.

The principal routes across this range are—(a) the bridle-path from Murgha Fakírzai to Loe Baud and Kamr-ud-dín Káréz via Shimli Nika; (b) from Murgha to Mughal Cháh and Késhatu known as the Srághurg route; and (c) from Kazha-tangi to Mughal Cháh by Lunda pass.

Súrghund  
and Sorae.

This range lies to the south of the Zhob valley extending from the Sawara river in the east to Tsari Murgha Mehtarzai in the west. It consists of a mass of scattered hills which merge towards the west into the offshoots of the Central Bráhui range and towards the east into those of the Sulaimán Range. It would appear to be a part of the Central Bráhui Range. The various hills are known by different local names, but the portion east of Waltoi is generally known as Sorae and that to the west as Súrghund. The range roughly forms the boundary between the Zhob and Loralai districts. The highest peak of the range is 10,609 feet. The southern slopes of the range lie partly in Pishán, Sháhrig, and Bori. The northern drainage passes through various hill torrents into the Zhob, but the water from the part known as Sorae is mostly utilized for irrigation purposes. The southern drainage goes to the Loralai District. A track from Hindubágh goes via Marzaghán, and then through Tor-tangi to Chinjan in the Loralai District, and another to Spérarágha via Khátúka. Several tracks lead through the eastern portion of the range, the principal of which is that from Kila Saifulla via Nishpa and Kohár-tangi to Loralai. An alternative route from Akhtarzai passing through the Dolu hills meets the route at Kohár-tangi in the Loralai District. Another route from Gwál Haidarzai goes via Barat Khél, Gidar Cháh, and Torkhazai-tangi to Loralai. They are all passable by beasts of burden. Chromite ore is found in the offshoots of this range called the Jang Tor hills.

“The general direction of the rivers is west to east. They run almost at right angles to the lines of mountain ranges which separate them from India, and which they have had to cut through one by one before reaching the lower levels of the Indian plains. In cutting through these ranges these streams have formed deep, narrow gorges, which in each successive range, become deeper and deeper as the level of the river bed sinks lower and lower below the level of the crest of the range. Thus when the Sulaimán range is reached, the drainage flows through narrow gorges of almost stupendous depth. It is hard to imagine anything finer than some of these gorges. Some of them, and especially those in the streams known as the Chúhar Khél, Záo and Gat Dahánas, are really marvellous gorges, wild and gloomy in the extreme.”\*

PHYSICAL  
ASPECTS.

Rivers.

The two principal drainage channels of the District are the Zhob and Kundar rivers, both of which flow into the Gomal. From the north these rivers receive the drainage of the Toba-Kákar range, and from the south the Zhob river receives that of the hills dividing the Zhob valley from the catchment area of the Nári river.

The Zhob river rises at the Tsari Mehtarzai pass on the eastern watershed of the Pishín valley, and has a total length to its junction with the Gomal river of about 240 miles. In its course, it is distinguished by various local names. The first affluent of importance is the Kamchughai stream which rises in the Kand mountain and runs through the narrow winding glen of the same name. The stream is perennial as far as the Rágha Bákazai village at the mouth of the glen, but during the rains, the water flows further eastwards and at the village of Kárézzgai merges into the main stream. The Kamchughai stream receives the drainage of the surrounding hills and affords a considerable amount of cultivation. The Zhob river flows about the

The Zhob  
river.

\* *The Southern Borderlands of Afghánistán*, by Captain (Sir Henry) McMahon. The Geographical Journal, Volume IX, No. 4, 1897.

PHYSICAL  
ASPECTS.

centre of the valley as far as Kazha. A permanent perennial stream first appears in it about 45 miles from the source, up to which the dry hill torrent is generally known by the name of Lahar. For the rest of its course it has a perennial stream. After Kazha it gradually begins to cross the valley still continuing eastward, till near Haidarzai it infringes on the spurs of the hills to the south which turn its course north-eastward into the valley. It then flows about the centre of the valley again and is known throughout its course hence by the name of the Lora. At about  $12\frac{1}{2}$  miles from Haidarzai it is joined from the south by the Landai and Ghazlai rivers and about 2 miles further the Kandil river falls into it from the north. The Sawara, which contains a good stream of excellent water throughout, falls into the Zhob river from the east, about 13 miles from the Kandil junction. The Zhob river, still following a north-easterly course, passes about 2 miles to the west of Fort Sandeman and near Déra (about 29 miles from the Sawara junction) enters the hills. About 30 miles further on, and about 2 miles to the south of Mir Ali Khél, it is joined by the Sri Toi river from the west. Passing to the north of Mughal Kot Fort (about 14 miles from Mir Ali Khél), it finally falls into the Gomal near Khajúri Kach. Owing to the height of its scarped banks, the water of the Zhob river cannot be utilized for irrigation till near the Sama Khwal hill, north-west of Mina Bázár, where the first channel for irrigation is taken off, for the Sandiár lands of Bádenzai.\* The Zhob is a sluggish turbid river flowing in a channel varying from 40 to about 80 yards in breadth between scarped clay banks about 15 feet high and quite disproportionate to the volume of water usually flowing in it. It is a shallow stream, seldom exceeding 2 feet in depth in the largest pools, and in many places not more than about 6 inches, and about 20 feet in breadth. But there are evidences that floods 2 or 3 feet higher than the present

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\* Further details of irrigation are given in Chapter II, Agriculture.

level of the water sometimes sweep down the channel. PHYSICAL  
ASPECTS. Though they are said to be of short duration, they would offer an impassable obstacle while they lasted. From its source up to Kazha, the bed can be crossed at all times of the year, but the course of the river between this place and the point where the Sawara joins it, is difficult to cross except at the regular fording places which exist at short intervals along it. Great care is necessary when crossing, as the bed of the river is very soft and in many places somewhat resembling a quick-sand. The banks on both sides are intersected by innumerable fissures and ravines among which it is difficult to find the way to the fords without a guide. The exposed parts of the channel are frequently covered with a white efflorescence but the water is sweet. Tamarisk and rushes grow along the channel in many places. The southern watershed dividing the drainage of the Zhob from that of the Bori valley is at an average distance of about 12 miles only, south of the Zhob river. The northern watershed dividing the Zhob from the Kunder drainage is about 40 miles distant. (*N.-W. F. Gazetteer.*)

The Kunder rises from the central and highest point of the Toba-Kákar Range, a few miles north-east of the Sakfr mountain. Kunder. It first runs eastwards for a few miles, then southwards through low intricate ranges until it again runs in a north-easterly direction through the valley of the same name. The upper portion of the river from its source to its junction with the Kandíl or Zhizha at Shpola Lwara, a distance of approximately 70 miles, is within British territory. Thence to its junction with the Gomal at Domandí it constitutes the boundary between British and Afghán territory. In the upper reaches of the river water first appears at upper Nigánge, south of the Sanzal pass: thereafter water is found at long intervals and is brackish in many places. Short stunted grass and tamarisk grow along the river banks. From lower Nigánge to Kila Mullá Kamál the valley is open, but below this the river flows

PHYSICAL  
ASPECTS.

between deep banks of mud and boulders, with numerous side *nullahs*, and the road becomes difficult as far as Shpola Lwara. The water is brackish throughout this portion of the river. Below Shpola Lwara the river makes a sudden turn to the south-east through a high range of limestone hills, and is confined in a narrow *tangi* for over 4 miles after which it emerges at Náma Kánrai into an open valley. At this place is a *ziárat* below which the river again begins to cut deep into the ground and is closely hemmed in by hills on both sides, and just below Khut Kunda it flows in a deep gorge in the mud hills. At this place there are springs containing sulphur. From this point downwards the river flows in deep banks of half-formed conglomerate, cut up by deep side ravines and increasing in height, until at Domandi it is 200 to 300 feet below the general level of the country on either side. Before reaching Domandi, it affords a little irrigation in Sra Darga and Husein Nika. The main feeder of the Kundar is the Wáli Murgha which also takes its source in the same range as the Kundar. It runs through the Jalálzai, Mardánzai, and Lawána tracts and flows into the Kundar a few miles above the junction of the latter with the Kandíl. Beyond Domandi the combined stream is known as the Gomal and passing by Khajúri Kach enters the North-West Frontier Province.

Chukhan or  
Sri Toi.

The Chukhan drains the country to the north-east of the Khaisor valley. It rises on the southern slopes of the range north of the Mardánzai country, and thence flows down an open valley in a north-easterly direction. Near Ambára, it takes a sharp turn to the east, is joined by the Sharan from the west, and after passing through the Sri Toi Tangi, continues under that name. Below this point it receives all the eastern drainage of the Spéra-ghar range by means of a number of hill torrents, the principal being the Gardani stream which drains the southern portion of the Girdao plain. The stream still flowing in a north-

## RIVERS.

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easterly direction falls into the Zhob, about 2 miles south of Mír Ali Khél. PHYSICAL ASPECTS.

The Rod Fakírzai rises in the Loara watershed near the shrine of Adilai Nika to the west of the Sakír Range and is known as the Losha Kár. It is joined from the north-west by the Taghratu or Malikár stream. At Murgha Fakírzai, water from a large spring runs into it and the supply is considerably increased by several other springs in its course south-eastwards. The stream receives the drainage of the Sakír Range from the north, the principal feeders being the Khozh Sharan, Sur Rágha, Murghakai, and Lauda hill torrents. Similarly the Shín Kach, Shin Shobai and Kozh Kats hill torrents bring into the Rod Fakírzai the drainage from the hills to the south. The stream becomes perennial near Murgha Fakírzai and runs past the Zangal, Salák, and Bábu Chína villages, but its water is not used for irrigation until it emerges from the Kazha Tangi, and waters the Khoidádzai and Mírza lands of Kazha. The flood water finds its way to the Zhob river. Below Bábu Chína tamarisk trees grow plentifully in the bed of the stream. Rod Fakírzai.

The Rod Jogízai is one of the largest feeders of the Zhob river having its source in the northern hills of the Sakír Range and flowing eastward for about 50 miles. For about the first 30 miles of its course, it is known as the Gargasamalan and drains a glén of the same name. It then enters the large valley of Khaisor and receives the drainage of the Tor-ghar and Spín-ghar Ranges from the north and south, respectively. In the Khaisor valley it is known as the Rod Jogízai to its junction at Toi Tangi with the Wátíal or Washabal stream coming from the north. At Sharan in the Khaisor valley the river becomes perennial and below this point irrigates several flats on its banks. At the Toi defile the river turns sharply southwards under the name of the Toi and flowing through the Spín-ghar range, debouches into the Zhob valley where it is called the Kandíl. After entering Rod Jogízai (Khandil).

PHYSICAL  
ASPECTS.

the Zhob valley it takes a sharp turn eastward and eventually flows into the Zhob river. From Sharan to the Wátíál plateau, the water is utilized by the Jogízais and from the Toi defile to the point where it enters the Zhob valley by the Bátorais. The stream remains perennial only from Sharan to where it issues from the Spín-ghar hills and it is only during winter that flood water runs through its entire course. The only villages which receive irrigation are the Rod Jogízai and Kázha Kach. Flood water is, however, utilised by the Bátorais for dry crop cultivation in the Zhob valley to the south of the Kandíl. The bed throughout is stony except in the Kandíl where it is sandy. Tamarisk grows abundantly at several places.

## SAWARA.

The Sawara river rises in the Gosa plain, and, after collecting the drainage of the Bábar-ghar Range and of the hills to the east of the Gosa plain, flows in a south-westerly direction to Adozai. Here it is joined by the Pílkánrae, a stream having its source also in the south-western portion of the Gosa plain. The tracts irrigated by the Sawara above Adozai are Khosti, Takhai Sulaimánzai, Kot, Manézai, Hadézai, Ahmadzai, Alízai, Barwála, and Lakaband, while the Pílkánrae irrigates Shamámzai, Khadozai, Ghundi Sulaimánzai and Pitáo Zakozai. Below Adozai, the Sawara river, after winding round the southern end of the Mazghár hills, and irrigating the Haidarzai, Sabákzai, and Ismáílzai villages, turns north-west and eventually joins the Zhob river, about 4 miles to the west of Mína Bázár village. About 4 miles south of Mína Bázár, the Sawara is joined by the Mazghár, a stream which irrigates most of the land of that village. The Sawara contains a considerable flow of water throughout its course, but much of the water is drawn off for irrigation purposes and to work a water-mill, while the rest is absorbed and lost in the bed of the stream which consists of sand and gravel. Near Sabákzai tamarisk grows abundantly.



This stream rises in the Hatsu watershed and receiving the drainage of the southern hills of the Shín-ghar Range of the Sulaimán mountains, runs westwards and is known as Laharai till it joins the Garda Bábar, a perennial stream near Bráhim Khél village, below which it is called Siliáza. It is joined near Kapíp by the Algað Bábar stream from the south. It affords a considerable amount of cultivation in the Garda Bábar, Bráhim Khél, and Kapíp villages. At Kapíp the water is considerably increased by numerous springs and is drawn off for irrigation in Taki, Hasanzai, Mandézai, Apozai, and Fort Sandeman. Drinking water for Fort Sandeman is also piped from Kapíp springs.

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ASPECTS.

Siliáza.

The Khaisára stream takes its source near the Hatsu watershed and carrying the drainage of the southernmost hills of the Kaisá-ghar and Shín-ghar runs northwards between those ranges, a permanent supply of water occurring first at Kánrgalai. After irrigating the lands of the villages of Kuria Wasta, Ahmadi Dargha, Niázi Kot, and Kachhi, it continues its course due north and taking a sharp turn to the east through the Gat Pass in the Sulaimán Range, drains a large supply of its water into the Déraját.

Khaisára.

This stream receives the drainage of the eastern slopes of the Satiára hills and of the Loara plain. These hills form the northern portion of the Tor-ghar hills of the Sulaimán Range. To the east of the Loara plain the stream turns north and then east through the Chúharkhél Dahána gorge. In its upper course the stream is dry but at Dahána Sar, the western entrance to the gorge, a fine stream comes to the surface, and enters the gorge by a narrow rift in the rock called Katao Dabara. The stream in dry weather has a depth varying from 6 inches to more than 2 feet, and flows through the gorge with great velocity.

Chúharkhél  
Dahána  
stream.

The broad plain of the Zhob occupied by alluvial formations of considerable depth, separates two mountainous

Geology.\*

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\* The editor is indebted to Mr. E. Vredenburg, of the Geological Survey of India, for this section.

PHYSICAL  
ASPECTS.

regions of different character and constitution. That forming the northern and greater part of the District, beyond the left bank of the Zhob, consists almost entirely of an extensive and monotonous series of calcareous sandstones and shales known as "Kojak shales" all of one geological age, the oligocene, corresponding with the European rocks known as "flysch." The hilly regions situated beyond the right bank of the Zhob, only a comparatively small portion of which occurs in the District, forming a narrow fringe along its southern and eastern boundary, are far more varied in composition and structure. The most interesting rocks of this region are the carboniferous and triassic slates and the igneous intrusions occurring south of Hindubágh. The igneous intrusions consist of a heavy rock known as "gabbro," and form considerable hill masses, the highest peaks of which attain an absolute height of nearly 10,000 feet. They represent the remnants of a great volcano of Upper Cretaceous age belonging to the same volcanic system as the Deccan Trap of the Indian Peninsula. Some of these rocks are altered into serpentine accompanied by valuable deposits of chrome iron ore. Some minor outcrops of this same serpentine, also chrome bearing, occur north of the Zhob, along a zone of "Siwalik" strata and eocene nummulitic limestones fringing the southern edge of the great outcrop of Kojak shales. The "Siwaliks" consisting of conglomerates, sandstones, and bright-coloured clays impregnated with salt and gypsum, belong to a series newer than the Kojak shales. The eocene nummulitic limestones which are older than the Kojak shales occur at various places in the midst of the Siwalik belt north of the Zhob, and also at intervals along the southern border of the District. These eocene nummulitics belong to the Kirthar series of Indian Geological nomenclature. The Laki series or coal-bearing series of Baluchistán, which is somewhat older, has not been observed in the Zhob District. The south-eastern

border of the District contains strata of liassic (lower jurassic), middle jurassic, lower and upper cretaceous age mostly shales and flaggy limestones, with the exception of the middle jurassic which consists of a vast thickness of massive limestones and sandstones, such as constitute the lofty ranges west of the Takht-i-Sulaimán. Detailed geological accounts of this region have not yet been published. A map showing the geological features of the Hindubágh neighbourhood has been issued in the Records of the Geological Survey of India, Volume XXXI.

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ASPECTS:

No scientific information is available regarding the vegetation of Zhob. The principal trees found in the highlands are olive, pistachio, and edible pine. Wild almond and willow are also not uncommon. Tamarisk grows abundantly along the beds of the streams. Scattered about the District there is a small growth of *spalmai* (*Calotropis gigantea*), and *pastawana* (*Grewia oppositifolia*). Juniper is found mostly on the Súrghund hills in the Hindubágh tahsíl. *Gurgura* (*Reptonia burifolia*) grows in small quantities in Kaisa-ghar. On the hills round Tánishpa there is an abundant growth of carob trees and stunted junipers. *Raghbolai* (*Peucedanum Sp.*), *arguch* (*Scorðnera mollis*), and *naghura*, a wild plant, grow all over the hills and are used as a famine food. *Bushka* (*Lepidium draba*), *shézi* (*Eremurus aucheriana*) are common and are used as vegetables, also *khokhae* or wild onions. Other plants of importance are *khamazúra* (*Withania coagulans*), rhubarb or *pushai* (*Rheum emodi*), and *maraghána* (*Citrullus colocynthis*).

Botany.

*Zira* (*Cuminum cyminum*), *ispaghul* (*Plantago ovata*), and *spánda* (*Peganum harmala*), grow in great profusion all over the hills. Hyssop or *zúfa* and *shinshobæ* (*Mentha sylvestris*) are also common. Asafetida grows only in the Zhazh Bázhae hill of the Spéra-ghar range. *Shorai* (*Haloxylon griffithii*) is found in the lower valleys, and along the Zhob river. Of wild bushes the most common are *mákhai* (*Caragana*), *uma* (*Ephedra pachyclada*), and *léghúnae*

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ASPECTS.

(*Daphne oleoides*), the last named being poisonous. Grasses of various kinds grow, the most important being called locally *sába*, *páh*, and *sargarae*. Along the Kundar valley, a small bushy plant about 2 feet high locally known as *tirkha* (southernwood or *Artemisia*) grows thickly over both hill and plain and forms a favourite food for camels, goats, and sheep.

Near Chábar Khél Dahána, the maiden-hair fern grows in profusion and *Acacia modesta* is also met with.

A list of commoner trees and plants growing in the District is given in appendix II.

## Fauna.

The wild animals include the wolf, jackal, hyena, fox, and porcupine, all of which are common throughout the District, also badger, which is found in the Upper Zhob valley. Leopards are occasionally found in the high hills of the Sulaimán and the Toba Kákari ranges. The black bear occurs only in the Shín-ghar and Sulaimán ranges. Wild pigs are met with along the Zhob river. The southern slopes of the Shín-ghar Range, north of the Zhob valley, form a great breeding ground of straight-horned márkhor and wild sheep. In the plains through which the Kandíl runs into the Zhob, deer are found in fairly large numbers. Hare occur everywhere in the hills. Fox and jackal are trapped by the Macharzais, Fakírzais, Kamálzais, Mardánzais, and Abdur-Rahímzais in the Hindubágh and Kila Saifulla tahsils, and the skins sold to the Kandahári and Quetta merchants. Of game birds, chikor and sisi are numerous in the higher altitudes, and partridge, pigeon, sandgrouse, quail, and bustard are met with in the plains. Among other birds, the dove, hoopoe, starling, and wagtail are the most common. The lammergeier and large black vulture are common everywhere in the higher ranges. On the higher slopes of the Takht, the jay, blackbird, wood-pigeon, cuckoo, and thrush are met with. Wild duck abound in the Zhob river in winter, when pelican also appear in large numbers. Among reptiles, snakes occur,

especially in the Loara Chúhar Khél, and scorpions are met with everywhere. Every running stream abounds in fish, chiefly *mahsir* (*Burbus mosal* or *tor*) some of which weigh up to 8 lbs. Fishing is obtainable in the Zhob and Sawara rivers.

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ASPECTS.

The climate is dry, and in the winter months, bracing. Dust-storms occur in summer from July to September, accompanied by thunder-storms, rendering the climate of Lower Zhob somewhat enervating. On the other hand, Upper Zhob and the highlands possess excellent climatic conditions. The temperature varies with the height above sea-level, but averages about 82° in summer and 47° in winter. In Lower Zhob, the heat is unpleasant from May to September, and great diurnal variations of temperature are experienced in winter. The western end of Upper Zhob is cool in summer and cold in winter.

CLIMATE  
TEMPERATURE  
AND RAIN-  
FALL Climate.

Generally speaking the seasons are well marked. The year is divided into four principal seasons, known as *psarlae*, spring (March to May); *dobae*, summer (June to August); *mana*, autumn (September to November); and *zamae*, winter (December to February).

Seasons.

The District, like other parts of Baluchistán, lies outside the monsoon area, and the rainfall is scanty and varies with the altitude. It ranges from about 4 inches in Kila Saifulla to about 10, in Fort Sandeman. The stations at which rainfall is recorded are Hindubágh, Kila Saifulla and Fort Sandeman, details of which are given in table I, Volume B. Fort Sandeman receives the largest amount, 9.55 inches, Hindubágh comes next with 4.92, while Kila Saifulla, receives 4.15 inches. The largest rainfall is received during the winter months, namely, from October to March, the latter being the rainiest month of the year. At this time of the year, snow falls in the greater part of the District. During the summer months, rain falls in July and August.

Rainfall.

The direction of the winds varies with the seasons, but as in other highland districts of Baluchistán, is much

Winds.

**PHYSICAL ASPECTS.** affected by the mountainous character of the country. In spring, the south-west, and occasionally, the south winds, blow, and are locally termed *barvo* and *shkar* or *Kháránai* respectively. In summer, east and south winds are prevalent. In autumn, the prevailing wind is that from the west, locally called *barvo*. In winter, the wind frequently blows from the west and is very cold and piercing, sometimes continuing for weeks at a time. South-west and east winds are also common, the latter invariably bringing rain. The north wind or *kadavo* occasionally blows during September to April, brings on drought and damages standing crops.

**Floods.** The only floods of any importance occur in the Zhob river during July and August, but none are recorded to have ever caused any very serious damage. The hill torrents are also liable to sudden floods during the summer months, and while in flood, are impassable.

**Earthquakes.** A slight shock of earthquake is said to have been felt in the autumn of 1897, when several houses fell down in Pasta Kili, Kachi, Kila Barkhurdár, and Ghwarlama. No loss of life or cattle occurred, but in Shín-ghar, a number of trees caught fire by the friction of flint stones and were burnt down. A cyclone in 1898 caused much loss in Hindubágh; live-stock perished, lives were lost, and trees and houses seriously damaged.

**HISTORY.** The chief historical interest of the Zhob District lies in the fact of its having been the cradle of the Afghán race. It is, however, only possible to catch occasional glimpses of the ancient history of the country which is, like that of the rest of Baluchistán, enshrouded in much obscurity. The fact that the country is situated on one of the high roads of trade from Afghánistán to India lends colour to the supposition that it played an important part in early history. The Chinese pilgrim Hiuen Tsiang who visited India at the beginning of the seventh century describes the Afgháns as then living in Zhob and it was possibly from this District as

their base that they emerged to seek riches and even empire HISTORY.  
 in India. In 1030 A. D. the Afgháns are spoken of by Al Biruni as tribes inhabiting the mountains which form the western frontier of India and extending as far as the Sind valley. Early in the thirteenth century, Zhob, together with other parts of Baluchistán, came within the sphere of the raids organized by Chingiz Khán, the Mongol. In 1398, we read of an expedition led from Kandahár by Pír Muhammad, grandson of Tímúr Lang, against the Afgháns of the Sulaimán mountains, which appears to have penetrated the District. Subsequently we find no mention of the country for several centuries and no opinion can be hazarded with any approach to certainty regarding its history. The migration of the Yusufzais from Zhob to Swát has been recently traced. No authentic information exists as to any foreign occupation though it is interesting to note that many forts, mounds, and *kárázes*, the construction of which is attributed by the people to the Mughals, are scattered throughout the country and that Mughal remains have been discovered in the conterminous District of Déra Ismáíl Khán. Both Nádir Sháh (1736—47 A. D.) and Ahmad Sháh (1747—73 A. D.) extended their power through Baluchistán, and thenceforth Zhob remained under the more or less nominal suzerainty of the Durránis and Bárakzais till it passed under British protection.

In the middle of the eighteenth century Ahmad Sháh granted a *sanad* to Békar Nika, fourth in descent from Jogi and the head of the Jogízai family, conferring upon him the title and position of "Bádsháh or Ruler of Zhob," and also a gold ornament usually worn in the turban as a token of royalty. This family continued to exercise authority over the Kákars until the British were first brought into contact with them.

The late Amír Abdurrahmán, after being completely defeated at the hands of Shér Ali in the Hazóra hills in January, 1869, passed through Zhob on his way to Seistán with a party of about 300 followers. The Zhob Kákars

HISTORY. attempted to levy blackmail from him and the late Amír has given the following account\* of his adventures, which is interesting as shewing the conditions then prevalent in the country:—"We halted there (Kaniguram) for seventeen days \* \* \* and started for Wána, halting there two days, after which we crossed the Gomal river. Starting from there we reached the territory of the Shírání people, at a place containing only two habitations." \* \* \* "Next day we reached one of the villages of Kákar Zhob, where we bought flour, butter, and mutton, also cooked food enough to last two days, doing the same in future. We next arrived at a village called Dihbring, where we laid in a store of provisions. When we had started a few miles, we saw about 2,000 men standing awaiting us in our road, carrying naked swords. When I demanded to know what they wanted of us, they replied that the name of that place was 'Zhob,' and if we did not pay them twenty rupees a head as duty, they would not let us go. I argued that if we gave in to them the whole Kákar country would also intimidate us into paying duty, so I refused, and made ready to fight. Seeing this, they declared they were only joking, and let us go on our way. Before we arrived at the end of our day's march, an old man at the head of ten disciples, wearing a white turban, with hair matted on each side of his ears, and carrying a stout stick in his hand, appeared in our road. This apparition had been preceded by two of his followers, who told my uncle that they were chiefs of the country, and on the appearance of this old man they bowed low to him, saying to us: 'This is a holy Sayad.' At this my uncle rose, and after kissing his hand, seated him beside him. I had seen many impostors of this kind, and his appearance gave rise to the suspicion that there was something behind all this saintliness. It was my habit on going into every fresh village to make the acquaintance of some inhabitant,

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\* *The Life of Abdur Rahmán, Amír of Afghánistán* (London: 1900) Vol. I, Chapter IV, page 111, *et seq.*



and present him with a few rupees to give me information HISTORY. of all that was going on there. On my making enquiries of such a spy, he told me that the old man was a celebrated thief, having a band of 100 robbers under him, and he had brought forty of them with him to plunder our property. I reported this to my uncle, who would not credit the story, and, instead told his son Sarwar that the "Saint" was to be a guest in the Camp for the night. Near sunset, a few men surrounded the wells from which my servants wished to water our horses. Seeing this, and being on the look out for treachery, I had recourse to the ruse of dividing up my horses into small bands, and sending a double escort of men to water them in different parts of the village at different times, without approaching those wells near our Camp, where the robbers were waiting, and where they expected the horses would be watered. In this way our horses (300 in number) all arrived safely in Camp. My uncle and his son had about fifty horses, and their followers who looked after them brought word to him that the men surrounding the well refused to allow them to go near it. At this the 'Saint' professed anger, saying: 'I will go with the horses and command the people to allow your servants to give them water.' This he did, and when some distance off, he sent the grooms on to draw water in buckets, and when they were thus employed he and his men ran off with thirty horses, twenty being rescued by our sowars, of whom five were wounded. \* \* \* The next march my uncle's followers were obliged to ride behind the backs of the others. On the eleventh day we arrived early in the afternoon at a village in the Kákar country, where my followers laid in provisions for themselves. \* \* \* Next day we started on our way again, in a heavy wind and dust-storm. When we were near our halting village, the chief of the tribe came out with two sowars to receive us. Before he met us, one of his servants came to tell us that 'Sháh Jahán Pálisháh is on

HISTORY.

his way to receive you, you must dismount and embrace him.' My uncle asked me what we should do. I replied that before deciding I would go on in front. I went on, and saw two men coming towards me. I asked one of them where his king was, to which he replied that his companion was he. This so-called king was an old man, wearing a coat of old sheep-skin, which was patched in parts with different pieces of coloured cloth, where the skin was worn. He wore on his head so dirty a turban as to disguise the material of which it was made. It also had no conical cap in the centre. On his feet were woollen socks, without any shoes. His mare was nothing but skin and bone, with bells tied to her knees and the saddle was of wood. The bridle was of hair-cloth, with bells tied to the corners. \* \* \* Sháh Jahán told me he had prepared some goat's flesh soup, and had forty pieces of Indian corn bread. I assured him it was too grand, but we would go ahead and see about it. With this excuse I got him away from the horses. After going on for about a mile I said I had forgotten some necessaries, and must go back to fetch them. At first he would not agree to go on without me, but on my saying I would bring back sugar with me, he was delighted, and consented at once. I returned to my uncle, and asked what he thought of so grand a king, and he laughed. On our entrance to the village we began hunting for the king, for some time in vain, but at last discovered him in a hut made of straw. He told me that he had sent for fuel from the jungle with which to cook, but it had not yet arrived. Also, the bread was not baked, because the sheet of iron on which it was to be baked had been borrowed for a marriage ceremony. I replied: 'It does not matter if you have nothing to eat, we are your guests.' I then sent for our own provisions. \* \* \*  
"We stayed that night in the jungle, and next day the king came and told me that our next halt would be in the village of his cousin, Dost Mahomed, who would give us a warmer reception than he had done. He said it would be better for

us to start early. We enquired for a guide, on which he offered his own services. I suggested to my uncle that there was perhaps some reason for this, but he did not think so, and we started. HISTORY.

“At the end of our first day’s march we arrived at the bottom of a high mountain, and the next day we had to cross another, passing through a village where there were no inhabitants. I told my uncle that our devil guide was leading us astray, and we had neither grass for the horses nor food for the men. I asked him what we should have done if we had not had provisions for two days with us. We halted in the desert at night.

“The next day Dost Mahomed came to meet us with 2,000 followers, sending a man on first to tell us he was at our service. He asked us why we had come such a difficult way, and not kept to the road, and when he found our guide was his cousin, he demanded that he should be given over to him as his enemy for having taken us by the mountains to escape passing his village, and by so doing cast a disgrace on him. He told us we must retrace our steps a long distance to get to his house, where he hoped to entertain us, having prepared Indian hemp for us to smoke, and provisions for my followers. I said to my uncle: ‘If you had been warned by me, this would not have happened. What are we to do between these two devils.’ During this conversation a few thieves who had been sent by Dost Mahomed to plunder any thing of ours they could come across, had attempted to steal our baggage, for which they were fired upon and wounded. On hearing this, Sháh Jahán went and hid himself, and I suggested leaving the place in the night, or the followers of Dost Mahomed would fight us. At last we found Sháh Jahán, and told him that as he had brought us there he would have to take us back again. He said he had hidden for fear we should hand him over to his enemy, Dost Mahomed, but we promised not to do so, and marched with him all that night, although the cold was severe. We passed no village where

**HISTORY.** we could get food until the afternoon of the second day, when we arrived at a deserted village, to be again disappointed. I asked the king of devils where the people were, and he said the people come in the spring, and leave for the top of the high mountain which lay before us, so soon as it got cold. I said : ‘ Curses be on your father, we and our horses have no strength left, this is due to your mischief.’ He said we had better go on to the mountain and meet the people there, who would give us food. He said he could not go with us, as the tribe was hostile to him and his family. We were glad to get rid of such a man, and gave him leave to go, and after sunset we arrived on the mountain near the habitation of the tribe he had spoken of. They received us very kindly, after just preparing to fight us, thinking we were sowers of a rival tribe. We were very pleased to eat again, and feed our horses, but they would not allow us to pay for any provisions.”

Modern  
history.

\*From the outbreak of the Afghán war in the year 1878, when the attitude of the Kákars of Zhob first became a matter of any importance to us, to the year 1884, the chief authority over the Kákars of the Zhob and Bori valleys and the adjoining Districts of Kach and Kowás was exercised by the Jogízai family of Zhob Kákars. This family is descended from one Jogi and is divided into two rival factions known as the Ishák Kahol and the Nawáb Kahol after the two sons of Mukám son of Békar Nika, who was fourth in descent from Jogi. The most notable member of this family was Sháh Jahán, one of the six sons of Nawáb, and in his hands rested almost the whole power, though his cousin, once removed, Dost Muhammad, a grandson of Ishák, constantly endeavoured to head a separate faction. Sháh Jahán by means of the natural strength of his character and his great reputation as a sainted *Fakír* and a miracle-worker, not only obtained authority over all the numerous sections of the Sanzar Khél

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\* This account has been mainly taken from the Administration Report of the Zhob District for the year 1890-91 written by Captain I. Mac Ivor, Political Agent, Zhob; and from subsequent Administration Reports.

Kákars, but also succeeded in extending his influence among the Sanatia Kákar tribes, such as the Sárangzais and Pánézais, so that he could count upon their support in any line of policy he adopted. It became known very early in the course of the Afghán war that Sháh Jahán was hostile to the British and would give trouble on the lines of communication when opportunity occurred. Accordingly when the first of the columns that were ordered to return to India by the Thal-Chotiáli route in 1879, reached Bagháó, a place about 10 miles from Sanjáwi on the Duki road, news was received that Sháh Jahán was advancing to attack the column with a following of about 4,500 men; half the troops went out to meet the advancing force and an action ensued in which Sháh Jahán was defeated with heavy loss. This sharp lesson checked the fanaticism of the Kákars for some little time, and Sháh Jahán tendered his written submission, but he failed to come in to offer it in person. The murder of the British Envoy at Kábul, however, and the abdication of Yákúb Khán gave rise to further excitement among the Kákars, and early in 1880, Captain Showers, Superintendent of Levies, was murdered on the Uzhdapasha pass between Khost and the Hanna valley, the perpetrators belonging to the Pánézai section of Sanatias. This was followed in the autumn of the same year by an attack on the military post at Kach by Zhobís, Sárangzais, and Pánézais, instigated by Sháh Jahán, in which they were defeated. The termination of the Afghán war brought the District of Thal-Chotiáli under British rule, in accordance with the terms of the Gandamak treaty with Amír Yákúb Khán. But as this part of the country was only separated from the Bori valley by a low range of hills, Sháh Jahán and his Bori friends, the Hamzazais, Utmán Khéls, Kibzais, etc., found it very easy to harass the district by outrages on employés of the Government. A series of these outrages ensued, culminating in the attack upon a large number of coolies employed in building at Duki. It was felt that the frontier could never

HISTORY. be safe and the railway and other works never free from danger, until Sháh Jahán was finally settled with and hostages taken from him for his and the Boríwáls' future good behaviour. The sanction of the Government of India was accordingly obtained to a military expedition being sent into Zhob against Sháh Jahán, and in April, 1884, orders were issued for the movement of troops into the Zhob valley, but owing to difficulties in procuring food and carriage at that time in the country through which the troops had to pass, it was decided to postpone the expedition until the autumn. On the 4th of October, 1884, a force consisting of 10 guns, 561 sabres, and 4,220 bayonets assembled about Thal-Chotiáli under the command of Brigadier-General Sir O. V. Tanner, K.C.B., and moved into the Bori valley, where Sir Robert Sandeman, K.C.S.I., Agent to the Governor-General in Baluchistán who accompanied the force, received all the Bori headmen in a public *darbár* and they made full submission. A standing camp was then formed at Dulai. Overtures were now made by Sháh Jahán, and Sardár Bai Khán, Sárangzai, was sent to bring him in but without success, nor did the Kibzais and Músa Khéls come in and tender their submission as was expected. The force accordingly marched to Akhtarzai on the 21st of October and Sháh Jahán's fort which lay 6 miles to the north was occupied on the following day. The enemy, who were said to number from four to five hundred, had occupied the hills north of the camp, and they were attacked on the morning of the 24th of October, and in two hours the position was captured, the enemy's loss being upward of fifty killed and some prisoners; five of our men were wounded. On the 26th of October, 1884, the force marched to Kila Saifulla Khán, the towers of which as well as of the villages of Sháh Jahán and Dost Muhammad were blown up. Sháh Jahán fled into the northern hills. On the 29th of October the force marched to Kazha. By the 31st of October, every chief of note in Zhob, with the exception of Sháh Jahán,

Zhob Ex-  
pedition, 1884.

Saifulla, and one or two who had fled, or who resided at a distance, had come in and tendered their submission. \* Shahbáz Khán, Sháh Jahán's cousin, who was by descent the head of the Jogizai family, but whose authority was overshadowed by the superior influence of Sháh Jahán, had also come in and made submission. Some of the headmen of the Khoidádzai Kákars in the direction of Hindubágh still remaining obdurate, a force was sent against them which blew up Bishárat Kila and captured Bishárat himself, the son-in-law of Sháh Jahán. On the 2nd of November, 1884, Sir Robert Sandeman came to a satisfactory settlement with the Zhobwáls and the force proceeded to Mína Bázár, which was reached on the 9th. The Kibzai headmen then submitted, and on the 13th some of the troops were ordered back to Dulai, and with the remainder the General proceeded to Músa Khél Sahara, arriving there on the 16th of November. All the Músa Khél headmen submitted and the force marched back to Nálai near Mékhtar on the 19th. The objects of the expedition having been accomplished, the troops were withdrawn with the exception of a garrison left at Thal-Chotiáli. With the sanction of the Government of India, Shahbáz Khán was nominated as the Sardár and Ruler of Zhob, and all the leading men, with the exception of the fugitive Sháh Jahán and his family and one or two others, promised to assist him in his work and to put a stop to further raids on the Thal-Chotiáli District, and hostages were given to secure this object.

The settlement come to with the Kákars, besides imposing a heavy fine, included an agreement that the Government of India should be at liberty to station troops in Zhob and Bori, should it deem this advisable, and the following year, when it was decided that a frontier road should be constructed from Déra Gházi Khán to Pishín, it was also decided that the Bori valley should be occupied, and the cantonment from Duki was accordingly

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\* Shahbáz Khán, son of Rashíd, grandson of Ishák Jogizai.

**HISTORY.** moved forward in 1886 to Loralai and a military post was stationed at Sanjáwi.

Murder of  
Sháhmár  
Khán, 1885.

Before this had taken place a private quarrel broke out among the Jogízais, which eventually led to the formal submission of Sháh Jahán and his family and to their conversion from enemies into friends of the British Government. In the month of August, 1885, Sháhmár Khán, the brother of Shahbáz Khán, who, with Bangul Khán, son of Dost Muhammad, were among the hostages given by the Jogízai *sardárs*, was sent with Bangul to Sanjáwi in connection with a tribal case. Here Bangul Khán, looking upon Sháhmár as the only strong man on the side of Shahbáz Khán, as indeed he was, took the opportunity to murder him during the night and fled to Zhob intending to murder Shahbáz Khán also, and then usurp the chief power in Zhob. Fortunately the Duki Native Assistant to the Agent to the Governor-General, Khán Bahádur Hak Nawáz Khán, succeeded in warning Sardár Shahbáz Khán in time, and Bangul Khan's plot was frustrated and he was obliged to flee to the hills north of Zhob. Sardár Shahbáz Khán seized this opportunity to make overtures to Sháh Jahán and his son, Shíngul Khán, who were hostile to Dost Muhammad and Bangul, and shortly afterwards Shíngul Khán came in and tendered his submission to the Agent to the Governor-General at Quetta, and Sháh Jahán himself paid his respects to Sir Robert Sandeman at Sibi and promised to act for the future as a loyal ally of the British Government.

Dost  
Muhammad,  
1887.

In the meantime Dost Muhammad, a dissipated and violent-tempered man, succeeded in collecting a band of followers both from Zhob and Bori, and commenced a life of plunder and outrage. At first Dost Muhammad's attacks were confined chiefly to Zhob, but afterwards, with the assistance of Sultán Muhammad, one of the *maliks* of Mína Bázár, he established himself in Mína



Brázá and was thus enabled to extend his operations into the Bori valley, and even beyond it. Young men of fanatical spirit, or those who fancied they had grievances against their *maliks*, etc., left their homes and joined the robber band, and the well-disposed people of Zhob were unable to impose any check upon their unlawful proceedings. The construction of the frontier road through the Bori valley, and the consequent influx of Hindustáni and Punjabi coolies gave opportunities to the followers of Dost Muhammad, and many outrages were committed. Towards the close of the year 1887, Dost Muhammad commenced plundering the Mando Khéis and tribes in the neighbourhood of Mína Bázár. They appealed to Umar Khán, the chief *malik* of the large Abdullazai section of Kákars and the most influential man in Lower Zhob, and he assembled a force and compelled the Pakhézais\* of Mína Bázár to turn Dost Muhammad out of that place. Dost Muhammad accordingly retired to the hills to the north, where his son Bangul had remained ever since his flight. Sultán Muhammad, however, remained in Mína Bázár with his followers, and the outrages in Bori continued, Umar Khán not concerning himself with anything but the protection of his own interests. Sultán Muhammad venturing into Murgha was seized by the Kibzai chiefs there and handed over to the authorities at Loralai. Even this, however, did not put a stop to the bad conduct of the Mína Bázár people, and it was determined to pay the place a visit to punish those guilty and obtain security for good conduct in future. Accordingly Sir Robert Sandeman, after accompanying His Excellency the Commander-in-Chief in India along the new frontier road in 1888, marched, with his escort slightly strengthened, towards Murgha through the Músa Khél country, and thence to

Sir Robert Sandeman's march to Apozai, 1888.

\* Pakhézai, a sub-section of the Abdullazais (population in 1901: 763 persons, adult males 227).

**HISTORY.** Mína Bázár, when all the Abdullazai and Pakhézai *maliks* tendered their submission with the single exception of the chief, Umar Khán, who, whether on account of his fears or desirous of making himself looked upon as an important person, held aloof. Packing up all his goods, Umar Khán started to flee towards the northern hills, but was pursued by the Political Agent and captured with all his family after an exciting chase. While at Mína Bázár, settling the various cases against the delinquents, the Mando Khél chief, Malik Khánán Khán, came in to the Agent to the Governor-General's camp and invited him to visit one of their chief villages, Apozai. Sir Robert Sandeman accordingly marched to Apozai, about 25 miles from Mína Bázár, and halted there for three days, when the Mando Khéls presented a petition to be taken under British protection and offered to pay any revenue in return, which might be decided upon. Sir Robert Sandeman returned by the Central Zhob route and was met at Gwál Haidarzai by his old enemy and friend Sháh Jahán with all his family. Here Sháh Jahán and his leading *maliks* also presented him with a petition, praying that as they were unable to manage to keep peace and maintain order, the British Government might be pleased to take them under its protection and that they were willing to pay revenue in return.

Submission  
of the Mando  
Khéls.

Submission  
of the Zhob  
Kátars.

Occupation  
of Zhob, 1889.

Hitherto our dealings with the Zhobs had been carried out entirely with the desire of keeping order on the frontier, but the visit to Apozai demonstrated the great importance of the Zhob valley from a military and strategic point of view. It was clear that it not only turned the whole of the difficult country about the Takht-i-Sulaimán and dominated the tribes occupying this range and the numerous passes through it to the south, but also flanked the great Gomal caravan route to Ghazni and Kandahár. Moreover, it was becoming more and more evident that, even with a view to the tranquillity

of our frontier, the half measures hitherto adopted were HISTORY. insufficient. In the summer of 1889 an old quarrel broke out afresh between two\* of the most important tribes of Upper Zhob which if left to itself would have led to fresh complications. The Officiating Agent to the Governor-General, Sir H. N. D. Prendergast, K. C. B., V. C., himself marched to the spot, and after considerable trouble arrangements were made to settle the feud. It was apparent that without some central authority on the spot to enforce obedience to law, the quarrels of the Zhubis would lead to perpetual disturbances, which must injuriously affect our frontier district and the military communications, such as the Frontier Road. It was, therefore, decided by the Government of India to accept the offer of the people and occupy Zhob, and at the same time to open the Gomal route, so as to render it practicable for communication with Afghánistán. Mr. R. I. Bruce, C. I. E., Deputy Commissioner of Déra Ismáíl Khán, was placed under the orders of the Agent to the Governor-General for the purpose of dealing with the tribes having political relations with the Punjab, namely, the Shíránis and Wazírs, and he joined the Agent to the Governor-General at Loralai on the 18th of December, 1889. The expedition which comprised the troops noted in the margin\*

\* 470 Sabres, 6th Bengal Cavalry; 500 Bayonets, 23rd Pioneers; No. 3 Pesháwar Mountain Battery.

under the command of Colonel Jennings, 6th Bengal Cavalry, marched

from Loralai on the 19th of December and reached Apozai on the 26th.

Some distance short of Apozai the expedition was met by Umar Khán, the chief of the Abdullazais, and a little further on by a deputation of the Mando Khél *maliks*, headed by Akhtar Khán and Akram Khán, the nephew and son of Khánán Khán. They reported Khánán Khán's death two days previously, and Akhtar Khán presented a written document addressed to Sir Robert Sandeman in which

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\* Mírzai and Khoedázai Sanzar Khél Kákars.

## HISTORY.

Khánán Khán had expressed his pleasure at his coming to occupy Zhob, his regret at having no hopes of seeing the Agent to the Governor-General, and recommending to Sir Robert Sandeman's care his sons and family who would be entirely at his service and disposal. A *darbár* was held at Apozai, which was attended by Sardár Shingul Khán, son of Sháh Jahán, and by all the chief *maliks* of Zhob, including the Abdullazais and Mando Khéls, in which the objects of the mission were explained, namely, that Government had listened to their request and had decided to establish in Zhob the same reign of peace and order as elsewhere in Baluchistán, and to guard them from being raided, as they had been in the past, by their neighbours, the Shíránis and Wazírs.

During the next few days a site was selected for a cantonment about 2 miles from the village of Apozai, which cantonment was afterwards appropriately named "Fort Sandeman"; work was undertaken to improve the water supply, and the Superintending Engineer, who had accompanied the Mission, commenced the laying out of a road to the Gomal. In the meantime the Deputy Commissioner, Déra. Ismáíl Khán, had sent messengers to summon the *jirgas* of the Shíránis, Haripál, Mahsúd and Zalli Khél Wazírs, and the Dotánis; and Captain MacIvor, who had been appointed the first Political Agent of Zhob, distributed the service of Rs. 25,000 per annum sanctioned by the Government of India for the Mando Khéls. As there was some delay in the coming in of the *jirgas* summoned by Mr. Bruce, the opportunity was taken to visit the country to the north-west towards the Kundar river. Lieutenant-Colonel Holdich, R. E., accompanied by Captain MacIvor and Lieutenant Mackenzie, R. E., succeeded in reaching the Kundar at the spot where the Gustoi stream joins that river. In the meantime the *jirgas* of Mahsúds, etc., had come in, and matters were arranged with them successfully. The only tribe that did not come in was the Largha division of

the Shíránis, who live on the eastern slopes of the Sulaimán range. A separate settlement was, therefore, concluded with the Bargha division, who were placed under the charge of the Political Agent, Zhob. All these arrangements being complete, the Political Agent, Zhob, with a small garrison, was left at Apozai, and the Agent to the Governor-General, with the remainder of the expedition started on the 22nd of January, 1890, for the Gomal pass. HISTORY.

Since the occupation of Zhob, relations with the Jogízai Sardárs had been of the most amicable nature, except in the case of Dost Muhammad and his son Bangul. Sardár Shahbáz Khán, Sháh Jahán, and others, through their working representative Sardár Shíngul Khán, gave loyal and willing assistance. Sardár Dost Muhammad and Bangul, however, held aloof and from their strongholds in the mountains north of the Zhob valley, continued to harry the Kákar tribes who had submitted to us and to give refuge to all the outlaws and malcontents who flocked to them. Opportunity was taken of the movement of troops from Quetta to Apozai for the Shíráni expedition in November, 1890, to explore the country lying to the north of the main Zhob valley and to endeavour to capture Dost Muhammad and Bangul with their band of outlaws. The troops under General Sir George White, K.C.S.I., V.C., accompanied by Sir Robert Sandeman, marched through the country in two columns. Bangul deserted his stronghold at Tánishpa which was blown up and an engagement was entered into by the Sháhézai and other sections of the Jalálzais of the Khaisora valley and Tánishpa and by the Mardánzais, in which they engaged not to permit the outlaws to return to Tánishpa. Bangul and Dost Muhammad on being thus driven across the Kunder, took up their abode for various periods at Pálézzgír, Sáleh Kárez, Málkand, and elsewhere in the trans-Kunder Kákar country. From thence their followers on numerous occasions crossed the Kunder and committed robberies and outrages in Zhob. In 1892

Relations  
with the Jogí-  
zai family  
after the  
occupation of  
Zhob.

HISTORY.

Major MacIvor visited the trans-Kundar Kákar country and though the attempts to capture these men proved unsuccessful, his mission brought about extremely beneficial results. Dost Muhammad and Bangul were obliged to retire from Kákar limits and to take refuge in Afghán territory; and the Kákar tribes trans-Kundar clearly recognised for the first time that they were British subjects. In September, 1892, Dost Muhammad with his two younger sons came in and gave himself up to the Political Agent, Zhob, though his eldest son Bangul held on. The opportunity of Dost Muhammad's return was taken to settle the case of Sháhmar's murder by Bangul in 1885 already referred to. The case was placed before a *jirga* at Fort Sandeman and a settlement was arrived at on the 18th of November, 1892, the blood-money being fixed at Rs. 5,000.

Murder of  
Sardár Shíngul, son of  
Sháh Jahán  
( Nawáb  
Kahol ).

The settlement gave satisfaction to both parties and was approved of by Sháhmar's eldest son, Dínak. To celebrate the close of this longstanding feud, Major MacIvor gave a feast the same evening. During this feast a lamentable occurrence took place which more than undid all the good results of the settlement. Dínak, a youth of some 20 years, who had always been known as a boy of weak intellect, suddenly got up and with his father's sword, a weapon of well-known history, which had only that day been restored to him as part of the settlement of the case, attacked Sardár Shíngul and dealt him two heavy blows on the arm which proved fatal. No satisfactory reason could be shown for this hostility on Dínak's part, and a suspicion arose that he had been made a tool of by Sardár Dost Muhammad and Malik Sultán Muhammad Pakhézai. The case was placed before the Sibi *jirga* in February, 1893, and the members of the *jirga*, though finding no actual proof of instigation on Dost Muhammad's part in Shíngul's murder, considered the grounds of suspicion against him so strong that they recommended his and Sultán Muhammad's detention at Quetta. Dínak was sentenced by

Major MacIvor to transportation for life and Sardár Muham- HISTORY.  
mad Akbar, eldest son of Sardár Shíngul, was appointed  
Sardár of Zhob; the title of Sardár Bahádur was sub-  
sequently conferred upon him in 1897.

Bangul Khán at the beginning of 1893 was living with Submission  
the Tokhí Ghilzais at Jabbár Kila in Afghán territory. of Bangul  
The capture of the notorious outlaw Gola and four others KHÁN.  
and the punishment of death awarded to Gola for numerous  
murderous outrages, produced a strong effect on the minds  
of Bangul and his followers. Bangul had also received  
orders from His Highness the Amír either to come to Kábul  
or leave Afghán territory and was thus compelled to choose  
between exile in Afghánistán or throwing himself on the  
mercy of the British Government. The deaths of Sardárs  
Sháh Jahán and Shíngul Khán in 1892, and of Sardárs  
Shahbáz Khán and Núr Muhammad in 1893, probably also  
had some share in determining Bangul's decision since no  
men of any weight remained in Zhob, except the young Sardár  
Muhammad Akbar Khán; and Sardár Shahbáz Khán's  
eldest son, Zarghún Khán, was only ten years of age. When,  
therefore, Lieutenant A. H. (now Sir Henry) McMahan,  
then Political Agent in Zhob, sent Bangul a letter placing  
before him the hopelessness of his position and strongly  
advising him to come in and throw himself on the mercy  
of Government, Bangul and his followers left Afghán  
territory, and came to Hindubágh where, on the 24th of  
June, 1893, they surrendered themselves unconditionally to  
Lieutenant McMahan. Bangul's offences rendered him  
liable to be severely dealt with. There were, however, a  
number of extenuating circumstances in his case. These,  
and the completeness and evident good faith of his  
surrender, decided Government to deal leniently with him.  
The Agent to the Governor-General therefore received  
Bangul's submission in *darbár* at Ziárat and accorded  
him forgiveness for his past offences, on condition of  
adequate security being furnished by him and by his

HISTORY.

father, Dost Muhammad, for their future good behaviour and non-interference in the affairs of the Jogízái family. After this Bangul Khán proved himself a valuable servant of Government. Later on an allowance and a revenue-free grant of land were conferred upon him. In January, 1894, Bangul Khán and other Sardárs were taken on a tour round India and visited among other places Lahore, Calcutta, Bombay, and Karáchi. The tour was very successful and had a salutary effect on the minds of the chiefs. He accompanied Sir Henry McMahon during the Afghán Baloch Boundary demarcation in 1894-95 and again on the Seistán Arbitration Commission in 1903-05 and did good service. He was made a Sardár Bahádur in 1897 and Nawáb in 1906. But unfortunately in May, 1906, in an affray in which his son, Zaríf Khán, was concerned and in which Muhammad Akbar was wounded by Zaríf Khán, Bangul was shot at Kila Saifulla and died the same evening. The case is still (1906) under enquiry.

Administra-  
tive arrange-  
ments.

Upon the formation of the Zhob Political Agency in 1890, the newest tahsílís of the Thal-Chotiáli Agency, namely, Bori, Sanjáwi, and Bárkhán were transferred to Zhob, with the exception of the Loralai cantonment and station, which remained as the head quarters of the Thal-Chotiáli District. Thus the new Agency included Bori, Bárkhán, Sanjáwi, the Zhob country proper, including the Mando Khéls, and the Kibzai and Músa Khél countries. The Bargha Shírání and Harípál country, that of the Jáfar Patháns and Kharshíns at Drug, and the Zmarai, Isot, Marghazán, and Bulfarz countries were subsequently added to the District. A Political Agent was placed in charge, with an Assistant Political Agent and two Native Assistants or Extra Assistant Commissioners; the Assistant Political Agent, besides his ordinary duties, was put in responsible charge of all the levies and police of the District. In 1895 a second Assistant Political Agent was added and placed in charge of the Upper Zhob sub-division.



## ADMINISTRATIVE ARRANGEMENTS. 47

In 1890 the formation of the Zhob Levy Corps was sanctioned, HISTORY. and Captain W. A. D. O'Mealy, 1st Punjab Cavalry, was selected as its first Commandant. A brief account of the Corps is given in Chapter III. Sanjawi was re-transferred to Thal-Chotiáli in February, 1891, Bárkhán in April, 1892, and in January, 1894, the Loralai cantonment and station were handed over to Zhob. In October, 1903, the new Loralai District was formed to which were transferred the Bori, and Músa Khél tahsils of the Zhob District. The Assistant Political Agent in charge of Upper Zhob was at the same time transferred to the Loralai District. In the same year the necessity for an additional British Police Officer was brought to the notice of the Government of India and it was proposed to appoint an Assistant District Superintendent of Police for the Districts of Loralai and Zhob. Pending final decision of the Government of India, the Honorary Assistant District Superintendent of Police of the Sibi District was deputed in December, 1903, to take charge of these Districts and to report on the general working of the police; the Assistant Political Agent at Fort Sandeman being relieved of the police work. This temporary arrangement is still in force (1905). The separation of the Zhob from the Loralai police force was proposed in 1905, the withdrawal of various military detachments at sub-treasuries and elsewhere and their replacement by Police and Levies being also suggested.

The chief political event of the year 1892 was the advance made by His Highness the Amír's officials in the direction of Important events, 1892. the District. On the 31st of January, 1892, Saifulla Khán, Governor of Katawáz, and Mansúr Khán, Governor of Mukur, with about 120 sowars and *khásadárs* arrived suddenly at Gulkach, having marched from Katawáz down the Gomal river. The two Governors, after visiting Girdao, Sri Toi, and other places, went back to Kábul leaving a small outpost at Gulkach on the north bank of the Gomal river, which was subsequently relieved by about 50 *khásadárs* under

**HISTORY.** Yusaf Ali Khán, a brother of Mansúr Khán. In view of these proceedings, it was decided to carry out the intended occupation of Gulkach on the south of the Gomal and this post was accordingly held by a detachment of the Zhob Levy Corps. Much excitement was caused in the District both by these proceedings and by the arrival at Wáno and Zarmelán of detachments of Afghán troops. Their presence gave rise to exaggerated rumours relative to the Amír's attitude towards the British Government. This feeling was increased by the movement in July, 1892, of another party of the Amír's men under Sardár Gul Muhammad to Gustoi within the Zhob District. Major MacIvor, however, lost no time in proceeding to Gustoi with a small escort of troops and levies and on his approach the Amír's men withdrew.

The year 1895 was characterised by an outbreak on the part of the Chúhar Khél Shíránis. Owing to a dispute with the Khidderzais over the matter of the abduction of a woman, they committed in June, 1895, a series of murders including Lieutenant Home, R. E., the officer in charge of the construction of the Dahánasar road. The gang were pursued but succeeded in effecting their escape through the Shíráni hills into Afghán territory, though one of their number was captured in the following November, sentenced to death and executed.

The following Officers have held the appointment of Political Agent :—

Captain I. MacIvor, B. A., C. E., 22nd of January, 1890, to 14th of March, 1893.

Major C. E. Yate, C. S. I., C. M. G., to 1st of April, 1893.

Lieutenant A. McConaghey to 17th of April, 1893.

Captain A. H. McMahan, C. I. E., to 21st of August, 1893.

Lieutenant A. McConaghey to 24th of January, 1894.

Captain C. Archer to 24th of August, 1896.

Captain P. T. Spence to 18th of November, 1896.

Captain C. Archer to 21st of December, 1897.

Captain F. Macdonald to 18th of September, 1898.

Captain H. L. Showers to 5th of November, 1898.

Captain F. Macdonald to 1st of May, 1899.

Captain H. L. Showers to 20th of November, 1899.

Captain F. Macdonald to 28th of March, 1901.

Major S. H. Godfrey to 26th of October, 1902.

Captain A. B. Dew to 17th of May, 1903.

Captain A. L. Jacob to 5th of June, 1903.

Lt.-Col. G. Chenevix-Trench to 31st of March, 1906.

The only objects of any archæological interest to be found in the District, are a number of mounds which are said to be the ruins of old cities or forts and are ascribed to the time of the Mughals. Ruins of old buildings are situated at Kodan (Sharghala) near Malawar, 7 miles to the west of Fort Sandeman. Near Jhalár, 9 miles to the west of the same station, exist other ruins known as *Maghbia ghundi*, and hence ascribed to the Mughals. A mound situated in Mína Bázár and another called Kánroki more to the west on the bank of the Zhob river are alleged to date from Nádir Sháh's time. A mound known as the Dérai lies 3 or 4 miles from Fort Sandeman on the right bank of the Zhob river. Another similar mound called Kabdanai is situated 2 or 3 miles further north. Near the Déra village about 7 miles north-west of Fort Sandeman exists a third mound called Sáng. All these are alleged to be the ruins of ancient Mughal towns.

The ruins of an old fort called *Mughalo kila* or "the fort of the Mughals" are to be found to the west of the Kárézgai village, 2 miles from Hindubágh, below which there is a spring of water which was re-opened about 35 years ago. Fragments of ancient pottery are found in these ruins, and it is said that old silver and copper coins used also to be found. The ruins of a fort called Khánki lie near Shína Khura about 16 miles east of Hindubágh.

**HISTORY.** Local tradition asserts that the fort was held by Míro, a Mughal governor, and was miraculously overthrown by Sanzar Nika, the progenitor of the Sanzar Khél Kákars. There are also ruins of an old fort called the *Mughalo brunj* about 800 yards from the Murgha Fakírzai Rest House.

Similar ruins occur near Toiwar, Sharan, Ismáílzai, and on the Zhar hill near Akhtarzai Rest House.

**Old Kárézes.** There also exist ancient *kárézes* said to have been made in Mughal times, for instance, Káréz Akhtarzai, Káréz Soghai, and Mustafa Káréz in the Kila Saifulla tahsíl and 2 *kárézes* in Sra Khulla, about 4 miles from Hindubágh, which may be considered as relics of archæological interest.

**Band-i-Dáwi.** This dam is said to have been constructed by the Dáwi tribe in the reign of Nádir Sháh and is situated at Kuria Wasta between Káréz Kamr-ud-dín and Késhatu; an account of it will be found in Chapter II.

**Old coins.** The only important find unearthed in the District is referred to by Professor Rapson of the British Museum in his pamphlet,\* “Ancient Silver Coins from Baluchistán,” and the passage may be quoted here *in extenso* :—

“In February of the present year I received from Mr. Hughes-Buller fifteen specimens of the so-called ‘punch-marked’ coins of India. These were found in a pot by some boys near the village of Aghbarg, in the Shírání country of the Zhob District. These punch-marked coins represent the primitive currency of India. They are little more than square or oblong weights of silver stamped with symbols, which are probably mostly those of different bankers or money changers, who had from time to time satisfied themselves of their correctness in weight, or of the quality of their metal. They date from at least the fourth century B. C., and may be earlier; and they remained in circulation for different periods in different parts of India. They have been found throughout India from the

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\* Reprinted from the *Numismatic Chronicle*, Fourth Series, Vol. IV, London, 1904, page 3, *et seq.*

Himalayas to Cape Comorin but it is new and interesting to find them in Baluchistán."

"The special interest in the Afgháns for Baluchistán lies in the fact that the traditional home of the race lies within its boundaries. Afghán genealogies, whatever be their value, all commence from Qais Abdur Rashíd, who is alleged to be thirty-seventh in descent from Malik Tálút (King Saul). His home was in the tract immediately to the west of the Koh-i-Sulaimán, which is known to the Afgháns as Khorásán and to us as Kákar Khorásán. From Qais Abdur Rashíd sprang three sons, Ghurghusht, Saraban, and Baitan, and the descendants of these eponymous ancestors are still to be found living in large numbers round the slopes of the Takht-i-Sulaimán. From Ghurghusht, according to the genealogists, were descended three sons, Mando, Bábi, and Dáni. The descendants of Mando are represented by the Mando Khéls of Zhob. We have a few Bábis in Quetta-Pishín and Kalát, and although Dáni has not become the eponym of a tribe, his descendants constitute two of the most important tribes of the Province, namely, the Kákars and the Pannis. \* \* \* Saraban's descendants divide themselves into two groups, whose ancestors were his two sons, Khair-ud-dín *alias* Kharshabún and Sharf-ud-dín *alias* Sharkhabún. Kharshabún's immediate descendants are represented by the Zamands, a few of whom are to be found in Pishín, and the Kásis, who live close round Quetta. The rest of the descendants of Kharshabún are the Yúsufzais, the Tarkalanri, and the Utmán Khél, the main body of whom are to be found in Dír, Swát, and Bajaur, whilst a few are said to have amalgamated with the Dohwárs of Mastung. Among the Yúsufzais of Swát the tradition exists that they migrated from Ghwara Murgha in Khorásán, and a curious verification of this statement was obtained by Major (Sir Henry) McMahon, while marching along the Kundar river, which leads from Khorásán into the Gomal. At one of his halting

POPULATION.  
Ethnogra-  
phical history.

POPULATION. places, Gustoi, he discovered remains which appeared to be those of a walled encampment of considerable extent, and enquiries from the local inhabitants, to whom the existence of the Yúsufzais of Swát was unknown, elicited the fact that, according to their traditions, the old encampment had been held by a tribe called Yúsufzai.

“The descendants of Sharkhabún, Saraban’s other son, were five in number—Taría, Shírání, Miáni, Baréch, and Urmar. Taría, Shírání, and Baréch are at once identifiable as the names of important tribes still to be found in Baluchistán. It is only among the Marris that the name Miáni can be localised, where they constitute only a small group, but other representative descendants of this grandson of Saraban are the Lúis of Thal-Chotiáli, amalgamated with whom are to be found the descendants of another son of Miáni, the Laths; the Jáfars of the Músa Khél tahsíl\* of Zhob; the Silách, who are to be found among the Hasni section of the Khetrán tribe, the Zmarais, and the Bulfarz or Bulfarth section of the Isot tribe.

“Few of the descendants of Baitan have their homes in this Province, but many of them re-visit the homes of their ancestors in the course of their annual migrations. I refer to the numerous nomad sub-divisions of the Ghilzais—the Sulaimán Khéle, Násars, Kharotis, and others. Close to our borders, across the Gomal, the name of the common ancestor can still be localised in the Baitanis of the Déra Ismáíl Khán District.” †

According to local tradition almost all the present Afghán tribes of the Zhob District allege that they supplanted the Mughals in the time of Sanzar Nika, the progenitor of the Sanzar Khél Kákars, who was fifth in descent from Qais Abdur Rashíd; that they were primarily pastoral, but gradually began to till the land. The exist-

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\* Now in the Loralai District (1906).

† *Census of India, 1901*, Volumes V and V-A, Baluchistán, Chapter VIII, by E. Hughes-Buller, I. C. S.

ence of ruins of old forts, villages, and underground water channels called after the Mughals corroborates the local tradition. The Bargha Shíránis and the Khosti Saiads are said to have been recent immigrants, the former having moved from the country east of the Sulaimán range some three hundred years ago. POPULATION.

The first regular census of the District, the results of which have been published, was carried out in 1901. The District was divided into three divisions for the purpose— (a) the head quarter stations, bazars, and military outposts in which a synchronous enumeration was made on the standard schedule; (b) the tribal area, i.e., the country occupied by the Sulaimán Khéls in which estimates were prepared through the headmen of the tribe; and (c) the remainder of the District in which a rough house to house enumeration was made by the subordinate revenue staff. This was not synchronous. The results arrived at gave a total population of 69,718, of which 5,152 were censused on the standard schedule, and represent, in the main, the non-indigenous population of the District. A detailed statement containing the principal census statistics will be found in table II, Volume B. Density and growth.

No previous figures are available to afford comparison and to illustrate the growth of population, but it may be assumed that the greater security to life which has attended the British occupation, and the rise in the standard of living has led to more frequent marriages and a consequent increase in the birth rate. It may be mentioned that in 1890 the number of fighting men of the Hasan Khél, Oba Khél, and Chúhar Khél clans of the Bargha Shíránis was computed at 540, while in 1901 the number of adult males of these clans was found to be 967.

According to the census of 1901, the total number of occupied houses in the District was 15,557; 1,061 in towns and 14,496 in the villages. Of the total population of

**POPULATION.** 69,718\* the urban part numbered 3,552 and the rural portion 66,166. The incidence of population per square mile is 7, the highest being 9 in the Fort Sandeman tahsil and the lowest 5 in the Hindubagh tahsil. The population per house in the urban area is 3·3 and in the rural area 4·5

**Towns and villages.**

The only town in the District is **Fort Sandeman** which has grown up since the British occupation in 1890 and is inhabited largely by an alien population.

In pre-British days, the number of villages was smaller, the people being obliged to live together for offensive and defensive purposes. There is now a tendency to spread out, and new villages and hamlets are gradually springing up. Since the British occupation, 69 new villages and hamlets have been established in the District: 38 in Hindubagh, 21 in Fort Sandeman, and 10 in the Kila Saifulla tahsil. The District possessed a total of 245 villages in 1901, in an area of 9,626 square miles or one village in every 39 square miles. Fort Sandeman has one village in 33 miles, Hindubagh one in 43 miles, and Kila Saifulla one in 46 miles. There are few villages which have a population of over 1,000 souls. The most important places are mentioned in Chapter IV in the Miniature Gazetteer of each tahsil.

**Migration.**

As in other parts of Baluchistán, a continuous flow of migration is constantly going on, the causes being the nomadic habits of some of the tribes, the variations in the climate, and trade. The Sargara flockowners of Hindubagh spend their winter in the Duki and Bori tahsils, the Isa Khél Sanatia, and the Mazárzai, Gházezai and Asozai Mehterzais move to the Kárézát-i-Kákari and Surkháb circles in Pishín, while the Mírzai, Khoidádzai, Mardánzai, Fakírzai and Macharzai Sanzar Khél flockowners spend the summer in Kákar Khurásán. Similarly the flockowners of the Kila

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\* This figure does not include the population of Loralai and Músa Khél tahsils which formed part of Zhob District in 1901, and which are now included in the Loralai District.



**EMIGRATION AND IMMIGRATION. 55**

Saifulla tahsíl migrate to Khurásán in the spring and return POPULATION.  
in the autumn, and the Sulaimánzai section of the Mando Khéls and Huraszai and Mardánzai Sanzar Khéls graze their flocks from September to March in the Spéra-ghar and Sáug-ghar hills and from April to August in Khurásán. The poor among the people of Hindubágh migrate after the *rabi* sowing to Pishín and Quetta, those of Kila Saifulla to Bori and Fort Sandeman where they work as labourers, returning home about the end of May when the *rabi* harvest is ready. Most of the tribesmen who are engaged in agriculture live in winter in their huts, and in summer are scattered about their fields or move to the nearer hills.

The majority of the Haripáls (males 833) and some of the Bábars, Bargha Shíránis, Mando Khéls and Kibzais of the Fort Sandeman tahsíl regularly leave their country in April, visit Siáhband, Herát, and Maimana where they spend three months in collecting the asafetida drug, and return home in October, the journey each way occupying about two months. Some of them take the drug for sale to Déra Ismáíl Khán, and go as far as Bombay in the south and Cawnpore in the north of India. A few of them also visit the Zarghún hills in the Sháhrig tahsíl of the Sibi District, and the Western Sanjrání country to collect asafetida. A considerable number of the Kibzai, Abdullazai, Mando Khél and Bábar periodically visit Kandahár, Herát and Turkistán where they spend two to three years and deal in sheep and *postíns*. Emigration  
for trade.

The periodic immigrants into the District are the Taraki, Periodic  
immigration.  
Andar, Kharot, Shinwár, Mala Khél, Násar, Mia Khél, Sulaimán Khél and Dotáni clans of the Ghilzais. Of these, the Taraki, Andar, Kharot, and Mala Khéls are chiefly flockowners who enter the District by passes between Kamr-nd-dín Káréz and Késhatu. Some go towards Pishín and Shoráwak, others graze their flocks in Hindubágh and Kila Saifulla and some go to Fort Sandeman. Some of them move on to Músa Khél, Duki, and Bori.

POPULATION. The Mala Khél, Kharot and Mia-Khél, and Násars who own camels and carry on trade in wool, *ghí*, and almonds come through the passes east of Kamr-ud-dín Kárez, between it and the Gomal and go to the Déraját in the winter, and some of them proceed as far as Calcutta where they engage in the cloth trade. The Mala Khél camelmen leave their families in *dámán* and themselves spend the winter in the District and engage in transport work. The Zangi Khél section of the Násars, who own goats, live near Fort Sandeman from April to September and sell milk and graze their flocks in the *dámán* during winter. The Sulaimán Khéls spend the winter in the Fort Sandeman tahsil, and the Dotánis migrate to the District from Wazíristán in October and graze their flocks throughout the winter. These Ghilzai Powindabs generally come from Afghánistán during October to December, and return to their homes during April and May. A further account of them is given under the Ghilzai tribe.

Immigra-  
tion from  
India.

In 1901, 6,216 persons (5,601 males, 615 females) were enumerated in the old Zhob District (which then included also the Loralai and the Músa Khél tahsils), as having been born in Provinces of India beyond Baluchistán, and 663 who had been born in Native States in India beyond Baluchistán. Countries adjacent to India chiefly Afghánistán had contributed 790 immigrants. These figures include the sepoy serving in Native Regiments.

The Province in India from which most immigrants come, is the Punjab (4,823), which is followed by the United Provinces (983). Sind and Bombay come next with 206 and 63, respectively. Of Native States those of Rájputána (304) and Punjab (173) supply the major portion. The immigrants from the Punjab are drawn principally from the Districts of Jhelum, Déra Ismáíl Khán, Siálkot, Amritsar, Ráwalpindi, Gujranwála, Sháhpur, Gujrát, Ludhiána, Hoshiárpur, Jullundur, Pesháwar, Gurdáspur, and Déra Gházi Khán.

No record of age was attempted in 1901, except in the town of Fort Sandeman, and in the bazars and military outposts which were enumerated on the standard schedule; in the District the only classification was adults and minors. Out of a total indigenous population of 64,417, there were 21,018 adult males and 18,818 adult females. The number of children, 12 years and under, was males 13,840 and females 10,741. In the town of Fort Sandeman for which alone accurate figures are available, out of a total population of 3,552 (males 3,139, females 413) 2,338 males and 196 females or a total of 2,534 persons were between the ages of 20 and 40 years.

Age statistics, vital statistics, infant mortality and infirmities.

Vital statistics are not recorded in the District. In 1905, a summary enquiry regarding the birth and death rate was made by the tahsíl officials by selecting a few villages in each tahsíl, the result obtained indicating 6·06 per cent. births and 5·73 per cent. deaths in the Fort Sandeman tahsíl, and 5·67 per cent. births and 5 per cent. deaths in the Kila Saifulla tahsíl, on the total population of those villages during the preceding 12 months. The birth and death rate in each tahsíl was as under—

|                  | FORT SANDEMAN. |         | KILA SAIFULLA. |         |
|------------------|----------------|---------|----------------|---------|
|                  | Births.        | Deaths. | Births.        | Deaths. |
| Boys ... ..      | 3·64           | 1·98    | 3·17           | 1·07    |
| Girls ... ..     | 2·42           | 1·34    | 2·52           | 1·11    |
| Adult Males ...  | ...            | 1·11    | ...            | 1·60    |
| Adult Females... | ...            | 1·3     | ...            | 1·22    |

The conditions in the Hindubágh tahsíl are similar to those prevailing in Kila Saifulla.

The indigenous population, as a rule, are not long-lived owing to constant exposure and bad nutrition.

**POPULATION.** The same summary enquiry, to which a reference has already been made, shows that of a population of 5,662 in the selected villages, the total number of afflicted persons was 74 or 1·31 per cent., of which 54 were males and 20 females. These included 41 blind (29 males, 12 females) and 28 deaf and dumb.

**Comparative number of the sexes and civil condition.** The disproportion of women to men in the Fort Sandeman Bazar and military station was very great in 1901, as there were only 132 women to every thousand men.

Among the rural population there were 29,668 women and 36,498 men or 813 women to every thousand men. Among the Kákar Afgháns, who form the major portion of the population the proportion of females to males was 850 to 1,000. The Mando Khéls had 879, Shíránis 890, the Saiads 935, and the Ghilzais 776 females to 1,000 males. No record was prepared in 1901 of the civil conditions of the indigenous population.

**Marriage customs.**

Among the indigenous classes every man marries as soon as he possibly can, but the necessity of paying bride-price (*walwar*) compels many to wait till middle age. This is specially the case with the poorer nomadic classes. Girls are rarely given in marriage till they have reached the age of puberty, one of the most important reasons being the heavy domestic duties which devolve on a wife and which can only be performed by a full grown woman.

So far as can be ascertained polygamy is rare, except among the well-to-do, though the people have no objection to a plurality of wives up to the limit of four prescribed by Muhammadan Law.

The summary enquiry instituted by the tahsíl officials, to which a reference has already been made, elicited that in a population of 5,662, the number of married males was 1,246 or 22·4 per cent., of whom 223 or 4 per cent. only had more than one wife, the percentage being higher (4·51) in Kila Saifulla than (3·05) in Fort Sandeman. As a rule, only the wealthy can afford to take more wives than one, though

polygamy is occasionally forced on the poor among the Afgháns by the custom which requires that one of the surviving brothers or cousins must marry a widow. POPULATION.

Marriage with near relations, though not always the rule, is preferred, because exchanges can easily be arranged, the bride-price payable is less, the parties are already mutually acquainted and their tribal relations are strengthened by the marriage tie.

Among the well-to-do a man does not usually marry before the age of twenty; the bride is generally about four years younger. Among the poorer classes both the bridegroom and the bride are, as a rule, older. In rare cases infant betrothals take place, generally among very near relations. Ordinarily a man has nothing to say in the selection of his bride, but when his parents wish him to marry they look for a suitable girl, and the first step taken is to send a female relation to see her and to satisfy herself about her personal appearance and other qualifications. Among the very poor, or when marriage takes place among the well-to-do at an advanced age, the man makes his own choice. The girl having been approved, the father of the bridegroom with some of his relations (*marakka*) goes to the girl's father, and, if the preliminary overtures are well received, the amount of bride-price (*walwar*), the portion of it to be paid in cash and in kind, and the presents (*kor*), which the father will, at the wedding, give to his daughter, are discussed and settled. A deduction on account of the value of presents is sometimes made from the amount of *walwar*, and in such cases the parents make no presents to the daughter at the time of the wedding. When matters have been arranged, the *mullá* offers prayer (*fáteh*) and congratulations are offered to the bridegroom's father. The girl's mother then presents the bridegroom's father with a handkerchief or the collar of the girl's dress, and a needle in the eye of which has been inserted a silk thread. The bridegroom's father presents the bride with an ornament Marriage ceremonies.

POPULATION. made of silver coins called *zarungae*. This is the distinctive sign of maidenhood and is not removed until the woman becomes a mother. Guns are then fired. This is the preliminary step in the betrothal and is known as the *hokra* or *ghusht* and it is binding, and after it has taken place, it is considered a want of good breeding on the man's part to retreat without a plausible excuse, and any one who does so is regarded with contempt. In the case of the woman the *hokra* is considered binding except under special circumstances, such as adultery on her part or strong suspicion of it.

After about a month a party of the bridegroom's relations goes to the bride's father, and pays him a portion of the *walwar*. The bride's father presents embroidered cloth, pouches used for keeping antimony and tobacco in, and in the Kila Saifulla tahsil a *paijama* string and the collar of the girl's dress. This is the *kozda* or betrothal, and at this time there are again general rejoicings, dancing, etc. After the *kozda* the bridegroom is permitted to visit the bride at her parents' house and enjoy all the privileges of a husband.

When the *walwar* has been fully paid, a date is fixed for the marriage (*nikáh* or *wáda*), when a party of the bridegroom's relations and friends (*wra*) go to the bride's house, and bring home the bride. The marriage service (*nikáh*) is performed by a *mullá* in the bridegroom's house within three days. Marriages are generally performed after the wheat harvest has been gathered in, but they are not celebrated during the month of Safar, the first ten days of Muharram, and the period intervening between the two Ids. Besides the *walwar*, the bridegroom has to supply provisions (*khushai*) to the father of the girl for the entertainment of the wedding guests. In the case of widow re-marriages no ceremonies except the *nikáh* are observed. A curious custom is that on the day of the marriage the elder brothers, if any, of the bride, out of shame, leave the village.

The ceremonies of marriage described above prevail among the Kákars of the Hindubágh tahsil, but with a few local modifications, apply to other Afghán tribes of the District including the Khostis. Among the Sanatia Kákars of Hindubágh, after the *kozda*, the bridegroom presents the bride with a dress, a wrapper to her mother, and sweet-meats, all collectively known as *jora*, after which he visits the bride and enjoys all the privileges of a husband. If the girl becomes pregnant whilst in her father's house, the date of the marriage is expedited and the bridegroom is sometimes required to pay a penalty (*sharmána*) which varies from Rs. 30 to Rs. 40. The *nikáh* among the Sanatias is performed at the bride's house. Among the Mando Khéls, when a part of the *walwar* has been paid after the *kozda*, the bridegroom can visit the bride at her father's house. Among the Shíránis and Khostis, the bride and bridegroom are not permitted by custom to meet before the marriage ceremony (*nikáh*) has been performed. In the case of the bride's death before the marriage, the full amount of *walwar* paid is refunded among the Shíránis, while among other tribes only half of the sum paid is refunded.

The amount and method of payment of *walwar* is the most important factor in all matrimonial arrangements. In pre-British days money was scarce, and the bride price was low, varying from Rs. 30 to Rs. 50 for a virgin, and except the small amount required for ornaments, it was generally paid in sheep, goats, donkeys, camels, cattle, grain, or arms, and, occasionally, in land. The present rate of *walwar* among the Sanzar Khéls is from Rs. 200 to Rs. 700; among the Mando Khéls, from Rs. 300 to Rs. 500; among the Shíránis of Fort Sandeman, from Rs. 400 to Rs. 700; among the Khosti Saiads, from Rs. 300 to Rs. 700; and, among the Sargaras of Hindubágh, from Rs. 300 to Rs. 400. Among the Jogízai Sardár Khél of Kila Saifulla, the bride-price is about Rs. 1,000. But the amount

Bride-price.

POPULATION. depends on the position of the bride's family, her personal qualities, and the paying capacity, age, and social position of the suitor. If a man wishes to marry above him, or an old man wishes to marry a young girl, he has to pay a higher price than an ordinary suitor. The *walwar* paid for a widow is generally half the amount paid for a virgin, but, in exceptional cases, when a widow is young and attractive, it is more. Dower (*haq-i-mahr*), locally known as *káwin* prevails, and its amount varies according to the position of the parties. It consists of a camel, a head of cattle, or cash from Rs. 2-8 to Rs. 10. When animals are presented, the females are the sole property of the wife, while the males may be killed or disposed of by the husband without her consent. The husband also presents his wife, as dower, with a share, generally one-third, of the merit (*sawáb*), which he hopes to obtain after death by giving alms from his hearth (*anghari*) in his life time.

System of exchange. A custom is also universal among the tribes of exchanging girls, and is called *sarai* or *tsarai patsarai*. Under this system, if there is much difference between the ages of the girls, which are to be exchanged, one being marriageable and the other not, the parents of the younger generally have to pay an additional sum (*baráward* or *sar*) in cash. Similarly an oldish man, who gets a young girl in exchange for one of his female relations, has to make an additional cash payment by way of compensation. This amount generally does not exceed one-fourth of the *walwar* prevalent among the tribes.

*Ar* system of marriage. Among the Sanzar Khéls of the District, a system of marriage known as *ar* is also recognised. This was practised in pre-British days by men of power and influence only and there have been a few instances of it in recent years also. A man enamoured of a girl and refused her hand by her parents, would throw a sheep or goat's head into her house, fire a gun in front of the house, cut off her locks of hair, or ornament (*zarungae*), run away with her



wrapper (*sarai* or *takrai*) pronouncing at the same time POPULATION. that she was his, and no one else could dare to marry her. In due course her parents would be reconciled and the usual *walwar* paid. This system is now dying out.

The marriage expenses vary according to the position of the contracting parties, from Rs. 100 to Rs. 300, excluding Marriage expenses and gifts. the *walwar*; most of which fall on the bridegroom's party. The bride's parents generally present her with a dress and a few silver or brass ornaments, bedding, and some articles of household furniture. A suit of clothes is also given to the bridegroom. Wealthy and leading families present more dresses than one to the bride, and the ornaments and articles of household furniture are more numerous and better. When the value of the presents has been set off against the *walwar*, the bride seldom receives more than a wrapper from her parents.

The usual reasons for divorce are the disagreeable appearance or temper of the woman and immorality proved or suspected. The method of divorce is the throwing of three stones or clods of earth in the woman's lap, or, in her absence, in the lap of her father or brother in the presence of two witnesses. The divorced woman has the status of a widow, and can, among the Kákars, re-marry in her tribe, but, if she be divorced for misconduct, she is not permitted by custom in some of the tribes to marry her seducer. Divorce.

A woman can obtain a divorce if her husband is proved to be impotent. To effect this, pressure is brought on the husband by her parents through the tribal headmen.

Among the Sanzar Khéls and Shíránis if the woman is divorced on account of disagreement, a part of the *walwar* is refunded to the husband, and among the Sanzar Khéls in cases of divorce for misconduct, the man who re-marries the divorcee has to pay a sum of money (*khulla*) to the husband.

Before the British occupation death was the punishment of a faithless wife caught *flagrante delicto*, and among the Shíránis the seducer's right foot or nose was cut off. In case Penalties for adultery.

POPULATION. of misconduct on the part of a widow, her nose and ears were cut off. Theoretically death is still the punishment for adultery, but, in practice, an injured husband is ready to salve his conscience with compensation in girls, money, land, etc.; the amount payable varying in different tribes. No compensation is payable, if both the seducer and the woman are killed. If both escape, the woman is divorced and among the majority of the tribes the divorcee is allowed to marry her seducer on payment of compensation to the injured husband. There is no fixed rate of compensation, it being determined on the merits of each case. Among the Sanzar Khéls, Sargaras, and Mando Khéls the ordinary rate is 2 to 4 girls and Rs. 1,200, and in rare cases women are exchanged, the seducer handing over his wife to the injured husband; among the Shíránis it is Rs 700; among the Khosti Saiads it equals the amount of *walwar*.

The status of  
women and  
rights to  
Property.

Women occupy a very degraded position in the household. As soon as a girl is fit for work, her parents send her to tend the cattle, besides requiring her to take her part in all the ordinary household duties. When she attains a marriageable age, she is, for all practical purposes, put up for sale to the highest bidder. As a wife she must not only carry water, prepare food and attend to all ordinary duties, but she must take the flocks out to graze, groom her husband's horse and assist in the cultivation. With a few exceptions mentioned later, she has no rights in property, nor even to any presents given her at her marriage, and, if divorced, she can only carry away with her the clothes she is wearing. As a widow, too, she is only entitled to a subsistence allowance from her late husband's estate. In the household of a deceased Afghán, widows and girls are merely regarded as assets in the division of his property.

In former days, a brother who did not wish to marry his brother's widow himself, could dispose of her in marriage to any one he chose and appropriate the *walwar*, but an appreciable change has occurred in the position of such widows,

since an important decision given by Mr. ( Sir Hugh ) POPULATION, Barnes, then Agent to the Governor-General, in November, 1892, in the case of Lukmán Kákar *versus* the Crówn.

“ As regards a widow's power of chosing a husband,” Mr. Barnes said, “ Muhammadan Law must not be over-ridden by local inhuman and ignorant custom, and, in all disputes regarding widow re-marriage brought before the Courts in British Baluchistán or the Agency territories, the Courts of Law should follow the provisions of Muhammadan Law, in so far as that Law gives to widows full liberty and discretion to marry whom they please ; and no case of the kind should be committed to a *jirga* for settlement without a clear direction that, on this point of the widow's freedom of choice, no curtailment whatever will be permitted of the liberty and discretion which Muhammadan Law allows her. The only point in which any concession to local tribal custom can be permitted, is that which relates to the payment which should be made by the new husband to the late husband's family. • • • In order to put a stop to the feuds which might otherwise arise from allowing widows to marry whom they please, it is admissible for Courts to settle the sum of money which should be paid to the family of the widow's late husband by the man she proposes to marry. This is the point in the settlement of these cases, which may usefully be made over to a *jirga* for decision.” This decision was re-affirmed by Sir James Browne in June, 1895. The decision is not always followed by the tribesmen, but the women are well aware that they can appeal to the Courts.

Among most of the tribes the women are allowed no share in inheritance; and a local proverb\* to the effect that Inheritance. “ if a brother has a sense of shame, a wrapper would be a sister's share of the patrimony ” illustrates the position of the woman. . . Among the Sanzar, Khéls, Mando Khéls,

\* The proverb in Pashtú is the following :—*Waror che nangyalái st da khor yao tikrai si.*

**POPULATION.** Shíránis, and Khostis, a widow, so long as she does not marry, is permitted to hold one-eighth of her deceased husband's property, both moveable and immoveable, but she does not enjoy any such right among the Sargara Kákars.

Inheritance among males, is governed by tribal custom, but is based on the general principles of *shariát*.

**Language.**

Language, at the Census of 1901, was recorded only in the case of 5,152 persons, who were censused on the standard schedule. Most of them were aliens from other Provinces in India and some from other districts in Baluchistán and spoke their own dialects. The language of the Courts is Urdu, and a modified form of it originally introduced in the District by officials who came in the early days of the British occupation from the Déráját, is making way among the indigenous population; and especially in the villages close to the head quarter stations of the tahsils.

The indigenous population is almost wholly Afghán and speaks Pashtú. The soft Southern dialect, as distinguished from the Pashtú or Northern dialect is alone used. A brief account of its origin is given in Chapter VI (page 75) of Mr. Hughes-Buller's Census Report of Baluchistán for 1901. The Sibzais, now a section of the Akhtarzai, originally spoke the Ghilzai Pashtú, but being now amalgamated with the Kákars, they have adopted their dialect. The medium of correspondence, except in the case of official documents, is Persian; some of the *mullás* among the Sanzar Khél Kákars of Hindubágh carry on their correspondence in Pashtú verse written in Persian character.

**Races,  
tribes, and  
castes.**

The principal race found in the District are the Afgháns, who represent about 98 per cent. of the total indigenous population, to which are to be added 1,138 Saiads and 6 Khétráns. The Afghán tribes of the District include:—

|         |     |     |     |     |        |
|---------|-----|-----|-----|-----|--------|
| Kákars  | ... | ... | ... | ... | 43,068 |
| Shírání | ... | ... | ... | ... | 6,974  |
| Panri   | ... | ... | ... | ... | 5,319  |
| Sáfi    | ... | ... | ... | ... | 345    |

## TRIBAL CONSTITUTION.

67

|                                 |     |     |     |     |       |             |
|---------------------------------|-----|-----|-----|-----|-------|-------------|
| Ghilzai                         | ... | ... | ... | ... | 7,500 | POPULATION. |
| Others ( Taráns 66, Ustrána 1 ) | ... | ... | ... | ... | 67    |             |

Theoretically an Afghán tribe is constituted from a number of kindred groups of agnates. The groups comprising the tribe are divided into a multiplicity of subdivisions, which it is almost impossible to follow, but for practical purposes four are in general use, the *qaum* or main body, the *khál* or *zai* representing both the clan, a group generally occupying a common locality, and the section, a group whose members live in close proximity to one another and probably hold common land, and lastly the *kahol*, a family group united by kinship.

Affiliated with a good many tribes, however, are a certain number of alien groups known as *mindán* or *hamsáyah*. Some instances of these are given in the account of the tribes that follows. In these cases the test of kinship does not apply, and such groups, families or individuals are united to the tribe by common good and common ill. In other words, common blood-feud is the underlying principle uniting a tribe, but the conception merges into the fiction of common blood, i. e., connection by kinship.

The Afgháns are not organised under a common leader, as is the case with Baloch or Bráhui tribes, to whom the tribal officers such as *mukaddams*, *wadéras*, etc., are subordinate, but their more democratic spirit chooses a leading man in each minor group. Heredity is always an important factor among the Baloch, but with Afgháns there is frequent hopping and changing, the weak giving way before the strong and the apt before the inept. Hence individuality has far greater scope among Afgháns than among Baloch or Bráhui, but the retention of influence, once acquired, frequently depends on exterior support, such as that of Government, rather than on the tribesmen themselves.\*

The total number of Kákars in the District in 1901 was 1,068: males 23,273, and females 19,795. They represent

Kákars.

\* *Census of India ( 1901 ), Volumes V., V-A., Chapter VIII.*

POPULATION. 68 per cent. of the total number of Afgháns, and 67 per cent. of the total indigenous population of the District. The Kákars are Ghurghusht Patháns, their progenitor Kák or Kákar being one of the four sons of Dáni and grandson of Ghurghusht, son of Qais Abdur Rashíd. The various descendants of Kákar are shown in a genealogical table prepared, in 1901, by Khán Bahádur Mír Shams Sháh, Settlement Extra Assistant Commissioner, a copy of which is given in appendix III.

The Kákars in the District are divided into three clans:—

|              |     |     |     |     |     |        |
|--------------|-----|-----|-----|-----|-----|--------|
| Sanatia      | ... | ... | ... | ... | ... | 4,429  |
| Sanzar Khéls | ... | ... | ... | ... | ... | 37,666 |
| Sargara      | ... | ... | ... | ... | ... | 765    |

Included among these are a few Dáwi who are descended from Dáwi, brother of Kákar, a group called Lamar, whose origin is doubtful, and a few Targharas.

The Sanzar  
Khél clan.

The Sanzar Khél are descended from Sanzar or San jar, son of Sughrak and grandson of Kákar, and they are known by outsiders as the Saráns and Zhobis. Sanzar Nika was regarded as a saint, and many stories are told in confirmation of this belief. According to local tradition Sanzar was a posthumous son of Sughrak by a Saiad wife named Lazgi who after her husband's death returned to her own home in the Lúni country, where Sanzar was born. When he came of age, he was taunted by his companions with the fact that his father was unknown, whereupon his mother gave him his father's signet ring and told him who he was. Sanzar then came to Hindubágh. Here the Mughal governor, Míro, conspired to kill him, but Sanzar miraculously made his escape, destroyed the Khánki fort and married Míro's daughter by whom he had twelve sons.\*

In the course of the Census of 1901 there seems to have been a misapprehension as to the constitution of the Sanzar

\* Note about certain sections of the Kákars living in the Zhob District of Baluchistán by Rái Sáhíb Dítwán Jamiat Rái, published in the *Journal of the Asiatic Society of Bengal*, Vol. LXXII, Part III, No. 2 of 1903.

Khél, and they were divided into thirty-two sections, but all POPULATION. local authorities distribute them into twelve sections. They have affiliated certain other groups known as the *Waslis*. Among these latter may be mentioned the following :—The Sibzais, who now form a branch of the Akhtarzais in the Kila Saifulla tahsíl and who were originally Hotak Ghilzais; the Adozais among the Sulaimánzai Kibzais who are descended from a widow's son (whose origin is not known) whom Sulaimán, a merchant of Kandahár, abducted. Sulaimán afterwards came to Gosa, bought land and settled there. The Yásinzais among the Abdullazais are said to be the descendants of a foundling whose parentage is unknown.

The principal sections of the Sanzar Khéls are known, after the twelve sons of Sanzar, as Alízai, Abdullazai, Kibzai, Huramzai, Utmán Khél, Barat Khél, Nas Khél, Arab Khél, Parézún, Taimáni, Nisai, and Hindu Sanzar Khél. Of these the Parézúns migrated to the Pishín tahsíl of the Quetta-Pishín District, the Hindu Sanzar Khéls are in Shikárpur in Sind; the Utmán Khéls and Arab Khéls live chiefly in the Bori tahsíl of the Loralai District, while the Taimáni reside in the Síáhbánd mountains in Herát territory where they have been amalgamated with the Chár Aimtaq ribe. The following table shows the population of each section by tahsís, in the Zhob District in 1901 :—

*Population in 1901.*

| Section.        | Total. | Fort Sandeman. | Kila Saifulla. | Hindubagh. |
|-----------------|--------|----------------|----------------|------------|
| Alizai ... ..   | 24,819 | 1,076          | 16,889         | 6,854      |
| Kibzai ... ..   | 6,287  | 6,165          | 122            | ...        |
| Abdullazai ...  | 4,110  | 4,040          | 66             | 4          |
| Arab Khél ...   | 818    | ...            | 818            | ...        |
| Nas Khél ... .. | 512    | ...            | ...            | 512        |
| Huramzai ... .. | 501    | 501            | ...            | ...        |
| Barat Khél ...  | 470    | ...            | 470            | ...        |
| Utmán Khél ...  | 6      | ...            | 1              | 5          |

**POPULATION.** Each of these sections is divided into numerous sub-sections, which have been shown in table II-A, Volume B.

The most important group of the Sanzar Khéls is the Jogízai (749 : males 397, females 352), a sub-section of the Jalálzai-Shádozai-Alizais. Jogi, the progenitor of this group, was eleventh in descent from Sanzar. His two sons were Bostán and Mitha. Mokám, son of Békar Nika, great-grandson of Bostán, had two sons, Ishák and Nawáb, who gave their names to the two rival factions of Ishák Kahol and Nawáb Kahol. The Jogízais are endowed with a kind of religious sanctity in the eyes of their fellow-tribesmen, and it was on one of the Jogi's descendants, Békar Nika, that the title of the ruler of Zhob was bestowed by Ahmad Sháh Abdáli. The doings of the principal men among the Jogízai family chiefly form the history of the District and have already been given in some detail in an earlier section. The present headman is Sardár Muhammad Akbar Khán, Nawáb Kahol, who was recognised as chief in 1893 and on whom the title of "Sardár Bahádur" was conferred in June, 1897. Other important men among the Nawáb Kahol are : Said Khán, Ayúb Khán, Nari Khán, Mir Háji, Shádi Gul, Muhammad Sadíq, Lájwar Khán, Muhammad Afzal Khán, and Kála Khán. Among the Ishák Kahol the principal men are : Zaríf Khán, son of the late S. B. Nawáb Bangul Khán, Zarghúa Khán, son of Sardár Shahbáz Khán, Lúni Khán, Dewána Khan, Tájuddin, Rahmán Ján, Jamál Khán, Uma Khán, Shér Khán, Báz Khán, and Bail Khán. Most of these enjoy revenue-free lands, are exempt from payment of cattle tax, are in receipt of grain allowances, and some also receive pay from the levy services. These concessions are mentioned in Chapter III.

The Malézai sept among the Mírzais, a sub-section of the Alizai are looked on as a sacred class—*pír khána*.

The majority of the Sanzar Khéls are agriculturists, but some combine flockowning with agriculture. The Jalálzais



and *Mardánzais* chiefly subsist on the produce of their flocks. POPULATION  
 The *Ghorézai*, *Bátozai*, and *Ismáílzai* also own large flocks, and the *Alízai*, *Daulatzai*, *Mírzai*, and *Jalálzai* are camel breeders. The *Malézai* section of the *Ismáílzais* are engaged in trade.

Besides the *Jogízai Sardár Khél* the leading men among the *Sanzar Khél* are (1905): *Khán Sáhib Mían Khán* and *Páind Khán Kibzais*, *Shér Muhammad* and *Másam Khán Abdullazai*, *Mullá Dilbar Fakírzai*, *Khoidád Khán Mírzai*, *Malik Anwar Bátozai*, *Sheikh Yákúb Ismáílzai*, and *Muzhak Rustamzai-Hamzazai*.

In the Census returns of 1901 *Dumars* (94: males 56, Dumars. females 38) were included among the *Sanzar Khél Kákars*. They all reside in the *Hindubágh tahsil*. Local tradition assigns them a low social status as being descended from a slave or musician of *Sanzar* and hence the well-to-do among the *Sanzar Khéls* hesitate to give their daughters to them in marriage.

*Sanatia* was a son of *Husain* and grandson of *Jadram* The Sanatia clan. one of the six sons of *Kákar*. They are divided into two main branches, the *Hárún Khél* and *Isa Khél*. In 1901 the total number of *Sanatias* in the District was 4,429 (males 2,382, females 2,047) of whom 30 were in the *Kila Saifulla* and the remainder in the *Hindubágh tahsil*. The principal sections represented are the *Isa Khél* (1,563), *Mehtarzai* (2,621), *Sárangzai* (174), *Bázai* (45), *Mallazai* (19) and *Brábímzai* (7). They occupy the western portion of the *tahsil*, including the *Kamchughai glen*. They are agriculturists and some own flocks also. The *Isa Khéls* own a little land and earn their living by labour and selling firewood. The principal men among the *Sanatias* are (1905) *Mír Alam Khán Mehtarzai* and *Mubammad Ján Sultánzai*.

The *Sargaras* are descended from *Sárgarai*, son of *Kákar* The Sargara clan. and are divided into three main sections, viz.: the *Sám Khél*, *Mandazai*, and *Hárúnzai*. Most of them live in the *Quetta-Pishín District*. In 1901, the number of *Sargaras* in the

POPULATION. Zhob District was 765 : males 425 and females 340, of whom 707 were in the Hindubágh and 58 in the Kila Saifulla tahsils. Those now found in the Quetta-Pishín District are alleged to have separated from the parent stock, under the leadership of one Mián Khán, in search of pasture and lived for some time in Haidarzái whence they moved to Kuchlák. All the three sections are represented in Hindubágh but the Hárúnzái are numerically the strongest (386), the Sám Khél coming next with 246, and the Mandazais 98. The Mandazais of Quetta-Pishín recently attempted to renew their connection with the Hindubágh Sargaras, but the latter refused to have anything to say to them, a fact which is of interest, as showing the fission which is continually taking place among the tribes. The Sargaras are an agricultural class and own lands in Parkanda and Sám Khél Káréz. Their leading man is Kamál Khán, son of Támás Khan, Umarzái Hárúnzái.

Physical characteristics.

Anthropometrical measurements, which were made of the Kákars in 1903, showed that they had broad heads, fine to medium noses, and that their stature was either above the mean or tall. The following were the average measurements \* of those examined :—

|                            |     |     |     |            |
|----------------------------|-----|-----|-----|------------|
| Average Cephalic Index     | ... | ... | ... | 81·9       |
| Average Nasal Index        | ... | ... | ... | 69·6       |
| Average Stature            | ... | ... | ... | 168·3 c.m. |
| Average Orbito-nasal Index | ... | ..  | ..  | 116·6      |

The Kákars of Zhob are on the whole at present a well-behaved and peaceful people, though they were troublesome in the earlier days. They have no great reputation for bravery and the estimation in which they are held by other Patháns is expressed in a local proverb, which says: "Whenever you see a Kákar, hit that Kákar with a stick, expel him from the mosque and you will see no mischief." Their dirty personal habits are alluded to in another proverb which speaks of them

\* See *Census of India*, Vol. I, Ethnographical Appendices.

as "besmeared with filth." Their standard of morality is somewhat low and the custom of *majlis* prevails among them. According to this custom young marriageable girls are supplied to respectable guests for entertainment, and a host who happens to have no girl in his family obtains one for the purpose from a friend's or a relative's family. POPULATION.

The Shíránis are the descendants of Sharaf-ud-dín *alias* Shírání tribe. Sharkhabún, son of Saraban. Geographically the Shíránis are divided into two groups—those residing to the east of the Sulaimán range being known as the Largha Shíránis, while those residing to the west of that range are called the Bargha Shíránis. Like other Afghán tribes, they have spread out from time to time, and some of them are to be found in Shoráwak, whilst others have given their name to one of the clans (Loharání-Shírání) of the Marri Baloch. After the Khidarzai expedition of 1890, to which a reference has been made under **History**, the tribe was split up, the Bargha Shíránis remaining under the control of the Zhob Political Agency, whilst the Largha Shíránis fell to the Dérá Ismáíl Khán District of the North-West Frontier Province.

According to the local tradition, there was continual warfare between the Shíránis and Baitánis about three hundred years ago. The leader of the Shíránis found a Kurésh orphan boy, with whose miraculous help the Shíránis were victorious over the Baitánis. The boy was named Daré Khán, was married to a Shírání woman, and the leading men of the Shíránis decided to send a batch of their tribe under his leadership to occupy the Bargha lands which were lying waste for fear of the Wazírs. This is said to be the origin of the Bargha branch. According to a local tradition the Bargha lands were formerly held by the Hazáras, who deserted the country and migrated to Rozgán in the north.

The recognized head or Sardár of the Shíránis is Baloch Khán, Mahmúdzai, who lives in Largha, and the Bargha

POPULATION. Shíránis consider Atta Khán, who is seventh in descent from Daré Khán, as their Sardár. But of recent years the Sardárs have been weak and incapable men and the family has lost much of its influence and importance. In pre-British days the Bargha Shíránis paid their headman one *kása* of grain per family at the *rabi* harvest, and three hundred *kásas* per annum from the produce of the Mughal Kot lands. The Narézai Mando Khéls also paid him one-tenth of the produce of their lands. Abdulla Sháh of Shína Khwaza and Miharbán Chúhar Khél are also important men. Salm Khán is the leading man among the Bábars and Háji Baháwal Hak among the Haripáls.

In 1901 the Bargha Shíránis in the District numbered 6,974: males 3,689, females 3,285, the number of adult males being 2,135. They are divided into the following clans: Bábar (1,743), Chúhar Khél (451), Haripál (1,593), Hasan Khél (2,095), Kapíp (290), Marhél (283), and Oba Khél (514). They have from time to time affiliated other groups.

The Haripáls claim a Saiad descent, and allege that their progenitor, Haríf, was a Saiad from Pishín, who migrated to the Shíráni country, married a Shíráni woman, and was affiliated with the Shíránis. Similarly the Kirmánzai among the Hassan Khél are said to be the descendants of a founding (*mindún*).

The principal villages of the Shíránis in the Fort Sandeman tahsíl are Kuria Wasta, Kurram, Ghazlawar, and Shar Ghalai, those of the Haripáls Bráhm Khél, and Algada, while the Bábar are chiefly found in Garda Bábar, Algada Bábar, and Bráhm Khél.

The Shíránis are agriculturists, and also own flocks but the Marhél clan among them are almost all nomads. Mr. L. W. King, C. S., when Deputy Commissioner, Déra Ismáíl Khán, described the Shíránis in 1890 as follows:—

Character and appearance.

“The Shíránis (or Maránis, as they prefer to call themselves) are perhaps the most uncivilized tribe on the Déra

Ismáíl Khán border, and have all the characteristics of wild POPULATION. races. They are not given to thieving, but lying is a vice which I am afraid, intercourse with our district has taught them, as amongst the Sultánzais and Khiddarzais who inhabit the slopes of the Takht and are far removed from our civilising influence a Shírání's word can generally be relied on.

“ Murder or killing for the mere lust of blood is very rare. They are not so cheerful and joyous as their neighbours, the Mahsúds, and seem to take the world much more seriously. Fanaticism cannot be assigned to them as a fault, and their performance of the rites of religion struck me as being very perfunctory. They are lazy in the extreme and thriftless. In appearance they are ill-favoured, low-sized, and wiry with high cheek bones. They are by no means a manly race, though an exception in this respect might perhaps be made in favour of the Khiddarzais, some of whom are fine looking men.” They are locally considered to be bad friends and a proverb says that “ a dog which knows you will not bite you, but a Maráni who knows you will eat you up.”

The Panris or Pannis were originally a nomad tribe of the Ghurghusht Afgháns and the Sáńs, a branch of the tribe, are still found in considerable numbers near Ghazni, and another large section, now known as the Gadúns, reside in the Peshawar District to the east of the Yúsufzai country. A branch of the Panris appears to have wandered from the west to the Sulaimán hills, and from thence to have spread gradually to the south. The Músa Khéls and Isots of the Loralai District are Panris, and another section found their way into Sáńgán from the Bolán pass and gradually acquired Bádra, Quat-Mandai, and Sibi. Eventually they got possession of, or were perhaps nominated by the rulers of Kandahár to administer Bárkhán, and the lands now held by the Marris. The descendants of the Panris are also found in Southern India where, from time to time, they have made a considerable figure in Indian history. Prior to the downfall of the house of Bábar, one of the celebrated free-lances

The Panri  
tribe.

POPULATION. of the period was Dáúd Khán, a Panri, who was remarkable for his generosity and liberality which have passed into the proverb: *Bani ta bani nahin ta Dáúd Khán Panri*, that is to say, if the worst comes to the worst, there is still Dáúd Khán to fall back upon.

According to the Census of 1901 the Panris of Zhob District are represented by three clans: the Lawanr or Lawanas, the Mando Khél and the Músa Khél; and their total number was 5,319: males 2,835 (including 1,667 adult males) and females 2,484. The Músa Khéls only numbered 69. This classification has been retained, but in reality the Mando Khéls have no connection either ethnically or in practice with the Panris. They are descended from Mando, one of the three sons of Ghurghusht and a cousin of Kákar, son of Dáni.

The Lawana  
clan.

The Lawanas or Lawanrs are descended from Lawanr, one of the six sons of Panri, and are therefore related to the Músa Khéls, Isots, Bárúzais, and others. In 1890 they had settlements in two places—(1) at southern Tirwah and on the Kundar river, between Kundar Nigángi and Nákhél; and (2) at Sángán in the Sibi District. In 1901 their number in the Zhob District was 970: males 518, females 452, almost all (958) of whom are in the Kákar Khurásán circle of the Hindubágh tahsíl. The principal sections recorded in the census papers are the Mandarzai (593), Ismáílzai (295) and Husain Khél (70). Before the British occupation of the country, the Lawanas were considered as owning allegiance to the Jogízai family and paid small contributions to them. The Lawanas are both agriculturists and flockowners, but their chief means of livelihood is the produce of their flocks. They also manufacture earth salt. The leading men among the Lawanas are Gori Khán, Násar Khán and Shainak.

The Mando  
Khél clan.

According to the local tradition the Mando Khél (Ghurghusht Afgháns) came from Náwar in Khurásán and in conjunction with the Músa Khéls and Sanzar Khél Kákars defeated and turned the Mughals out of the country and

occupied it. They are divided into two branches, the POPULATION.  
 Hádizai or Sheikh and Hider Khél. In 1901 the total number of Mando Khéls in the District was 4,280: males 2,278 (including 1,330 adult males) and females 2,002. The Sheikh or Hádizai only numbered 131, all the rest being distributed over twenty-five sections of the Hider Khél, of which Kariazai (267) are considered to be the *sardár khél* or the leading family. The Mando Khéls occupy the country round Fort Sandeman, their principal villages being Apozai, Kam Gustoi, and Buranj. They are generally a peaceful and inoffensive people, and among their neighbours are known as the Mándá Khél or backward tribe. Their chief occupation is agriculture, but most of the Sulaimánzai section (755) are flockowners. The Mando Khéls owned allegiance to the Jogízai Sardár but always had a headman of their own. The present headman is Shér Khán. Akhtar Khán, Sulaimánzai, and Jalát Khán, Izatzai, are also important *maliks* among the Mando Khéls.

The Sáfis are a clan of the Pannis or Panris, but those in The Sáfi tribe.  
 the Zhob District disown any connection with their brethren in the Sibi District. They allege that they belong to the Ghilzai tribe and migrated from Afghánistán. In 1901 their number in the District was 345 (males 209, females 136), and they are divided into three sections: the Páinda Khél (265), the Traman Khél (53), and Jáni Khél (27). The majority of them are nomads, but some have acquired land by purchase, and are settled at Sáfi Kot on the bank of the Zhob river, in the Fort Sandeman tahsíl. Their headman was Usmán Ghani, who migrated to Afghánistán in 1894, and the present (1906) leading man is Torán.

In 1901, the Saiads in the District numbered 1,138: males The Saiads.  
 588 and females 550; the local distribution being Fort Sandeman 966, Hindubágh 107, and Kila Saifulla 65. The principal clans represented are: the Bukhárís 177, Khosti 820, Táran 36, Kharshín 32, Husáini 14, Kurésh 14, and 45 others.

**POPULATION.** The Khostis claim to be the descendants of Saiad Táhir and are said to have emigrated from Khost in Afghánistán. Of the total of 820, 772 are in the Fort Sandeman tahsíl and 48 in the Kila Saifulla tahsíl. They are divided into four sections: the Umarzai, Márúfzai, Miráni, and Sohbat Khél, the first three are in the villages of Márúfzai, Lahráni, and Umarzai between Lakahand and Bábar, and the last named section are settled close to Aghbargi Mándá in the Kila Saifulla tahsíl. Their leading men are *malik* Kondal and Sheikh Raza Gul. They intermarry with the Kákar tribes among whom they live and adopt their customs.

The Bukhári and other Saiads are scattered among the various villages of the District and live chiefly on the charity of the people.

**Ghilzais.** In the census taken in 1901 the Ghilzai Afgháns at that time in the District numbered 7,500: males 4,221 and females 3,279. They were distributed over Fort Sandeman (5,076), Hindubágh (1,905), and Kila Saifulla (519); and belonged to the following clans:—Násar 3,796, Sulaimán Khél 2,209, Kharot 868, Andar 108, Tokhi 196, Taraki 109, Hotak 41, and others 173.

The majority of these are nomads who under the general name of Powindahs visit the District during the winter during their annual migration from Afghánistán to the Déraját and back. Besides the clans mentioned above the Shinwár, Mala Khél, Mia Khél, and Dotáni also visit the District. The Mia Khéls come from Afghánistán by the Gomal, proceed to Dámán by the Ghwae-liár and Dahána Sar, leave their families there, and trade in Calcutta and Delhi in cloth. The Dotánis live in Wazíristán to the north of the Gomal and come down to the Zhob District in October to graze their flocks in the hills near Kuchbína, returning to their homes in April.

The Taraki, Andar, Kharot, Shinwár, and Mala Khél are large flockowners and enter the District in October from passes between Kamar-ud-dín Kárez, Késhatu, and



Tirkha-war; some of the Taraki, Andar, and Kharot proceed POPULATION. by Loeband to Toba Kákari, Pishín and Shoráwak, and a larger number of the Kharot, Shinwar, and Mala Khél proceed to Hindubágh and Kila Saifulla by the Mughal Cháh route. Thence they move on, grazing their flocks as they go, through the Zhob valley to Duki, Loralai, and Músa Khél while the Mala Khél camel owners go to Dámán by Dahána Sar. After leaving their families in the Dámán, the Mala Khéls return to Fort Sandeman and engage in transport work. They also import grain from Bárkhán, Loralai, and Kila Saifulla into Fort Sandeman. Such of the Powindahs as have caravans of *ghí*, almonds, wool, *postins*, *larak* cloth, and raisins enter the District by Késhatu, some of whom go on to Pishín and Quetta via Loeband and Sábúra, some go to Fort Sandeman via Shighála, and others by Khasnob to Loralai.

The poorer members of the Kanda Khél and Barézai sections of the Kharot remain in SÁNG-ghar and Siliáza, and earn their livelihood by selling firewood, while other sections who own camels come by the Gomal and go to Dámán by the Ghwae-liár. Kharot.

The Násar Powindahs who periodically visit the District belong to the following sections:—(1) Kamál Khél; (2) Malézai; (3) Pándi Khél; (4) Tarak Khél; (5) Ya Khél; (6) Niamat Khél; (7) Bhar Khél; (8) Zangi Khél; (9) Talák Khél; (10) Nabo Khél; (11) Ush Khél; (12) Jalál Khél; and (13) Masézai. Of these the first named six sections live from December to March in Dámán in the Déra Gházi Khán and Déra Ismáíl Khán Districts, and from April to November in the Duki, Bori, and Kila Saifulla tahsils of the Baluchistán Agency. The Kamál Khél and Malézai largely deal in wool which they buy in Zhob, Loralai, Sháhrig, and Kohlu and export to Karáchi. Some of the men of these sections, and of the Bhar Khél buy wool in Kákar Khurásán which they send to Karáchi by rail from the Yaru Káréz railway station in the Pishín tahsíl. The Násars.

POPULATION. bigger merchants among them make advances of money to the flockowners before the shearing season and fix a rate, while others make purchases through their agents, to whom they pay commission at the rate of 5 per cent. known as *tumani*. When returning from Dámán, the members of these six sections bring wooden plates (*kásas*), molasses, silk, needles, thread, rings, beads, and glass bangles which they retail to villagers in Zhob and Bori. The Malézai, Zangi Khél, Talák Khél, and Nabo Khél Násars own flocks of sheep, while the Ush Khél, Jalál Khél, Niamat Khél, Masézai, and Bhar Khél are chiefly camel owners. The latter sections deal in almonds, travelling by Kosaka, Kandíl, and the Gomal to the Déráját in October and returning to their homes in April.

The Sulaimán Khél.

The opening of the Gomal pass in 1889-90 first brought us into direct relations with the nomad Sulaimán Khéls who, during the winter months, occupy and graze over the country stretching northward from the Sáng-ghar near Fort Sandeman to the neighbourhood of Wáno, and eastward from the Chukhan and Lower Kundar to the Zhob river, or in dry seasons to and beyond the Sulaimán range. The principal sections who graze over this tract: are the Sultán Khél, Saráz Khél, Minzai, Mahmúd Khél, Ahmadzai, (a small offshoot from the great Ahmadzai section of Upper Afghánistán), and the Jalálzais.

Of these sections the Sultán Khél appear to be the most numerous and powerful, said to number from 6,000 to 8,000 fighting men but comparatively few of their people graze actually within the Zhob District: large numbers go down to the Déráját, and the bulk of those who stay above the passes, including the chief *maliks*, generally inhabit the Zarmelán plain north of the Gomal river. There are, however, a considerable number of them round about Gulkach and on the Girdao plain and their *maliks* exercise a more or less indefinite authority over some of the minor sections, e.g., the Mahutúd Khéls and Ahmadzais.

The Minzais are also a large and powerful section POPULATION. (estimated at 4,000 to 5,000), and large numbers of them come into Zhob, occupying the country round Husain Nika, Shinbáza, and south to the Sri Toi.

During the negotiations that led to the opening of the Gomal, the Sulaimán Khéls showed themselves friendly. Shahábuddín Khán, the head of the Khoidád Khéls, came in and paid a visit to the late Sir Robert Sandeman at Apozai, and no trouble was given by the Sultán Khél who, occupying the country about the Lower Gomal, were in more immediate contact with the expedition in 1889. Again in the winter of 1890, previous to the Shírání expedition, a force under Sir George White marched down the Kundera and Gomal to Gulkach without meeting with any opposition from the Sulaimán Khél. In the beginning of 1891 a military post was placed at Gulkach. The Sultán Khéls proved friendly, and gave useful assistance to Captain (now Sir Henry) McMahon, then Assistant Political Agent in Zhob, who accompanied the expedition and arranged for the establishment of the post and for the Zhob Valley Railway Survey operations. Their friendly behaviour to us tended, in conjunction with other causes, to bring the Sultán Khéls into bad odour with the Afghán Government, and during the years 1891—93 Muhammad Akram and certain others of their *maliks* kept out of reach of the Afghán authorities. The Sultán Khéls subsequently made their peace with the Afghán authorities and in 1894 their *maliks* accompanied the Afghán Joint Commissioner on the Baloch-Afghán Boundary Demarcation Commission. Again on the formation of the Wazíristán Delimitation Commission they were deputed to attend on Mr. King, presumably to represent Afghán interests as far as regarded the country in which the Sulaimán Khéls were interested. Here they seem to have acted a somewhat double part, agreeing to the line fixed by Mr. King on the one hand and on the other representing to Sardár Gul Muhammad and the Amír that

POPULATION. they had strongly protested against it. Later they again fell out with the Afgháns and Mír Hazár, Muhammad Akram, and Kattai along with some minor *maliks* visited the Political Agent at Fort Sandeman during November-December, 1895, and petitioned to be given some allowances. Having been disappointed in this request, on their way back they threatened the Gulkach post, but soon saw their folly and disclaimed any hostile intentions.

In March, 1896, Mr. H. W. Gee, Deputy Commissioner of Déra Ismáíl Khán, and Captain C. Archer, Political Agent, Zhob, met the Sulaimán Khél *maliks* at Gulkach and discussed future arrangements. Captain Archer and Mr. Grant, Political Agent, Wáno, again met the *maliks* at Gulkach in March, 1897, and Malik Muhammad Akram and 13 others signed the following agreement :—

“Whereas we, the *maliks* of the Sultán Khél, Minzai, and Saráz sections which graze in the hills in British territory during the winter and spring, have submitted certain petitions to Government regarding the grant of allowances and of permission to cultivate, and whereas Government has been pleased to grant our requests on certain conditions, we on behalf of our tribes gratefully agree to the offer made to us by Government and accept the conditions imposed, as follows :—

(1) Government will grant us fixed sums of the following amounts on our arrival in British territory each autumn and again each spring on our leaving for Khurásán :—

Sultán Khéls Rs. 1,425 in the autumn and a like amount in the spring, making in all a total of Rs. 2,850 a year.

Minzais Rs. 450 at each season, in all Rs. 900 a year.

Saráz Rs. 275 at each season, in all Rs. 550 a year.

We have arranged and have placed on record the distribution of these sums among our different sections and the sums to be paid to minor *maliks* within each section.

(2) Government will grant us the right to bring under cultivation all culturable lands within the limits of Zarmelán, Gul-kach, Girdao, and Shinbázha with regard to which no other claimant can prove recent cultivating occupation.

In return for the above privileges and for the protection of the British Government to our grazing and cultivation, we agree willingly on behalf of ourselves and our tribes to the following conditions :—

(1) To pay grazing tax in future both in the Zhob District and in the Wazíristán District at the following rates, being those now in force in Zhob :—

|                            | Rs. | a. |
|----------------------------|-----|----|
| Male camel per head ... .. | 0   | 8  |
| Female do. do. ... ..      | 1   | 0  |

(or As. 12 per camel whichever Government may order).

|                                   | Rs. | a. |
|-----------------------------------|-----|----|
| Bullocks and cows per head ... .. | 0   | 6  |
| Donkeys do. ... ..                | 0   | 4  |
| Sheep and goats do. ... ..        | 0   | 1  |

We hold ourselves responsible for the collection of the grazing tax with the assistance of Government when necessary.

We can, however, only agree to this on the understanding that grazing tax at the same time and at the same rates be taken from the Dotánis who graze alongside us within Wazíristán limits. Otherwise we shall be disgraced in the eyes of the other Ghilzais.

(2) We agree to be responsible for the good behaviour of our sections while residing within the Zhob and Punjab hill tracts and for the detection of offences committed within the limits where our sections are residing.

(3) We agree to pay land revenue on any land we may bring under cultivation within these tracts whenever Government sees fit to demand it, and we will be responsible for the realization of such revenue.

POPULATION. (4) Government has the right to place posts at any place within these tracts, when they may deem it necessary.

We agree to these arrangements coming into force from next autumn, provided that grazing tax is taken from the Dotánis at the same time."

The usual rate of grazing tax (*tirni*) is As. 8 for a male and Re. 1 for a female camel. The tax is levied from the Sulaimán Khéls by contract, and the amount annually realized in the Zhob District has been as under :—

|           |     |     |     | Rs.   |
|-----------|-----|-----|-----|-------|
| 1898-99   | ... | ... | ... | 1,175 |
| 1899-1900 | ... | ... | ... | 1,660 |
| 1900-01   | ... | ... | ... | 2,500 |
| 1901-02   | ... | ... | ... | 2,535 |
| 1902-03   | ... | ... | ... | 2,250 |
| 1903-04   | ... | ... | ... | 2,250 |
| 1904-05   | ... | ... | ... | 550   |
| 1905-06   | ... | ... | ... | 906   |

The allowances paid to the Sulaimán Khéls by the Zhob District amount to Rs. 1,550 per annum as detailed below—

| Section.    | Sub-section.   | Monthly Allowance. |
|-------------|----------------|--------------------|
| Sultán Khél | Mír Khán Khél  | Rs. 200            |
| Minzai      | Bádin Khél     | 350                |
| "           | Mír Gul Khél   | 350                |
| "           | Mohbit Khél... | 100                |
| Saráz Khél  | Mahmúd Khel    | 250                |
| "           | Jalálzai       | 300                |

The Wazírs.

The Wazír Afgháns, a powerful tribe who inhabit the country north-east of Zhob have always been a source of trouble and have committed raids and robberies from time

to time in the Zhob District. They are a race of tall POPULATION. active hillmen of vagrant and pastoral habits who are more prone to rob their neighbours than to work for their living. In 1891 the Wazírs were responsible for 41 reported cases of murder, cattle-lifting, etc. They were again particularly active during 1892 in depredations in the Zhob District. The most serious of their offences were attacks on sentries and escorts between Mír Ali Khél and Khajúri Kach and Gulkach, all of which were successful and resulted in much loss of life and the gain to the Wazírs of a certain number of rifles. During 1893 they committed no less than 37 raids and other offences within the Zhob limits. The scene of most of these outrages was the Khajúri Kach-Mughal Kot road, which was rendered so unsafe that special measures had to be taken for the protection of travellers. In 1894 they committed 19 raids. The Wazírs were comparatively quiet during 1895 and 1896, but in 1897, they were again rather more active and did much mischief, and during 1898, 20 raids were attributed to them. In May, 1899, the Wazírs attacked a party of 5 Zhob Levy Corps sowars between Mír Ali Khél and Girdao. One sowar was killed and another wounded and their rifles were taken away by the raiders. Besides this, eight cases of highway robbery and theft were also reported against the Wazírs. In December, 1900, the Mahsúd Wazír blockade commenced and continued until March, 1902.

The troops noted in the margin\* were allotted for blockade duty under the command of Lieutenant-Colonel R. I. Scallon of the 23rd Rifles. The boundary of the Zhob District to be watched by these troops was roughly a line from Gustoi along the Kunder river to its junction with the Gomal at Domandi; thence along the Gomal to Toi Khulla (where the Wana Toi joins the main stream); then

\* Detachment, 6th Bombay Cavalry, Wing, 24th Bombay Infantry, 23rd Bombay Rifles, Zhob Levy Corps.

POPULATION. over the hills in a south-easterly direction to the Ghzamánda Nullah ; thence across the Zhob River to Kuchbina Nullah, about 4 miles ; and from there eastward to the Zao Pass in the Sulaimán range ; a total distance of about 55 miles. The troops were distributed in various posts and were instructed to capture and hand over to the Political authorities any Mahsúd Wazírs who might be discovered beyond the limits of their own district ; to prevent any supplies of food or clothing from passing into the Mahsúd country ; to protect the persons and property both of the inhabitants of Zhob and of the Powindahs and Násars who twice yearly pass along the Gomal valley to and from the Punjab ; and for these purposes to co-operate, as occasions required, with the troops and levies employed in Wazíristán. The Commissioner of the Déraját computed that during the Powindahs migration some 50,000 souls and 150,000 animals traverse the Gomal. A large camping ground was selected on the left bank of the Gomal on the lee of an isolated hill which was occupied by a strong party of the 23rd Bombay Rifles. The caravans were met as they crossed the Afghán border, and convoyed by parties of the Zhob Levy Corps to the assigned camping ground near Gulkach. Here they were passed on in such numbers as would ensure no block taking place anywhere along the road, to Khajúri Kach where there was a picquet of the 23rd Bombay Rifles, parties of which escorted the caravans to Toi Khula where they were handed over to the Southern Wazíristán Militia. Other caravans using the Zhob Valley were protected by parties, detached from Mughal Kot, Mír Ali Khél, Girdao and Husain Nika. The result of these arrangements was that the Powindahs suffered no loss in person or property in Zhob or the Gomal. Several petty raids were attempted by the Wazírs, but as a rule the raiding parties which managed to enter Zhob returned with difficulty and empty handed. The troops employed on this duty made many roads and tracks, the most important one being a camel road 9 feet wide from



Mír Ali Khél in Zhob via Wazíri Bágh to Gulkach on the Gomal river, a distance of 23 miles. The Zhob Levy Corps rendered excellent service, and on more than one occasion Lieutenant-Colonel Scallon brought to notice especially commendable acts of service by parties of the corps. In one instance over 1,000 sheep lifted near Chachobi were saved by the energetic action of the Risaldár Commanding the Zhob Cavalry at Mughal Kot. POPULATION.

In July, 1904, a party consisting of about 15 raiders raided the Zhob Levy Corps post at Khúni Burj and carried off 12 Martini-Henry, and one Snider carbine and 126 rounds of ammunition, killing one duffadár and wounding two sowars, one of whom subsequently died. The raiders made good their escape and could not be arrested. The joint enquiry held by the Political Agents, Zhob and Wáno, showed that the raiders were Mahsúd and Shiráni outlaws from British territory living in Afghánistán near the border.

Subsequent attacks were made on the Levy Corps post at Shinbáz in April, 1905, and on Gudawana in December, 1905. In both cases the attackers were repulsed. The defenders in each case suffered severely, but succeeded in holding their posts and in preserving the rifles and Government property in their charge. Five native officers and men of the Corps received the Indian Order of Merit for their gallant conduct on these occasions.

Of the total population of 69,718 censused in 1901, 67,772 or 97 per cent. were Muhammadans, 1,529 Hindus, 320 Sikhs, 50 European and Eurasian Christians, 46 Native Christians and one Jew. Religion.

The Muhammadans of the District belong to the Sunni sect. The Saiads and *mullis* alone are versed in the tenets of their religion. The tribesmen generally are devout in performing their prayers at the stated times, in keeping the fasts, and in setting apart a portion of their income for charity (*zakát*), but in other respects their religion is mingled with superstition, and there is a general belief in the intervention of Islám.

POPULATION, ancestors and saints in the pursuits of daily life. These are invoked to cure diseases, to avert calamities, to bring rain, and to bless the childless with offspring. Saiads and *mullás* also play an important part, and their amulets, charms, and blessings are constantly invoked. Some of them are credited with the power of bringing rain, of curing diseases, of granting children, of averting disease and locusts from the crops and of exorcising evil spirits. A list of the most influential *mullás* in the District is given in table III, Volume B. A common superstition is that if any one calls to a tribesman as he is starting on a journey, he must sit down before going farther. If immediately after starting, a hare crosses his path he must return home and start again. The same holds good if he meets any member of the professional weaver class, who are locally known as *péshawar*. If a jackal crosses the path it is considered a good omen. A journey must not be undertaken on a Tuesday, nor during the month of *safar*. A *push* or blacksmith will not cut a green pistachio *khanjak* tree, nor will he sell a stone griddle which has once been placed over fire. The Táran and Khosti Saiads in the Fort Sandeman tahsil are credited with the power to render an enemy's bullets harmless, and the members of the Sháhézai sept of Jalálzais are believed to be able by their charms to avert locusts. In pre-British days it was not uncommon to prove the guilt or innocence of a suspect by ordeals by fire, water, etc. In upper Zhob the ordeals by water were generally performed in the Fakírzai spring near Bábu Chína. The procedure was as follows:—A man stood in the spring with a pole in his hand about 6 feet long, the end of which he inserted in the mud under the water. The criminal after receiving blessings from the *mullá*, was made to hold his breath and sit under water whilst the man holding the pole kept him down with the hand which was free. As soon as the criminal put his head under water a man posted on the bank ran to another, placed at a distance of from 30 to 70 paces

from the bank. As soon as the first man reached the second, the latter started and ran to the bank, and if the criminal could hold his breath till he reached it he was held to be innocent. In the ordeal by fire a heated plough share was placed on the hand of the suspect and he was made to take 7 steps. There were also other forms of ordeal. A stick was inserted in a hole drilled in the bottom of a wooden bowl. A *mullá* would then read the verse *súra yasín* from the Korán and blow at the bowl, and should the bowl turn to the left the suspect was declared guilty. Or the same verse would be chanted over crushed barley which would be given to the suspect to swallow and it would stick in his throat if he were guilty.

There is a general belief in evil spirits and their powers of theft, and the grain on the threshing floor is encircled by a line drawn with a sword, and a copy of the Korán is placed over it until it can be measured for division, for fear lest evil spirits should interfere.

In the Census of 1901 the total number of Hindus and Sikhs in the District was 1,849, of whom 1,818 were censused on the standard schedule, and represented mostly the aliens from Indian provinces. In pre-British days, a few families of Hindus, who originally came from Vihowa in the Déra Gházi Khán District, were engaged in trade at Mína Bázár, but since the establishment of the bazar at Fort Sandeman some of them have returned to their homes whilst others have moved to Fort Sandeman.

The Arya Samáj movement is wholly confined to the Hindus from the Punjab who are employed in Government offices. There is an Arya Samáj at Fort Sandeman, where there is a *mandír* or prayer hall.

Occupations were only recorded in detail in 1901 in the areas censused on the standard schedule, the population of which was 5,152 or about 7 per cent. of the total population of the District. The majority of these were aliens in the service of Government or engaged in trade.

**POPULATION.** Outside the town of Fort Sandeman and tahsíl head quarter stations, the family system of enumeration was followed, the occupation of the head of the family being assumed to be that of the remainder. The population of the District in this case may be roughly divided into six classes by occupation: landowners, cultivators, flockowners, traders, labourers, and artisans. The landowners are the most numerous class, and the other classes are recruited from among them. They include the principal tribes of the District, viz., the Kákars, Mando Khéls, Shíránis, and Khosti Sheikhs. Most of these cultivate their lands themselves, except the leading families among the Jogízais and the Sáfi nomads who employ tenants. The tenants also belong to the poorer classes among these tribes. The flockowners, are chiefly the Malazai and Kamálzai in Hindubágh; the Jalálzai, Bátózai, Ali Khél, and Ghorézai in Kila Saifulla; and the Mardánzai, Huramzai, Sulaimánzai Mando Khél, and Sáfi in Fort Sandeman. The Ali Khél, Ghorézai, and Daulatzai in the Kila Saifulla tahsíl are the best camel breeders. The labourers are chiefly to be met with among the poorer Kákars and Ghilzai nomads. The artisans indigenous to the country are the blacksmith (*push*), carpenter and weaver (*péshawar*), who are scattered in different villages in each tahsíl. Some of the Lowanas and Jalálzais manufacture earth salt.

**Social life.** Social or class distinctions are little observed among Afgháns as a rule, though there are a few families such as the Jogízai, and some Saiads, who, for various reasons, claim a superior social status to that of their fellows. Dumars, who are said to be the descendants of a slave or minstrel of the Sanzar Nika, are considered by the Kákars as socially inferior, and the respectable among the Kákars generally refrain from giving their daughters to them in marriage. Weavers (*péshawar*) are also regarded as inferior, but the *push* or blacksmith assert equal status with the tribesmen and some of the *push* claim a Saiad descent.

Among the rest social position is on a uniform level, and even the title of *malik* confers little distinction, and the holder of the title is treated as an equal by the villagers. In the absence of a Saiad or *mullá* precedence in an Afghán assembly is generally given to the oldest.

The custom of taking and giving news, which is usual everywhere, also prevails among the Afgháns of the District but in a less ceremonious form than is observed by the Baloch. Enquiries and answers are limited to the usual salutation, welcome, and enquiries after the health of the person concerned and also of his immediate relations. When addressing persons of sanctity, the term *pír sáhib*, *míra sáhib*, or *sheikh sáhib* are used, and their hands are kissed and people rise when they enter an assembly.

Hospitality, among the Afgháns, is not so profuse as in the case of the Baloch, and the custom is limited to relations and friends, who are entertained according to their position. A near and well-to-do relation or an intimate friend will be given meat and bread, but a poor relation must be content with such food as may be ready in the house. Strangers resort to the mosques and the villagers who meet them at the prayer times either send them their food or take them home and feed them, the system being known as *lwatsa*. Some of the leading men among the Jogízais keep guest houses, but these are in the first place intended for relatives and friends.

Custom of  
hospitality.

It is customary among the tribesmen to raise subscriptions among themselves on certain occasions, the system being known as *baspan*, *sawál*, or *manga*. Such subscriptions are raised when an individual has been reduced to poverty owing to unforeseen circumstances, such as the burning down of his house, or when a heavy fine has been imposed on him, or when he has to pay blood money. The person in need, who is accompanied by one or two friends, invites contributions from among his own tribesmen, who pay him in cash or kind, according to their means. Such subscriptions are not raised to pay bride-price or to meet marriage

Co-operation  
among the  
tribesmen.

POPULATION. expenses except by the Sargaras, among whom the bridegroom's friends contribute one *kása* of grain per family towards the marriage feast.

Food. The majority of the people have two meals daily, one in the morning called *barazar markhúma*, *gahíz* or *sahár*, and the other at sunset (*máshúm hor*), men and women generally eating separately. Some of the well-to-do people have a third meal early in the morning (*nihárai*) or in the afternoon, and some cultivators, when at work, have a meal brought them at mid-day. All Afgháns have a voracious appetite, and a male adult will eat as much as 2 lbs. of bread at a meal if he can get it.

Wheat is the staple food-grain and is made into unleavened cakes (*patíri*) baked on a griddle. In the summer leavened cakes (*khamíri*) are usually eaten for the morning meal. Nomads on the march eat *kák* made by wrapping dough round a hot stone and putting it in the embers.

Most people eat their bread plain, and without relish, but an infusion of *krut* or boiled whey known as *krut ghorí* is sometimes poured over the pieces, to which boiling *ghí* is added. The Kákars of Hindubágh and Kila Saifulla prepare *pandkai* by boiling wheat flour in milk and making the paste into small cakes. These are dissolved in hot water and pieces of bread broken in it. It is considered a delicacy. The tribesmen, and more especially the flock-owners among them, take milk and its preparations, generally butter-milk (*shalombae*), with their meals from April to July. Cows are kept by those in good circumstances, but the milk commonly drunk is that of sheep or goats, and in the Kila Saifulla tahsil also of camels. Curds, made with rennet or *khamazúrae* (*Withania coagulans*), form the basis of most preparations, including butter and cheese. In Upper Zhob, next to butter-milk, *krut* is in demand which are cakes made of boiled whey to which salt has been added.

Meat is seldom eaten in summer except when the inhabitants of a hamlet combine to buy a sheep, goat or bullock,

or when a moribund camel or other animal is killed. It is usually half-boiled and is cooked without condiments, except salt. In the Hindubágh tahsíl the blood of animals slaughtered was formerly boiled and eaten. Locusts and *táz* are singed in fire and eaten.

*Ogra*, a porridge made of crushed wheat, maize or millet and sometimes of wild almond fruit (*zarga*) and boiled in water in winter, and in butter-milk in the summer, was the most common article of food in former days, and is still popular among the Kákars, especially in the spring. In winter, in the Fort Sandeman tahsíl, a small quantity of *lánde* meat ( a kind of biltong ) is sometimes added to it. Cakes made of maize, *juári* or millet flour are eaten as a change from wheat; and rice porridge forms the staple food of the Mando Khéls in summer. The principal article of food of the Shíránis is maize bread, though cakes made of wheat, barley, and *juári* are also sometimes eaten. *Ash*, another kind of porridge, is made by boiling wheat flour in milk. The Kákars of Hindubágh and Kila Saifulla largely supplement their foodstuffs with *shínae*, the fruit of the pistachio *khanjak*, which is eaten both fresh and dry. Before use it is pounded and either mixed with bread, or made into an infusion in which the cakes are steeped (*púsa*). A similar use is made of the juniper berries.

The use of *lánde* or *parsanda*, a kind of biltong, is common among the well-to-do classes and also among some of the poorer people. It is generally made of mutton, but occasionally also of goats' meat, beef, or camels' flesh. Ordinarily a family will kill three to five sheep for making *lánde*, but the well-to-do kill more.

Sheep are specially fattened for the purpose, and are killed about the end of October. The carcass is either skinned, or the wool is pulled off with the help of applications of boiling water. After the carcass has been singed in a fire, the feet are cut off, and it is cleaned; the stomach is then joined together with green twigs, and the body is

POPULATION. divided from neck to tail, the bones of the back and legs being taken out. Such meat as adheres to these members, is salted and placed in an emptied entrail, and is considered a great delicacy. The carcase is now slashed and thoroughly salted, rolled up, and kept for a night to get rid of the moisture in the meat; after being further treated with salt and asafœtida, the meat is now hung on a forked pole and exposed to the air, day and night, except in damp weather. It is ready for use in about a month. It is examined from time to time, and more salt and asafœtida are rubbed in if it shows signs of decomposition. When ready, it is cut up and stored in a jar or sheep skin, and is fit for use till March. When required for eating, it is boiled in an earthen pot for three hours over a slow fire. Most people eat it once a week or on very cold days. Some people also eat pieces of this meat raw.

Now-a-days the diet of the well-to-do among the people is becoming more civilized. They drink green tea, and eat fowls, eggs and rice.

Fruit and  
vegetables.

Melons, water-melons, grapes, apples, apricots, mulberries, and *sanzali* fruit (*Elæagnus hortensis*) are eaten where procurable. The wild fruits in use are the pistachio *khanjak*, *shinani* (*Olea cuspidata*), and wild almond. The use of vegetables is unknown among the indigenous population, though they eat the tender shoots of wheat and barley and also the following wild herbs:—*Ushnúr astagnár*, *khokhai*, *injácra*, *shézi*, *raghbolæ*, *péwark*, *marghakai*, *pushai*, *gul-i-mákhki*, *khátol*, *bushki*, *kursaka*, *gadzawari*, *darzai* and *khwázha músal*, and *sandi*.

Utensils.

The cooking utensils ordinarily in use consist of a tripod, a stone griddle, an earthen pot, a few drinking bowls, a wooden plate used both for kneading and eating and a copper can with a spout (*gadwa*).

Dress.

The dress of the majority of the people is simple and made of coarse cloth, that of a male costing about Rs. 7 and of a female Rs. 5-8-0. An average tribesman wears a turban



(*pagrai*), a *jábai landai* or *khalkái* which is like a smock POPULATION.  
 frock, *partúk* or baggy trousers, a long *tikrae* or scarf and a pair of shoes (*kapai*) or sandals (*tsaplai*). The Sanatia Kákars wear a *kamis* or shirt instead of the *jábai* and have also a conical cap (*kulla*) under the turban. A Sanzar Khél would generally wrap one end of his turban round his neck. Big trousers among the Sanzar Khéls are considered a mark of distinction, an average tribesman expending on them about 20 yards of cloth, a Sardár Khél Jogízai as much as 45 yards, while among other tribesmen about 8 yards of cloth are used. In winter sheep skin (*postin*) or felt coats (*kosae*) are worn; the Mando Khéls using generally sheep skin coats which they make themselves. The poorest among the Shíránis are content with a course blanket (*sarai*) round the waist and another thrown over the shoulders. The majority of the tribesmen wear nothing but white; the Shíránis, Mando Khéls, and Alizai Sanzar Khéls, however, wear black turbans.

The women have a wrapper (*sarai* or *tikrae*) and a long shift reaching to the knee which in the case of married women is embroidered in front with silk and studded with shells. Among most of the tribes, a marriageable girl's dress is generally of two colours, the front pieces, being of a different colour to that of the back pieces. The use of trousers among the tribeswomen is restricted to Mando Khéls and to a few women of leading families among other tribes. Some of the Sanatia women have begun to wear trousers. Among the Shíránis a girl on her marriage wears trousers. Other women wear gaiters (*paichas*), which in the case of married women are green or red and of unmarried girls white. Unmarried girls of the Kamálzai section in Hindubágh wear on the forehead a red cloth band (*zekán*) stuffed with wool.

The rise in the standard of living has led to improvement in the style of dress among the wealthier classes, and the felt coat (*kosae*) and coarse cloth are being gradually

**POPULATION.** replaced by the finer Indian piece-goods. Better materials are also used for the dress of the women.

**Hair.** All the tribesmen, except the *mullás* who shave their heads clean, wear long hair which falls in curls on either side of the face. Elderly men among the Sanatía Kákars cut their hair short. A part of the hair of unmarried girls is made into fine plaits over the forehead and tied with a brooch (*zarúngae*), the mark of maidenhood; and the rest is tied in a single plait at the back. That of the married women is divided by a parting, brought round the ear and made into two plaits at the back.

**Ornaments.** Females adorn themselves with ornaments such as nose rings, ear-rings of silver or brass, bracelets and necklets of silver, and bangles of either silver or zinc. Young men and older men of position are particularly fond of ornamented saddlery, cheap rings set with imitation stones, and gold embroidered coats and waistcoats. Nearly every man wears an amulet or *táwiz*.

Married men who have no children, or whose children do not live long, sometimes wear, as a charm, a bracelet on the right arm and a silver ring in the right ear, and get a hole bored by a *mullá* or *sheikh* in the ear or in the right nostril.

**Dwellings.** Nomad tribes such as the Malazai, Kamálzai, Mírzai of Kazha in Hindubágh, Mardánzai and Sáfí in Fort Sandeman, and Jalálzai, except the Jogízai *sardúr khól*, in Kila Saifulla spend the year in blanket tents (*kizhdi*). A *kizhdi* is made of goats' hair, and generally consists of eleven pieces (*táyai*). The ordinary width of a piece is 3 feet, and the length varies from 15 to 24 feet. Three of these pieces stitched together form the fly, and two stitched together form each of the four side walls. They are stretched over curved wooden poles (*shám*). In winter the side walls are protected against rain and water by a stone or mud wall about 2 feet high, or by a wattle hurdle. In front of the *kizhdi* is a yard fenced in by matting or bushes.

Only the well-to-do can afford a separate *kizhdi* for their flocks and cattle. In the centre of the *kizhdi* (*gholai*), the family live, and this part of the abode contains the hearth and a platform on which are placed blankets, carpets, and spare clothes, and a stand for the water skins. In another division (*shpol*) the sheep and goats are folded at night, whilst in a third (*ghojal*) larger animals are tethered. A *kizhdi* costs about Rs. 60, and should last for ten years. It is waterproof and a favourite mode of living, as it can be moved from place to place as may be necessary. The Jalálzai Kákars of Torghar who are mostly graziers use caves for shelter and many of them do not possess even *kizhdís*. Many of the cultivators move from their mud huts into *kizhdís* in the summer, some along their fields and others in fixed encampments known as the *ména*. No beds or lamps are used, and the household furniture is scanty and consists generally of a few blankets, carpets, quilts, pillows, skins for water and grain, some cooking pots, and a hand mill (*méchan*). A variation of the *kizhdi* is the summer shelter, which is covered with bushes, instead of blankets and is called *kudhal*.

The settled inhabitants live in huts made of stones and mud, consisting of a single hut 24 feet by 12 feet in size, and costing about Rs. 30. The roof is either flat or sloping and consists of brushwood covered with mud. The single room is used for all purposes including use as a cattle shed. The well-to-do people, especially among the Jogízais, have spacious houses, with court-yards. Among the Shíránis the people generally live in stone-built houses with flat mud roofs, each hut containing a single room about 8 feet high and 10 feet square, which is occupied by the whole family. Doors are uncommon, the door-way being generally closed with a bush. The stock of furniture is very limited, consisting as a rule of a mat or two and a couple of cots made of olive wood and woven with a kind of grass called *burwaz*.

**POPULATION.** An improvement has recently been noticeable in the structure of houses in the District. Sheikh Yákúb Ismáílzai has set an example by building a large house; stone in mud, with a *masjid* and a guest house adjoining it, at Musáfirpur. It is all his own handiwork including the doors, and the bedsteads, and is known in the country as the *Sheikh bangla*.

**Disposal of the dead.** The method of burial usual among Muhammadans is in vogue, the body being laid north and south with the head inclined to the west. The *mullá* draws the *kalima* either on the forehead of the corpse, or on a piece of pottery or a clod, which is placed under its head. As his fees he is given the clothes worn by the deceased except the turban. There is no fixed period for mourning. Condolence and *fáteh* are offered by friends and relatives within the first three days, but in the case of death of females, condolence is dispensed with, except among the Sanatias. The mourning in the case of a child under four years lasts for one day only.

Two stones are generally placed on the grave of a man, one at the head and the other at the foot, and three on that of a woman, the third being in the centre; in some places a man's grave has two and a woman's grave one stone only. Long poles are erected over the graves of saintly persons as a mark of reverence.

A person who is killed at the hands of a man of an alien faith, or unjustly by one of his co-religionists, is styled a *shahíd* or martyr. His body is placed on the ground in his own clothes, covered over with stones, and a stone hut erected over it in which a loophole is left for passers-by to look in.

**Amusements and festivals.**

The only indoor game is *katár* which resembles chess, and requires two players each having nine pieces of stick or small stones. Boys play with knuckle bones (*baddai*) and are fond of marbles. Of out-door games may be mentioned *héndá* resembling prisoner's base, and wrestling,

the latter being confined to Sanatia Kákars. *Khusae* POPULATION, a hopping game, requiring eight or twelve players, is another amusement. The well-to-do classes both shoot and course, while the poorer classes are fond of chasing tiring, and thus killing sisi or chikor. Sisi and chikor are snared, and also foxes, the last named chiefly in Hindubágh and Kila Saifulla tahsil for their skins.

Dancing (*hamai* or *atanr*) is popular among men and women on all festive occasions. The dancers move in a circle, clapping their hands and singing in concert under the leadership of one of their number. Among the Sanzar Khéls mixed dances (*gada hamai*), are common, marriageable girls and men dancing together; but in other parts of the District men and women dance separately. Among the Shíránis male guests at weddings perform the sword and *ghumar* dances round a bonfire.

The only important festivals are the two *ids*, the *loe id* and the *halkai id*. Horse races, tent pegging, dancing, and shooting at a mark, form the amusements on these occasions.

Shrines are ubiquitous in the District, almost every village graveyard having a patron saint, who in his life time was a village or tribal elder. Their shrines generally consist of little more than a heap of stones or a rough mud or stone enclosure, and occasionally a mud hut, surrounded by some poles to which rags, horns or bells are attached. Shrines.

In the Hindubágh tahsil the best known shrines are those of Sheikh Táru Nika in the Marghzán valley, much respected by the Sargaras; and of Sháh Husain Nika, an Isa Khél Kákar, at Urgassa, held in reverence by the Sanatia Kákars. The local tradition credits Sháh Husain with having had horns, like a goat. The shrine of Mullá Kamál Akhund, Mehtarzai, lies at Khulgi. He is said to have predicted that on the day of his death Hindubágh would be occupied by the British, and local tradition alleges that this prediction was realised in October, 1890. Other

POPULATION. shrines are those of Sakhi Nika, Táran, on the bank of Yákúb Mándá, about 20 miles south of Hindubágh, who is said to have turned the melons of a field in "Hindwáno kach" into stones; Shéran Nika who in his lifetime rooted out cholera from Hindubágh; Daulatyár Nika, a companion of Dáru Nika; and among Fakírzaís those of Bahlol Nika, Sikandar Nika, Lakír Nika, and Adilai Nika.

In the Kila Saifulla tahsíl the best known shrine is that of Békar Nika, who was fourth in descent from Jogi, the progenitor of the Jogízais. It is alleged that the power and influence of the Jogízais was at its zenith in Békar's time. He was summoned to Kandahár by Ahmad Sháh Abdáli, who demanded revenue from his clansmen. Békar was put in boiling water and miraculously came out unhurt. Ahmad Sháh was convinced of his saintliness and gave him a *sanad* of exemption from payment of revenue. His shrine lies at Spín Tangi, about 12 miles north of Kila Saifulla, and is largely visited by all Sanzar Khéls. The shrines of comparatively minor importance are those of Jogi at Spíntangi, Nawáb Jogízai at Khusnob, Jhanda and Isháq Jogízai at Rod, Ismáíl Smailzai at Takri, Hazár Ghorézai at Ghorézai, Saiad Muhammad Ghorézai at Toiwar, Zaid Allahdádzai at Telerai Allahdádzai, and of Mullá Sada Gul Mírzai. A hillock near the Tang Haidarzai resthouse is pointed out as the sacred spot where Khwája Khidar sat for a while.

Important shrines in the Fort Sandeman tahsíl are those of Husain Nika, Sanzar Nika, and the Takht-i-Sulaimán. The shrine of Husain Nika, a Mecha Khél *fakír*, is situated on the bank of the Kunder river, on the northern frontier of the District; it consists of a hut about 20 yards long by 12 yards broad and 3 yards high. There are several other shrines close by, among others of a dog belonging to the saint. According to local tradition this dog was endowed with the power of divining the number of pilgrims who were coming to visit the shrine and used to notify the same by barking,

giving one bark for each visitor. On one occasion the dog gave three barks and his master accordingly prepared food for three guests, but four men arrived and the saint, moved to righteous anger by what he considered was wilful deception on the part of the dog, immediately slew him. It subsequently transpired that only three out of the four guests were Musalmáns and that the fourth was a disguised Hindu who had falsely endeavoured to pose as a true believer. In his remorse the saint erected a shrine in honour of the dog and left it in his will that his votaries should first visit the dog's shrine and then his own. This practice is observed to the present day. The shrine is held in reverence by the Powindahs, more especially by the Sulaimán Khéls. The present keeper of the shrine traces his descent for twenty-three generations in a direct line from Husain. The other men attached to the shrine reside at Inzar about 5 miles distant and attend by turns. The shrine has a revenue-free grant at Inzar of 62 acres of land, of which 29 acres are irrigated and 33 acres uncultivable waste. Among other miracles it is mentioned that the caldron provided for cooking the sacrificial meat cannot be filled, nor can any length of cloth wholly cover up the saint's grave, except in cases when the votary's request meets with the saint's approval and the object desired by him is to be gained immediately.

The shrine of Sanzar Nika, the progenitor of the Sanzar Khél Kákars, lies at Kot in the Kibzai circle about 27 miles from Fort Sandeman, and is held in great reverence by all Kákars.

The Takht-i-Sulaimán shrine is situated on a ledge some distance below the crest on the southernmost bluff of the Kaisa-ghar mountain. It is visited, chiefly in the summer on Thursdays, by many pilgrims both Hindu and Muhammadan. In June, 1891, it was visited by the late Major McIvor, then Political Agent in Zhob, and Captain (now Major Sir Henry) McMahon, and the following has been

POPULATION, extracted from an account dated the 8th of August, 1894, written by the latter officer, and published in the "Geographical Journal" for that year:—

"This mountain, which, with its sister peak of Kaisagar, forms the highest points of the Sulaimán range of the north-west frontier of India, is situated in the territory of the Shíránis, who, until brought under British control in the winter of 1890, were an independent and extremely troublesome border tribe. Many legends attach to it. According to some, Noah's Ark alighted here after the Deluge; while others (from this the mountain derives its name) connect it with Solomon, who, as the story goes, once came to Hindustan to marry a lady named Balkis. While returning from India with his bride in a flying throne, the lady requested Solomon to stop for a while, to enable her to take a last fond look at her native land. Thereupon the throne alighted on this peak, which has ever since borne the name of Takht-i-Sulaimán, or Solomon's throne. Ethnologically, the mountain is considered by some to have been the birth-place of the Pashtú-speaking races.

"From these and other legends connected with this mountain, the shrine situated near its summit has been for many centuries the place of pilgrimage of such adventurous pilgrims, both Hindu and Muhammadan, as were hardy enough to face the dangers of the road, through the wild tribes of the country, and the difficulties of the mountain itself. A native surveyor is said to have reached the shrine about a hundred years ago, while somewhat later two Englishmen, Messrs. Fraser and Harris, members of Elphinstone's Mission of 1809, are said to have attempted the ascent, without success. The military expedition sent to survey this mountain in 1884 succeeded in reaching the summit of the Kaisa-ghar peak close by, which is 11,300 feet and some 200 feet higher than the peak of the Takht itself. No attempt was made to scale the Takht, which was said to be inaccessible.



“During the Shíráni expedition in December, 1890, General Sir George White, the present Commander-in-Chief of India, in order to show the Shíránis that even their most remote mountain fastnesses were not inaccessible to British troops, ascended the mountain from the eastern side, accompanied by a small party of picked men, and succeeded, after some two days' hard climbing, in reaching a point on the east line of the hill, but was unable to devote the time necessary for an attempt to reach either the shrine or the actual summit.

“Major MacIvor, C.I.E., then Political Agent, Zhob, and myself determined, the following year, to attempt the ascent, and found ourselves on June 28, 1891, at the Pezai spring, on the western slopes of the range—the highest point at which spring water on that side is obtainable. At dawn on the 29th we commenced the actual ascent, and by the evening, after a hard day's climb, reached the crest line at the point where the famous shrine is situated. Here we found a couple of rough stone hut shelters erected by pilgrims, in which former visitors had each in turn left cooking vessels and supplies of flour and rice for the use of those who might come after them. The actual shrine was close by, and within a few yards, but far from a pleasant place to get at. The face of the mountain at this point on the eastern side is a sheer precipice of many thousands of feet. The shrine is some 20 feet down below the edge of the precipice, and consists of a small ledge of rock about  $4\frac{1}{2}$  feet long by 3 feet wide, with a slight artificial parapet of rocks on the outer sides, about a foot in height. It is reached by four foot-holes cut or worn away in the rock. The hand and foot-hold is good, but the edge of the precipice appears slightly to overhang the little ledge below and the sensation therefore experienced in going down or coming up over the edge of the precipice is only equalled by that of seeing some one else do so. All pilgrims apparently do not enter this shrine, but content themselves with looking

POPULATION. down into it from above. Those who do descend leave a small token in the form of a small piece of stick, which they fix into the interstices of the little rock parapet. Both of us descended, and left our stick tokens. The look-down into space from this little ledge does not tempt one to make a very long stay there.

“The crest of the mountain at the shrine is not the highest point, which is at one of the three knob-like peaks at the south end of the crest. These we determined to ascend, if possible, next day, notwithstanding the assurances of our native guides that these peaks were quite inaccessible. After a cold night on the crest, on the ground, where some snow was still lying in patches, we commenced a hard day’s work. Each of the three peaks before us was separated from the place in which we were and from each other by precipitous gaps in the crestline, and the ascent certainly did not appear hopeful. Without describing the many adventures of the day, it will suffice to say that we both succeeded in reaching the tops of all three peaks, and also, I am glad to say, in discovering a possible way down again—a matter which at one time appeared somewhat doubtful.

“This is the first occasion on which Europeans have reached either the shrine or the summit of the peak of the Takht-i-Sulaimán. No one has, as far as I know, gone up to either place since.”\*

The minor shrines in Fort Sandeman are those of Mír Nika at Karmánzai in the Shírání circle; of Mullá Zamán Nika, Harípál at Niqíb Khel; of Mullá Bábakar Harípál at Shínapunga; of Mullá Umar Nika Harípál at Abdul Haq Kili; and Muhammad Nika Mando Khel at Déra.

Names and titles.

Both among girls and boys many names are to be found, which are possibly of totemistic origin. They are those of animals, plants or fruits, and references to colours such

\* The place has since been visited on two separate occasions by parties of British Officers.

as *nílaí*, *bay*, *samand*, *dun*, *zarghún* green, are frequent. In POPULATION. other cases, the denominations used for men are those usual among Muhammadans, while, in the case of women, names beginning or ending with *Bíbi*, or *Náz* or expressions of value or quality are popular, such as *Bakht Bíbi*, *Bíbi Maryam*, *Bíbi Aisha*, *Mahnáz* or *Náz Bíbi*, *Gulbashra* (flower-faced), *Zartola* (golden), and *Názuka* (delicate), etc. Shortened forms of the long names given to men such as *Táj* for *Táj Muhammad*, *Walo* for *Wali Muhammad*, etc., are frequently used.

Though a girl is a valuable asset in an Afghan family, no ceremonies are observed on her birth. She is named by the mother or some female relative. The birth of a boy is announced in a peculiar manner. The woman who attends the mother shouts thrice at the top of her voice *Kánros búto wárvai da falláni zoe wo so*, which means, 'Ye stones and plants, listen that a son has been born to a certain (naming him) person.' Guns are then fired and there are general rejoicings. The boy is named on the third day after consultation with the *mullá*. The ceremony of circumcision takes place within the seventh birthday generally. In stating his name a man will generally add that of his sub-section, section, clan, tribe or other group to which he belongs. The term *khán* is used both as a suffix or prefix, and in the latter case it is considered a mark of honour. The word *malik* is applied not only to village headmen recognised by Government, but also to large land-owners and men of influence. The term *sardár* is strictly confined to some of the leading men among the *Jogzais*. But it is commonly applied by the *Shíránis* and *Mando Khéls* to their leading men, and also to other *Jogzais*.

Among titles possessing a religious significance may be mentioned the prefix *sheikh* and the suffix *sháh* which are employed by *Saiads*. The term *mullá* and *tálib* are applied to men, who have some pretensions to religious

POPULATION. learning, the latter being applied to those who are still under religious instruction. The descendants of *mullás* are known as *Akhundzáda*.

Rules of honour.

A knowledge of the rules of honour (*mayár*) which prevailed among the people before the British occupation and which still influence the actions of many of them is not without importance from the point of view of administration, and a short reference may be made to them here. They are gradually giving way before British law and order. It was incumbent on a tribesman —

- (1) To avenge blood.
- (2) To fight to the death for a person who had taken refuge with him. The refugee was called *nanawátae* and was always maintained by his protector so long as he remained under the latter's roof.

Among the Shíránis an offender who is unable to protect himself from his enemy, or, in other words, when his own territory is too hot to hold him, generally takes refuge with a chief or other powerful personage belonging to some other section or tribe. The custom ("nahora" as it is called) is to take a sheep and slaughter it at the door of the person's house whose protection is claimed and who is bound to give him refuge. The offender then becomes the protector's *hamsáyah* or neighbour, and is bound to make good to the latter any loss incurred by him in consequence of the responsibility he has undertaken. In the event of the *hamsáyah's* death the protector's claim forms the first charge on the deceased's property. Another method of claiming protection consists in the offender tying the end of his *chádar* to that of the wife of some powerful personage when the latter generally affords him the succour he requires, though he is not bound to do so as in the former case. The custom of "nahora" is also employed when one man begs any great favour of another. The slaughtering of a sheep at a person's door marks the urgency of the

case and is something akin to the Hindu custom of sitting **POPULATION.**  
"dharna."

- (3) To defend to the last property entrusted to him.
- (4) To be hospitable and to provide for the safety of the person and property of a guest.
- (5) To refrain from killing a woman, a Hindu, a minstrel, or a boy who had not taken to trousers.
- (6) To pardon an offence on the intercession of a woman of the offender's family, a Saiad or a *mullá*, an exception being always made in case of adultery and murder in which terms were arranged between the parties.
- (7) To refrain from killing a man, who had entered the shrine of a *pir*, so long as he remained within its precincts; and also a man who whilst fighting begged for quarter with grass in his mouth or a cloth round his neck or who put down his arms.
- (8) To cease fighting when a *mullá*, a Saiad, or a woman, bearing the Korán on his or her head, intervened between the parties.
- (9) To punish an adulterer with death.

In pre-British days, blood had to be avenged by blood if the parties were of equal position and influence; but if the relations of the person killed were weak, the matter was compromised by the payment of compensation. In cases in which the parties belonged to the same tribe and the offender himself was out of reach, his nearest relation, viz., his brother, father or cousin was slain. If, however, the offender belonged to another tribe, it was incumbent on the aggrieved party to kill one of the section, clan or tribe to which the former belonged. Such a system was liable to indefinite extension and led to interminable blood feuds, which continued until either the authorities or friends intervened to arbitrate. In such cases the losses on either side were reckoned up and compensation was paid to the side, which had lost most.

System of reprisals.

**POPULATION.** Might was right in days gone by and the position of the party aggrieved was the principal factor in determining the price to be paid for blood; hence the compensation for a *mullā*, a Saiad or a person belonging to a *sardārkhél* or leading family was considerably more than that payable for a tribesman. The general rate among the Kákars was Rs. 1,200 and four girls; among the Mando Khéls Rs. 1,200 and two girls; Shíránis Rs. 700; and Khosti Sheikhs Rs. 500 to Rs. 700. The award of girls as compensation among the Kákars was generally made up of two girls *házar* (present) and two girls *nā-házar*, that is, not born yet. In the latter case the party whose girls were to be given when born, was nominated. The girls for this purpose were valued at Rs. 100. The compensation for a woman and for a *péshawar* (weaver) was generally half of the amount payable for a tribesman. The loss of an eye, a hand, ear or foot was generally counted as equivalent to half a life, the loss of a nose as equivalent to a life; the compensation for the loss of a tooth was about Rs. 50. When a murder was committed in consequence of a dispute in regard to land, a plot of land was also given, among the Kákars, in part payment of compensation.

Among the Shíránis, in cases of blood feud the quarrel is strictly limited to the actual offender; the blood money is fixed at Rs. 700 for males and Rs. 350 for females. A curious custom, which seems to be peculiar to this tribe, is that should vengeance be exacted in hot blood, i.e., immediately after the offence has been committed, no blood money is claimable, but if some time is allowed to elapse before the offended party take its revenge, then compensation is payable to the relations of the murdered man at half rates, i.e., Rs. 350 for a male and Rs. 175 for a female.

Afghán  
refugees.

The only Afghán refugee at present (1906) residing in the District is Sáhíbzáda Mír Hasan Sháh, a Hasanzai Saiad, who with eleven followers lives at Kili Sheikhan in the Fort Sandeman tahsil and is in receipt of a monthly allowance of Rs. 100.

## CHAPTER II. — ECONOMIC.

The two dominant factors which present the msolves, when considering the general conditions under which agriculture can be carried on in the Zhob District, are the presence of mountainous tracts, which can never be made capable of cultivation, and the absolute necessity of perennial irrigation to ensure a harvest. A large part of the cultivable area, moreover, consists of land, which is incapable of permanent irrigation and entirely depends on rainfall, and from this a fair crop cannot be expected oftener than once in about three years. Cultivation is, therefore, sporadic and dependence on anything but permanently irrigated land is precarious. The largest dry crop tracts which are cultivated are those lying in the Kila Saifulla tahsíl and include Khushkába Bátorzai, Khushkába Daulatzai, Bandát-i-Alikhé, Khushkába Ghorézai, Gwál Ismáílzai, and Gwál Haidarzái; in the same tahsíl the principal tracts which are uncultivated but culturable are those known as Pitao Mírzái, Khasnob, Pitao Daulatzai, Pitao Bátorzai, Pitao Ghorézai, Sháh and Shinglúna. The best tract of dry crop land in this tahsíl is Tatai, about  $2\frac{1}{2}$  miles from Kálu Kila and included in the limits of Gwál Haidarzái. It contains about 40 large embanked fields, is said to be very fertile, and is therefore comparatively very valuable, a single *bund* selling for Rs. 700 to Rs. 800, while similar *bands* in other tracts ordinarily sell for Rs. 50 to Rs. 200, and rarely for Rs. 400. Elsewhere, uncultivated dry crop tracts are found mostly in the north-western parts of the District, the principal of them being the Késhatu, Wasta, Súrzungal, and Zari Dagár. In the Fort Sandeman tahsíl dry crop area is comparatively small and is included mostly in the Kibzái, and Shírání circles. All these dry crop areas are capable of considerable extension but as the last few years of drought have shown, their cultivation is precarious. The stony slopes at the foot of the mountains are useful only for grazing.

AGRI-  
CULTURE.General  
conditions.

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## Soils.

No scientific analyses of the soil in various parts of the District have been made. In the course of the survey of the Hindubágh and Kila Saifulla tahsils, the land in the irrigable area was divided into no less than twenty classes with reference to its capacity for yielding crops, the best land being *dofasli karsála*, that which yields two crops in a year, and the last class, *yak fasli dah sála*, from which a crop is raised once in ten years. To these classes were added gardens, *sailába* or flood irrigated land, and *khushkába* or dry crop land.

The cultivators base their classification on the most obvious properties of the land. In Fort Sandeman five kinds are recognised, viz. —*Sra khávri*, a red loam found along the Zhob river; *tora mzakka* or *tora khávri*, a dark loam found in the Kibzai and Abdullazai circles; both are well suited for wheat and barley crops; *spína khávri* or white soil found almost in every circle and suited for the cultivation of millet (*chína*); *sagwasta* or *sangwasta*, a soil containing gravel and occurring in Gustoi, Shkráni, Abdullazai, and Mando Khél circles; and *sharana* or saline soil of which very little is found except here and there along the Zhob river. *Sagwasta* is inferior soil and requires manuring to give a crop; maize is cultivated in it; *chína* and *mung* (*Phaseolus mungo*) are sown in the *sharana*. In the Kila Saifulla tahsil six kinds of soil are known: *pakha* which is the best, is composed of rich clay; *atana*, also called *matana*, which comes next and answers to the *mat* in other parts of Baluchistán, i.e., a soil made by silt deposits; *sagana*, a sandy loam which requires frequent watering; *sharamágh*, a soil of saline composition; *klaka*, a hard soil and *rúgha*, containing gravel and shingle, both the last named being inferior and not ordinarily fit for cultivation. *Pakha* is found in Ismúlzai, Ghorizai, and Haidarzai; the *atana* in Pasénzai, Akhtarzai, Alozai, and Ali-khél; the *sagana* in Bátozai, Sibzai, Ghibzai, Zarkae and in Mírzai and Shádozai *viálas* which last two contain also the *sharamágh*; the *klaka* is met with north of the Lora and the *rúgha* in Sághra



and towards the Fitao hill. The Hindubágh tahsil has three kinds of soil called *pakha-spína*, *réti* or *sagna*, and *dabarlana* or *zhaghkana*. The *pakha-spína*, as the name implies, is a rich white loam found in the Hindubágh circle at Urgasa, Kárézagae, and Loe Káréz; at Kazha and Shína Khura in Kazha circle; in the Khurásán circle, mostly in uncultivated tracts; in Murgha Mehtarzai circle, at Murgha and Kánr Mehtarzai; and in the Bábu Chína circle at Bábu Chína, Murgha Fakírzai, and Zhar Ghézh. The *réti* is a sandy soil suitable for the *ghosht* (millet) crop and is found at Kam Káréz in the Hindubágh circle and at Shína Khura in Kazha. The *dabarlana* is an inferior stony soil containing gravel and is found mostly in the Bábu Chína circle, also at Rod Kamchughai in Murgha Mehtarzai. It does not ordinarily give a crop without manure.

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The rainfall is scanty and variable, the average for twelve years (1898-1904) at Fort Sandeman being 9·55 inches; and for the last four years at Hindubágh and Kila Saifulla 4·92 inches and 4·15 inches respectively.\* Most of the rainfall in Hindubágh is received during the winter between October and March, the latter being the rainiest month. The average summer rainfall between April and September covering the number of years mentioned above is 5·58 at Fort Sandeman, 0·98 at Hindubágh and 2·32 at Kila Saifulla. The heaviest rainfall during the year is at Fort Sandeman and takes place during the months of July and August. The rainfall in the District is, like that of the rest of the highland parts of Baluchistán, uncertain and this is a factor in agricultural life with which the cultivator has constantly to reckon. Thus, for instance, in Fort Sandeman during the ten years ending 1905, the three years 1899, 1900, and 1905 were bad years as regards

Rainfall  
and system of  
cultivation in  
relation there-  
to.

\* With reference to the figures for Hindubágh and Kila Saifulla it must be taken into consideration that the four years during which the records have alone been kept were years of exceptional drought. It is therefore probable that in normal years the difference in the rainfall at Fort Sandeman, Hindubágh, and Kila Saifulla is not so great as would appear from the figures now given.

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rain. "A good rainfall," wrote Mr. Crawford, "naturally affects, not only the amount of rain crop cultivation, but also the irrigated land, and the springs, streams, and *kárézes* which supply the water for irrigation." To the flockowner it is of great importance and provides abundant pasture for his flocks. If good rain or snow falls between January and March the sources of perennial water maintain a sufficient water supply for the spring harvest and the summer rainfall again replenishes them for the autumn harvest. The rainfall received between July and September is also utilized by reserving the moisture in the ground for sowing the spring crops in the autumn; it greatly benefits the irrigated autumn crops. The rainfall between December and February is beneficial to the wheat crop sown in the previous autumn. The spring rains in March and April benefit the irrigated *rabi* or spring crops while wheat in unirrigated land largely depends on them; showers received in the following month (May) besides being essential to mature the spring crop (*rabi*) in dry crop lands (*khushkába*) are useful for sowing *juári* in unirrigated land which matures with the summer rains. For purposes of dry crop cultivation the lands are embanked, the cultivated plots being known as *bands*. These *bands* are filled with rain or flood water in the summer or winter, after which they are ploughed and the seed is sown. When moisture is to be retained for a crop to be sown later, as is the case for the *rabi* crops after the summer rains, the land is ploughed deep and harrowed smooth.

Irrigated and  
unirrigated  
areas in the  
District and  
sources of  
irrigation.

Table IV, Volume B, shows the irrigated and unirrigated villages in the District with their sources of irrigation. Of the 269 villages, 182 are wholly irrigated, 57 are partly irrigated while 30 have no permanent source of irrigation. The sources of irrigation are 586 and include 26 streams, 123 *kárézes*, and 437 springs.

Details of cultivable and irrigable areas with sources of irrigation in the Hindubágh and Kila Saifulla tahsils, which

## SOWING AND HARVEST TIMES. 113

have been partly surveyed, are given in table V, Volume B. The following abstract shows the areas in 1904-05 :—

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| Tahsil.          | Total area surveyed. | Uncultivated. | Cultivable.   | Irrigable.    | Khushkâba.* |
|------------------|----------------------|---------------|---------------|---------------|-------------|
|                  | Acrea.               | Acrea.        | Acrea.        | Acrea.        | Acrea.      |
| Hindubâgh ...    | 33,029               | 14,604        | 18,425        | 17,901        | 524         |
| Kila Saifulla... | 30,307               | 8,574         | 21,733        | 21,534        | 199         |
| <b>Total ...</b> | <b>63,336</b>        | <b>23,178</b> | <b>40,158</b> | <b>39,435</b> | <b>723</b>  |

A considerable proportion of the indigenous population is dependent on agriculture, and many of the Kâkars, Mando Khêls, Shîránis, and the Sâfis combine flockowning with it. The best cultivators are the Mehtarzai, Isa Khél, Fakîrzai, Mardânzai in Hindubâgh, Haidarzarai and Mirzarai in Kila Saifulla and the Mando Khél in Fort Sandeman.

Population  
dependent on  
agriculture.

Two principal harvests are recognised, viz., the spring or *rabi* locally known as *dobae*, and the autumn or *kharif* called *manae*. The former (*rabi*) includes the crops sown between October and middle of February and reaped by the month of June; the autumn harvest (*kharif*) includes the crops sown from April to July and reaped by the month of October. In Hindubâgh where the climate is colder than in other parts of the District the *rabi* sowings continue till March and the harvest comes in June and July. Similarly, the *kharif* harvest extends up to November. The following are the principal crops produced at each harvest :—

Sowing and  
harvest times.

### *Rabi.*

1. Wheat (*Triticum sativum*).
2. Barley (*Hordeum vulgare*).

### *Kharif.*

1. Maize (*Zea mays*).
2. Juári (*Andropogon sorghum*).
3. Ghosht (*Panicum Italicum*).
4. Azhdan (*Panicum miliaceum*).
5. Rice (*Oryza sativa*).

\* This represents only the area within the limits of irrigable *mahâls* or estates.

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The largest and the most important crop is wheat which forms the staple food grain of the people. Of other food grains maize, *juári*, *azhdan*, *ghosht*, barley, rice, and *mung* (*Phaseolus mungo*) are cultivated. Lucerne (*Medicago sativa*) is only grown in small quantities and is classified as a *kharif* crop. It is sown in April and May and the crop once sown lasts for four years with sufficient irrigation and manure. Amongst miscellaneous crops, included in the *kharif* harvest are *pálézádt* (*cucurbita*), tobacco, potatoes, carrots, and onions, the cultivation in each case being insignificant. Table VI, Volume B, gives the details for three years of areas under principal crops in the two tahsils which have been surveyed. In 1904-05 the area under crops in the Hindubágh tahsíl, excluding 31 acres under gardens, amounted to 6,185 acres, viz., 4,989 acres under *rabi* and 1,146 under *kharif*, the areas under the principal crops being wheat 4,487 acres, barley 502 acres, maize 752 acres, and millets 294 acres.

In the Kila Saifulla tahsíl the area under crop was 10,682 acres, excluding 26 acres under gardens; the *rabi* crops covered 8,651 acres and comprised 8,055 acres of wheat and 596 acres of barley, while there were 2,031 acres under *kharif*, including 624 acres *juári*, 306 maize and 1,064 acres of millets. Area under each crop is not available for the Fort Sandeman tahsíl but the revenue\* realised in kind during 1904-05 indicates that the principal *rabi* crops are wheat (Government share at one-sixth of the produce 4,119 maunds), barley (545 maunds), and in *kharif*, maize (1,480 maunds), and *sháli* or rice (840 maunds).

Staple food  
grains.  
Wheat.

Two varieties of wheat are grown in the Hindubágh tahsíl, viz., the *sára ghanam* or winter wheat, which is white, and *tauda ghanam* or summer wheat, which is red and has a smaller grain. In Kila Saifulla two varieties are found — *sra* or red, and *spin* or white wheat; the red variety is largely cultivated and is also common to Fort Sandeman,

\* Vide table XVI, Volume B.

where three more varieties are recognised—*tor ghanam*, *orbasin ghanam* and *ghat ghanam*, all being indigenous to the country. The *tor ghanam* has a longish hard grain, yellowish in colour, the ear being dark, whence the name. The *orbasin ghanam* is reddish in colour, the grain is small and soft and the ear long but thin and yellow in colour. *Ghat ghanam* has a beardless ear which is thick but small, the grain being yellowish. All are cultivated equally in different parts of the tahsil and the sowing operations extend from October to end of January.

Early in the spring, after the rains, the land to be tilled is ploughed over once, the first ploughing being called *māta*. In the following September the land is cleared of bushes (*khwa*) and is watered for the first time. This first watering is known as *nāwā* or *kur*. When the surface of the soil has dried and has assumed a whitish appearance, the seed is sown broadcast (*pargūna*) and it is then ploughed and harrowed. In Kila Saifulla no harrowing is ordinarily done. In the Fort Sandeman tahsil when the cultivator possesses an insufficient supply of water and gets his turn of water after long intervals seed is sometimes sown broadcast in dry land which is ploughed and harrowed and subsequently irrigated. Such cultivation is known as *sama khūk*. After two or three days the land, which has been sown, is divided into small beds (*kurdāe*). Wheat sown in September sprouts in seven and that sown in October and November in fifteen or twenty days, while that sown in December to February comes up in March.

The first watering (*kharhāwa*, *lūtakashal*, or *sama*) takes place about forty days after sowing, and the second watering after another ten or twelve days. After this no further irrigation is required for about two months on account of rains in January and February. Subsequent irrigation depends on the water supply available. Ordinarily five waterings after sowing, the first two as above and the other three at intervals of fifteen to twenty-five days commencing

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from March, mature the crop, and these in consecutive order are locally known as *sama*, *prepánr*, *drémāndae*, *rakhsat*, and *spargha*.

In February and March wheat is in some places browsed by goats, sheep, and horses, and this causes the plants to spread. In the end of April and beginning of May if an east wind (*purkho*) blows on rainy days the crop is liable to rust (*surkhí*). But if the rain is followed by a westerly wind (*barvo*) rust does not appear. When rust attacks the crop the aid of the *mullás* and Saiads is sought. At the *loe akhtar* (Id-uz-zuha) when sheep or goats are sacrificed, every cultivator of ordinary forethought dips a piece of felt in the blood and puts it quietly by for use on the appearance of rust, when he places the piece of felt at the mouth of the water channel which irrigates the field, and believes the rust will vanish.

When the crop is fully ripe it is cut with sickles and collected into a heap. Threshing (*ghobal*) is done in the ordinary way by bullocks; and in some parts by camels. A long pole is placed in the ground in the centre of the threshing floor and ten or fifteen bullocks are driven round it to tread out the grain. Winnowing is done first by the pronged fork (*chárshákha*) and then by *trapae*, a wooden spade. The cleaned heap of grain (*riúsa*) is then divided.

Dry crop  
cultivation.

The system of dry crop land cultivation (*wachobgí*) is simple. Embankments of fields are repaired in June and July, and if filled with rain or flood water they are ploughed and harrowed smooth in August and September. The sowing season extends from October to end of March. In Hindubágh sowing is broadcast, the land after the seed has been sprinkled being ploughed and harrowed. Elsewhere, if the moisture is deep the land is ploughed (*dohaliza*) and harrowed and the seed sown by drill (*nálai*) in October and November. Cultivation is sometimes continued as late as March if there has been heavy rain or snow. The crop matures with the help of the spring rains which occur in April and May.

The method of cultivation of barley is the same as that of wheat. In Kila Saifulla the seed is sown from middle of February to middle of March, and in Hindubágh up to end of March. The crop is harvested in May. Since the British occupation there has been considerable increase in barley cultivation in Kila Saifulla.

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Barley.

Maize is known as *badaghar júári* or *makián*. It is cultivated in all parts of the District, almost exclusively in irrigated lands, and it forms the principal *kharif* crop in the Fort Sandeman tahsíl. It is of two kinds—white or *spír* and yellow or *zhar*. The sowing season lasts from May to July. That sown in May is called *sára*, while that sown in June and July is known as *tauda*, the former crop being known as *zárae* and the latter as *bobazh*.

Maize.

The usual method of cultivation is for the land to be ploughed in March and, where the soil is sandy, it is also manured before ploughing. A second ploughing is done in April, while some plough the land a third time also in the same month. Early in May the land is watered. The surface dries in four or five days, when the seed is scattered broadcast and ploughed in, the ground being afterwards harrowed smooth. The fields are then divided into plots for purposes of irrigation. The seed germinates in four or five days. When all the plants are in leaf the crop is called *zúka*. At this stage the plants are sometimes affected by a worm, known as *chinjai*, especially in manured fields, but immediate watering destroys them. Ordinarily the first watering (*kharkáwa*) takes place twenty days after the leaves have made their appearance, the second ten or fifteen days later and subsequent waterings take place at similar intervals, if possible. Delayed irrigation at the time of the second watering is injurious. The crop sown in May is in ear in July, and that sown in June and July gets ear (*khuti*) in August. About a fortnight later the ears begin to form and the crop is known as *shirdár*. The crop ripens at the end of September and is harvested in October. The ears

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are separated from the stalks and when dried are either beaten with sticks or are threshed by bullocks.

*Juári.*

*Juári* (*Andropogon sorghum*) which is also known as *targhari juár* or *duzár* to distinguish it from maize, is ordinarily sown in irrigated lands from May to middle of June, with the spare water from the wheat crop. The method of cultivation resembles that of maize. The crop is generally sown in fallow land which has been previously ploughed in March unless it possesses extremely fertile soil such as that found in Kazha and Shína Khura in Hindubágh. About a fortnight after the seed has germinated the crop is irrigated, the second watering taking place after a similar interval. Irrigation in August is necessary when the crop is about 1½ feet high; in September it is half ripe and in October it matures and is harvested. The ears are cut, the stalks (*karaba*) being left in the ground. *Juári* sown as green fodder is cut before it is in ear.

Dry crop cul-  
tivation.

The cultivation of *juári* generally takes place in unirrigated land, especially in the Kila Saifulla tahsíl where it is confined to such land. In this tahsíl the embankments are prepared in March and the fields after they have been filled with rain or flood water, are ploughed deep and harrowed smooth to retain the moisture. The seed is sown by drill about the 15th of April, and sowings continue till the end of the month. If rains fall late in April and May, the seed is sown broadcast. The unirrigated crop depends on the summer rains from July to September. The crop sown in April is liable, about the month of June, to an attack by a worm called *larama* which eats up the roots. Timely rains in May kill the worm. The crop ripens in September and is harvested by end of October.

Millets.  
*Azhdan* and  
*ghosht*.

Millets comprise two varieties, viz., *azhdan* and *ghosht*. The method of cultivation resembles that of maize. *Azhdan* is the only autumn crop in the irrigated areas in Kila Saifulla and is widely cultivated in the Hindubágh tahsíl, mostly in Kazha, Khurásán, and Bábu Chína circles. It is



hardy and grows well even with little moisture and is, therefore, largely cultivated in years of scanty rainfall. When water is available from the wheat crop in June and July, sowing is commenced, the operations lasting during July in Kila Saifulla and extending up to middle of August in Hindubágh. The crop ripens in September in Kila Saifulla and a month later in Hindubágh. It is threshed on the same day on which it is cut. Boiling water put over the harvested bundles accelerates the removal of grain from the ears prior to their being threshed by bullocks. The stalks (*palála*) are a poor fodder. In unirrigated lands also a little cultivation is done after the summer rains in July.

*Ghosht* is cultivated only in irrigated lands and is confined to the Hindubágh tahsíl. The crop is popular with the poorer cultivators as it gives a large produce in grain and can be raised from all kinds of cultivable land. It is of two varieties, viz., *spín ghosht* which is white with a bigger grain and *khargí ghosht* which is of reddish brown colour. These varieties are sown with *sára* and *tauda* maize, respectively. The crop ripens and is harvested in October. The stalks are called *hangaur* and are useless as a fodder.

Rice is cultivated in the Fort Sandeman tahsíl on Rod-i-Zhob, Rod-i-Khaisára, and Rod-Viála. Three varieties are known, viz., *spini solí* also called *spini wrízi*, *landai solí*, and *tori solí*. The first and the second are white varieties, the grain of the latter being somewhat larger than that of the former, which is however more widely cultivated. The cultivation of the third variety *tori solí* (red rice) is small. *Spini solí* is cultivated from middle of April to end of May and is harvested in October; the other two varieties are cultivated after the wheat crop has been cut and are harvested in September. The ground required for rice cultivation is divided into plots (*kalus*) which are ordinarily 20 by 10 yards. These are flooded and kept filled with water for four or five days when they are ploughed. Three or four bullock loads of the plants known as *spánda*

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(*Peganum harmala*), and *khamazurae* (*Withania coagulans*) are now spread over each plot and trampled in by bullocks, the process being known as *ghoimand*. The mud is again disturbed with hands and feet; this is called *psha*. The plots are again filled with water and left over for a night. The following morning the seed, which has previously been put in a bag and soaked in water for five to ten days and has germinated, is sprinkled (*pargúna*) in the field, which is irrigated. Three or four days after sowing the field is flooded, and a few days later when the plants have grown each plot is weeded of grasses, etc. When the plants are about a foot high, such parts of the field as have a thick growth are thinned and the plants so taken out transplanted (*nazún*) in places where the crop is scanty. Weeding (*lalún*) is done ordinarily every week. Rain or flood water is turned on rice fields with great advantage. A rice crop needs constant irrigation. Bundles of the harvested crop are taken to the threshing floor and placed with their tops upwards. When dry, threshing is done by bullocks and the stalks (*nár*) are separated. A disease known as *tor rans* sometimes attacks the rice crop on account of over irrigation by flood water impregnated with silt. The stalks become black and the plant gets no ear. No remedy is known. The local rice is of a poor quality. Experiments have been made with a better seed, but these have been unsuccessful and the land does not appear to be suitable for crops of a superior kind.

Manure, fal-  
lows and  
rotation.

Manure (*sarah* or *ambár*) is used in all irrigated lands, more especially in the small tracts on hill sides watered by springs (*tsakhobai*), but not in localities where the land is particularly fertile or where the amount of land is more than the supply of water and the land is consequently allowed to lie fallow for long periods. The use of manure in Hindubágh and Fort Sandeman is more common than in Kila Saifulla, and consists of the dung of sheep, goats, and cattle. Sweepings and refuse of houses are also used for

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the purpose. The land is ordinarily manured for wheat and barley and after these crops have been cut the autumn crops are occasionally sown in the same land without manure. Reference has been made already to the plants used for manuring the rice fields. Dry crop lands are cultivated every year provided there has been a rainfall. The system of fallows in irrigated lands is simple. Lands in each village are divided into a number of plots (*awáras*) which are cultivated by turns. The number of these *awáras* varies from one to eight in different parts, but the usual number is two to four. In the course of the survey of the Hindubágh and Kila Saifulla tahsils irrigated lands were classified according to their capacity for yielding crops, the best class being the *dofasli* or cropped twice in a year and the inferior, *yakfasli dahsála*, or cropped once in ten years. The area of the land cropped twice in a year was comparatively very small, being 178 (out of a total of 21,678) acres in Kila Saifulla, and 93 acres (out of 17,849) in Hindubágh. The largest areas surveyed fell under the following classes:—

|                                   | Kila Sai-<br>fulla. | Hindubágh. |
|-----------------------------------|---------------------|------------|
|                                   | Acres.              | Acres.     |
| Cropped once in four years ... .. | 3,506               | 1,097      |
| „ once „ three „ ... ..           | 3,415               | 1,805      |
| „ twice „ four „ ... ..           | 3,129               | ...        |
| „ once „ five „ ... ..            | 2,938               | 981        |
| „ twice „ „ „ ... ..              | 1,821               | ...        |
| „ „ „ three „ ... ..              | 934                 | ...        |
| „ once „ eight „ ... ..           | ...                 | 8,998      |
| „ „ „ two „ ... ..                | ...                 | 1,519      |
| „ twice „ two „ ... ..            | ...                 | 846        |

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There is no fixed system of rotation of crops. Ordinarily after wheat maize is sown if the land was manured, otherwise *mung* or *azhdan* may be cultivated. This practice is almost uniform everywhere. For the cultivation of rice, lands are generally divided into two parts one of which is sown with rice successively for three years and the other with wheat. In the fourth year the latter plot is sown with barley and then the order is reversed, that previously under rice comes under wheat and vice versa.

Out-turn. The following statement shows the results of crop experiments giving the out-turn per acre of the various crops in the different tahsils :—

|                             | Fort Sande-          | Kila Sai-        | Hindubagh.       |
|-----------------------------|----------------------|------------------|------------------|
|                             | man.                 | fulla.           |                  |
|                             | Maunds               | Maunds.          | Maunds.          |
| <i>Wheat.</i>               |                      |                  |                  |
| Irrigated and manured ...   | 12                   | 16               | 17 $\frac{2}{8}$ |
| Irrigated but unmanured ... | 8                    | 9 $\frac{1}{2}$  | 15 $\frac{3}{8}$ |
| Unirrigated ... ..          | 6 $\frac{1}{2}$      | ...              | ...              |
| <i>Barley.</i>              |                      |                  |                  |
|                             | 5 $\frac{1}{2}$ to 8 | ...              | ...              |
| <i>Juári.</i>               |                      |                  |                  |
| Irrigated and manured ...   | 9                    | 18               |                  |
| Irrigated but unmanured ... | 8 $\frac{1}{2}$      | 14               |                  |
| Unirrigated ... ..          | 8 $\frac{1}{2}$      | 9                |                  |
| <i>Maize.</i>               |                      |                  |                  |
| Irrigated and manured ...   | 9                    | ...              | 21 $\frac{1}{8}$ |
| Irrigated but unmanured ... | 8 $\frac{1}{2}$      | 15 $\frac{3}{8}$ | 18 $\frac{3}{8}$ |
| Unirrigated ... ..          | 8 $\frac{1}{2}$      | ...              | ...              |
| <i>Azhdan.</i>              |                      |                  |                  |
| Irrigated and manured ...   | ...                  | 22 $\frac{1}{8}$ | 18 $\frac{1}{8}$ |
| Irrigated but unmanured ... | ...                  | 16 $\frac{1}{8}$ | 10               |

The fruit trees indigenous to the country in pre-British days were the *sanzolai* (*Elæagnus hortensis*), apricot of a poor quality, mulberry, and inferior kinds of grapes. These were found only in a few well watered places such as the Kamchughai glen in Hindubágh. Since the occupation of the country, in 1890, attention has been paid by the local authorities to fruit and vegetable culture and Government gardens have been established at Fort Sandeman, Shínghar, and Hindubágh at the expense of local funds and serve as object-lessons to the indigenous cultivators. The fruit trees in these gardens include almonds, apricots, mulberries, peaches, quinces, pomegranates, plums, damsons, grapes, figs, apples, and pears. In 1904, 260 fruit trees were distributed among the headmen of the Lower Zhob sub-division, and the number of fruit and other trees distributed in 1905 in the Zhob District amounted to 2,180. Among the local population appreciable efforts in fruit culture have been made in the Kila Saifulla tahsíl by the two leading *sardárs*, the late S. B. Nawáb Bangul Khán and S. B. Muhammad Akbar Khán; the garden planted by the former contains about 8,000 trees of several kinds, principally apricots (*zardálu*), damsons (*alábukhára*), quinces (*bihi*), peaches (*shaftálu*), nectarines (*shalíl*), pomegranates (*anár*), apples (*séb*), almonds (*bádám*), plums (*alúcha*), mulberries (*tút*), and grapes (*angúr*). \* The last named are of several kinds viz.—*sra*, *sáhibi*, *spín kishmishi*, *haíta*, *tor*, *amíri*, *tandán*, and *kháya ghulámán*. The tribesmen have followed these examples and gardens are increasing, but there is scope for considerable improvement. The total area under gardens in the Hindubágh and Kila Saifulla tahsís in 1904-5 was 31 and 26 acres, respectively. Experiment has also been made by S. B. Bangul Khán in his garden in the cultivation of the pistachio tree (*Pistacia vera*) which is expected to yield fruit in about eight to ten years.

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\* A detailed account of viticulture is given in the Quetta-Pishá District Gazetteer, pages 108—113.

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## Melons.

In recent years there has been a considerable extension of melon cultivation and melons are now grown in villages round Fort Sandeman, near Murgba Mehtarzai, and at Hindubágh and Bábu Chína, chiefly for local consumption. In some places Kandahári *pálézwáns* who are experts in melon cultivation have been employed. The indigenous method is to sow the seed broadcast (*yargúna*), to plough and harrow the land and divide the field into beds. The system which has been introduced by the Kandaháris is called the *chari*\* or *jowaki*. The land is ploughed three or four times and trenches (*jo* or *chari*) made, a space of some 4 to 6 feet of level ground being generally left between the trenches over which the melons may trail. The seed is sown on both sides of the trenches. The melons are sown in April and May and begin to ripen in July and the crop is over by the end of September.

Kitchen vege-  
tables.

The use of kitchen vegetables is unknown to the native population. In Hindubágh the wild plants known as *bushka* (*Lepidium draba*) and *shézgi* are sometimes used as vegetables. In the Government gardens already mentioned vegetables of various kinds are grown. They include potatoes, carrots, onions, *pálak* (spinach), *bánjan* (egg plant), *kadu* (pumpkin), *méhi* (*Trigonella foenumgraecum*), cucumbers, gourds, *karéla* (bitter gourd), *múli* (radish), *shalgham* (turnips), *matar* (peas), *bhindi* (ladies' fingers), and *thúm* (garlic). Carrots are also grown by the cultivators especially in Hindubágh by the Nas Khél and Mardánzai Kákars, who export them to other parts where they are bartered for grain. Carrots known to the natives as *zardaka*, are of three varieties—red (*sra*), yellow (*zhara*), and white (*spina*). The seed is imported from Quetta. After the spring rains the land is ploughed twice and harrowed, all clods being well broken. It is then divided into small plots, which are filled with water and the seed which is mixed with earth is sprinkled

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\* For further details see pages 118-119 of the Quetta-Fishia District Gazetteer.

over the ground. On the third day the plots are again flooded and irrigation continues at intervals of three or four days till the sprouting is complete. Henceforward the plants are watered every eight or ten days. The roots mature in August but are left in the ground till September.

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Lieutenant R. A. Wahab, of the Survey of India, who visited the District in 1884, during the first Zhob expedition, described the Zhob valley as follows :—

“ It is throughout an alluvial plain, with apparently a fertile soil, and at any rate, near the river, a constant supply of water, but its advantages of soil and climate seem to be entirely thrown away on its present inhabitants, and the few square miles of well-cultivated fields near Sháh Jahán’s village and at Hindubágh only bring out in stronger contrast the utter desolation of its general aspect. There is a little cultivation under the hills on both sides of the plain, where the water of a hill-torrent can be turned to account, and near Sháh Jahán’s village and those of the principal chiefs a few square miles are irrigated by water brought from a long distance in *kárézes*, but otherwise the valley is uncultivated waste closely resembling the foot of the *Déraját*.”

Extension of  
cultivation.

In the Material Progress Report of the Zhob District for the decade ending 1901, Major Stuart H. Godfrey, Political Agent, wrote :—

“ It is difficult to form an accurate estimate of areas, as no records are available. But owing to peace and settled administration and by aid of *takávi* advances, the area of cultivation must have increased, as is the very distinct impression of officers who like myself knew Zhob in the first days of the Agency. Melons and potatoes are grown in large quantities now round Fort Sandeman, and certain headmen have commenced to plant fruit gardens.”

Exact figures are not available for the District as a whole to illustrate the extension in cultivation. In the

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two tahsils, the irrigated *maháls* of which have been surveyed, the area under crops in 1901-02 in Kila Saifulla was 8,998 and in 1904-05 10,708 acres. The figures for the same period for Hindubágh are 6,159 and 6,166 acres, respectively. Considerable increase has taken place in dry crop cultivation, more especially in Kákar Khurásán. After the boundary had been settled by Captain ( Sir Henry ) McMahon's Commission, Captain Archer, Political Agent, Zhob, visited Kákar Khurásán in 1895 and arranged for the cultivation of certain tracts of land. The chief places, he reported, where there were good prospects for cultivation, were Wasta, Walla, Mali Khél, Gulwana, Kánrokai, Késhatu, Doma, Pálézgír, Ghazlúna, Tirkha, Tirkhawar, Nukur, Girdi Jungle, Súr Jungle, and Tirkha (2) near Girdi; all of these, except Doma and Nukur, which entirely depended on rain, had springs, wells, or streams for irrigation. The majority of these lands had never been cultivated for a very long time, but a number of tribes of Upper and Central Zhob grazed over them regularly every summer, and each tribe had thus, in course of time, acquired certain more or less definite rights to particular springs and tracts of country. During his tour Captain Archer effected a distribution of the lands as under :—

Walla, Gulwana, and  $\frac{1}{2}$ th

of Wasta... .. Bátózais.

Mali Khél, Késhatu, Kán-

rokai and  $\frac{1}{4}$ th of Wasta... Mardánzais.

Doma ... .. Daulatzais.

Pálézgír ... .. Jalálzais.

Ghazlúna ... .. Alozais.

Tirkha ... .. Malezais ( Mírozais ).

Tirkhawar ... .. Mullá Nasrín, Jalálzai, who  
had been cultivating this  
land for the previous four  
years.



Nukur ... .. Akhtarzais.

Girdi Jungle Súr Jungle, and

Tirkha (2) near Girdi ... Ghorézais.

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All the tribes agreed to bring their lands under cultivation within a period of two years and also that if any of them failed to cultivate their lands within that time it would be open to Government to grant them elsewhere if desired.

The local reports show that in Fort Sandeman cultivation has extended mostly in the Mando Khél and Shírání circles especially of barley, maize, and *pálezát* (melons, etc.). Reference has already been made to the impetus which fruit cultivation has received and to the production of vegetables at and near head quarter stations.

Appendix IV contains a list of the implements used in the District. The principal are the plough, which is known as *hal* or *yivi*; the plank harrow or scraper (*ghoidal* or *khál*) with which embankments are made; and the clod crusher, or log used in place of a roller for breaking clods and smoothing the ground, known as *mála*. Among minor implements may be mentioned the *rambae* or weeding spud; the *lutmár*, a wooden mallet for crushing clods; the *dal* or wooden spade worked by two men with a rope for making small embankments; the sickle (*lor*) for reaping; four or two pronged fork (*chúrshákha* and *dowakhulgi*); the *trapae* or *drapae*, wooden winnowing spade; and the rake (*pára*) for collecting the grain and straw scattered on the threshing floor. There has been no appreciable improvement in these implements. Agricultural  
implements.

Appendix V contains a list of the principal agricultural and flockowner's terms used in the District.

The Land Improvement Loans Act XIX of 1883 and the Agriculturists' Loans Act XII of 1884 have not been applied to the Agency, but rules to regulate such advances have been promulgated under the executive orders from the Government of India, and are embodied in the Baluchistán Agricultural  
advances.

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Takávi Advance Manual, 1902. The question of the extension of these Acts to Baluchistán and the revision of the existing rules is under consideration (1905). The annual grant for the whole Agency is Rs. 60,000, of which Rs. 9,000 are allotted for the Zhob District. The Political Agent is under the existing rules (1905) authorised, within the limit of his grant, to sanction advances not exceeding Rs. 1,000 in each case, and the Revenue Commissioner up to Rs. 3,000; the sanction of the Local Government is necessary for advances in excess of this amount. The ordinary rate of interest is 1 anna in the rupee or  $6\frac{1}{4}$  per cent. per annum, but in a case in which the Political Agent is absolutely satisfied that the project is a sound one financially, and is likely to lead to an increase of revenue, which, within the term fixed for the complete repayment of the advance, will amount to not less than the whole interest ordinarily chargeable under the rules, he is at liberty to grant the advance free of interest. The advances can be granted either for works carried out by the Political Agent himself or by the agricultural population. During the years 1897-98 to 1904-05 advances amounting to Rs. 50,115 have been granted under the Land Improvement Loans Act, and Rs. 31,478 under the Agriculturists' Loans Act, the recoveries during the same period being Rs. 34,566 and Rs. 29,455, respectively. The total balance outstanding at the close of the year 1904-05 amounted to Rs. 23,236 which included Rs. 21,371 under the Land Improvement Loans Act and Rs. 1,865 under the Agriculturists' Loans Act. Details by tahsils for each year are given in table VII, Volume B. The greater part of these loans has been utilized in Hindubágh and Kila Saifulla (Rs. 67,942). The advances are ordinarily given for sinking new *kárázos*, repairing and improving old ones, digging water channels, making embankments (*bands*), and in times of drought and scarcity for the relief of distress and the purchase of seed and cattle. Repayments of advances are usually recovered by half yearly instalments. Recoveries

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are usually made on due date, and it is very rare that suspension of an instalment is applied for. Suspensions are however granted if the borrower can show good reasons for the same. There have been no cases during the ten years ending 1904 in which advances have had to be written off. In the Hindubágh and Kila Saifulla tahsils advances are, unless some special reasons exist for exemption, generally made at the usual rate of interest, viz.,  $6\frac{1}{4}$  per cent., and the *zamindárs* offer no objections to its payment. In the Fort Sandeman tahsil, however, advances have up to very recently been granted free of interest. This practice is now being stopped except in special cases.

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During the twelve years ending with 31st March, 1905, the important measures, all in the Kila Saifulla tahsil, for which *takávi* advances were granted free of interest were:— construction of a *band* across the Lohra (Zhub river) at Toiwar (Rs 4,300); re-alignment of the Kálu Kila Káréz (Rs 2,000) and improvement of the Kamki Viála Káréz (Rs 2,000).

In the Material Progress Report of the District for 1891-1901, Major Stuart H. Godfrey, Political Agent, remarked: Agricultural  
indebtedness. "There is practically no agricultural indebtedness in the Lower\* Zhub sub-division but in the Upper\* Zhub sub-division it might be estimated that about 60 per cent of the people are in debt at an average indebtedness of Rs 200. The causes are chiefly —(a) debts to Hindu shopkeepers, more especially among the higher classes and those in Government service; (b) from excessive mortality during epidemic disease and from debts incurred during bad harvests and seasons of severe drought; (c) payment of sale prices of girls (locally called *walwar*) in marriage is probably the principal cause of indebtedness in the District. A man having only sons and no daughters will be fairly on the verge of ruin; (d) adultery, a common crime and which usually ends

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\* Lower Zhub and Upper Zhub included then also the Músa Khél and Bori tahsils, respectively, which are both now parts of the Loralai District.

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in payment of a heavy fine to injured parties; and (e) hospitality carried to extreme and absurd lengths especially among the poorer members of the *sardárs* and more important clans." The recent years of drought and scarcity have, it is feared, increased the general indebtedness of the people and more especially in Central Zhob, where for three years there were practically no *khushkába* crops (1906).

As a rule the cultivators do not go for loans to the Hindu bania but finance each other and the interest is not charged in a direct form. For religious reasons the orthodox will not pay interest in cash, but have no scruple about paying its equivalent in an indirect form. In Fort Sandeman, however, the case is different with the Haripáls and Shíránis, among whom a unique system called *rivi* is in vogue, whereby interest is charged in a direct form on cash loans taken by tribesmen proceeding to Afghánistán in April for importing asafetida. On their return, which takes place in October or November, the loan is repaid with interest at 4 annas per rupee, but if repayment is delayed till their return from India where the asafetida is sold, the rate of interest is 8 annas on a rupee, the two forms of interest are known as *pínza páwízi* and *shapazh páwízi* respectively.\* Another method known as *thán* is also current in the Fort Sandeman tahsil both among the Haripáls and Shíránis as well as other tribes. Under this, the lender sells nominally a piece or *thán* of cloth at a rate higher than that prevalent in the market, and advances the market price to the borrower who on return from Afghánistán has to pay the higher rate agreed upon. The well-to-do among other tribes in this tahsil keep a supply of coarse cloth for sale to their poorer brethren at a fictitious value which is agreed upon and paid at time of harvest. The system most prevalent among the cultivators in all parts of the District is that known as *salam* under which advances

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\* These terms literally mean 5 *paolis* or 6 *paolis* (*paoli* is a 4 anna piece) that is to say either Rs. 1.4 or Rs. 1.8 are to be paid for a rupee borrowed.

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of grain are made and the loan is repaid at a fixed rate at the next harvest, this rate being generally much higher than that current at the time of loan. Thus in November and December when the stock of grain is diminished if a man obtains a loan of 27 *kásas* when wheat is selling at 3 *kásas* to a rupee, he will agree to repay at the rate of 5 *kásas* to a rupee; and if the loan is taken later, in February and March when the stock of grain is still lower, and if the current rate be 3 *kásas* to a rupee, the actual calculation will be made at 2 *kásas* to a rupee, the payment to be made in cash at harvest or in grain at the rate then prevailing. In Hindubágh the Hindu shopkeepers sometimes make advances of grain on the *salam* system while some levy interest at one anna per rupee per month. The transactions among cultivators are negotiated verbally, but invariably in the presence of two or three witnesses. The village *mullá* may sometimes be called upon to write a short note of an agreement without any other formality. Special loans are sometimes granted by Government to help the leading men in financial difficulties and to enable them to purchase land. The rate of interest and instalments by which loans are repayable are determined on the merits of each case. Such loans were granted in 1898 to S. B. Bangul Khán (Rs. 4,000); in 1899 to S. B. Muhammad Akbar Khán (Rs. 6,000); and in 1901 to Irán Khán, Sargara (Rs. 2,000).

In his report on the Material Progress of the District referred to above the Political Agent remarked that owing to there being no records of the transactions of sales and mortgages it was difficult to supply any accurate information, and added that "such transactions do not appear common and are usually arranged verbally amongst the people of the country and settled by the *sardárs* or village heads." Mortgages (*adáb*), known to the Shíránis and Mando Khéls of Fort Sandeman as *oriyat*, are of a simple character. The usual conditions are for the mortgagee to advance the loan, enter on possession of land, enjoy the

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produce and pay the revenue till redemption, which can be claimed after the crop sown has been raised. The mortgage money is about half the value of the land. In Kila Saifulla in case of unirrigated land the mortgage is generally without possession, and the mortgagee receives a share of the produce varying from one-third to one-half in proportion to the amount of loan as interest. As already mentioned the transactions are carried on between the people themselves and very few are therefore registered.

In the course of the survey of Kila Saifulla tahsil it was ascertained that in 1902, 1,994 acres or 9·2 per cent. of the irrigable land were mortgaged for a sum of Rs. 28,207, while in Hindubagh the mortgages covered 975 acres or 5·4 per cent. of the irrigable area, the liability amounting to Rs. 57,701. In the latter tahsil the sales amounted to 439 acres valued at Rs. 34,752. As already mentioned very few of such transactions are registered.

The following statement gives the mortgages and sales which were registered in the District during the years 1903-04 and 1904-05:—

| Details                                                       | Tahsil.                             | MORTGAGES.   |                 | SALES.       |                 |
|---------------------------------------------------------------|-------------------------------------|--------------|-----------------|--------------|-----------------|
|                                                               |                                     | Amount.      | District Total. | Amount.      | District Total. |
|                                                               |                                     | Rs.          | Rs.             | Rs.          | Rs.             |
| Mortgaged or sold by cultivators to Hindus ...                | Fort Sandeman ...                   | 1,891        | 1,891           | ...          | ...             |
| Mortgaged or sold among cultivators themselves.               | { Hindubagh ...<br>{ Fort Sandeman. | 500<br>2,000 | ...<br>2,500    | 420<br>6,740 | ...<br>7,160    |
| Mortgaged or sold by Hindus to cultivators ...                | Fort Sandeman ...                   | ...          | ...             | 500          | 500             |
| Mortgaged or sold by cultivators and Hindus to Government ... | Fort Sandeman ...                   | ...          | ...             | 500          | 500             |
| Mortgaged or sold among Hindus themselves ...                 | Fort Sandeman ...                   | 3,463        | 3,162           | 4,795        | 4,795           |

## DOMESTIC ANIMALS.

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Horses, camels, bullocks, donkeys, sheep, and goats are the principal domestic animals. Buffaloes are possessed only by the Hindustáni Gowálas at Fort Sandeman. Fowls were few in pre-British days, but they are now reared and fetch 3 to 5 annas a piece according to size. Eggs cost from 1 to 3 annas a dozen. Nearly every household possesses a shaggy sheep dog for purposes of protection.

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Domestic  
animals.

The following table shows the estimated number of camels, donkeys, cattle, and sheep and goats in each tahsíl in 1904 :—

| Tahsíl.               | Camels.      | Donkeys.     | Cows and Bullocks. | Sheep and Goats. | Buf-faloes. |
|-----------------------|--------------|--------------|--------------------|------------------|-------------|
| <b>District Total</b> | <b>3,656</b> | <b>1,873</b> | <b>9,036</b>       | <b>212,874</b>   | <b>42</b>   |
| Fort Sandeman ...     | 539          | 1,072        | 3,097              | 112,499          | 42          |
| Kila Saifulla ...     | 2,337        | 423          | 631                | 60,615           | ...         |
| Hindubágh ...         | 280          | 378          | 308                | 39,760           | ...         |

Nomads, principally Ghilzais, belonging to the Násart Sulaimán Khél, Shíwári, Kharoti and Taraki sections visit the District during the winter, and the number of animals in their possession was estimated in 1904 to be as under :—

| Tahsíl.                | Camels.       | Donkeys.     | Cows and Bullocks. | Sheep and Goats. |
|------------------------|---------------|--------------|--------------------|------------------|
| <b>District Total.</b> | <b>12,155</b> | <b>8,553</b> | <b>1,568</b>       | <b>69,428</b>    |
| Fort Sandeman ...      | 3,334         | 1,402        | 1,528              | 41,980           |
| Kila Saifulla ...      | 1,881         | 97           | 25                 | 2,448            |
| Hindubágh ...          | 6,940         | 7,054        | 15                 | 25,000           |

Information about the different breeds of horses in Baluchistán, their rearing and training and the system of breeding adopted by the Army Remount Department will be found in a monograph published in 1905 under the authority of the Revenue Commissioner in Baluchistán.\*

\* *Horses, Horse Breeding and Horse Management in Baluchistán*, by R. Hughes-Buller, I. C. S., with an Appendix by Major H. M. Patterson, Army Remount Department.

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Owing to the general mountainous nature of the country, Zhob is not a horse breeding district, but the number of animals are gradually increasing, and in the Kila Saifulla tahsil there are a fair number of ponies of a better stamp. In pre-British days the indigenous breeds known as *spérkai* and *pasta* were preferred, but are not now bred. No Government stallions\* are kept in the District.

## Camels.

The camel is the common transport animal of the District, and, as there are no railways, is largely used for all transport purposes. The majority of the animals kept by the permanent inhabitants are females used for breeding purposes. The breeders are chiefly the Ali Khél, Daulatzai, Bátozai, Ghorézai, Mírzai, and Jalálzai sections of Sanzar Khél Kákars in Kila Saifulla; the Mírzai Kákars and Lawánas in Hindubágh; and the Mando Khéls in Fort Sandeman; the number of indigenous camels in the two latter tahsils is, however, comparatively insignificant. Three breeds are locally known from their colour—*sra* (brownish red); *zhara* (light brown); and *kharah* (dark brown). The transport trade on the Harnai-Fort Sandeman and Fort Sandeman-Déra Ismáil Khán roads is in the hands of aliens, chiefly Ghilzai Powindahs, Jats of Déra Ismáil Khán and Lángavs of Kalát, the last named working only between Harnai and Fort Sandeman. The greater part of the non-indigenous camels in the District belong to Ghilzai Powindahs, principally Násars, Sulaimán Khéls, Mián Khéls or Mia Khéls Malla Khéls, Kha rotis, Tarakis, Shinwáris, and Dotánis. The Násars are the largest camel owners of all. These Ghilzai camels, as a rule, frequent the District only from November to March every year. A certain number are met with during the rest of the year also, though few are to be found in the hot months of June, July, and August.

## Cattle.

Cattle are represented by a hardy breed indigenous to the country and generally black or red in colour. These are

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\* The question of obtaining one for the Kila Saifulla tahsil is under consideration.



small in size and the cows are poor milkers. Cattle for ploughing purposes are often imported from Tarnak and Arghasán in Afghánistán and also from Duki and Músa Khél in the Loralai District. Ordinarily cattle only are used for ploughing.

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The donkey is chiefly used for transport. Four indigenous breeds are recognised—*shingári* and *spérkai* found in Fort Sandeman and *jatai* and *maidáni* in Hindubágh. The first named is the best, and an animal fetches from Rs. 30 to Rs. 40; it is generally white in colour. The others are generally black or brown in colour and of smaller size, the *jatai* and *maidáni* fetching from Rs. 8 to Rs. 15, and the *spérkai*, an inferior breed, from Rs. 6 to Rs. 12. The principal breeders are the Sanatias in Hindubágh, the Jalálzais and Mírzais in Kila Saifulla, and the Haripáls and Kibzais in Fort Sandeman.

Donkeys.

The indigenous breed of sheep are of the thick tailed, hornless variety, generally white in colour and of low build. The principal breed is the *spínkai*, known to the Mando Khéls as *torghwazhi*. Outside the District the breed is known as *zhobi*. The sub-varieties are distinguished from the colours of the muzzle, ears and feet, the body being generally white. They include *torghári* (black neck); *torghwazhi* (black ears); *torkhuli* (black muzzle); *sraghwazhi* (brownish red ears); *spola* (spotted body and feet); *tor langae* (black feet); and *skhara* known to the Mando Khéls as *charga* with a brownish red body and white forehead. Two other breeds which are peculiar to the Mando Khéls and Shíránis of Fort Sandeman respectively are the *bori* and *sarboli*. The *bori* is a large sheep, brownish in colour, and a very good milker. The *sarboli* is white in colour with small ears and long hanging fat tail.

Sheep  
and goats.

The goats are generally black with longish horns. There are no special varieties and the different kinds are distinguished by their colour, *tora* (black), *spína* (white), *khara* (dark brown), and *sra* (brownish red). The principal flockowners

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CULTURE.

are the Adínzais and Mírzais in Hindubágh ; the Ghorézais, Bátozais, Ismáílzais, and Jalálzais in Kila Saifulla ; and the Sulaimánzai Mando Khéls, Huraszai Abdullazais, Kibzais and Mardánzais in Fort Sandeman.

## Wool.

Sheep are shorn twice during the year, in the spring and autumn. The Mando Khéls and Mardánzais of Fort Sandeman, who stay for a longer period with their flocks in the Khurásán hills, shear their flocks only once a year during the spring. Goats and camels are shorn only once during the year in the spring. A goat produces from 6 to 12 ounces of wool each year, a sheep 2 to 3 pounds, and a camel from 1 to 5 pounds. Goat hair (*wuzgháni*) is used by nomads for making ropes, sacks, and the *kizhdi* flaps (*tágae*) ; camel wool is employed for making sacks, and sheep wool (*warai*) for making felts (*krásta*), felt cloaks (*kosae*), and rugs (*kambala*). The selling price of goat hair is about Rs. 10 a maund, and that of camel's wool is about Rs. 6 to Rs. 8 per maund. The price of sheep's wool depends on the Karáchi market, to which it is exported, and exhibits considerable variations, being sometimes as low as Rs. 10 and sometimes as high as Rs. 22 per maund. The wool is very dirty, the reason being that the sheep, the wool of which is intended for export, are not washed before being shorn, while those of which the wool is required for home use are washed before shearing. The wool is usually purchased through local middlemen.

Average  
value of each  
kind of  
animal.

Male camels vary in price from Rs. 50 to Rs. 80, and females from Rs. 50 to Rs. 60 ; ordinary small ponies can be purchased from Rs. 50 to Rs. 100 ; horses fetch from Rs. 100 upwards, according to quality. The price of a pair of bullocks varies from Rs. 60 to Rs. 80 and a cow can be bought for about Rs. 30. Sheep fetch from Rs. 4 to Rs. 6 ; lambs about Rs. 2 ; goats Rs. 3 to Rs. 5 ; kids about Rs. 1-8 ; and donkeys from Rs. 6 to Rs. 40.

Pasture  
grounds and  
grazing.

In the greater part of the District the area of pasturage is practically unlimited, and in normal years the hill sides

and valleys are covered with grass and with numerous small cruciferous and leguminous plants which afford excellent grazing for sheep and goats. Good camel grazing is obtainable in most places. In the irrigated tracts *bhúsa*, the straw of *mung*, green-wheat and barley (*khíd* or *khasíl*) and green stalks of maize and *juári* (*karah*) are also used as fodder for horses and cattle. A striking feature of the District is the annual migration of the greater portion of the population between north and south in search of pasture. The Kákar Khurásán hills north of the Zhob valley form the great grazing ground of the District. The tide of migration commences in the beginning of May, when the spring in the valley has drawn to a close, and recedes after the summer rains in August to find fresh pasture in the valley. On their return from Khurásán some of the Sanzar Khéls visit Chinjan and Ghurmi in the Bori tahsíl to pasture their flocks returning to their permanent homes in November. The Sanatias of Kánr Mehtarzai enter the Pishin valley during the winter and graze their flocks in Rod Surkháb and along the skirts of the Takatu hill from December to March. There are no regularly fixed pasture grounds, but some of the best tracts, which are covered with grasses during the spring and after the summer rains, are Marzaghán in Hindubágh; Sháh Sághra, Shanglúna, Kharakhám, Gazli and Khaisor in Kila Saifulla; and Chukhan, Sri Toi, Spéra Khwára, Sághra including Ghásh, and Dabin Fort Sandeman. In Kák, or Khurásán pasture is abundant everywhere, but flocks remain in the neighbourhood of localities where water is available, the principal of these being Taghratu (within the boundary, of the Quetta-Pishin District), Torhau dúna, Ghabargae, Kajír, Loeband, Gar smalán and Bahlol, Kundar, Wáli Murgha, Pálé zgír, Dom, Gbazlúna, Tirkhawar, Topán, Khaddar Taáh, Kamar-ud-dín Káréz, Nukur, Sra Tsáhán, Wucha Ghabarga, Barkai Palanah, Kara Murgha, Kandíl, Pinakai, Késhatu, Turwah, Loidagar, Wasta, Súr zangal, and Zari Dagar. The principal grasses are known as *sába*, *kumála*, *pa*,

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*barwazi*, *sargara*, *wizha*, *washla*, *sarghasi barrav*, and *shakrae*, the first-named being esteemed the best. The bushes used as fodder are the *tirkha*, *zamai*, *khamazúrae*, *raghbolae*, *khokhai*, *stagh*, and *mákhai*. Of the grasses, the *pa*, *barwazi*, and *barrav*, and among the bushes, the *khamazúrae*, are peculiar to the valley. In Kákar Khurásán the principal fodder is the *tirkha* among bushes and *washla*, *kumála*, *shakrae*, *sába*, and *sargara* among grasses. Tamarisk (*gaz*) found in the Zhob river, and in the Kandíl and Rod Fakírzai streams, forms good fodder for camels.

There is no system of reservation except in the Fort Sandeman tahsíl where, after the summer rains in July and August, it is a common practice to protect uncultivated tracts in the vicinity of villages. These tracts when reserved are known as *pargor*. The closing season extends up to end of October, and early in November the villagers with common consent open the *pargor* to grazing. Outsiders are prohibited from using these tracts and trespassers are not allowed to graze with impunity. Cases of disputes are not uncommon.

Cattle dis-  
eases.

No scientific enquiries into prevailing cattle diseases have ever been made. Mention may, however, be made of a few of the more common diseases known to the cultivators, their characteristics, and the local remedies. In most cases the branding iron is resorted to and the *mullá's* charm is regarded as the best specific. Segregation is resorted to in infectious diseases. The most dangerous diseases are considered to be *warkhárae* and *dukh* in sheep; *wuzmár* and *pún* in goats; *drolbae* and *kuráb* in cattle, and *surpa* in camels. *Warkhárae* (dyspepsia) prevails among flocks in the spring by over-feeding on fresh pasturage. A free discharge from the bowels is followed by constipation. The usual remedy is to starve the animal for twenty-four hours and then administer *gambéla* (*Mallotus philippinensis*) in the form of pills. In *dukh*, which also attacks goats, blood is discharged with the urine. The disease is fatal

and no remedy is known except the *mullá's* charm. The symptoms of *wuzmár* are discharges of fluid from the nose, loss of appetite, and eruptions on the lungs. The animal moans painfully. This disease causes great mortality and is very infectious. "A hundred goats," says the local proverb, "are one meal for the *wuzmár*." A kind of inoculation is practised as a remedy for the disease, by taking a portion of the lung of a diseased goat, mixing it with equal quantities of powdered cloves, pepper, turmeric, aniseed, ginger, and *khusáwza*, and inserting the mixture in a slit made in the right ear of each of the remainder of the flock. It is possibly pleuro-pneumonia. In *pún* also called *paman* or itch, which is common to goats and camels, the animal gets eruptions on the body followed by loss of hair. The usual remedy is to rub the body with *zarana*, an extract of the sap of the edible pine or *pinus excelsa* (*nashtar*) mixed with *ghí*, the preparation being also administered internally. Of cattle diseases, *drolbae*, the symptoms of which are similar to those of *wuzmár* generally proves fatal within fifteen days. Animals that survive this period are made to inhale the smoke of *gangu* (*Orthonnopsis intermedia*). In *kuráb* (foot rot) eruptions appear on the feet followed by loss of the hoof. The animal is muzzled and made to stand in mud. Fomentation with heated bricks and the pouring of cold water on the affected parts is another remedy. *Surpa* is peculiar to camels, the symptoms being a cough and discharge of fluid from eyes and nose. It is possibly acute bronchitis. No remedy is known except the *mullá's* charm, the disease proving generally fatal.

Other diseases among the sheep are *shinghulánzi* (mammitis), which is an ulcer in the udder making it hard, the remedy being to plaster the udder with earth taken from ant hills; *lawa* or flow of fluid from the mouth; *garg* (malignant sore throat); *maknrái* or the presence of worms in the intestines, the remedy in the two latter diseases being the

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*gambéla* pills already referred to; *zazhae* which is characterised by eruptions on the tail, mouth, and elbow, the only remedy being segregation; *tak* or *súr ranz* which is staggers. Goats and cattle also suffer from *tak*. Another disease from which cattle and all ruminant animals suffer is *parsúlal lae* which is a form of colic, the belly swelling suddenly. No efficacious remedy is known. The animal is made to walk, bitter oil is administered and sometimes, especially in the case of cattle, the belly is pierced through with a sharp knife. Camels suffer from *sorpára* or a boil in the mouth; *raghbandi* or the swelling of the front part of the body; and *marghak* (tetanus in fatal cases) in which the neck is distorted and the animal writhes; no remedy is known. Among the diseases from which horses and donkeys commonly suffer may be mentioned *lorbala* and *band* (colic), *saghao* (catarrh), and *magháó* (laryngitis).

Government  
irrigation  
works.

In 1901 Mr. C. B. Mellor of the Punjab Irrigation Department, visited the Zhob valley in order to report on irrigation projects from Hindubágh to Fort Sandeman on the bases of schemes suggested by Mr. Hoernle, Executive Engineer, in 1891. The detailed report \* prepared by Mr. Mellor was printed under the authority of the Local Government. Mr. Mellor, after inspection of the whole valley, came to the conclusion that *kárézes* must be depended on at present for any increase of cultivation; that it was not worth while trying to improve the discharge of springs; that the flood supply of the Zhob river itself could not be made use of, and the nature of the banks, the width across, the height of the banks and the nature of the bed rendered works to utilize the small permanent supply out of the question, except in the lower reach from Bádenzai downwards, where, however, the *zamíndárs* already made good use of the water. He reported that the only tributaries to the Zhob river which have a permanent

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\*Notes on Certain Irrigation Schemes in the Zhob Valley, by C. B. Mellor, Esq., Punjab Irrigation Department, 1901.

flow of water are the Kamchughae, Kazha, and Sawara streams in none of which is the supply sufficient to justify any large expenditure. He was of opinion that the most promising sites for works to utilize flood water are—Kazha, Tiri Tangi, and Toiwar, but sufficiently accurate information on which to base projects was not obtainable from the local inhabitants. Mr. Mellor suggested several sites for *kárézes*.

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A scheme to dam the Toiwar was suggested by Major Showers, Political Agent, in 1899, and the Military Works Department prepared two alternative schemes amounting to Rs. 17,000 and Rs. 20,000 respectively. A sum of Rs. 9,000 was allotted and the work was begun as a famine relief measure, but after a preliminary expenditure of Rs. 2,000 it was abandoned, as the people for whose benefit it was started did not seem eager to work. In 1901 Mr. Mellor visited the locality, and was of opinion that the scheme could not be completed under thirty to thirty-five thousand rupees. From enquiry on the spot, he came to the conclusion that the water supply for the reservoirs was ample, but that the quality of the water was doubtful. He found that the subsoil in the neighbourhood of the proposed reservoirs was impregnated with salt, and that there were traces of salt on the surface all over the country. The flood water also came down laden with silt and it was some time before the water cleared sufficiently to make it worth taking. Mr. Mellor finally came to the conclusion that "as the flood water of the Toi river appears to carry a great quantity of silt and as the presence of salt is suspected, in my opinion it would be bad policy to spend money on either reservoirs or tanks without further reliable knowledge." Since this report no further action seems to have been taken ( 1905 ).

Toiwar  
irrigation  
scheme.

The sources of supply are shown in detail in table IV, Volume B, and include 26 streams, 437 springs, and 123 *kárézes* (1905). Of the total amount of land under

Sources of  
irrigation.

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cultivation in 1904-05 the area under permanent irrigation was represented by 95 per cent. in Hindubágh, excluding the Khurásán circle; 99 per cent. in Kila Saifulla, excluding the *khushkába* area which had not been brought under survey, and 87 per cent. in Fort Sandeman.

## Streams.

Out of 26 streams, 5 are in Hindubágh, 10 in Kila Saifulla, and 11 in Fort Sandeman. The total area under permanent irrigation from streams in 1904-05 was 9,259 acres in Hindubágh, and 671 acres in Kila Saifulla. The principal among these streams include the Zhob river, Siliáza, Viála, Sawara, Khaisára and Mazghár in the Fort Sandeman tahsíl; Rod-i-Jogízai which is known lower down as the Toiwar in Kila Saifulla; and Kamchughae, Rod-Fakírzai and Zhara-ghézh in Hindubágh. The water of the streams is raised by means of dams thrown across the bed and the water is led in open channels to the land. Some of the channels exhibit considerable ingenuity of construction, and such is the case more especially in the Kamchughae glen where water has been raised from the bed of the stream to great heights to the terraced fields. The dams known locally as *wand* are constructed jointly by the cultivators, labour being supplied in proportion to shares in the water. They are only of a temporary nature, and are a species of breakwater made by driving piles into the river bed and filling up spaces with mud, bushes, and branches of trees.

The Zhob  
river.

The supply of water appears in the Zhob at about 45 miles from its source, but owing to its high banks it is not used for agriculture till it passes by the Samakhwal hillock, where the first dam is constructed to take off water for the Bádenzai lands. Lower down similar *wands* are made by the villages of Malawar, Jhalár. Déra, Darga-Mandezai, Atál, Sulaimánzai, Akozai, Brunj, Takarae, Khajjakzai, Narezai, Khátol Kot, Sáfi Kot, Mir Ali Khél, Talkhánkot and Mughal Kot, all in the Fort Sandeman tahsíl.



Dry crop cultivation both by rain and flood water is known by a common term, *wuchobgi*, as distinguished from permanent irrigation (*zindae*). Purely flood irrigation known to the revenue officials as *sailaba* is inconsiderable. Rain water in the numerous mountain torrents (*lah*, *lahar* or *shela*) is taken off by channels to the embanked fields (*land*) which are already prepared for the purpose, the embankments being known as *kul*, and the distribution channels, as *bah*. The lands higher up the stream have the prior right to irrigation, the custom being known as *sarwarkh*. Reference has been made above to the difficulties of utilizing the flood water of the Zhob river for purposes of irrigation. There are no very large dams in Zhob such as those found in the lowland parts of Baluchistan, but mention may be made of an old dam called Band-i-Dawi at Kuriawasta in the Khurasan plateau. This is said to have been constructed by the Dawi tribe in the time of Nadir Shah and was meant to irrigate a large tract of land about 7 or 8 miles long, and a quarter mile broad stretching as far as Karez Kamar-ud-din. The dam which is about 500 feet long, 4 or 5 feet broad and 12 feet high is, however, in disuse, the water being strongly impregnated with salt which in winter when the water is dry forms a deposit some 2 feet thick on the bottom of the lake formed by the dam.

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CULTURE.Flood  
irrigation.

Band-i-Dawi.

Of the 437 springs in the District, 279 are in Hindubagh, 106 in Fort Sandeman, and 52 in Kila Saifulla. The area irrigable by springs in 1904-05 was 2,755 acres in the Hindubagh tahsil and 948 acres in Kila Saifulla. In the case of the larger springs the water is led to the land through channels (*viála*), but most of the springs are small and the water has to be stored in a reservoir before it is turned on to the land. This is especially the case in the small hill springs known as *tsakhobae*.

Springs.

Out of the 123 *kárézes* at present (1905) found in the District, 71 are in Hindubagh and 52 in Kila Saifulla; the area irrigable by them in 1904-05 amounted to 5,887 and

*Kárézes*.

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CULTURE.

19,915 acres, respectively. The *káréz* is a very ancient method of artificial irrigation indigenous to the country, and there are ruins of old *kárézes* in the District which are ascribed to the Mughals.

As a source of irrigation the *káréz* is so important that the following account of it by Mr. R. D. Oldham of the Geological Survey of India, may be quoted *in extenso*.\* “As the theory of the *káréz* is a matter on which much misconception is prevalent, it will be well to treat of it briefly. The ordinary explanation is that an ‘underground spring’ having been discovered, a series of shafts connected by tunnels is made, by which the water is brought out to the surface. This idea of an underground spring is extremely prevalent and owes its origin to the description of the natives, who have frequently told me that the water entered their *kárézes* from springs. I have scrambled through the underground passages of some of these *kárézes* to investigate the matter and have found, as might be expected, that the description is a natural but misleading one. In a few cases the *káréz* does appear to derive its supply from what may, without great impropriety, be called an underground spring. Such are the *kárézes* between Kuchlák and Baléli which are driven through impervious Siwálik clays up to the foot of a limestone ridge; it is not from the Siwálik clays that they could derive any supply of water, so it is probable that there are here springs issuing from the solid rock. A still more striking instance is a short *káréz* at Kiráni driven, not into either of the fans which lie to the north and south of the village, but towards the hill where there is no stream valley of any size; yet this is not only the shortest but one of the most abundant *kárézes* I have seen; here, too, it seems probable that the water is supplied by a spring issuing from a solid rock. Such cases are, however, very exceptional, and, as a rule, the explanation, both of the real facts and of the origin of

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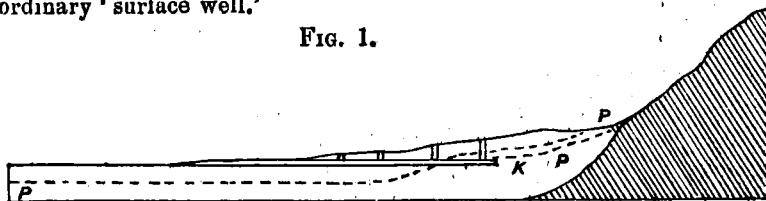
\* *Records of the Geological Survey of India*, Vol. XXV, Part I, 1892.

the misconception regarding the action of the *kárézes* is very different.

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“As the *kárézes* are never lined in any way,\* it is impossible to drive them through incoherent material charged with water; it would moreover be unnecessary to do so, as, if an incoherent bed of sand or gravel charged with water were once struck, the supply would amply satisfy the desires of the *káréz* diggers. The *kárézes*, then, after they enter ground charged with water, can only be driven through stuff which is rendered coherent by a greater or less admixture of cementing material. But this cementing material not only renders the ground firm enough to form the sides and roof of the tunnel, but lessens the permeability of the ground, and, what we are more concerned with, makes it irregularly permeable. When the *káréz* is driven through such a deposit, the water will first of all drain away at those spots, where it is most permeable, very probably washing out the fine-grained matrix and forming a small channel penetrating to greater or less distance from the sides of the tunnel. Into this channel water will percolate, and, instead of oozing from the sides, enter the *káréz* principally at certain defined spots, giving rise to what are called springs. The origin of the commonly held idea is thus natural and easily explained, but to call these ‘underground springs’ is a misnomer and as misleading as it would be to apply the same name to an ordinary ‘surface well.’

FIG. 1.



\* This statement is incorrect.—ED.

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“Having stated what is not, it is now necessary to describe what is, the correct explanation of a *káréz*. In Fig. 1, a diagrammatic section of one of the gravel slopes is represented, the dotted line P. P. represents the limit of permanent saturation, that is the limit below which the gravels are always charged with water even in the driest season. Such a limit exists everywhere, but the form of its contour depends on a variety of conditions, such as the rainfall, discharge of streams at the head of the fan, permeability of the gravels, etc., which need not here be considered in detail. Now, if the *káréz* K. K. is driven into this slope, that portion of it which lies below the line P. P. will drain the sub-soil of its water and discharge this at the outlet.

“It will be seen from this that in its nature and mode of action the *káréz* is only a sub-soil drain, in both cases the object is to bring water, which lies underground, to the surface, the only difference being that in the one case it is desired to obtain the use, and in the other to get rid, of the water.

“From the nature of the case these *kárézes* are affected by the rainfall in a marked manner — a single dry season, and, still more, a succession of years of deficient rainfall, causes a diminution in the discharge of the *káréz*. Last year (1890), the falling off of water supply was very widespread, and, so far as the diminished discharge was only due to the dryness of the season, was not altogether an unmixed evil, for it led to an energetic cleaning out and in some cases lengthening of the *káréz* which will improve its ultimate capacity. In a new *káréz*, however, the failure may be due to another cause, which is more serious, as it permanently affects the supply of water, and may make this fall so low as to lead to the abandonment of the *káréz*.

“When the *káréz* K. K. in Fig. 1, is first made, water will flow freely into it from the surrounding gravels in all

that portion which lies within the original limit of permanent saturation. But, after it is completed, a new outlet is provided for the sub-soil water, the limit of permanent saturation will adapt itself to the new conditions and ultimately settle down with a profile which may be represented by the line P. P. P. The subsequent history of the *káréz* will now depend on the relative importance of the causes which led to the sub-soil water originally maintaining its level along P. P. P. If the gravels were tolerably permeable and a considerable supply of water was constantly percolating through them, the *káréz* will settle down to a fair or abundant discharge. If, on the other hand, the amount of water percolating was very small and the level of permanent saturation kept up by the impermeability of the gravels, the ultimate condition of the *káréz* will be one of very small discharge.

“I do not know to what extent this cause of failing supply of water has acted, or is acting, but there can be no doubt that, except in the case of old-established *kárézés*, it must, to a greater or less extent, be at work. I made many attempts to collect information which would bear on this point, but was baffled by ignorance, reluctance to impart the information, or an inability, real or pretended, to understand the points regarding which information was desired. I was unable even to arrive at a trustworthy conclusion as to whether the reputed diminution of supply was as common, or as extensive as was complained of, and this, when we consider how many reasons the proprietors have for complaining of a failure of water supply and the absence of any inducement to acknowledge an increased discharge, is not to be wondered at.

“As might be expected in a country where water is so valuable and apparently so mysteriously capricious in its occurrence, a class of men has arisen which pretends to a special knowledge of the underground distribution of water and to them the planning of new *kárézés* appears to be

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principally entrusted. I have not met any of these men, but so far as I can gather they seem in some cases to possess a certain amount of knowledge partly inherited, partly the result of observation, of the subject they profess. This is doubtless mixed up with a good deal of superstition but as their directions are received with the same implicit belief as their rulers grant to the dictum of any self-styled 'expert,' the shaft, sunk on the spot indicated, is carried down till it reaches water, whereby the reality of his knowledge is proved. Meanwhile he takes care to conceal the knowledge, if he possesses it, that there was no special virtue in the spot selected, and that there are many other places where a shaft would be equally certain to strike water, if given the same chance. Should water not be found, his employer is probably informed—for there is a close resemblance between the various species of the genus expert—that he did not go deep enough or that though water was not found just there 'the indications are very favourable,' he is recommended to try some other place near by, and, if his patience or capital be exhausted before water is obtained, the expert, following the example of his kind, takes himself off to another country where his ignorance has not been exposed, there to find that ready credence which mankind is prone to yield to a plausible assertion of knowledge and, with better luck, repair his damaged reputation.

"The amount of labour spent on some of these *kārāzes* and the depth of their numerous shafts, is astounding; they are frequently miles in length, and the shafts near their heads are said to be in some cases 150 feet deep. This is doubtless an extreme case, but, when examining the Quetta plain, I found that in many cases the shafts at the head of those which drain from the hills east of the valley, could not be plumbed with the 70-foot line I carried with me. These must have taken many years and cost large sums to excavate, but it is probable that the whole was not made at once, and that they were gradually lengthened at their upper ends

where they are deepest out of the profits derived from the water which the original shorter channel yielded."

The local experts in *kárez* digging are the trans-border Ghilzai Afgháns who come to the district in winter. They prefer this season owing to the severity of the climate in their own country, and the convenience of working underground in winter. Among the indigenous population some of the Morézais and Mehtarzais of Hindubágh and Mírzais of Kila Saifulla have also learnt the art of *kárez* digging. The *kárez* diggers generally work in parties of four, each of which is technically known as a *charkh*. The name is derived from the "windlass" which forms the most important part of their equipment. The work is done either by contract for a lump sum, or on payment by actual measurement, and, while they are employed, the workmen are generally provided with food, tools, loin cloths, and lights by their employer. The tool chiefly used is a short pickaxe (*kulang*), which can be used by a man in a kneeling or crouching attitude. Details of the prevailing rates for *kárez* work will be found in the section on Wages.

The excavation of a *kárez* is an expensive undertaking, and it is, therefore, generally constructed by joint capital and owned by several co-sharers. If a capitalist gets a *kárez* made to irrigate land belonging to another person, the water and land are, as a rule, divided equally between the capitalist (*khat kush*) and the landlord.

In selecting a site for a *kárez* the excavators are guided solely by experience, and have no scientific knowledge. Professional water-finders are known in the Ghilzai country, but do not visit this District. Generally a site is chosen along the banks of a hill torrent, or in one of the inosculating fans situated where a hill torrent debouches from the mountains into the valley. Note is also taken of the appearance of moisture after rain, and of the presence of moisture-loving shrubs and grasses. The next step is to dig a trial well (*gumána*) and if this proves successful, other wells

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are dug and connected by tunnels (*lambár*) until the water reaches the surface. If the ground is soft, the wells and channels are lined with stones (*sangchín*). Any proposals to sink a new *káréz* near to an existing one is regarded with great jealousy. The minimum distance to be left in such cases varies, but it is generally from 100 to 200 yards in Hindubágh and 40 yards in Kila Saifulla. According to expert opinion the distance must be 1,000 yards.

The expense of digging a *káréz* is usually from Rs. 4,000 to Rs. 10,000. The Government has encouraged the construction of such works by granting *takávi* advances, and by exempting such new sources of irrigation from payment of revenue for a term of years. The principal *kárézes* in the District are Kam *Káréz* (330 acres) and *Káréz-Kán Mehtarzai* (268 acres) in Hindubágh and the following in Kila Saifulla:—*Tárwál* (268 acres), *Bahádurwál* (237 acres) and *Bahrwál* (229 acres).

No scientific enquiries with the object of ascertaining the utility of machinery for *káréz* excavation have yet been made. A subject, which will probably require attention at no distant date, is the diminution of the area commanded by *kárézes*, owing to the lowering of the water level by constant cleaning. This is especially the case in Kila Saifulla.

Maintenance  
of *Kárézes* and  
water chan-  
nels.

The *miráb*, where such a village official exists, and in other places the headman, makes the necessary arrangements for the repair of a *káréz*. If the work to be done is heavy, a *káréz kash* is called in and asked to give a rough estimate of the cost. The money is then collected from the co-partners, in proportion to the share held by each in the water, and the work carried out under the supervision of the *miráb* or headman. On the completion of the work, it is examined, the account is made up and any excess or deficit is adjusted. For work, which requires no special skill, the labour is provided by the co-partners. Repairs to *kárézes* are very expensive and large



*takávi* advances are made for the purpose. This tells very heavily on the prosperity of the agricultural population. Open channels are generally cleaned by the owners themselves. In the Fort Sandeman tahsil where water channels have to be cut through hard and rocky soil labour is employed, the Ghilzais being engaged for the purpose.

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Permanent sources of water are divided into a number of shares, the usual unit of division being the *shavárooz*, or the flow of a day and night. The minor divisions of a *shavárooz* differ in various parts of the District, but those in commonest use are indicated in the following table:—

Division of  
water.

## I.—Fort Sandeman Tahsil.

(a) Among the Abdullazais and Kibzais the lowest unit is *atama*—

|                   |   |                                |
|-------------------|---|--------------------------------|
| 2 <i>atama</i>    | = | 1 <i>tsaloram</i> .            |
| 2 <i>tsaloram</i> | = | 1 <i>nimkai</i> .              |
| 2 <i>nimkai</i>   | = | 1 <i>wial</i> .                |
| 2 <i>wial</i>     | = | 1 <i>shavárooz</i> = 2½ hours. |

(b) Among Shíránis and Haripáls the lowest unit is *ním cháryak* or *ním kurvae*—

|                      |   |                      |
|----------------------|---|----------------------|
| 2 <i>ním cháryak</i> | = | 1 <i>cháryak</i> .   |
| 2 <i>cháryak</i>     | = | 1 <i>nímhor</i> .    |
| 2 <i>nímhor</i>      | = | 1 hor.               |
| 2 hor                | = | 1 <i>shavárooz</i> . |

(c) Amongst the Bábars the lowest unit is *ním shapárasam*—

|                         |   |                        |
|-------------------------|---|------------------------|
| 2 <i>ním shapárasam</i> | = | 1 <i>shapárasam</i> .  |
| 2 <i>shapárasam</i>     | = | 1 <i>atama</i> .       |
| 2 <i>atama</i>          | = | 1 <i>tsaloram</i> .    |
| 2 <i>tsaloram</i>       | = | 1 <i>nimkai</i> .      |
| 2 <i>nimkai</i>         | = | 1 hor or <i>wial</i> . |
| 2 hor or <i>wial</i>    | = | 1 <i>shavárooz</i> .   |

(d) In the Jhalár village the lowest unit is *shingari*—

|                   |   |                      |
|-------------------|---|----------------------|
| 2 <i>shingari</i> | = | 1 <i>nimkai</i> .    |
| 2 <i>nimkai</i>   | = | 1 <i>wial</i> .      |
| 2 <i>wial</i>     | = | 1 <i>shavárooz</i> . |

## II.—Kila Saifulla Tahsil.

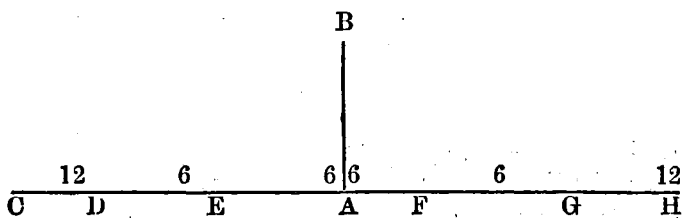
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- (a) At Toi Bátozai the lowest unit is *pucha*—
- |          |   |             |
|----------|---|-------------|
| 4 pucha  | = | 1 charík.   |
| 2 charík | = | 1 nimkai.   |
| 2 nimkai | = | 1 kandai.   |
| 2 kandai | = | 1 shavároz. |
- (b) At Barat Khél the lowest unit is *wand* or *charík*—
- |                  |   |             |
|------------------|---|-------------|
| 2 wand or charík | = | 1 psha.     |
| 2 psha or nimkai | = | 1 wial.     |
| 2 wial           | = | 1 hor.      |
| 2 hor            | = | 1 shavároz. |
- (c) Elsewhere in the tahsil the lowest unit is *nim-gargi*—
- |            |   |                      |
|------------|---|----------------------|
| 2 nímgargi | = | 1 nimkai.            |
| 2 nimkai   | = | 1 wand.              |
| 2 wand     | = | 1 nimkai.            |
| 2 nimkai   | = | 1 wial.              |
| 2 wial     | = | 1 shavároz=24 hours. |
| 2 shavároz | = | 1 tal.               |

## III.—Hindubágh Tahsil.

- (a) In the Murgha circle the lowest unit is *sáya*—
- |          |   |             |
|----------|---|-------------|
| 2 sáya   | = | 1 nimkai.   |
| 2 nimkai | = | 1 wial.     |
| 2 wial   | = | 1 shavároz. |
- (b) In the Bábu Chína circle the lowest unit is *atama*—
- |            |   |                         |
|------------|---|-------------------------|
| 2 atama    | = | 1 tsáloram or chaloram. |
| 2 tsaloram | = | 1 nimkai.               |
| 2 nimkai   | = | 1 wial.                 |
| 2 wial     | = | 1 shavároz.             |
- (c) In the Hindubágh circle the lowest unit is *pucha*—
- |               |   |                         |
|---------------|---|-------------------------|
| 2½ pucha      | = | 1 atama.                |
| 2 atama       | = | 1 tsaloram or chaloram. |
| 2 tsaloram    | = | 1 nimkai.               |
| 2 nimkai      | = | 1 wial or hor.          |
| 2 wial or hor | = | 1 shavároz.             |

The actual distribution is conducted by the *míráb* or other person charged with the work who is guided by an ingenious dial during the day, and during the night by the position of the moon and certain stars. The day is divided in different places into 4, 8, 16, 20, and 32 parts, the commonest system being that under which it is divided into 8 parts. For distribution during the day among the Abdullazais and Kibzais of Fort Sandeman, a dial is made of a straight stick, 12 fingers high, which is planted in level ground at sunrise. Subsequent operations are explained by the following diagram:—



A B represents the stick and C H the ground line, the first *atama* after sunrise is considered to be over when the shadow of the stick has receded to the point C, which is 24 fingers' breadth distant from the point A. The second *atama* is over when the shadow has moved 12 fingers further and is at D, while each of the two subsequent *atamas*, up to mid-day, are represented by a movement for the breadth of 6 fingers each. In the afternoon the reverse process is followed, the last *atama* lasting from the time the shadow has reached the point H till sunset.

The night is also ordinarily divided into 8 parts, but the distribution is a much more difficult business and is conducted largely by guess work. The *míráb* is, however, assisted by the position of certain stars in the heavens, on their appearance and disappearance in the east and the west, respectively. Water is required most from March till end of December and it is during this period that the *hisábgar* or *sidhgar*, a

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man who is an expert in the calculation of time and in his absence the *míráb*, has to keep a careful watch during the night and settles all disputes.

These are the principles in accordance with which the *míráb* calculates the various shares. Their practical application differs according to the quantity of water in the different sources. Thus, on the Zhob river, which has a large supply of water, the shares belonging to different communities are sometimes taken off in separate channels; and each of the latter is further subdivided by means of a wooden divide. Each complete share taken according to the land available, is known by a different name, such as *wial*, *atyágún*, *wandgari*, *tal*, and *kandae*. Each of these is further subdivided among co-sharers, the minor subdivisions being known as *psha*, *nimkai*, *shíngarai*, *shingorah*, *gutta*, *tsaloram*, *athánae*, *páo* and *ana*, etc.

In the Hindubágh and Kila Saifulla tahsils the water is either permanently divided, or is distributed periodically. In the latter case, early in March all those who have a share in water assemble together to arrange their turns of water which is done by casting lots (*pucha andázi*) with sheep or goat dung which are mixed, each with a mark, and then drawn out. The turns thus determined remain in force in some places for a year and in others for a harvest.

Another system which may be mentioned here is that known as *land*. During the autumn harvest the division of a source of irrigation is reduced by one-half. For instance a *kúríz* or spring which has 12 *shavárooz* of water is treated as having 6 *shavárooz* only. In this way every co-sharer gets a turn of irrigation every sixth day instead of every twelfth day. The advantage of this becomes manifest when it is borne in mind that the *kharif* is a crop which requires more constant watering than *rabi* and that the area under cultivation is comparatively limited. In sources of irrigation which have a small supply the water has first to be stored in a reservoir before it can be applied to lands. These reservoirs

remain closed during the night, and are opened in the morning. A rough method of dividing water thus stored is by means of a *shal* or *tagir* which is a board having holes in it according to the number of shares in which the water is to be divided.

A third method of dividing the water is by means of a graduated stick called *largi ták*. When it is intended to portion out the water of a tank or cistern, the stick is placed in the middle of it and share-holders take water according to its gradations.

Wherever sufficient water power exists it is employed for turning water mills. The latter numbered 60 on the 31st of March, 1905. Of these, 29 were in Hindubágh, 11 in Kila Saifulla, and 20 in Fort Sandeman. The mill stones are locally obtained. In Hindubágh they are obtained from the Pitáo, Sakir, and Kamchughai hills; in Kila Saifulla from Paski and Tang Haidarzar hills; and in Fort Sandeman from the hills called Harék, Dabar, and Zarmát. The cost of a pair varies from Rs. 25 to Rs. 30.

Water mills are generally constructed below an artificial embankment (*wand*) along which the channel for water (*béla* or *hamoi*) is led. The flow of water is adjusted by a regulator (*párcháo*) at the upper end of the *béla*, and it reaches the mill through a water shoot (*tarnáwa*). The whole apparatus\* of the mill is enclosed in a mud hovel (*khána*). Mills are generally constructed by the owners of the land and water and the initial expenditure varies from about Rs. 200 to Rs. 300. A carpenter (*tarkhán* or *ustákár*) is generally retained to carry out repairs and to dress the stones from time to time and receives one-fourth in Kila Saifulla and one-sixth in Fort Sandeman of the remainder of earnings after the share of the miller (*aséwán*) has been set apart. The miller's share is one-sixth in Kila Saifulla and one-eighth in Fort Sandeman. The carpenter and the miller in

\* A full description of the apparatus will be found on page 153 of the *Quett & Pishán Gazetteer*.

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Hindubágh each receives one-sixth of the total produce. Government revenue is everywhere paid first and then the produce is divided in the above manner. In Fort Sandeman the people are not well acquainted with the construction of water mills and Ghilzai labourers are employed when necessary.

The out-turn of a mill varies with the water power. It is estimated at about  $5\frac{1}{2}$  maunds in Hindubágh; 6 to 12 maunds in Kila Saifulla and 12 maunds in Fort Sandeman in twenty-four hours. The charge for grinding (*muz*) is generally levied in the shape of a share of the corn to be ground, the ordinary rate being one-twentieth in wheat; one-fifteenth to one-twentieth in barley; one-fifteenth in maize and *judri*, and one-tenth to one-fifteenth in millets.

Hand mills. Where water mills do not exist corn grinding is left entirely to the women and is done with the quern or hand mill (*méchan*) consisting of two grooved stones about a foot and half in diameter.

RENTS,  
WAGES, AND  
PRICES.

Reference will be found to the character of the tenures and tenancies in the District in a subsequent section.\* As might be expected in a backward country, in which crops are liable to great variations, rent almost always consists in a share of the grain heap. A few instances of cash rents are, however, to be met with in the Fort Sandeman tahsíl. When a landlord migrates to Afghánistán for a number of years he leases his lands to one of the tribesmen. The lessee pays the Government demand and village servants, and also pays to the leaser a cash rent which varies from Rs. 3 to Rs. 4 per *shavúroz* for each harvest.

Produce ren-  
ts; method of  
distribution  
of the grain  
heap.

When produce rents are paid, distribution is generally made on the principle of a share of the produce for each of the chief requisites of cultivation. Variations occur in different parts of the District in the distribution of the produce of land between the landlord and the tenant, and a brief reference is made below to the rates generally prevalent in each tahsíl.

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\* Chapter III., Land Revenue.

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In irrigated areas when the tenant supplies labour only, the revenue is paid by the landlord, who receives five-sixths of the produce after village servants have been paid, and the tenant one-sixth. When the tenant supplies labour and bullocks, he receives one-third of the gross produce, the land revenue and village servants being paid by the landlord out of his two-thirds. In some instances, especially in Kazha, the tenants are required to pay a proportionate share of revenue also.

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WAGE, AND  
PRICES.Hindubágh  
tahsil.

In dry crop areas the share of the tenant varies from one-sixth, when he supplies labour only and does not pay a share of revenue, to two-thirds when he supplies labour, bullocks, two-thirds of seed and pays a proportionate share of revenue. The Méhtarzai tenants who cultivate the Sám Khél lands with their own water pay one-fourth of the produce, after deducting revenue and village servants' wages, to the landlords as their rents.

In irrigated areas the general custom is for the tenant to supply labour and bullocks; land revenue and village services are the first charge against the grain heap, the balance being divided between the landlord and the tenant, their respective shares being two-thirds and one-third.

Kila Saifulla.

In dry crop areas the tenant's share varies from one-fifth, when he supplies labour only, to three-fourths when he makes embankments in waste land and finds all the necessaries of cultivation.

Fort Sande-  
man Tahsil.

|                                            | ABDULLAZAIS               |                         | KIBZAIS.                  |                    | SHIBANIS<br>HABIPALS.     |                    |
|--------------------------------------------|---------------------------|-------------------------|---------------------------|--------------------|---------------------------|--------------------|
|                                            | Land-<br>lord's<br>share. | Ten-<br>ant's<br>share. | Land-<br>lord's<br>share. | Tenant's<br>share. | Land-<br>lord's<br>share. | Tenant's<br>share. |
| <b>IRRIGATED<br/>LANDS.</b>                |                           |                         |                           |                    |                           |                    |
| When the tenant sup-<br>plies labour only. | 3/4                       | 1/4                     | ...                       | ...                | ...                       | ...                |

RENTS,  
WAGES, AND  
PRICES.

|                                                      | ABDULLAZAS.               |                         | KIBZAIS.                  |                    | SHÍRÁNIS<br>HARIPÁLS.     |                    |
|------------------------------------------------------|---------------------------|-------------------------|---------------------------|--------------------|---------------------------|--------------------|
|                                                      | Land-<br>lord's<br>share. | Ten-<br>ant's<br>share. | Land-<br>lord's<br>share. | Tenant's<br>share. | Land-<br>lord's<br>share. | Tenant's<br>share. |
| IRRIGATED<br>LANDS.                                  |                           |                         |                           |                    |                           |                    |
| When the tenant supplies labour and bullocks.        | 2/3                       | 1/3                     | 2/3 to 3/5                | 1/3 to 2/5         | 3/4 to 2/3                | 1/4 to 1/3         |
| When the tenant supplies labour, bullocks and seed.  | 1/2                       | 1/2                     | 1/2                       | 1/3                | 1/2                       | 1/2                |
| DRY CROP AREAS.                                      |                           |                         |                           |                    |                           |                    |
| When the tenant supplies labour only.                | 3/4                       | 1/4                     | 2/3                       | 1/3                | 3/4                       | 1/4                |
| When the tenant supplies labour, seed, and bullocks. | 1/3                       | 2/3                     | 1/4                       | 3/4                | 1/2                       | 1/2                |

Among the Shíránis when irrigated land is ploughed by the landlord, and the tenant only waters the land and harvests the crop, the latter receives one-eighth of the produce. The seed for *sháli* (rice) is supplied by the tenant who also provides labour and bullocks and receives three-fourths of the produce.

Among the Mando Khéls, the tenant generally provides labour, seed, and bullocks, and if the land be good his share is one-third and if inferior half of the produce, after the revenue has been paid. A system peculiar to the Mando Khéls is known as *ajal*. Under this system the tenant is engaged for a term of years varying from five to twenty. He reclaims waste land, makes embankments, and constructs dams to lead off water from hill torrents for irrigation. He pays to the landlord one-tenth to one-eighth of the produce after deducting Government revenue, as rent, and cannot be ejected during his term of tenancy. The wages of blacksmith and *miráb* are paid by the tenant.



The general custom among all the tribes in the tahsíl is that revenue is paid by the landlord and the tenant proportionately, while the blacksmith's wages are payable by the landlord.

RENTS,  
WAGES, AND  
PRICES.

The household work of men of means is generally performed by boys who, if under twelve years of age, are ordinarily given food only, but above that age they receive Rs. 1 or Rs. 2 per mensem besides food. These boys belong to poorer families among the tribesmen, and in the Hindubágh tahsíl they chiefly come from among the Mchtarzai and Isa Khél Kákars.

Wages.

The agricultural work is generally done by the tenant himself. At harvest times the poorer among the tribesmen are employed. Such a labourer in Hindubágh gets from the tenant's share 1 to 2 *kásas*\* of grain daily; in Kila Saifulla a reaper gets 1½ to 2 *kásas* daily, while a woman engaged in cleaning the grain is paid from 1 to 1½ *kásas*. Women and children also work at harvesting, their wages being half or a quarter of those paid to an adult male. Such labourers are chiefly met with among the Jalálzai and Bátorzai. These men when free from their own agricultural work, also go to Bori, Duki, Fort Sandeman, Harnai, and even to Quetta to work as labourers. In Fort Sandeman, labourers for agricultural work are found in each tribe. A labourer working in a rice crop gets daily as much cut rice as he can carry on his back, the out-turn of which is about 1½ *kásas*. For maize and wheat crops the daily wage is a *kása* of grain.

The Mando Khél, Mardánzai, Kibzai, and Abdullazai flockowners divide the year into two seasons, and shepherds are paid accordingly. For the first season, September to April, he is given as wages (*lawazhghas*) one-sixth of the male, and one-twelfth of the female kids and lambs, and one-fourth of the wool shorn; for the remaining four months, May to August, he gets four or five kids or lambs

Wages of  
herdsmen and  
shepherds.

\* A *kása* is about 8 lb.

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WAGE, AND  
PRICES.

on the whole flock, together with a quarter of the wool shorn during autumn. He-goats and rams up to 20 per cent. are not counted in the flock and no wages are paid for them. Any in excess of this proportion are paid for at the same rates as the rest of the flock. When the shepherd takes the flock away from the village for grazing, he gets for his daily food one *kurwae* (seer) of grain, half wheat and half maize. Among the Shíránis and Haripáls wages are paid in cash at the rate of Re. 1 for every five sheep during April to September, and Re. 1 for ten sheep during October to March. The reason for the payment of higher rates in the former season is that the people leave their homes at that time to collect asafetida in Chágai and Afghánistán. The Mando Khéls shear their flocks once, and other tribes twice in a year.

The alien population in the Fort Sandeman bazar pay As. 3 per goat and As. 12 per head of cattle per mensem to the grazier.

In Hindubágh the flockowners divide the year into three seasons: *first*, October to March, when the shepherd gets the same wages (*lawazghae*) as among the tribes in Fort Sandeman, i. e., a share of lambs, kids, and wool; *second*, April to July, when he is paid in cash (*paro*) Re. 1 for every twenty sheep; and *third*, August and September, when he gets a fourth of the wool shorn in September as his wages (*warai*). When grazing away from home, the shepherd is given 10 *kásas* of grain, half wheat and half *judri*, as his food for a month, half a seer of *china* or barley flour per day for his watch dog, and two or three pieces of *lánda* in winter. When the flock belongs to several persons they pay the shepherd Re. 1 per mensem for every twenty sheep, and food by turns.

In Kila Saifulla a shepherd is paid as follows: for April-May and for August-September he gets as *warai* one-fourth of the spring and autumn wools. For October to March, he is given as *lawazghae* one-sixth of the male

kids or lambs and one-twentieth of the females ; for June and July, he gets one female kid or lamb for every seventy goats or sheep, but among the Mírzais wages (*paro*) for this period are paid in cash at the rate of Re. 1 for every twenty sheep. The shepherd when away from home gets his food (10 *kásas* of wheat or *judri* per mensem) and a share of dried meat (*lándi*).

RENTS,  
WAGES, AND  
PRICES.

People other than flockowners keeping sheep and goats during the milking season from April to July for the sake of the milk only pay the herdsman cash wages at Re. 1 for every ten sheep or goats. When dry, the animals are sold.

The general rate for cowherds in the District is a *kurwad* of wheat per mensem for every head of cattle he grazes, but in the Fort Sandemau tahsil he is provided with his meals by the cattle-owners, and gets no other remuneration.

Cowherds.

A camelherd in Fort Sandeman gets As. 8 and 1 seer of corn per mensem for every camel he grazes.

Camelherds.

In Hindubágh if the herd contains forty or fifty camels, the camelherd gets, besides food, As. 2 per mensem per camel, but if the number be less, As. 4 per camel per mensem. In some parts of the tahsil Re. 1 per three camels is given for six months, also food and one-fourth of the camel hair.

In Kila Saifulla a herd consists generally of 120 camels. The Mírzais and Shádozais pay to the camelherd, besides food Re. 1 for every three camels during the six months of winter. During the six months of summer the camelherd is paid at the rate of  $4\frac{1}{2}$  *kásas* of wheat per camel, but no food is given during this period. The Bátózais, Ghorézais, Haidarzais, and Ismáílzais pay at the rate of Re. 1 for each camel every half-year, but give no food to the camelherd.

The *Zamíndárs* are required by *shariat* (Muhammadan law) to set apart one-tenth of their land produce and one-fortieth of their flocks for alms (*zakát*). In Fort

Mullás' and  
Saiads' wages.

RENTS,  
WAGES, AND  
PRICES.

Sandeman one-third to one-half of the *zakát* is given to the village *mullá*, and the balance is distributed among the poor. For celebrating a marriage the *mullá* is given a turban and Re. 1 in cash. At funerals also he gets alms. The cultivators also give him bread by turn.

In Kila Saifulla the *mullá* who conducts prayers is given an allowance by the villagers from the share of their incomes set apart as *zakát*.

In Hindubágh, *mullás* who conduct prayers and officiate at ceremonies, receive from one-third to one-half of the *zakát*.

Flockowners generally pay the *mullá* who acts as *imám* or conducts prayers, at the following rates:—

(a) Per flock of 40 to 100 sheep and goats. One.

(b) Per flock of 100 to 140 „ „ Two.

(c) Per flock of above 140 „ „ { One for every 40.

(d) Camels—

Per 5 camels ... .. One sheep.

„ 25 „ ... .. { One female camel calf.

„ 36 „ ... .. { One female camel, with calf.

Carpenters' and blacksmiths' wages.

Carpenters are not found in the villages of the District. In the Fort Sandeman tahsil blacksmiths (*push*) also do carpenter's work. In the Shráni circle each family (*orbal*) gives the blacksmith 6 seers of wheat and the same quantity of maize at the spring and autumn harvests, respectively. In the Kibzai circle a blacksmith gets 4 *kásas* of grain at *rabi* and 6 *kásas* at *kharíf* harvest per plough. In other circles the blacksmith is given by each *zamíndár* 1 *kása* of wheat at *rabi* and the same quantity of maize at *kharíf* harvest per plough. The blacksmith repairs all agricultural implements.

In Hindubágh every large *káréz* has a blacksmith who is given a *wial* of land and water for cultivation, the landlords sometimes supplying him with seed for sowing and paying the Government demand on his share of land. In winter each householder gives the blacksmith a *pushtái* (rib) of dried meat, the entire wool of one sheep, and during the milking season butter from one day's milk of the whole flock, also 16 *kaudas* (small bundles) of wheat at the spring harvest. The landholders owning small springs give the blacksmith a *kása* of wheat and a *kása* of *juári* *pershaváro* besides the dried meat, wool, and butter above mentioned.

RENTS,  
WAGES, AND  
PRICES.

In Kila Saifulla the village blacksmith in irrigated areas gets one *wial* of land and water, the seed for sowing being supplied by the villagers. In dry crop areas each family gives him 2 *kásas* (8 seers) of wheat and 2 *pushtais* of the *lúndi* meat. The blacksmith does not charge anything for making any new implements except the *ghodal* for which he is paid As. 8.

The cash rates in villages where fixed wages are not paid, are the following:—

| Name of Implement.    | Rates for                  | Rates for                 |
|-----------------------|----------------------------|---------------------------|
|                       | making new.                | repairing.                |
|                       | Annas.                     | Annas.                    |
| <i>Kráh.</i>          | 12                         | 4                         |
| <i>Spára.</i>         | 8                          | 4                         |
| <i>Taráshagh.</i>     | 8                          | 4                         |
| Axe ( <i>tabur</i> ). | 8                          | 2                         |
| Knife.                | 4                          | 1                         |
| <i>Lor</i> (sickle).  | 4                          | 1                         |
| <i>Ara.</i>           | 4                          | 1                         |
| <i>Ghodal.</i>        | { Rs. 5-0<br>or<br>„ 6-0 } | { 12<br>or<br>Re. 1-0-0 } |

For new implements iron has to be supplied by the *amindárs* who also provide charcoal.

\* These terms are embodied in Appendix III.

RENTS,  
WAGES, AND  
PRICES.Wages of  
*ambárcbí*.*Miráb's* and  
*chalérai's*  
wages.

The *ambárcbí* is employed only in certain villages of the Hindubágh tahsíl. After harvesting, the people of some villages bury their grain in pits (*kadhál*) and the *ambárcbí* keeps guard over them and is given 1 *kásas* of grain for every 60 *kásas* under his charge.

In the dry crop lands in Kila Saifulla there is a *miráb* in each village who superintends the cleaning of the channels (*báh*) and the division of the flood water. When *khushkábá* lands are distributed for cultivation the *miráb* gets one share extra. *Mirábí* is a hereditary office in this tahsíl. In irrigated lands in Hindubágh and Kila Saifulla the *miráb*, known as *chalérai*, superintends the maintenance of water channels and does ordinary repairs. When larger work is required, he collects the village people and gets the work done. In return for his labours he generally gets one *wial* of land and water from the owners of each *kárez*. Three or four persons often join together to work as *chalérai* in a *kárez*. The Kam *Kárez*, for instance, had four *chalérais*, who got a *shaváro*z of land and water, the *kárez* being a very large one entailing heavy work. Sometimes the wages take the form of 50 to 60 *kásas* of grain, half being given at the *rabi*, and half at the *kharif* harvest. In several villages in the Fort Sandeman tahsíl, the office of *miráb* is hereditary, in others he is appointed temporarily. Among the Kibzais and Bábars the post is hereditary. Each *miráb* gets an extra share of land and water. The Bábars and Kibzais give no grain to the *miráb*, but among other tribes, besides his extra share of land and water, he gets a *kása* of grain per *wandgarí* (division of water) at each harvest. Among the Mando Khél, the village headmen act as *miráb* and get the usual headman's allowances (*haq-i-malkána*) as well as those of *miráb*.

Wages of  
crop-watch-  
ers.

Crop-watchers are generally engaged in each tahsíl and are locally known under the name of *asgharo* or *azgharo*. In irrigated lands in Kila Saifulla and Hindubágh the *azgharo* gets 10 *kásas* of wheat or barley at *rabi* and

6 to 8 *kásas* of *azhdan* at *kharif* per *shaváro*. Besides watching crops, the *azgharo* also distributes water. In the absence of the cultivator, he also waters his crops and for this he gets extra wages at the rate of *kása* of wheat daily. In the Fort Sandeman tahsil his wages are variable but generally he gets 1 *kása* of grain per *wandgarí* of water at each harvest.

RENTS,  
WAGES, AND  
PRICES.

*Kárez* digging is an important occupation in the Hindu-*Kárez* diggers. *bágh* and Kila Saifulla tahsils, and is mainly in the hands of transborder Afgháns, chiefly Ghilzais, who visit the district in winter. Some of the indigenous population, however, have lately also taken to the work. The men generally work in parties of four and in addition to such other payments as may be agreed upon, usually receive food from their employer. This ordinarily consists of 10 *kásas* of wheat, 4 seers of oil and the same quantity of *ghí* or fat, Rs. 2 or 3 per mensem for meat, and Re. 1 for tobacco and salt monthly. The owner also supplies the windlass (*charkh*), all necessary tools, oil for lamps, and loin-cloths (*lang*). The most common method for payment of this sort of work is by the piece. The rates vary according to the nature of the soil in which the *kárez* is excavated and the following rates prevalent in Hindubágh may be regarded as fairly representative:—

|                                                          |        |       |
|----------------------------------------------------------|--------|-------|
| For a well in soft soil, for 3 yards                     | ... .. | Re. 1 |
| For a well in hard soil, for 2½ yards                    | ... .. | „ 1   |
| For a well in stony soil, for a span ( <i>chálisht</i> ) | ... .. | „ 1   |

Rates for tunnelling are generally the same as for well digging. Height and width do not matter. Open channels are generally made by the *zamindárs* themselves but when alien labour is engaged, the rate is Re. 1 for four linear yards.

Lining of a tunnel or well costs about As. 4 per yard. The rate for lining a channel with stone is 6 yards for Re. 1, the stone for lining being supplied by the owner. Lining with stone is not done in Kila Saifulla.

RENTS,  
WAGES, AND  
PRICES.

The *khat kashi* system, under which a man digs a *káréz* in another man's land and, if successful, shares with him the land and water is a recent innovation in Kila Saifulla. Sardár Muhammad Akbar Khán, Jogízai, had a *káréz* dug by a local man to whom he assigned a *wial* of land and water on condition that he should keep the *káréz* in repair for three years after which all sharers in the water should be responsible for its maintenance.

For repairs to, and clearing of *kárézes*, Ghilzais are engaged and paid by contract (*ijúra*); while at work they are supplied with their food and with tools and when the work is finished the cost payable is determined by arbitrators and is based on the supply of water produced. The water channels in Fort Sandeman are excavated or repaired either by the *zamínlárs* themselves, each supplying labour according to his share in the water; or by tenants under the *ajal* system previously mentioned in this section, or by Ghilzai labour. In the last case the wages vary according to the nature of the soil from Re. 1 per yard in rocky soil to Re. 1 for 30 yards in soft soil.

## Labourers.

Domestic servants and almost all skilled labourers are imported from India; chiefly from Sind and the Punjab, and owing to the severity of the winter and the expense of living receive higher wages than are usually paid in India.

## Prices.

Wheat is the staple food-grain in the District, but maize and millets are also used. *Bhúsa* and firewood had no demand in the District before the British occupation and were not, therefore, sold. But since the Military Garrison has been stationed at Fort Sandeman the demand for these articles has increased, and the consumption is more than the tahsil produces. Before the British occupation in years of good rainfall, wheat in Fort Sandeman was sold at from 30 to 35 seers, barley at 40 seers, and country salt from 20 to 25 seers per rupee.

In Kila Saifulla wheat was selling at 36 to 40 seers per rupee in 1890, and at Hindubágh from 20 to 40 seers, while



the price of *judri* in the latter tahsil was As. 13 to Rs. 1-9-6 per maund.

RENTS,  
WAGES AND  
PRICES.

The prices of staple articles for each tahsil for the twelve years ending with 1904 are shown in table VIII, Volume B, and the prices at which revenue grains have been sold will be found in table XVI, Volume B. The following table shows the average prices of the principal revenue grains during the quinquennial period ending with March 31st, 1902, which was a period of drought in the District, as compared with 1904 which was a favourable year:—

| Articles.           | Price per maund<br>(average of 5<br>years). | For 1904-05. |
|---------------------|---------------------------------------------|--------------|
|                     | Rs. a. p.                                   | Rs. a. p.    |
| Wheat ... ..        | 2 9 1                                       | 2 0 11       |
| Barley ... ..       | 2 10 7                                      | 1 12 5       |
| Bhúsa ... ..        | 0 7 5                                       | 0 6 2        |
| Maize ... ..        | 2 6 9                                       | 2 0 5        |
| Juári ... ..        | 1 13 1                                      | 1 13 11      |
| Juári stalks ... .. | 0 5 10                                      | 0 3 9        |
| Lucerne ... ..      | 0 5 10                                      | 0 5 0        |
| Rice ... ..         | 1 14 4                                      | 1 10 0       |

The retail prices of wheat at Fort Sandeman for the three different periods were as under:—

|                          | AVERAGE FOR |       |            |       |       |       |
|--------------------------|-------------|-------|------------|-------|-------|-------|
|                          | 1893—1897.  |       | 1898—1902. |       | 1904. |       |
|                          | Md.         | s. c. | Md.        | s. c. | Md.   | s. c. |
| February, first week ... | 0           | 14 0  | 0          | 11 8  | 0     | 13 8  |
| July, last week ...      | 0           | 13 3  | 0          | 11 12 | 0     | 15 4  |

Prices in the District are also affected by the state of the crops in the adjoining districts of Déra Ismáíl Khán and the neighbouring tahsils of Músa Khél, Bárkhán, and Duki.

**WEIGHTS AND MEASURES.** Standard Indian weights have been introduced, since the British occupation in bazars of the head quarter stations, levy Measures of posts, and important stages on main roads; a seer is of 80 Weight. tolas and a maund of 40 seers. The weights in general use are of five seers, two and a half seers, two seers, one seer, half a seer, quarter seer, one-eighth of a seer, chittack, and half a chittack. Larger quantities are weighed by spring balances, the use of which the people are thus beginning to learn. Bulky articles such as coal, fuel, fodder, etc., are dealt with by the maund of 82 lbs.

Measures of Grain. Outside the town and bazars, grain, *ghí*, etc., are still sold by wooden measures of various capacities, the measures in ordinary use being the following:—

*Ním kurwae* is the unit—

|                     |                    |
|---------------------|--------------------|
| 2 Ním kurwae        | = 1 kurwae.        |
| 2 Kurwae            | = 1 ním ozhae.     |
| 2 Ním ozhae         | = 1 ozhae or kása. |
| 30 Ozhae or kása    | = 1 anda.          |
| 60 Kásas or 2 andas | = 1 tstai.*        |

The *ním kurwae*, *ním ozhae*, *anda*, and *ghundai* or *ghindai* are merely nominal amounts, the wooden measures in daily use being the *kurwae* and *ozhae* or *kása*. The capacity of this *kása* varies in different parts of the District as will be seen from the following table:—

*A—Fort Sandeman tahsil.*

| Locality.                          | Equivalent of <i>kása</i> in Indian weights. |         |        |             |
|------------------------------------|----------------------------------------------|---------|--------|-------------|
|                                    | Wheat.                                       | Barley. | China. | Mung. Maki. |
| 1. Abdullazai circle—              |                                              |         |        |             |
| (a) Killi Shérak ...               | 5 srs.                                       | 4 srs.  | 3½     | 5 5 srs.    |
| (b) Mína Bázár and other villages. | 4                                            | „       | 3½ „   | 2¾ 4 4 „    |
| 2. Gustoi circle ...               | 3                                            | „       | 2¾ „   | 2¼ 3 3 „    |

\* Called *ghundai* by Sanatías and *ghéndai* by Sanzar Khéls.

## MEASURES OF GRAIN.

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|                                           | Wheat            | Barley              | China          | Mung.          | Maki.            | Sháli.* | WEIGHTS<br>AND<br>MEASURES. |
|-------------------------------------------|------------------|---------------------|----------------|----------------|------------------|---------|-----------------------------|
| 3. Mando Khél circle—                     |                  |                     |                |                |                  |         |                             |
| (a) Apozai and Sulai-<br>mánzai villages. | 4 srs.           | $3\frac{1}{2}$ srs. | $2\frac{3}{4}$ | 4              | 4                | srs.    | $7\frac{1}{2}$              |
| (b) Other villages ...                    | $3\frac{1}{2}$ „ | $2\frac{1}{2}$ „    | $2\frac{1}{4}$ | $3\frac{1}{2}$ | $3\frac{1}{2}$ „ |         | 6                           |
| 4. Shírání circle ...                     | 5 „              | 4 „                 | $3\frac{1}{2}$ | 5              | $5\frac{1}{4}$ „ |         | 6                           |
| 5. Kibzai circle ...                      | $4\frac{1}{2}$ „ | $3\frac{1}{2}$ „    | $3\frac{1}{4}$ | $4\frac{1}{2}$ | $4\frac{1}{2}$ „ |         | ...                         |

*B—Hindubágh Tahsil.*

Wheat. Barley. China. Maki.

|                                                            |                     |                     |                |                     |  |  |
|------------------------------------------------------------|---------------------|---------------------|----------------|---------------------|--|--|
| 1. Murgha Meh-<br>tarzai, both east<br>and west circles.   | $4\frac{1}{2}$ srs. | $3\frac{1}{2}$ srs. | $2\frac{3}{4}$ | $4\frac{1}{2}$ srs. |  |  |
| 2. Hindubágh, Bábu<br>China, and Khu-<br>rásán circles ... | 4 „                 | $3\frac{1}{4}$ „    | 2              | 4 „                 |  |  |
| 3. Kazha circle ...                                        | 3 „                 | $2\frac{3}{8}$ „    | $1\frac{1}{2}$ | 3 „                 |  |  |

*C—Kila Saifulla Tahsil.*

Wheat. Barley. China. Maki:

|                                 |                  |                  |                |                     |  |  |
|---------------------------------|------------------|------------------|----------------|---------------------|--|--|
| 1. Shádozai circle ...          | 4 srs.           | 3 srs.           | 3              | $3\frac{1}{2}$ srs. |  |  |
| 2. Mírzai circle—               |                  |                  |                |                     |  |  |
| (a) Dilai Mírzai<br>village ... | 4 „              | 3 „              | 3              | $3\frac{1}{2}$ „    |  |  |
| (b) Other villages.             | $3\frac{1}{2}$ „ | $2\frac{5}{8}$ „ | $2\frac{5}{8}$ | $3\frac{1}{8}$ „    |  |  |
| 3. Ali Khél circle ...          | 4 „              | 3 „              | 3              | $3\frac{1}{2}$ „    |  |  |
| 4. Musáfirpur circle—           |                  |                  |                |                     |  |  |
| (a) Ismáílzai villages.         | 5 „              | $3\frac{3}{4}$ „ | $3\frac{3}{4}$ | $4\frac{3}{8}$ „    |  |  |
| (b) Ghorezai villages.          | $4\frac{1}{2}$ „ | $3\frac{3}{8}$ „ | $3\frac{3}{8}$ | $3\frac{1}{8}$ „    |  |  |
| (c) Ságghra lands...            | 3 „              | $2\frac{1}{4}$ „ | $2\frac{1}{4}$ | $2\frac{5}{8}$ „    |  |  |
| (d) Haidarzai villages.         | $3\frac{1}{4}$ „ | $2\frac{1}{8}$ „ | $2\frac{1}{8}$ | $2\frac{1}{8}$ „    |  |  |

In Haidarzai the *ghíndai* used weighs 12 maunds, in other places it is 6 maunds, except in Barat Khél, Rustamzai, Salákhzai, Safarzarai, and Galazai where it weighs 4 maunds. In ordinary parlance, when reference is made to a *kása*, its equivalent weight in wheat is intended to be conveyed.

\* The *kása* for measuring all grains except *sháli* is the same. That used for *sháli* has a larger capacity.

WEIGHTS  
AND  
MEASURES.  
Miscellaneous  
measures.

For weighing wool, a rough lever balance, known as *tála largai* or *lakara*, was formerly used in the Kila Saifulla and Hindubágh tahsils. It was made of a fairly heavy stick, three feet long and three quarters of an inch thick, the pivoting point of which was determined by a standard weight. For this purpose 18 *tumms* which comprised 360 Indian, or 432 Kábuli, rupees made a maund. The point of suspension once ascertained was marked by a notch, and the stick was easily carried from one place to another. This stick has now been supplanted by the weighing scale. In Fort Sandeman the wool was, and is still, sold by the number of *wargs* ( bundle of a sheep's wool ).

Green fodder is sold by *kurdus* ( plots ). Bundles of dry lucerne ( *mora* ) in Hindubágh are sold by the number. Fodder and fuel are generally sold by the camel load, donkey load, or bullock load or by the *pétai*, i.e., the load which a man can carry on his back. *Bhúsa* is also sold by the heap ( *káhdán* ), and in Kila Saifulla by a netful known as *savada*.

Linear mea-  
sures.

In the town and bazars the standard yard of 16 *girahs* or 36 inches has come into use, but the people of the country still employ the cubit ( *hatha* ), or the *Kandahári* yard ( which is from 42 to 43 inches ) for measuring cloth, *kárez* tunnels and mud walls. The *hatha* is an indefinite measure which varies with the stature of the customer and is measured from the projecting bone of the customer's elbow round the end of the middle finger, when extended straight, and back to the second knuckle joint. In measuring walls and *kárezes* the length is sometimes extended up to the wrist of the right arm. In Kila Saifulla, for measuring walls the distance from the elbow to the tip of the middle finger is taken to be two spans ( *lwésh* ). Five such spans make one yard. Among the Mando Khéls a *lwésh*\* is the distance between the tip of the little finger and that of the thumb of the right hand with the fingers spread out.

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\* Persian *bálish*.

During the survey the measures adopted in the Hindu-  
bágh and Kila Saifulla tahsils were acres, roods, and poles,  
and records are prepared in these measures. But generally  
in the District irrigated land is known by the proportion of  
water attached to it, while unirrigated land is sold by plots  
or *bands*, measurements being taken by means of paces,  
sticks, or ropes. Two paces in Kila Saifulla make one  
*kadam* (*dúng*). Thus the land and water under a per-  
manent source of irrigation are both divided, and an amount  
of land is recognised which is attached to a *shaváro* of  
water or other minor division. The term *yivgi* \* is fre-  
quently used but has no definite value, merely denoting the  
amount of land that can be ploughed by a pair of oxen in  
twelve hours.

WEIGHTS  
AND  
MEASURES.  
Superficial  
measures.

Some of the leading men, who frequently come in contact  
with Government officials, know the English months, but in  
the District as a whole the lunar year is still observed. The  
Arabic names of the months and their local equivalents are  
given below :—

Measures of  
time.

| <i>Arabic Name.</i> | <i>Local Month.</i>                               |
|---------------------|---------------------------------------------------|
| Muharram.           | Hasan-Husain †.                                   |
| Safar.              | Safara.                                           |
| Rabi-ul-awal.       | Lumrai-Khor, Uрмаi-<br>khor or Warambai-<br>khor. |
| Rabi-us-sáni.       | Do-ama-khor.                                      |
| Jamádi-ul-awal.     | Dre-am-khor or<br>Drema khor.                     |
| Jamádi-us-sáni.     | Tslorama, Chalram or<br>Ustarai-khor.             |
| Rajab.              | Alla Miásht or Khudai-<br>miásht.                 |
| Shabán.             | Landai-barát, Rasúl-<br>miásht or Asúra.          |
| Ramzán.             | Roza.                                             |

\* Same as *jora* in the Quetta-Pishin District.

† The Shiránis and Haripáls call this month *Sare-kálla*.

WEIGHTS  
AND  
MEASURES.

| <i>Arabic Name.</i> | <i>Local Month.</i>            |
|---------------------|--------------------------------|
| Shawál.             | Alak Akhtar or Kam-<br>kai Id. |
| Ziqad.              | Manz-mián or Manza-<br>kai.    |
| Zilhij.             | Loe akhtar or Loe Id.          |

The seasons recognised by cultivators and flockowners are described in the section on **Climate and Temperature**.

The days of the week are those recognised by Muhammdans, Friday being the first day. The week among the Shíránis and Haripáls commences with Saturday and the peculiar names given by them to the days of the week are as follows:—

|            |          |        |
|------------|----------|--------|
| Saturday.  | Awal     | Sabaq. |
| Sunday.    | Do-am    | „      |
| Monday.    | Dre-am   | „      |
| Tuesday.   | Tsloram  | „      |
| Wednesday. | Pinzam   | „      |
| Thursday.  | Shpazham | „      |
| Friday.    | Juma.    |        |

The day (*waraz*), and the night (*shpa*) are divided into the following parts:—

| <i>Vernacular Name.</i>                 | <i>Explanation.</i>                  |
|-----------------------------------------|--------------------------------------|
| Kázib or Tera Mazae.                    | The period, a little<br>before dawn. |
| Spéde or Spédo dágh.                    | Dawn.                                |
| Khar-Sahár or Kharavara.                | After dawn.                          |
| Sahar, Nimáza wakhat<br>or Runz namúnz. | Morning prayer time.                 |
| Nimar tsarak.                           | Sunrise.                             |
| Tsésht or barazar.                      | 10 A. M.                             |
| Tándkai gharma.                         | 11 A. M.                             |
| Gharma, Tákanda, or<br>Níma waraz.      | 12 noon.                             |
| Zawál or awal mápashín.                 | 1 P. M.                              |

| <i>Vernacular Name.</i>                            | <i>Explanation.</i> | <b>WEIGHTS<br/>AND<br/>MEASURES.</b> |
|----------------------------------------------------|---------------------|--------------------------------------|
| Mápashín.                                          | 2 to 4 P. M.        |                                      |
| Ghat Mázigar, Awal<br>mázigar or Kaza<br>mápashín. | 5 P. M.             |                                      |
| Mázigar.                                           | 5 P. M. to sunset.  |                                      |
| Namar prewata.                                     | Sunset.             |                                      |
| Máshám or lumrai<br>máshám.                        | Evening.            |                                      |
| Tiára máshám.                                      | Dusk.               |                                      |
| Mákhustan.                                         | Sleeping time.      |                                      |
| Nima Shpa.                                         | Midnight.           |                                      |
| Lumrai charg azán.                                 | 1 A. M.             |                                      |
| Dj-am charg azán.                                  | 2 to 3 A. M.        |                                      |
| Dre-am charg azán or<br>Pésh-lamae.                | 4 A. M.             |                                      |

The divisions of the day most generally recognised are those connected with the Muhammadan hours of prayer, viz.—Sahár, gharma, mápashín, mázigar, máshám, and mákhustan.

Before the British occupation the *kaldár* or British Indian Currency. rupee was sparsely used, the Sikh coins known as the *mírábí* and Afghán coins being generally current. This latter currency is still used in dealing with Ghilzai powindahs. The market value of Kábulis, Kandaháris and Kiráns varies; at present (1906), a Kábuli fetches from Re. 0-7-6 to Re. 0-8-3, a Kandahári Re. 0-4-6, and a Kirán from Re. 0-3-0 to Re. 0-3-3. The place of all these coins has now been largely taken by British Indian coins, the local names of which are given below:—

| <i>Local Name.</i>                               | <i>English Equivalent.</i> |
|--------------------------------------------------|----------------------------|
| Pái or páhai.                                    | Pie.                       |
| Níma paisa.                                      | Half pice piece.           |
| Paisa.                                           | Pice.                      |
| Taka, loe paisa, tanga,<br>doapaisa or doapaiza. | Double pice.               |

WEIGHTS  
AND  
MEASURES.

| <i>Local Name.</i>               | <i>English Equivalent.</i> |
|----------------------------------|----------------------------|
| Shái or Sháhi.                   | 2 anna piece.              |
| Páo or páolai.                   | 4 " "                      |
| Abbási, Kandahári or<br>nimakai. | 8 " "                      |
| Kaldár or Rupi.                  | Rupee.                     |

MATERIAL  
CONDITION  
OF THE  
PEOPLE.

The late Amír Abdul Rahmán, who passed through Baluchistán during 1869, describes Sháh Jahán, the then acknowledged King of Zhob as "an old man, wearing a coat of old sheep-skin, which was patched in parts with different pieces of coloured cloth, where the skin was worn. He wore on his head so dirty a turban as to disguise the material of which it was made. It also had no conical cap in the centre. On his feet were woollen socks, without any shoes. His mare was nothing but skin and bone, with bells tied to her knees, and the saddle was of wood. The bridle was of hair-cloth with bells tied to the corners."

Local accounts also corroborate this description. In pre-British days when the country was in a state of anarchy, the dress of the people chiefly consisted of coarse materials, such as sheep skins, felt coats, and blanketing, while *shoi* or coarse cloth imported from the Punjab was used for turbans, trousers, and female shifts and wrappers. Shirts among men were used only on festive occasions. The food was poor and meagre, consisting chiefly of *ogra* or porridge made of *juári*, and millets, and was supplemented largely by fruits of wild trees, i. e., pistachio *khanjak* and olive, and by the wild plants *pushai*, *nughara*, etc. Cooking pots, household furniture and ornaments of females were few. Boys went almost naked up to the age of ten partly because cloth was scarce and partly because until they began to wear *shalwár* or trousers they were not molested in tribal feuds.

Since the British occupation there has been an appreciable improvement in the condition of the people more especially those residing in villages on principal routes and near head quarter stations of tahsils and outposts. This is due to a



settled Government and cessation from feuds in which the tribes were formerly constantly engaged. The construction of roads, and the presence of a considerable alien population in the bazars have opened out better markets; and straw, fuel, and fodder, which formerly had little or no value, now fetch good prices. The more prosperous condition of the country is also shown by the better material now used for dress both by men and women, by the extension of agriculture, in the improvement of the villages and in the general rise in bride price (*walwar*) and marriage expenses. Local reports show that in pre-British days the bride price varied from Rs. 15 to Rs. 100, but now Rs. 300 to Rs. 700 are paid. Tribes which in former days were nomadic are now gradually taking to agriculture.

MATERIAL  
CONDITION  
OF THE  
PEOPLE.

Nevertheless, there are still many tribesmen residing in the remoter parts of the District who do not as yet show any marked improvement in their standard of living, though among them too Indian piece-goods are now to some extent supplanting the coarser materials formerly used in dress. The continued droughts have also told on the material condition of the people more especially in the Upper Zhob Sub-division, and involved them in debt, as has been already\* pointed out in the section on **Agricultural Indebtedness**.

The first Forest officer who visited the District was Mr. Elliot, who toured in 1892 to advise the Political Agent regarding the arrangements to be made for forest protection, and in 1894 a small establishment of one Forester and two Forest guards was sanctioned. Simple rules to prevent waste and destruction of the forests by promiscuous cutting were enforced and the system of rotation of areas open to cutting was introduced, it being ruled that as the forest in each area was cut, it should be strictly excluded from cutting and grazing for a term of years. The measures taken were effective in protected forests as far as wood-cutting was concerned; there were other extensive wooded areas,

FORESTS.  
Brief history  
and possibi-  
lities of  
increasing  
forest re-  
serves.

\* Page 129, Chapter II.

**FORESTS.** however, where the small forest establishment could not detect the transgression of forest rules.

The question of reserving certain areas having been raised, the Political Agent reported in 1897 that no pressing necessity existed for the complete reservation as State forests, of any of the wooded areas in Zhob, but asked that additional forest guards might be provided to enforce protective rules in Mír Ali Khél, Murgaha, and Hindubágh. As regards the *chilghoza* or edible pine forests, he said that the Gustoi area and forests on the slopes of Takht-i-Sulaimán and Kaisa ghar, being remote from any market, were not in any danger, but Shín-ghar besides being in itself the most valuable of the three was comparatively near. In addition to these areas, there was a considerable amount of scattered *chilghoza* growth on the Shínsar hill behind Máníkhwa, but this was not of any great value and the elevation of the range was not sufficient for *chilghoza* to thrive well. He, therefore, suggested that all permits for cutting *chilghoza* be given for Shínsar area only and that cutting be absolutely prohibited elsewhere, a guard being appointed for Shín-ghar to see that this prohibition was observed. The extra establishment of four guards was accordingly sanctioned, another guard being added subsequently.

Mr. E. A. Down, Deputy Conservator of Forests, visited the forest areas in the District in 1900 and submitted a report, concerning the improper use of the forest trees, which is embodied in the Forest Administration Report of the Province for 1899-1900. On receipt of this report the Government of India remarked "that it appeared that the pine and olive forests are in a deplorable condition and it is hoped, therefore, that it will be found feasible to reserve these areas, and to regulate the cutting of wood and grazing on some rational system."

These points were, so far as practicable, being attended to by the Political Agent when in 1903 Colonel C. Yate, C.S.I., C.M.G., then Agent to the Governor-General,

suggested that the forest administration in Zhob should be amalgamated with that of the other districts in Baluchistán. Bhai Sádhu Singh, Extra Assistant Conservator in charge of Forests in Baluchistán, was, thereupon, deputed to inspect the Zhob forests and to formulate proposals for the establishment which would be necessary, if the Zhob forests were placed under his charge. He inspected the forests in the Fort Sandeman tahsíl in September, 1904, and reported that out of the 3,583 square miles, the total area of the tahsíl, approximately 1,568 square miles were more or less covered with tree growth; and that out of this about 100 square miles were well stocked with *chilghoza*, *nashtar*, and pistachio, etc., and about 200 square miles with olive and *Acacia modesta*. He was of opinion that the 100 square miles referred to above were worth reservation as State forests for timber, fruit, etc., and also for climatic reasons; while the 200 square miles should be reserved for providing grazing during time of scarcity. He estimated that an establishment of one Forest Ranger, one Forester, one *munshi*, and twenty-one forest guards would be required for the protection and working of these forests. The reservation was to be carried out gradually in about ten years. The proposals are still (1905) under consideration. Arrangements are also being made to obtain the services of a qualified Forest Ranger.

Similarly further proposals are under consideration for reserving an area of about 16 square miles in the Hindubágh tahsíl named Marzaghán, which contains a number of pistachio and other allied species; also for reserving an area of about 12 square miles of pistachio forest in the Kila Saifulla tahsíl. The revenue from the royalty levied at Fort Sandeman has, during the ten years ending with March, 1905, averaged Rs. 3,031 per annum and the expenditure Rs. 1,125 per annum.

Pending the consideration of the above proposals, the forest management is still in the hands of the Political Agent who is advised, as occasion arises, by the Forest officer in

Present (1905)  
arrange-  
ments.

**FORESTS.** Baluchistán. The establishment maintained by the District authorities consists of a Forester and six guards, of whom five are employed in the Fort Sandeman, and one in the Hindubágh tahsíl, and their duties are mainly confined to looking after the trees noted in the margin\* which have been

|            | * RESERVED TREES.              |                                |
|------------|--------------------------------|--------------------------------|
|            | <i>Latin Names.</i>            | <i>Local Names.</i>            |
|            | Juniperus excelsa.             | Obusht.                        |
|            | Pistacia khanjak.              | Khanjak.                       |
|            | "    mutica.                   | Khanjak or Shrawan<br>(Uzgai). |
|            | Fraxinus xanthoxyloides (ash). | Sharg.                         |
|            | Olea cuspidata (olive).        | Showan.                        |
|            | Dalbergia sissu.               | Shisham or zagha.              |
|            | Acacia modesta.                | Phulal or palosa.              |
|            | Zizyphus nummularia.           | Bér, karkan.                   |
|            | "    oxyphylla                 | Gurgala.                       |
|            | Tecoma undulata.               | Lahura, Rohrai.                |
|            | Frunus eburnea (wild almond).  | Zirga.                         |
| Pistachio. | Populus Euphratica (poplar).   | Sufaedar, spina, padah.        |
|            | Tamarix articulata.            | Lei, jhán, ghaz.               |
|            | "    indica                    | Farash.                        |
|            | Periploca aphylla.             | Bata, barrar.                  |
|            | Pinus gerardiana.              | Chilghoza.                     |
|            | "    excelsa.                  | Blue pine, dashtar.            |
|            | Haloxylon ammoo-dendron.       | Tágaz.*                        |
|            | Stockia brahuica.              | Kator.*                        |
|            | Prosopis spicigera.            | Jhand*                         |
|            | Capparis aphylla.              | Karil.                         |
|            | Salvadora.                     | Pila.*                         |

declared as "reserved"; and the cutting and lopping of which is regulated by rules contained in the Agent to the Governor-General's Notification No. 2271, dated the 27th February, 1901. A brief description of the more important trees is given below.

Both varieties of pistachio, viz., pistachio *khanjak* and pistachio *mutica* are met with. The *khanjak* is found at elevations of from 3,000 to 8,000 feet, chiefly where clay and sand-

stone are met with. Its growth is scattered and sparse, and the tree is extremely slow-growing and difficult to rear. It seldom grows more than 30 to 40 feet in height and is generally lower, with a thick trunk 6 to 8 feet in girth and a rounded crown. In the Hindubágh tahsíl there is the area of 16 square miles called Marzaghán already referred to which is specially looked after by a Forest guard; a well-wooded tract also exists in the Bábu Chína valley. In Kila Saifulla the pistachio is found in Yákúb Fíroz Kánr and Altáz Kárézes as well as in Tar and

\* These trees though reserved in other parts, very rarely occur in Zhob.

Shinglún. In the Fort Sandeman tahsíl the pistachio mostly *mutica* (called *shina*) is found in the localities noted in the margin \* mixed with ash, olive, etc.

FORESTS.

\* Spéra-ghar.  
Bahlólsar.  
Planikhora.  
Urjas Sar.  
Taki.  
Súréza.  
Hasúband.  
Mánkhwa.  
Shinglún.  
Narai Lasbandi.  
Margabal.  
Wallah.

Pistachio is believed by the *zamíndárs* to begin to bear fruit when twenty-five to thirty years old and is said to live to a great age. The average yield of a full grown tree is about 14 seers. The fruit is eaten both fresh and dry. It is con-

sidered warm and stimulating but is constipating. The Kákars believe that in years when there is abundance of fruit, the fertility of their women increases. A powder made from the dried fruit, mixed with wheat or maize flour, and made into a kind of porridge called *pusa* or *shandálgha* is much relished. Oil for lamps is extracted from the fruit, which is also eaten and used as an unguent for the hair. Among the people of the country it is generally believed that a seed does not germinate unless it has either passed through the stomach of a chikor or the outer cuticle has been removed with the teeth. Experiments, made by the Forest Department in the Quetta-Pishín District in 1902 and 1904, however, indicate that *khanjak* could be successfully reproduced from seed under favourable circumstances, which are that the soil should be somewhat rich, that the seed should be sown before the spring season and that moisture should be available in the seed beds.

The juniper is only found in the south-western corner of the Hindubágh tahsíl, notably towards Súrghund. Juniper.

The wood is light and though not strong withstands the action of moisture to a remarkable degree. It is used for making water channels (*tarnáwas*), house-posts, and beams. The species is extremely slow in growth and never attains a great height, few trees being over 60 or 70 feet in height. The fruit, which is known as *palo* by the Patháns, appears in spring and is believed by the people to ripen in

**FORESTS.** the third year. For food, the berries are boiled in a small quantity of water, when they become like jelly and blackish in colour. After extracting the kernels, the jelly (*dúsha*) is eaten by the poorer classes, more especially in times of scarcity. It is also believed to be a cure for colds. The jelly is sometimes mixed with *ghí* and used for tanning the skins (*zik*) in which *ghí* is stored, as the resinous substance sticks to the skin and prevents percolation. The green leaves are also used for medicinal purposes. Up to the present time the berries have not been found to be of any commercial value owing to the forests being at a long distance from any market.

**Olive.** The wild olive (*showan*), a middle-sized tree, is found throughout the District but mostly in the Fort Sandeman tahsíl. Its hard and durable wood is largely used for agricultural implements as well as for timber and fuel. The leaves are used for feeding goats, and oil is occasionally extracted from the fruit. Mr. E. A. Down, Deputy Conservator of Forests, Baluchistán, who inspected the Zhob Forests in March, 1900, remarked that all the olive forests in the District were of one type, i. e., pollards, due to excessive lopping which must have been going on for very many years, and which still continued. He suggested rotation areas for coppice and recommended that a certain area should be closed against grazing, and the seeds of the pollarded trees be sown to find out whether they possess sufficient vitality for germination so as to produce good natural reproduction. Mr. Down's successor, Bhai Sádhu Singh, who visited the District in 1904, further suggested that certain selected areas situated at long distances from villages should be closed to grazing except in times of scarcity, that well-wooded areas in the vicinity of villages be reserved, if practicable, to afford pasturage for the village cattle in time of scarcity, and that areas in which restrictions for grazing and browsing could not be imposed might be managed as "unclassed forests"

and treated as pasture lands, i. e., they should be kept FORESTS.

|                  |                                         |
|------------------|-----------------------------------------|
| * Murgha Bábar.  | open to grazing with the only           |
| Sanghe-ghar.     | restriction that the green trees        |
| Bahlolsar.       | should not be cut or dangerously        |
| Planikhora.      | lopped. The olive is found in the       |
| Urjas Sar, Táki. | localities noted in the margin *        |
| Stréza.          | sometimes mixed with <i>khanjak</i> and |
| Hasúband.        | ash.                                    |
| Mát.khwa.        |                                         |
| Shínsar.         |                                         |
| Narai Lasbandi.  |                                         |
| Chachobi.        |                                         |

The edible pine (*chilghoza*) is a moderate sized tree found *Chilghoza.* generally at altitudes between 6,000 and 12,000 feet. Its heart wood is yellowish-brown, hard, durable, and resinous. The fruit being edible, is exported to Déraját and the Punjab. Resin is also extracted from the *chilghoza* wood, and is a cure for mange in camels and goats. This tree predominates in the Shín-ghar, Margabal, Parai, Sharghalae and Takht-i-Sulaimán hills and is also found along the summits of Spéra-ghar and to some extent in Shínsar. In 1900 Mr. Down reported that the Shín-ghar *chilghoza* forest was in a poor condition and that a considerable number of trees were dead and dying, owing to age, coupled with severe conditions of climate, scanty rainfall, and poor and insufficient soil; there was very little natural production due most likely to the annual collection of seed for consumption and sale and also to the area being severely grazed over, little or no cover being left to protect any germination that happened to take place. He recommended the introduction of a system of rotation for the collection of seed in the *chilghoza* forests and the entire closing of the Shín-ghar forest to grazing, cutting, and seed-collecting. As regards Sharghalae forest he said that it was the only one from which building timber was exploited for Fort Sandeman or elsewhere. The existing dead wood of this forest would be sufficient for the purpose for some years and when finished, Shín-ghar could continue the supply and finally the Takht-i-Sulaimán forest might be indented on. Parai *chilghoza*

**FORESTS.** forest should, he said, be also closed to grazing, grass and bush cutting and seed collection. Bhai Sádhu Singh, after inspecting the forests in 1904, proposed that all the best stocked forests of *chilghoza* trees might eventually be reserved. He found that a large number of seedlings were growing under the thick shade and protection of shrubby growth, a fact which corroborates the views of Mr. Down concerning the injury to regeneration by heavy grazing. Mr. Stebbing, Forest Entomologist to the Government of India, visited the Forests in 1905 and wrote an interesting note\* on the *chilghoza* bark-boring beetles, which were doing considerable damage to the Shín-ghar forest. Bhai Sádhu Singh's subsequent inspection showed that in the tract called old Shín-ghar (  $5\frac{1}{2}$  square miles ) 268 trees had been recently damaged by these insects while in new Shín-ghar (  $2\frac{1}{2}$  miles ) where regular enumeration was adopted, the result was as under :—

|                                    |       |
|------------------------------------|-------|
| Saplings and seedlings ... ..      | 1,527 |
| <hr/>                              |       |
| Trees under 12" in girth at breast |       |
| height ... ..                      | 587   |
| Do. from 12" to 18" ... ..         | 1,460 |
| Do. from 18" to 24" ... ..         | 1,447 |
| Do. from 24" to 30" ... ..         | 860   |
| Over 30" ... ..                    | 357   |
| Dead trees .. ... ..               | 982   |
|                                    | <hr/> |
|                                    | 5,693 |
|                                    | <hr/> |

Grand Total ... 7,220

Trees found recently affected with insects,  
cut down and burnt ... .. 82

From these figures both the regeneration and excessive mortality are evident.

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\* A Note on the *Chilghoza* (*Pinus Gerardiana* Bark-boring Beetles of Zhob, Baluchistán, by E. P. Stebbing, F. L. S., etc. ( Calcutta : 1905. )



This is a large gregarious tree met with at elevations of **FORESTS.** from 8,000 to 11,000 feet. Tar is extracted from it. Its timber is also used to a small extent. It is found on the *Pinus excelsa* Tor-ghar hills as well as on Takht-i-Sulaimán. (*nashtar*).

*Acacia modesta* (*palos*) grows on the steep slopes of the *Acacia modesta.* Dahánasar, where it is found mixed with a scattered growth of *chilghoza*. It is a middle-sized tree and produces good charcoal.

Ash is generally found mixed with pistachio, olive, etc., **Ash.** but it is nowhere gregarious.

Among minor products may be mentioned cumin seed, **Minor pro-** hyssop, rhubarb, asafoetida, and the plants known locally as **duce.** *réwand chíni* and *malkhozai*.

A gregarious herb (known as *zíra*) which grows wild in **Cumin seed** the Shín-ghar and Tor-ghar hills in Kila Saifulla and in the **(Cuminum** Hindubágh and Fort Sandeman tahsils. The herb becomes **cyminum).** green in early spring and about the end of March the stem appears and is followed by white flowers. The seed or fruit ripens in June, when men, women, and children repair to the hills and pull out the plants, which when dry are threshed with a stick and the seed separated. As a medicine cumin seeds are considered aromatic, carminative, and stimulant. They are also stomachic and astringent and useful in dyspepsia and diarrhœa. The principal use of the seeds is as a condiment. The annual produce in a year of good rainfall is about 1,600 maunds and the average selling price is about Rs. 8 a maund. During 1899-1900 experiments were made in the District in the cultivation of *zíra*, but they almost all proved unsuccessful.

The herb (*zífa*) grows in the hills in the Hindubágh and **Hyssop** Fort Sandeman tahsils. It sprouts in the beginning of **(Hyssopus** April and is gathered about the end of May. The annual **officinalis).** produce in the District is about 100 maunds and it sells for about Rs. 10 a maund. The herb is used in *sharbat* as a cooling beverage in cases of fever.

- FORESTS.** Rhubarb (*pushai*) grows plentifully in years of good rainfall in the hills in the Hindubágh and Fort Sandeman tahsils. It ripens in May. The stem is generally eaten raw after the skin has been removed and has an acid taste. It is also cooked with flour of wheat, barley, or maize, and a sort of porridge is prepared. A preparation of the leaves which is called *aryae* is much eaten by the poorer classes.
- Rhubarb**  
(*Rheum emodi*).
- Heward chini**  
(*sakhrayi*). This plant grows all over the plains and mountains in the Hindubágh tahsil. Though abundant in years of good rainfall it is also to be found in dry seasons. It is a medicinal herb used for its curative properties in itch. It is also administered with water to infants in stomach complaints and inflammatory conditions of the skin.
- Mal Khozi**  
(*mulathi*). This herb is common in the Hindubágh tahsil. It is used in the treatment of cough and other chest complaints.
- Asafoetida.** This plant occurs in small quantities in the Zhizhabázhah hill, a continuation of the Spín-ghar range, lying east of the Husain Nika shrine in the Fort Sandeman tahsil. It is used as a drug.
- Arboriculture.** The planting of trees along the road sides at Fort Sandeman was begun in 1891-2 when a sum of over Rs. 450 was expended from Provincial Revenues for planting on the station roads. Up to 1903-04 the expenses were met from these revenues, but from April, 1904, the charge has been transferred to the Fort Sandeman Bazar (Excluded Local) Fund. Greater attention has been paid of late years to the improvement of arboriculture. The principal trees on the roads at Fort Sandeman consist of poplars, mulberries, and wild willows. There are ten gardens at Fort Sandeman, the principal one being the Government Garden maintained by the Fort Sandeman Bazar (Local) Fund. A piece of culturable land measuring about 6 acres situated to the east of the hill, on which the Political Agent's Bungalow stands was converted into a garden in 1904. A large number of fruit-trees have been planted in it. Trees were also planted in the compounds of the various rest houses in the District in 1900

The minerals of commercial value found in the District MINES AND  
MINERALS. are salt, asbestos, chromite, coal, and saltpetre.

Salt is manufactured or produced at the Jalálzai, Daulatzai, Salt, Sibzai, Mírzai, and Ghorézai *maltanis* (salt tracts) in the Kila Saifulla tahsíl, lying in the hills to the north of the Zhob valley and held by the Daulatzai, Sibzai, Ghorézai, and Jalálzai Kákars; in Huramzai in the Fort Sandeman tahsíl; and in the country of the Lawánas in Kamr-ud-dín Káréz in Hindubágh. In Kila Saifulla pits (*kishta* or *kiáris*), are dug in the land impregnated with salt and filled with water. After fifteen or twenty days the water evaporates and a crust of salt remains. Salt is generally made in summer but can also be made in fair weather in winter. In Fort Sandeman a quantity of salt impregnated earth is put in a vessel and water mixed with it. The water evaporates and the residue is used as salt. In Hindubágh salt is not manufactured, but saline efflorescence is collected and used as salt. In Kila Saifulla a tenant has to pay from one-fourth to one-half of the out-turn as rent of the land to the proprietors. The manufacturers are everywhere local men. Samples of salt manufactured in the salt tracts in Kila Saifulla were examined in January, 1897, by the Chemical Examiner, Punjab, and were found to contain from 81 to 91 per cent. of sodium chloride. The annual estimated out-turn of salt in Kila Saifulla is 1,300 maunds, in Hindubágh 600, and in Fort Sandeman about 100 maunds. Indians temporarily settled in bazars and tahsíl head quarters use the Punjab rock salt. The local or Zhob salt is used by the people in the Zhob and Loralai Districts and in the Sháhrig tahsíl of the Sibi District. It is also exported to Tarnak and Arghandáb in Afghánistán. No duty, or restriction, has yet been imposed on Zhob salt. The local salt is generally bartered for grain and at the *maltanis* it sells for about Rs. 1-4-0 a maund.

Chrysolite also known as fibrous serpentine or Canadian Asbestos, asbestos, occurs in large quantities amongst the intrusive serpentines that border the Zhob valley, both to the north

MINES AND  
MINERALS.

and south, and which from there extend westward into the Pishin District and east and north-east as far as the Tochi valley. The mineral is particularly abundant north-west of Hindubagh near Tilérai Ján Muhammad on the road to Murgha Fakírzai, where it fills a complicated net work of cracks of all dimensions which seem to result from the shattering of the serpentine rocks. Several hills consist entirely of this curious formation.

Samples were sent for examination to Mr. W. R. Dunstan, Director, Imperial Institute, London, who supplied the following information in June, 1903 :—

“This sample (No. 16026 sent from Zhob District in Baluchistán) consisted of Asbestos fibre, contaminated with much extraneous mineral matter. The fibres were white, soft, fairly strong, and resistant to heat. As it was evident that the fibre in this sample if separated from the associated mineral matter, would be more valuable, a selected specimen (afterwards referred to as No. 16026-A) was prepared for submission to experts. The samples were submitted for commercial valuation to two of the principal firms of asbestos manufacturers. The reports thus obtained agree in stating that with the exception of the specimen No. 16026-A already described as selected at the Imperial Institute from the crude sample No. 16026, none of the samples of asbestos are of any commercial value. No. 16026-A was valued at about £2 10s. per ton. It is possible that the poor quality of the samples was the result of the asbestos having been weathered and a better material may be obtained by mining at a lower level, where deterioration as the result of exposure to the atmosphere could not take place. It may be mentioned for the information of those interested in developing a trade in Indian asbestos, that asbestos to be used for manufacturing purposes should be free from grit and foreign mineral matter, should be of fairly long fibre and should not be affected by heat or acids. The most important requirement, however, is that the fibres should possess

sufficient tensile strength to be carded and spun into yarn. Short fibre asbestos is only suitable for the preparation of non-conducting packing materials and the manufacture of asbestos board, and even for such purposes the requirements of purity and high tensile strength of the fibres are also necessary.”

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Chromite exists near two places in the Torjang hill, viz., Chromite. Inzargai and Amrán; also at about  $5\frac{1}{2}$  miles from Hindubágh on the road to Spéarágha and at a spot 14 miles south-east of Hindubágh on the Chinjan road. Leases for working the chromite in three out of the four localities were obtained by Mr. C. R. Lindsay, and that for the locality on the Spéarágha road by the Baluchistán Mining Syndicate. The former has done no work, while the latter worked the mine for a while and then abandoned it. The chief difficulty seems to be the cost of carriage from the mines to the nearest railway station at Khánai.

The following report on the Chromite of Baluchistán was written in 1906 by Mr. G. H. Tipper, Assistant Superintendent of the Geological Survey of India.

The chromite of Baluchistán was discovered by Mr. Vredenburg of the Geological Survey in 1901. His original report cannot now be traced. From Khánózai to Hindubágh are great exposures of gabbro and serpentine of upper cretaceous age. The gabbro, a basic intrusive rock, is the true home of the chromite in which it occurs as a primary constituent. Chromite does not occur in the gabbro in masses of economic value. The change from gabbro to serpentine by hydration allows of the segregation of the chromite into ore-bodies of payable size. It is in the serpentines only that valuable chromite is found. The serpentine is a fairly hard massive rock. The chromite occurs in pockets in the serpentines. No continuous veins were noticed, but the pockets seemed to be situated on a N.-E. to S.-W. line, so that the discovery of one deposit probably leads to the location of another. The ore being a

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dark crystalline mass, it is easily recognised. It is usually in sufficiently large quantities to be extracted with little or no sorting. Observations made in this laboratory give its specific gravity as 4.297 and the percentage of chromium sesquioxide as 54.11 per cent. Many specimens range even higher in the amount of oxide. At the present time Khánozai is the only locality at which ore is extracted. Hindubágh is apparently too far from the Railway for convenient transport. At Khánozai the mines are not yet beyond the open quarry stage. The method seems simply to quarry away the serpentine until a deposit of chromite is exposed when it is extracted and so on. Transport is entirely by camels. Labour is chiefly Pathán. The number of men employed is inconsiderable. The working is restricted to the months during which the quarries are free from snow. The output is not very large and is available. This is due to the limited market, to the short time during which quarrying can be carried on, to variations in the size of the pockets, and to the difficulty in locating them.

With regard to the possibility of an increased and continuous supply of chromite it is very difficult to express any opinion as the ore has not yet been proved to any great depth. There is one point which it is necessary to emphasise. The area over which concessions for mining have been granted is very small in comparison with the total out-crop of serpentine in which chromite may be expected to occur. Extended prospecting operations would almost certainly lead to the discovery of more chromite deposits.

Saltpetre.

Saltpetre is manufactured generally in winter by individuals in Kila Saifulla for their own use and there is no trade in it. Salt impregnated earth is taken and put in a vessel filled with water, and allowed to stand for a day and night. When the earth has settled down, the saline water on the surface is taken off and boiled till it thickens. it is then poured into another vessel, and put in a cool

place, when it condenses. The water is thrown away and gunpowder made from the saltpetre. MINES AND  
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Coal is found in Maltani Mir Alam, Sikandar Sari, and Spñu-ghar, in Kila Saifulla. It was first noticed at Maltani Mir Alam in June, 1899, when a well was being dug to provide the saltpan with water. A specimen was examined by Mr. G. Henderson, of the North-Western Railway, who, after making rough experiments with it, considered it useless. At his suggestion, however, a heading was put in in November, 1899, with the result that traces of two small veins of about  $\frac{1}{2}$  square inch in section were followed up. One of them ended without any increase of section beyond 6 inches. The other did not end as far as excavation went, but showed no sign of increase in volume or of improvement in quality. It was, therefore, concluded that there was no probability of coming upon a workable vein. Captain A. L. Jacob, Assistant Political Agent, Zhob, visited the locality again in 1900 and reported that all that could be got out was shingly earth and stones with here and there a trace of what seemed a very inferior coal; and that it did not seem worth while spending more money in trying to follow up the vein. He also visited Sikandar Sari and obtained a specimen of coal which was found to be of very inferior quality. Captain Jacob also visited another place in the Perchi hill and found a vein of apparently good coal about a yard wide by 9 inches thick; there were distinct traces of the vein running horizontally in the side of the hill for quite 8 yards, after which it disappeared into the hill. There was a small spring of water within a quarter mile of the spot where the coal vein exists. The place was, however, difficult to get at and it was calculated that the working expenses plus carriage to Khánai railway station would raise the price to over Re. 1 a maund—a prohibitive price. Coal.

In the summer of 1902 when Major C. W. Jacob, Commanding the Zhob Levy Corps, was on a tour of

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inspection of the Zhob Levy Corps posts in Kákar Khurásán, he was given some pieces of coal and bismuth and informed that these minerals abounded in a part of Kila Saifulla tahsíl, near the Késhatu post on the border. An analysis of the pieces in the office of the Geological Survey of India gave the following result :—

|                 |     |     |                |
|-----------------|-----|-----|----------------|
| Moisture        | ... | ... | 5·63 per cent. |
| Volatile matter | ... | ... | 33·08 „        |
| Fixed carbon    | ... | ... | 42·24 „        |
| Ash             | ... | ... | 19·05 „        |

---

Total ... 100·00

This analysis makes it inferior to the coal worked by the North-Western Railway at Khost and it was evident that it would only pay to work the coal for purely local consumption. The ore sent as bismuth was examined by the Reporter on Economic Products to the Government of India who found it to be iron pyrites containing 43·86 per cent. iron and 41·99 per cent. sulphur, and that the iron ore was not a good one. The coal found at Spín-ghar about 50 miles north-east of Kila Saifulla is reported by the Mining Overseer, Baluchistán, to be good and with better heating power, than that of the Sor range in the Quetta-Pishín District.

The following report on coal in the Zhob District was furnished in 1906 by Mr. G. H. Tipper :—

“ The coal occurs on the slopes of the Spín-ghar, Toi river, Zhob District, latitude 31° and longitude 68° 46'. It is about 50 miles from Kila Saifulla and 130 from the Railway. There is no practicable road into the Zhob valley.

“ The geological formation is a series of soft green shales and sandstones, which are known as the Laki group. It is the same as that in which all other Baluchistán coal is found. At the time of my visit the out-crops were much obscured by debris and as no coolies were available, it was difficult to make out all the details of the occurrence.



‘ Only two exposures could be examined. The seam is thin, not more than 2 feet thick. The strike seems to be from north-east to south-west and the dip high. The roof and bottom of the seam are two layers of soft sandstone.

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“ The coal which has been crushed is splintery and of a bright black colour. It burns with a clear, bright flame.

“ An analysis made in this laboratory gave the following result :—

|                    |     |     |        |           |
|--------------------|-----|-----|--------|-----------|
| Moisture           | ... | ... | 3·67   | per cent. |
| Volatile matter... | ... | ... | 39·14  | „         |
| Fixed carbon       | ... | ... | 51·89  | „         |
| Ash                | ... | ... | 5·30   | „         |
|                    |     |     | 100·00 |           |
| Total              | ... | ... | 100·00 |           |

“ Colour of the ash light grey. Cokes strongly.

“ This analysis shows that this coal is similar in composition to other Baluchistán coals.

“ Considering the distance of the locality from any large centre and the difficulty of mining a thin seam in such a poor rock I do not think that the coal can be of any value at present. In the event of a Railway being built through the Zhob valley, the locality would be worthy of further notice.”

Oil springs have been found near Mughal Kot in Dahána Sar. The quality of the oil has been pronounced to be excellent, but further examination of the neighbourhood by a geologist is necessary to prove whether petroleum exists in workable quantity in the District.

Miscellaneous  
products.  
Petroleum.

Mill stones can be got from the Tang Haidarzai hill in Kila Saifulla. Building stone abounds in the hills south-east of Fort Sandeman.

Embroidery is common among the Afghán women in the District and before the British occupation was generally done in cotton, but now silks are largely used for the purpose. It is of many varieties, but unfortunately the products have been much damaged by the introduction of aniline

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dyed silks. The work is done on the sleeves, collars, backs, shoulders and pockets of women's and children's shirts. Men's shirts are also sometimes embroidered as well as the women's wrappers, especially the head portion, handkerchiefs, caps, antimony-pouches, and trouser strings. Thirty-four designs are known among the Sanzar Khéls, the best being the *chakan* embroidery on collars and sleeves, and on women's shirts; and the *tarbúzae* worked on women's breast-pieces and on antimony-pouches. The Sanatias of Hindubágh know eighteen varieties, the best being the *jowaki* work on the shoulders of men's shirts, the *drakhta* on the women's breast-piece and *kári tsútski* done above the *drakhta*. The Mando Khéls have twenty designs, of which the *gul* embroidery worked on the back of children's shirts and *táwiz* done on the collars of men's shirts are considered the best. The Shíránis also know fourteen varieties, of which the *garéwán gul* on breast-pieces of women's shirts and *loi tsat* on the backs of men's shirts are much valued. Some of the Sanatia women have also learnt gold embroidery work.

Carpets and  
other woollen  
fabrics.

Rugs (*kamballa*) in the *darri* stitch and generally striped, are manufactured by a class of professional weavers known as *péshawar*. The wool is cleaned, spun, and dyed by the owners and then a *péshawar* is called in to manufacture the *kamballa*. The following description of the processes followed is adapted from a memorandum by Mr. B. A. Gupte, Assistant to the Director-General of Ethnography in India:—

The wool, which is either of sheep or camels, not of goats, is spun by the women and the only implement used is the *charbhae*. It is a spindle of the most primitive type, made of a pair of pieces of wood crossing each other at right angles, with an upright handle fixed at the joint which has a notch in it. A bundle of thread is called *spandakh*. The loom (*kanras*) is equally primitive, although the work turned out is very clever. It consists of four pegs, fixed in the form of an oblong, the breadth being about 3 feet and the length 9 feet. Between the first two pegs, called

*mazhwae*, is tied the beam named *sar largae*. Another beam is similarly tied to the pegs at the other end called the *páe largae*.

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Before commencing work, two poles are set upright in a triangle over the warps about 3 feet from the first beam. They are called *burgar*, and are held in position by a rope stretched above the warp and fastened to two pegs beyond it at either end. To the triangular *burgar* is tied a horizontal cross beam called *kasho largae*. To the *kasho largae* are attached by ropes, two or four curved or triangular sticks (*wázas*) which regulate the action of the heddles. The strings connecting the heddles (*wori*) with the curved sticks on the cross beam, are called *kasho palao* or *kasho tanráo*. As the weaver goes on weaving the carpet, he has to tie the outer ends of the borders to two sticks which are tied together and form a stretcher. They are called *lindai*. The stretcher is moved forward as necessity requires. The comb with which the weft is driven home is called *zhamunz*. Armed with this the weaver proceeds by passing each thread of the warp through the heddles in the way he has been carefully trained to do in order to regulate the designs. He has no plan nor can he recount or sing the numbers, as pile-carpet weavers do, and he can produce only a few geometrical designs. The warp is called *warolga*, when arranged. The weft when laid is called *nas*. It will thus be seen that a distinct name is used for each of the materials used and even the weft thread, before it is passed through the warp or "laid" is distinguished by a separate name, *pot*. The fabric is known as *sargah*, when the designs run both lengthwise and crosswise, and *khatti* or *naqshi*, when the design only runs crosswise; plain work is called *sáda*. One end of each of the threads of the warp is tied to the first beam, and the other to that at the farthest end. The heddles are next tied with the *kasho palao* to the cross beam. In cotton weaving, and even in woollen blanket-weaving in other parts of India, sizing is the first

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process, but in carpet-weaving it is not necessary, and no size is used as the outer ends of the "hair" or wool have to be left loose to cover the interstices. The weft-thread is carried through the warp-thread by the weaver with a shuttle (*skhustae*) and passed in and out in accordance with the design he carries in his head. It is then pushed home or "laid" with the comb (*zhamunz*). The process is tedious. The *péshawars* generally work in couples, and they finish a *sargah* carpet, 2 yards\* by 3 yards, in about a month; a *khatti* or *naqshi* in a fortnight and a *sáda* in three to four days. When the carpet is ready, the women embroider it with shells or bones. The other articles manufactured in much the same way are the following, though the methods used are rougher:—

- (1) Blankets for *kizhdís* (*tágae*).
- (2) *Ghíndae* or *ghundae* (sacks).
- (3) *Latnrae* (pillow cases).
- (4) *Khurjins* (horse saddle bags).
- (5) *Sarai* (blankets).
- (6) *Kundarae* or *bakhtai*, woollen cloth for placing bread on.
- (7) *Panzai* for keeping baked loaves of bread.
- (8) *Aringai*, placed under a hand-mill when corn is ground.
- (9) *Tobra* (horse nose-bag).
- (10) *Táng* (horse girth).

Ropes are also made in the District by the women from camel or goat's hair. In Kila Saifulla each hamlet has a *péshawar* of its own who is reckoned as a village servant and is given by each family, a milch goat or sheep as his fees (*luazghi*) which he returns when dry; the flockowners also give him once a year the wool of a single sheep or As. 8 in cash. The *péshawar* does not charge them for making nose-bags, horse girths, and *panzai* or cloth for keeping bread in. In other parts of the District the weavers

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\*The yard used is of 43 inches.

move from village to village, get their food when employed and wages for piecework. The Sanatia Kákars of Hindubágh pay cash wages in a lump sum varying from Rs. 10 for a carpet about  $1\frac{1}{2}$  by 3 yards to Re. 1 for a *ghundi* or sack, the tent pieces (*túgae*) being paid for at As. 4 a yard. The Sanzar Khéls of Hindubágh and the people of Kila Saifulla and Fort Sandeman generally pay the weaver's wages in grain which vary according to the nature of the work, from 40 *kásas* of wheat for a carpet to  $\frac{1}{2}$  a *kásu* for a *balhtai*.

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In pre-British days when cloth of every kind was scarce, Felt and felt coats formed the principal article of male attire and *Kosae*. this is still the case among many of the poorer classes of Kákars. Felt or *krásta* is made of sheep's wool by the women for local use by a simple process. The sheep are first washed and then shorn by the men, all other processes are carried out by the women. After shearing, the wool is well beaten with pomegranate, tamarisk or other sticks, cleaned and made into parcels of about 2 seers each. The process of cleaning is locally called *khapan*. The cleaned wool is then wrapped round a stick, and is called *waránga*. A thin *darri* of the required size is spread, and small pieces of wool are laid by the women over the whole of its surface after which a second layer is added. If a variegated *krásta* is to be made, coloured wool is used. Warm water is sprinkled over the layers of wool thus prepared, and the *darri* is then carefully and securely rolled up, after which it is rubbed and pommelled with vigour. Every half hour or so a glance is taken to see if the wool has begun to felt and more warm water is added; after felting, the *krásta* is taken out and placed in the sun to dry. This process is continued for three days, more wool being added each time, until the felt is ready for use. Its compactness depends on the rubbing it receives. If a large *krásta* is to be made, the womenfolk from among the neighbours are called in to assist, and are given food. The women of the Ghilzai

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nomads, who periodically visit the District, make a superior kind of *krásta* which is sometimes offered for sale. These are generally well felted and are occasionally ornamented. Long coats ( *kosae* ), and short coats ( *grátai* ) are cut out of the felt and sewn with a large needle and woollen thread. The sleeves are generally closed at the ends, the coat being worn as a cloak with the sleeves depending.

**Copper work.** There is a coppersmith ( *misgar* ) in the Fort Sandeman bazar, who carries on a brisk trade. The copper is imported from Sind and various kinds of utensils and pots are manufactured and sold by the weight. The vessels which are most in demand in the District are the *gadwa* and *badnai* ( jugs with spouts ). The *gadwa* is to be found in almost every household, and it sells at Rs. 2 to Rs. 4, while a *badnai* costs from Rs. 1-4 to Rs. 2. Next to the *gadwa* and *badnai*, the copper vessels in use are the *dégs* ( cooking pots of various sizes ). The people of Kila Saifulla and Hindubágh get their vessels from the Fort Sandeman bazar or the bazars at Quetta, Pishín, and Loralai.

Silver and  
gold smiths.

There are a few goldsmiths, chiefly Punjábis, in the Fort Sandeman bazar, who work mostly for the Indian population. In the District Ghilzais work as goldsmiths and have shops in important villages in the Fort Sandeman tahsíl, six shops in the Kila Saifulla tahsíl and two in Sanzili in the Hindubágh tahsíl. They make the few ornaments used by the local people, chiefly made of brass and zinc and some of silver. The average rate of wages charged is one-fourth of the silver made into ornaments, or As. 3 to 4, per tola. Generally people who want silver ornaments made for them, use for the purpose the coin known as the *Kábuli*, it being not common to supply silver in bullion.

**Leather work.** Shoes imported by the Hindu shopkeepers and Násars from Multán have come largely into use in the District. The poorer classes use *gaulis* or *tsaplis* ( sandals ) which are made locally from raw skins and cost from R. 1-4 to

Rs. 2-8 a pair. Other leather articles made by the local women everywhere in the District are the *banai* or skin for storing flour and household articles, the *gudae* or water-skin, the *wuzan* or skin for keeping *ghí*, and the *gharak* or skin for churning curds. Into a sheep or goat skin 2 seers of crushed barley are put. On the third day the barley is taken out, and the skin is well rubbed with the hands and against a wooden peg stuck in the ground. When the skin is dry it is ready for use as *banai*. It is sometimes coloured in an infusion of dry leaves of apple or of *loarand* (madder), and embroidered with shells or bones. Such coloured *banais* are given as marriage presents to a bride on her wedding. For curing a *gudae* or *wuzan* the *uma* (*Ephedra pachyclada*) twigs are beaten and put into the goat's skin which is filled with water. The process is repeated every week. After the third week the skin is fit for use. *Gharak* (skins) are cured with the plant known as *shorae* (*Haloxylon griffithii*). About 3 seers of twigs are beaten and put into a skin with water. After a week the water and twigs are taken out and fresh water mixed with ashes of the *shorae* is then put in the skin for an hour when it is fit for use.

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In the Fort Sandeman tahsil the Mando Khéls and Shiránis make *postins* or sheep-skin coats for themselves, the method of dyeing skins being as follows:—

If the hide is fresh, about 2 chittacks of saltpetre are sprinkled over it, but if the skin is dry, it is first moistened with water and then saltpetre sprinkled over it. The skin is then carefully wrapped up. On the following day the skin is unfolded, sprinkled with water, and again rolled up. On the third day the saltpetre is shaken out, any pieces of flesh which may have adhered to the skin are scraped off with a piece of stone and the skin well rubbed with the hands till it is soft. A dough is then made of barley flour and applied to the skin, which is rolled up and kept for two or three days, when the dough is removed, the skin rubbed,

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and dried. When twelve or thirteen such skins are ready, about 4 seers of *shinae* ( pistachio nut ) are well powdered, mixed with water and made into a paste, each hide being plastered over with it, and kept thus for two days. On the third day the plaster is shaken off and the skins are rubbed with the hands. About 4 seers of the root of the *spinda* ( *Peganum harmala* ) plant are then well powdered and boiled. A dough is prepared by mixing this decoction with the articles named below and kept for a day: 4 seers of the rind of sour pomegranate, 2 chittacks of alum and a chittack of turmeric well powdered and mixed. On the next day half of this preparation is put in a vessel containing water sufficient to turn the whole into a paste. This paste is then made tepid and applied with the hands to the skins, which are again wrapped up and kept for a day. Next day, the remaining half of the paste is similarly applied and the skins are again rolled up and kept for two or three days. The plaster is then shaken off and the skins are rubbed with the hands. The whole process turns the skins yellow. If *shinae* is not available for dyeing, the pomegranate rind, alum and about half a seer of *ghi* are used for the purpose. When the skins have been thus dyed they are cut into suitable sizes by an expert, and the women sew the pieces together. When the *postin* is ready, it is lightly wrapped up and tied so that it shall not get creased, and kept in this condition for two or three days when it is fit for use. Excepting the cutting, all other processes are done by women. Twenty skins of lambs or twelve of sheep make one *postin*. A *postin* made from sheep skins costs between Rs. 6 and 10 while one made of lambs' skins costs from Rs. 10 to 15. Red wool *postins* are preferred to others.

## Dyeing.

The Fort Sandeman bazar has three shops of alien dyers who now and then visit the villages and dye clothes, cloth, and wool there. Cloths are generally dyed black in this tahsil, the charge being one anna per yard. Wool is dyed in all colours at the rate of As. 4 a seer. Several women in



each village in the District know the art of dyeing wool. The Sanzar Khél women, however, are more expert in the art. ARTS AND  
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The colours generally used are *shin* (blue), *súr* (red), *zarghún* or *malaghún* (green), *tor* (black), and *zhar* (yellow).

The *spína zamai* plant occurs largely in the lands of the Bútozais in Kila Saifulla, and the Násar nomads make *khár* or crude carbonate of soda from it in August and September. The quantity manufactured is, however, small and is only for home consumption. A description of the method of manufacture will be found on page 188 of the Quetta-Pishin Gazetteer. Crude carbon-  
ate of soda.

Násar Powindahs bring from the Dámán bowls and Pottery. which they barter for wool. The earthen pots in common cups use are few and are made by local women for their own use; the poorer women also make them for sale. The price of a large *katao* (cooking pot) is from  $1\frac{1}{2}$  to 2 *kásas* of grain, of a small *katao* or a *gontai* from  $\frac{1}{2}$  to  $\frac{3}{4}$  of a *kása*, of a *kúzae* or *balnai* (water-bowl with spout) from 1 to  $1\frac{1}{2}$  seer and of a *kundae* (trough for kneading dough or leavening yeast) from  $1\frac{1}{2}$  to 3 seers of grain. The price of a *lwughai* or *lástawae* (milking-bowl), and of a *kénjæe* (bowl without spout) and *jarai* or *sharombai* is its capacity in grain.

Trade is not systematically registered in the District and no reliable data are therefore available. The trade divides itself into two main heads—(a) the Powindah trade with Afghanistan and (b) trade with Indian Districts, and districts in Baluchistán. Considerable transit trade between Afghanistan and India has passed through the District from a very early period by the Gomal, Záo, and Dahána Chúhar Khél passes and the passes between Kamr-ud-din Káréz, Késhatu, and Tirkhawar, and by the Domandi route. The amount and the character of this trade has thus been mentioned in the Gazetteer of the Déra Ismáíl Khán District: COMMERCE  
AND TRADE.  
Powindah  
trade.

“There are no very reliable statistics as to the extent of

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the Powindah trade. The following figures are the best estimate obtainable of the principal articles of import and export, and of their annual value:—

| <i>Imports..</i>        |     |     |     | Rs.           |
|-------------------------|-----|-----|-----|---------------|
| Fruits, dried and fresh | ... | ... | ... | 7,00,000      |
| Madder                  | ... | ... | ... | 6,00,000      |
| Raw silk                | ... | ... | ... | 5,00,000      |
| Wool                    | ... | ... | ... | 1,50,000      |
| Charas                  | ... | ... | ... | 1,00,000      |
| Horses                  | ... | ... | ... | 65,000        |
| Hing (Asafoetida)       | ... | ... | ... | 50,000        |
| Tobacco                 | ... | ... | ... | 30,000        |
| Total Imports...        |     |     |     | Rs. 21,95,000 |

| <i>Exports.</i>                      |     |     |     | Rs.           |
|--------------------------------------|-----|-----|-----|---------------|
| Indigo                               | ... | ... | ... | 6,00,000      |
| Manufactured cotton goods (English)  | ... | ... | ... | 5,00,000      |
| Manufactured cotton goods (country). |     |     |     | 6,00,000      |
| Tea                                  | ... | ... | ... | 1,00,000      |
| Shoes and leather                    | ... | ... | ... | 40,000        |
| Salt                                 | ... | ... | ... | 20,000        |
| Sugar                                | ... | ... | ..  | 20,000        |
| Metal goods                          | ... | ... | ... | 20,000        |
| Crockery and earthenware             | ... | ... | ... | 7,000         |
| Total Exports...                     |     |     |     | Rs. 19,07,000 |

The centres of the Powindah trade in Khurásán are Bokhára, Kábul, Kandahár, and Ghazni. The following are the principal articles of merchandise brought from each:—

Bokhára.—Silk, charas, gold and silver thread (*kalábatún*) and furs.

Kábul.—Pistachio nuts and fresh fruit of sorts, such as apples, grapes, etc.

Kandahár.—Almonds, pistachio nuts, raisins, dried fruits, and wool from the Kákar country.

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Ghazni.—Madder, wool, *ghi*, tobacco, and asafoetida." \* COMMERCE AND TRADE.

The chief articles now imported from Afghánistán by the Powindahs by routes other than the Gomal for which no statistics are available are wool, fruits of sorts, and *ghi*, while the exports to that country by these routes largely consist of piece-goods (English and Indian), tea, and sugar.

The following table shows the principal items of the import and export trade between Afghánistán and Zhob, via Kamr-ud-dín Káréz during 1904-05 :—

| Name of Article.         | Quantity.                          | Value.   |
|--------------------------|------------------------------------|----------|
|                          | Maunds.                            | Rs.      |
| <i>Hinlubágh Tahsíl.</i> |                                    |          |
| <i>Imports.</i>          |                                    |          |
| Wool ... ..              | † 3,770                            | 74,045   |
| Raisins ... ..           | 5                                  | 50       |
| Almonds ... ..           | ‡ 1,743                            | 23,395   |
| Hides ... ..             | 25 loads                           | 3,500    |
| Ghi ... ..               | § 1,557                            | 34,560   |
| Madder ... ..            | 10                                 | 100      |
| Cumin seed ... ..        | 35                                 | 350      |
| Total ... ..             | 7,120 and<br>25 loads of<br>hides. | 1,36,000 |

\* Dera Ismaíl Khan District Gazetteer (1883-84, pp. 142-43).

† 290 maunds taken to Quetta and rest for Karachi.

‡ 257 " " " " " " " "

§ 352 " " " Pishin " " " "

COMMERCE  
AND TRADE.

| Name of Article.                  | Quantity.                       | Value.    |
|-----------------------------------|---------------------------------|-----------|
| <i>Hindubágh Tahsil.</i>          |                                 |           |
| <i>Exports.</i>                   |                                 |           |
| Muslin, Chintz, etc., cloth... .. | 247½                            | 12,29,900 |
| Tea, green ... ..                 | 2,124                           | 2,13,239  |
| Sugar ... ..                      | 770½                            | 6,178     |
| Stationery ... ..                 | 100                             | 4,000     |
| Misri tala ... ..                 | 500                             | 5,000     |
| Crockery ... ..                   | 13½                             | 350       |
| Dates ... ..                      | 110                             | 440       |
| Oil, bitter ... ..                | 11                              | 120       |
| Total ... ..                      | 3,876½                          | 14,59,227 |
| <i>Kila Saifulla Tahsil.</i>      |                                 |           |
| <i>Imports.</i>                   |                                 |           |
| Ghf ... ..                        | 11                              | 349       |
| Almonds ... ..                    | 6½                              | 107       |
| Krut (dried curds) ... ..         | 2½                              | 20        |
| Raisins ... ..                    | ½                               | 7         |
| Postíns ... ..                    | No. 35                          | 468       |
| Sheep ... ..                      | No. 41.                         | 427       |
| Total ... ..                      | 20½<br>35 postíns.<br>41 sheep. | 1,378     |

No regular arrangements exist for the registration of this trade, and the figures given above which have been compiled from reports furnished by Levy clerks are not absolutely reliable.

Statistics of the trade going via the Gomal are not available and no comparison can be made of the existing state of things with those of the previous years. In this connection, the following comments made by Mr. Merk, late Commissioner of the Déraját, on the external trade of the Déra Ismáíl Khán District for 1900-01 are noteworthy. He said: "No doubt the Gomal is the most direct route to Khurásán, but that and all other routes which gave access to Khurásán in the days when there was no railway to Chaman, when the Nushki route to Seistán was still undeveloped and before goods came to be sent via Batoum to Northern Khurásán are being slowly and surely abandoned by through traffic for the more modern lines. I take it that the trade now passing through the Tochi, Gomal, Chúhar-khél-Dabána pass, and via Khar simply represents the wants of the population living east of the line Khelát-i-Ghilzai to Ghazni, and that for purposes of commerce with the tracts and countries west of that line, these routes are and will remain in future useless."\*

COMMERCE  
AND TRADE.

In 1901-02 the Commissioner of the Déraját computed that during the Powindah migration some 50,000 souls and 150,000 animals traversed the Gomal pass. A large portion of the trade from Afghánistán finds its way to the North-West Frontier Province and the Punjab; part of it, however, comes to Zhob and the adjoining Districts of Quetta-Pishín, Loralai, and Sibi.

A rough estimate shows that the Hindubágh and Kila Saifulla tahsils import annually articles of the value of Rs. 20,000 and Rs. 26,000, respectively, the chief article imported being Indian and English piece-goods which Hindubágh consumes to the value of Rs. 15,000 and Kila Saifulla to that of Rs. 20,000. A small portion of the imports comes to Kila Saifulla from the Harnai railway station through Loralai, but the larger portion for that tahsíl and

Local Trade.  
Imports.

\* *Report on the External Land Trade of the Punjab for 1900-01* (Lahore: 1901), page 4.

COMMERCE AND TRADE. Hindubágh comes from the Khánai railway station. The imports at this station in 1904 were as follows:—

| <i>Name of Article.</i>                | <i>Quantity.</i> |
|----------------------------------------|------------------|
|                                        | Maunds.          |
| European and Indian piece-goods ... .. | 633              |
| Rice ... ..                            | 190              |
| Gram and dál ... ..                    | 637              |
| Gunny bags ... ..                      | 1,245            |
| Kerosine oil ... ..                    | 74               |
| Common oil ... ..                      | 49               |
| Ghí ... ..                             | 30               |
| Dry fruit ... ..                       | 160              |
| Sugar ... ..                           | 224              |
| Gur ( molasses ) ... ..                | 263              |
| Tobacco ... ..                         | 66               |
| Miscellaneous ... ..                   | 1,030            |

Fort Sandeman. The principal items of imports into the Fort Sandeman bazar during 1904-05 were estimated as under:—

| <i>Name of Article.</i>    | <i>Quantity or Value.</i> |
|----------------------------|---------------------------|
| Wheat flour and maida      | 1,230 maunds.             |
| Wheat and other grains     | 47,810 „                  |
| Ghí ... ..                 | 1,000 „                   |
| Cloth ... ..               | 1,14,000 rupees.          |
| Grocery ... ..             | 4,000 „                   |
| Tobacco... ..              | 450 maunds.               |
| Molasses ... ..            | 1,340 „                   |
| Potatoes and onions ... .. | 970 „                     |
| Soap ... ..                | 2,200 rupees.             |
| Oil, bitter ... ..         | 150 maunds.               |
| Leather ... ..             | 7,600 rupees.             |
| Iron ... ..                | 2,400 „                   |
| Crockery, etc. ... ..      | 14,100 „                  |
| Fruit, fresh ... ..        | 590 maunds.               |
| Sugar ... ..               | 1,500 „                   |
| Goats and sheep ... ..     | 1,958 number.             |
| Wooden furniture ... ..    | 1,650 rupees.             |

Fox skins are exported from Hindubágh and Kila Saifulla to Quetta; earth salt manufactured in the Kila Saifulla tahsil is exported to the neighbouring tahsils as far as Sháhrig; and there is some trade in pistachio fruit, cumin seed, hyssop, and asafœtida, and in *chilghoza* fruit which has been referred to under **Forests**. Other articles of export are not many and consist of—(a) sheep and goats, about 1,000 of which are exported to Bori and Quetta-Pishín annually; (b) camels, about 300 of which are annually bought by the Násars from Kila Saifulla; (c) wool, the value of the annual export of which is estimated at Rs. 60,000; (d) *juári*, wheat and barley which are in good years taken to adjoining districts in Afghánistán by nomads to the annual value of Rs. 11,000; and (e) *ghí*, about Rs. 3,000 worth of which is exported to Bori and Quetta-Pishín. Hindubágh also exports a small quantity of apricot stones and of the gum of the wild almond.

COMMERCE  
AND TRADE.

Exports.

The trade of the District is chiefly with Sind, the North-West Frontier Province and the Punjab. Fort Sandeman is largely dependent for its supplies on the Punjab by the Dahána Chúhar Khél route, while the Hindubágh and Kila Saifulla tahsils receive their supplies from Sind and the Punjab via Harnai and Khánai. Fruit is imported from Sukkur and Quetta. The Loralai District also supplies to a certain extent various kinds of grain. Tobacco is imported into Zhob from Afghánistán, Mastung, Sind, and Déra Ismáíl Khán. The average annual exports by the Dahána Chúhar Khél pass during the five years ending with the 31st of March, 1905, amounted to 2,340 maunds and included almonds 563, asafœtida 448, wool 602, hides and leathers 160, tobacco 210, *chilghoza* fruit 12, *ghí* 108, cumin seed 57, liquorice 2, dry fruits 18, madder 18, and miscellaneous 142. The imports amounted to 14,562 maunds and comprised grains 11,087, piece-goods 1,376, *gur* (molasses) 760, vegetables 234, sugar 185, kerosine oil 166, salt 135, wooden furniture, etc., 119, lime 109, metals and iron

Trade  
neighbouring  
districts.

COMMERCE AND TRADE. articles 74, leather, boots and shoes 36, bitter oil 33, soap 20, earthenware 19, spices 13, acacia husk 8, fruits 4, tea 4, miscellaneous 210.

Classes engaged in trade.

The trade with Afghánistán is entirely in the hands of the Powindahs, while Hindu banias from the Déraját, Sind, and the Punjab largely command the local traffic. Besides the tahsíl headquarters and several levy posts, important villages in the District such as Murgha Mehtarzai, Kán Mehtarzai, Kanchughai, Murgha Kibzai, and Mína Bázár have shops where the banias retail the goods and buy such articles as are available for export. The transport is almost entirely supplied by the Ghilzais from Afgháuístán.

Octroi, etc. Octroi is levied at Fort Sandeman and Hindubágh, a reference to which is made in Chapter III. The Fort Sandeman bazar has a *pancháit* of the Hindu trading community, which has three *chaudris*, representing the interests of Sindhi, Déra Ismáíl Khán, and Vihowa banias, respectively. They act as spokesmen for their communities, assist Government officials in collecting bazar taxes, in arranging supplies for Government purposes and in the general management of the bazar. They also manage the *pancháit* fund. This fund is maintained by fees levied on *daláls* or brokers and is expended on charitable purposes. The *pancháit* has also to maintain shops at Lakaband, Bádinzai, Máníkhwa, Bábar, Dahána Chúbar Khél, Brunj, and Shínghar, Rs. 42 per month being paid by Government towards the wages to the men in charge of these shops and the balance by the *pancháit* fund.

Daláls.

The privilege of acting as *dalál* or broker in the Fort Sandeman bazar is sold each year by auction by the *pancháit*, the average annual income being Rs. 1,140. The business of the *dalál* consists mainly in arranging sales and purchases for foreign traders, chiefly those from Afghán territory.



They levy the following fees from both the seller and buyer :—

COMMERCE  
AND TRADE.

| Articles.                       | Fees from Sellers.                                            | Fees from Buyers. |
|---------------------------------|---------------------------------------------------------------|-------------------|
| Grain of 6 sorts.               | 6 pies per maund in cash. and 4 chittacks of grain per maund. | 3 pies per maund. |
| Ghí ...                         | 4 annas per maund.                                            | 1 anna per maund. |
| Almonds...                      | 2 „ „ „                                                       | 1 „ „ „           |
| Wool ...                        | 2 „ „ „                                                       | 1 „ „ „           |
| Rice, salt, molasses, and sugar | 1 anna „ „                                                    | 6 pies „ „        |

Transactions among the shopkeepers themselves or among the shopkeepers and local men are also liable to brokerage, provided the article disposed of is more than a sackful in quantity and in case of *ghí* and oil more than a canister. In such transactions both the buyer and the seller have to pay  $1\frac{1}{2}$  pies per maund on grains, 6 pies per maund on *ghí*, and wool, and 3 pies per maund on rice, sugar, molasses, and salt.

In the case of foreign traders the transactions carry a responsibility on the part of *daláls* to collect amounts due to them from the different purchasers. The traders are also provided with lodging and given every other reasonable help in return for the higher rates of brokerage charged them.

The survey for a line of railway from Khajúri Kach in the north-east corner of the District, through the Zhub valley to Khánai on the Sind-Pishin section of the North-Western Railway was carried out under the direction of Major (now Colonel) B. Scott, C. I. E., R. E., Engineer-in-Chief, during October, 1890, to March, 1891; plans and estimates were prepared, but the construction of the line has

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TION.  
Railways.

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TION.

not yet (1906) been sanctioned. One of the principal objects of this scheme was to provide a short route to the Déraját and the Punjab and an alternative line to the Sind-Pishín and Bolán lines in case one or both of these lines were rendered impassable. Breaches of these lines are always liable to occur in the rains, and the Sind-Pishín and Bolán lines being in close proximity to each other, the local rainfall would affect both lines at the same time.

Harnai and Khánai are the two railway stations on the Sind-Pishín section of the North-Western Railway which serve the Zhob District, the former being 168 miles from Fort Sandeman by Loralai and Murgha Kibzai, and the latter 171½ miles by Murgha Mehtarzai, Hindubágh, and Kila Saifulla. But people wishing to go from Fort Sandeman to the Punjab often use the Dahána Chúhar Khél road to Déra Ismáíl Khán ( distance from Fort Sandeman about 115 miles) the nearest railway station being Darya Khán on the Sind-Saugar section of the North-Western Railway, 149 miles from Multán City and 356 miles from Lahore.

Roads.

The south and north-eastern parts of the District are well provided with made roads, but such is not the case with the north-western portion. The details of the principal routes in the District are shown in table IX, Volume B, and table X, Volume B, contains a list of the Dák Bungalows and Rest Houses.

Harnai-  
Loralai-  
Khajúri-  
Kach road.

The principal route is that which leads from Harnai to Fort Sandeman, via Loralai, with its extension to Khajúri Kach and thence to Déra Ismáíl Khán. The total distance from Harnai to Déra Ismáíl Khán is 324 miles which is divided into four sections: (1) the Harnai-Loralai section (55¼ miles); (2) the Loralai-Murgha Kibzai section (58½ miles); (3) the Murgha-Khajúri Kach section (124 miles); and (4) the Khajúri Kach-Déra Ismáíl Khán section (86 miles). The first 22 miles (Harnai to the Ushghára Kotal) of the Harnai-Loralai section, which runs through the Mehráb Tangi and the Dilkúna defile lie in the Sibi District,

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and thence to Loralai (33½ miles) in the Loralai District. The route then traverses the Pishín-Déra Gházi Khán road for 13½ miles (Loralai to Shabozai 167½ miles from Déra Gházi Khán) and thence begins the section to Murgha (44½ miles) of which 29½ miles to Zara lie in the Loralai District and the remaining 15½ miles in the Zhob District. The distance from Murgha Kibzai (where there is a military post) to Fort Sandeman by Lakaband and Bábar is 54 miles, the greater portion of the first 21½ miles (to Lakaband) runs through hills. From Fort Sandeman the road generally follows the bed of the Zhob river and runs in a north-easterly direction to Kuchbína (56½ miles). About 8 miles further on towards Khajúri Kach it enters the Déra Ismáíl Khán District of the North-West Frontier Province; Khajúri Kach being 13½ miles from Kuchbína, the distance from Khajúri Kach to Déra Ismáíl Khán being about 86 miles. The first section was made immediately after the occupation of the Bori valley in 1887 and was subsequently metalled, improved, and made fit for wheeled traffic; its cost was Rs. 10,600 per mile and the maintenance charges (in 1905) Rs. 505 per mile. The line was extended to Mír Ali Khél (147½ miles from Loralai, and 35 miles beyond Fort Sandeman) in 1890-91 and to Khajúri Kach (35 miles) in 1891-92. The cost of the Murgha-Khajúri Kach section was Rs. 2,499 per mile, and its maintenance charges (1905) Rs. 92 per mile.\*

This road which continues through to Déra Ismáíl Khán, (approximately 115 miles) and is the main communication between Zhob and the Punjab, has a length of 47½ miles. It is cut by the Punjab boundary at Katao Dabara in the middle of the Dahána pass.

The road was first made in 1894-95 and further improvements carried out year by year from 1898 to 1905, the total expenditure apart from minor maintenance items

\* A sum of Rs. 50,000 has been allotted (1906-07) to improve the road between Loralai and Fort Sandeman.

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TION.

The Fort Sandeman-Chúhar Khél Dahána road.

MEANS OF  
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TION.

being Rs. 2,41,944. Of this total, Rs. 1,24,000 or practically half were spent in the Dahána Tangi where the narrow gorge with its precipitous sides necessitated continuous blasting along the rocky slopes to obtain a road of permanent character.

After rain the road is liable to be blocked with boulders and débris, but in its normal state it forms a good and safe route for camels and in parts can be used by wheeled traffic.

For the first 8 miles from Fort Sandeman it follows the Fort Sandeman-Loralai road as far as Kapíp, and then branches off to the east. At Máníkhwa, 24 miles from Fort Sandeman, there is a rest house and another at Dahána Sar, 20½ miles from Máníkhwa. The Dahána pass is entered shortly after leaving Dahána Sar rest house and continues for about 7 miles before it debouches into more open country. The Baluchistán boundary however cuts the road 3 miles beyond Dahána Sar and the rest of the road which has an average breadth of 12 feet to Déra Ismáíl Khán is under the control of the North-West Frontier Government.

Fort Sande-  
man-Músa-  
Khél road.

A bridle path runs from Fort Sandeman to Músa Khél tashíl of the Loralai District by Kapíp, Atal Kach, and Toi Sar, the total distance of which is 58 miles, and thence to Khán Muhammad Kot 19 miles. Toi Sar is also connected by a path with Dahána Sar, 29 miles.

Khánai-Fort  
Sandeman  
road.

The Khánai-Fort Sandeman road branches off from Khánai railway station in the Quetta-Pishín District and traverses upper and central Zhob. The total distance is 171½ miles, of which about 22 miles (Khánai to Mehtarzai Tsarai) lie in the Quetta-Pishín District. The principal stages on the road are Khánozai (15 miles), Hindubágh (30 miles), Kila Saifulla (38½ miles), Musáfirpur (55½ miles), Bádzinzi (17¼ miles), and Fort Sandeman (15½ miles). From Khánai to Hindubágh the cost was Rs. 3,570 per mile and

beyond that stage to Fort Sandeman Rs. 694 per mile, the maintenance charges varying from Rs. 11 to Rs. 19 per mile (1905). MEANS OF COMMUNICATION.

Other important routes are—(1) from Hindubágh to Chinjan in the Loralai District ( 28 miles ), and Hindubágh to Murgha Fakírzai (25 miles), and Bábu Chína ( 25 miles ); (2) and thence to Loiband, Késhatu, and Kamr-ud-dín Káréz ; (3) from Akhtargai ( 9 miles from Kila Saifulla ) to Loralai via the Dholu pass ( 28 miles ); (4) from Gwál Haidarzai ( 33 miles from Kila Saifulla ) to Loralai ( 39 miles ); (5) from Fort Sandeman to Kuria Wasta ( 32 miles ) by Bahlol and Urjas Sar ; (6) from Fort Sandeman to Shín-ghar ( 30 miles ); (7) from Fort Sandeman to Gul Kach via Walla Nawe Obo and Girdao ( 51½ miles ); (8) from Nawe Obo to Husain Nika shrine ( about 35 miles ), and from Mír Ali Khél to the same shrine ( 26 miles ); (9) from Murgha Kibzai to Músa Khél ( 30 miles ); (10) from Murgha Kibzai to Mékhtar on the Pishín-Déra Gházi Khán road ( 20 miles ); and (11) the Kákar Khurásán route from Fort Sandeman to Kamr-ud-dín Káréz ( c-127 miles ) which is shown in detail in table IX, Volume B. Other routes.

The Gomal route used by the Ghilzai Powindahs from Afghánistán lies on the border of the Zhob District. Other main routes by which the Powindahs travel on their periodical migrations are—(1) from Késhatu to Tirkhawar ( 21 miles ), Ghazlúna ( c-16 miles ), Loiband ( c-18 miles ) and thence to Sábúra and Yárú Káréz in the Quetta-Pishín District, and from Loiband to Shemli Nika, Murgha Fakírzai and Hindubágh; (2) Késhatu to Mughal Cháh about 25 miles, whence three paths lead to the Zhob valley—(a) the Srághurg Liár by Tarwa Murgha to Murgha Fakírzai ( 30 miles ); (b) by Lunda Liár to Kazha Tangi ( 51 miles ), and (c) by the Loe Liár to Kila Saifulla ( 58 miles ) via Sanzala, Churga, Barat Siazá and Khasnob; and (3) from Kamr-ud-dín Káréz to Tánishpa and thence either to Kila Saifulla ( 97 miles ) by Rod Jogízai, or to Fort Sandeman by Shiguála. Trade routes.

MEANS OF  
COMMUNICA-  
TION.

The annexed table shows the road mileage on March 31, 1905 :—

| Description.                                     | T   | MAINTAINED FROM PROVINCIAL REVENUES. |                                |
|--------------------------------------------------|-----|--------------------------------------|--------------------------------|
|                                                  |     | In charge of Military Officers.      | In charge of Revenue Officers. |
| Total roads and paths...                         | 793 | 616                                  | 177                            |
| Cart roads, partially metalled and bridged.      | 40  | 15                                   | 25                             |
| Unmetalled, fair weather roads and bridle paths. | 753 | 601                                  | 152                            |

Besides these 6 miles of roads are kept up by local funds in Fort Sandeman.

Transport.

Camels are the principal means of transport throughout the District. The number of these animals possessed by the permanent inhabitants is estimated at about 3,600, while about 12,000 are computed as belonging to nomads, chiefly the Ghilzai Powindahs. These Powindahs have also about 3,000 donkeys and 800 oxen.

The carrying trade is largely in the hands of Ghilzais, the chief sections engaged in the trade being the Niamat Khél, Bhar Khél, Jalál Khél, Ush Khél, and Masézai Násars and the Mala Khéls. The indigenous camels used in transport are those belonging to the Ghorézai Sanzar Khéls of Kila Saifulla. Next to camels come donkeys and oxen. The Haripáls and Shíránis largely use donkeys when they go to Afghánistán and Chágai to collect asafœtida. Donkeys are also employed by labourers in carrying building material such as earth, lime, bricks, etc. Bullocks

## TRANSPORT.

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are used by the local Afgháns for transport of household articles for short distances.

MEANS OF  
COMMUNICA-  
TION.

The rates of hire vary according to supply and demand, and are usually fixed by private arrangement between the traders and carriers. The rates are cheaper in winter when there is a large number of Ghilzai camels in the District. The usual rates between important places are as follows :—

| From              | To                         | Rate Per Camel. |
|-------------------|----------------------------|-----------------|
|                   |                            | Rs. a. p.       |
| Fort Sandeman ... | Loeband and vice versa     | 13 0 0          |
| „ ...             | Tirkhawar „ „ „ ..         | 11 0 0          |
| „ ...             | Késhatu „ „ „ ..           | 9 0 0           |
| „ ...             | Hindubágh „ „ „ ..         | 8 8 0           |
| „ ...             | Kila Saifulla „ „ „ ..     | 6 0 0           |
| „ ...             | Déra Ismáíl Khán „ „ „ ..  | 7 0 0           |
| Déra Ismáíl Khán. | Fort Sandeman „ „ „ ..     | 6 0 0           |
| Fort Sandeman ... | Bori „ „ „ ..              | 6 0 0           |
| „ ...             | Harnai „ „ „ ..            | 8 0 0           |
| „ ...             | Kamr-ud-dín Káréz „ „ „ .. | 7 0 0           |
| „ ...             | Sra Darga „ „ „ ..         | 5 0 0           |
| „ ...             | Mír Ali Khél „ „ „ ..      | 2 12 0          |
| „ ...             | Mughal Kot „ „ „ ..        | 4 0 0           |
| „ ...             | Gustoi „ „ „ ..            | 4 0 0           |

MEANS OF  
COMMUNICA-  
TION,

| From              | To                       | Rate Per<br>Camel. |
|-------------------|--------------------------|--------------------|
|                   |                          | Rs. a. p.          |
| Fort Sandeman ... | Gul Kach and vice versa. | 4 0 0              |
| "    ...    "     | Shin Bázhai " " " ...    | 2 12 0             |
| "    ...    "     | Girdáo " " " ...         | 2 12 0             |
| "    ...    "     | Husain Nika " " " ...    | 3 12 0             |
| "    ...    "     | Músa Khél " " " ...      | 4 8 0              |
| "    ...    "     | Shín-ghar " " " ...      | 3 8 0              |
| "    ...    "     | Sharghali " " " ...      | 3 8 0              |
| "    ...    "     | Mán(khwa " " " ...       | 1 12 0             |
| Loeband ...       | Yáru Káréz " " " ..      | 6 0 0              |

The traders at Harnai ordinarily pay R. 1-2-0 to Rs. 2 per maund on merchandise despatched to Fort Sandeman, and the rate of hire per maund from Khánai to Hindubágh is about As. 8.

Camel con-  
tracts.

The question of camel transport has always presented much difficulty and conferences and committees were held in 1884, 1887, 1890, and 1891 to consider the subject. The conference which assembled in September, 1891, under the presidency of Mr. (now Sir Hugh) Barnes, the then Revenue Commissioner in Baluchistán, drew up an elaborate set of rules and a draft agreement, the terms of which were approved by the Government of India. This conference recommended the division of the whole Baluchistán Agency into two independent circles, the contract in each circle being held by a single contractor. The second circle included the Sibi, Loralai, and Zhob Districts for which a contract was concluded for a period of three years ending



with the 30th of September, 1894. On the termination of this contract a conference again assembled under the presidency of Major MacIvor, in November, 1894, when it was decided that though for the rest of Baluchistán the supply of camel carriage and the rates to be paid might be left to the ordinary laws of supply and demand, it was desirable to retain the existing arrangements in the Zhob, Sibi, and Loralai Districts; and the contract system with certain modifications still remains in force (1905).

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COMMUNICA-  
TION.

The Military Works Services and the Supply and Transport Department have separate contracts.

The District is well provided with telegraphs, all headquarter stations and important points being connected by wire. There are telegraph offices at Murgha Kibzai (opened in October, 1889), Fort Sandeman (April, 1890), Mír Ali Khél (December, 1890), Mughal Kot (August, 1894), Hindubágh (February, 1896), Girdáo, Gul Kach (August, 1898), Kila Saifulla (March, 1899), Loeband and Kamrud-din Káréz (December, 1905). The extensions of the telegraph line from Girdáo to Husain Nika and from Fort Sandeman to Shín-ghar have been sanctioned (1906), and it has also been decided to establish, as an experimental measure, telephonic communication between the Zhob Levy Corps posts of Gustoi, Sra Darga, and Husain Nika.

Telegraph  
offices.

All the telegraph Offices mentioned above are departmental combined post offices, Fort Sandeman being a sub-office while the remainder are branch offices. They issue and pay money orders and are authorised to transact savings bank business. Parcels are carried between Harnai and Loralai by the mail tongas daily and between Loralai and Fort Sandeman twelve times a month from both directions by camels; a camel load is not to exceed 2½ maunds and the journey ordinarily occupies four days.

Post offices.

Mails are also carried between Harnai and Loralai by tonga service, the contract for which is renewed annually under the orders of the Political Agent, Loralai. The

MEANS OF  
COMMUNICA-  
TION.

up journey takes about eleven hours and the down journey nine hours. Between Loralai and Fort Sandeman the mails are carried by Postal Levy sowars, via Gwál Haidar-zai whence there is a daily service to Kila Saifulla (33 miles) and Hindubágh (71½ miles). Sowars also carry the mails between Mékhtar (on the Loralai-Kingri-Fort Munro line (47¾ miles from Loralai) to Murgha Kibzai post (20 miles) every alternate day. Between Fort Sandeman and Mír Ali Khél (35¼ miles) the mails are carried by sowars and from Mír Ali Khél to Gul Kach (22 miles) by footmen, the former service being thrice, and the latter twice a week. From Mír Ali Khél to Mughal Kot (14¼ miles) sowars carry the *dák* twice a week.

The total strength of levies employed on postal lines was

|             |     |     |     |    |                       |     |
|-------------|-----|-----|-----|----|-----------------------|-----|
| * Duffadars | ... | ... | ... | 9  | (in March, 1906)      | 53* |
| Munshi      | ... | ... | ... | 1  |                       |     |
| Sowars      | ... | ... | ... | 43 | and the total cost in |     |

1905-06 Rs. 13,207-12-0.

FAMINE.  
Scarcity and  
its causes

The Hindubágh and Fort Sandeman tahsils have large portions of their areas permanently irrigated, but the sources of irrigation are much affected by rain and snowfall, and in years of light rainfall their irrigating capacity is largely reduced. A considerable area of land in the Kila Saifulla tahsil is, however, entirely dependent for cultivation on rain, while flockowners in all tahsils also look to rain for their supply of pasture. The primary cause of scarcity, therefore, is the failure of the autumn and winter rains and if such failures continue for two or three years, the scarcity will intensify and even famine may result. Failures of the crops in Sind, the Déraját, and the Punjab also affect the prices of staples in the District. Flockowners not infrequently suffer heavy losses by the mortality among their animals due to severe cold in winter.

Besides drought the other causes tending to scarcity in the District are ravages by locusts, disease in the crops, floods, hailstones, and severe cold.

Of the two harvests, the *rabi* is the more important, but the failure of either of the two causes hardship among the people. A combined failure of both crops and grazing for consecutive seasons greatly intensifies scarcity.

There is no record of famines before the British occupation but the District, and especially its central portion, is subject to frequent drought and scarcity. The period between 1897 and 1905 was one of deficient rainfall, especially during 1899-1900 when there was a large exodus to Afghánistán. Produce revenue adjusts itself to variations, and suspensions and remissions of it are rarely necessary. In 1899-1900 land revenue to the amount of Rs. 171 and grazing tax to the amount of Rs. 11,784 were suspended chiefly in the Hindubágh and Kila Saifulla tahsils. During this period of distress advances to the amount of Rs. 50,115 were granted under the Land Improvement Loans Act and Rs. 31,478 under the Agriculturists' Loans Act. Prices rose very high during this period. In Fort Sandeman the rate of wheat rose to 6 seers for a rupee during a part of the year 1900. In 1899 wheat at Kila Saifulla was sold at from 7 to 8½ seers per rupee. In Hindubágh *juári* was selling from 6 to 7 seers to a rupee in 1902-03 and wheat was scarce even at this high rate. To afford help to the people in distress, relief works were opened, chiefly on roads at a cost of Rs. 6,048 in 1899-1900 and Rs. 48,823 in 1900-01, the funds being provided from Imperial grants. Besides these, the Toiwar irrigation scheme was also taken in hand as a relief work, and a sum of Rs. 2,303 expended on preliminaries, but owing to disputes regarding land to be irrigated the scheme was abandoned. A sum of Rs. 6,000 was also spent from Provincial Revenues on the construction of two bridle-paths running through the tracts in Central Zhob where the effects of the drought were most severely felt.

FAMINE.

History of periods of scarcity and protective measures.

FAMINE. Major F. Macdonald, Political Agent of the District, writing about the scarcity of 1899-1900 reported as follows :—

“The year was one of general and in many places of great scarcity. For three years past the rainfall has been very small, and during the last year it was less than it was ever before. The snow which fell in January, was not sufficient to make any difference to agriculture or grazing prospects except in Hindubágh and in parts of Kákar Khurásán where the fall was good. The result of all this was a drought, which was felt more or less all over the district. Even those places which are blest with a permanent water supply were affected, the springs and *kárézes* diminishing in quantity and in some places actually drying up, while *khushkába* lands were, practically speaking, not sown at all. The upper part of Hindubágh and that part of Fort Sandeman which is cultivated from cuttings from the Zhob river, were not so badly off, but in Central Zhob, where the *khushkába* harvest is usually very fine and in parts of Fort Sandeman, the distress was very considerable.

“Perhaps the greatest evil was the want of grazing, the tribes in Central Zhob having especially lost very heavily. Other causes also contributed towards the heavy losses in cattle, e. g., the diseases which broke out among the flocks and a violent hailstorm at Murgha Kibzai which is said to have killed 1,200 sheep and over 100 head of cattle. In Central Zhob an extremely cold and violent wind blew for several days, damaging crops, covering them with a heavy layer of sand and earth and filling up *kárézes* so as to render them almost useless until cleaned and repaired. In the beginning of 1900-01 a hailstorm of extraordinary violence entirely destroyed the crops at Murgha Kibzai.”

The assessment of cattle tax in Fort Sandeman for the year 1901-02 was suspended till the spring of 1902-03, owing to the absence of owners. The year 1902-03 was also one

of scanty rainfall, especially in the Hindubágh and Kila Saifulla tahsils. Cold was very intense during 1903-04 in Khurásán, thousands of sheep being killed by the severe weather. In the Hindubágh tahsíl in the beginning of the year 1904 there was scarcity of fodder and a disease called *pún* combined to cause great loss among the herds. *Khushkába* cultivation failed more or less in all the tahsils of the District owing to want of rain, and a hailstorm destroyed most of the rice crop of Sáfi Kot in the Fort Sandeman tahsíl. The year 1905-06 was again a dry year. *Khushkába* failed altogether in Kila Saifulla. Revenue to the extent of Rs. 1,326 was remitted in this tahsíl and advances of about Rs. 5,000 were granted for purchase of seed grain and plough oxen for use in irrigated and dry areas.

FAMINE.

The greatest safeguard against drought and famine, however, consists in the migratory habits of the people who go to the Quetta-Pishín, Loralai, and Sibi Districts in Baluchistán, to the Dámán in Dera Ismáíl Khán or to Afghánistán wherever they can find pasturage for their animals, and food for themselves.

The Fort Sandeman tahsíl has had several visitations of locusts. In 1892 swarms of locusts damaged the wheat and melon crops; in 1894 the melon and other autumn crops were affected, and in 1900 fruit-bearing trees and the *kharif* and melon crops were again severely damaged. In the Government garden at Fort Sandeman, the trunks of trees were covered with paper, but this method of protection proved of no avail. Again in 1901 much damage was done by locusts to vegetables, *pálézát* and fruit trees in the District.

Visitations  
of locusts.

Lands situated on the Zhob river are subject to floods in the rainy season, for instance a portion of the cultivation was washed away when the river came down in flood in May, 1901, after a record rainfall. In Hindubágh, during years of excessive rainfall, the Kamchughai and Rod

Floods.

**FAMINE.** Fakırzai torrents sometimes damage the Urgas and Kazha lands, respectively.

**Rust.** Rust which is said to be due to excessive rain in spring sometimes affects the wheat crop, but severe damage from this cause has not yet been reported in any tahsíl. An east wind is said to cause it to appear in the crops while the west wind is believed to remove it.

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### CHAPTER III.—ADMINISTRATIVE.

Previous to the formation of the Loralai District, the Zhub District was divided into two sub-divisions, Upper and Lower Zhub. The former comprised the Bori, Hindubágh and Kila Saifulla tahsils and the latter the Fort Sandeman and Músa Khél tahsils. As already mentioned, the Músa Khél and Bori tahsils were, in October, 1903, transferred to the new Loralai District, and the Zhub District was divided into three sub-divisions, namely—(1) the Upper Zhub sub-division consisting of the Hindubágh and Kila Saifulla tahsils; (2) the Lower Zhub sub-division consisting of the Mando Khél and Sbírání countries, the Sulaimán Khéls and the Khurásán tracts along the Kundar river; and (3) the Fort Sandeman sub-division consisting of the Fort Sandeman tahsíl. In actual practice, however, the Lower Zhub and the Fort Sandeman sub-divisions are managed as a combined unit. The ordinary head-quarter staff consists of a Political Agent, an Assistant Political Agent, an Extra Assistant Commissioner in charge of the Fort Sandeman and Lower Zhub sub-divisions. An Honorary Assistant District Superintendent of Police temporarily deputed from the Sibi District is in joint charge of the Police force in the Zhub and the Loralai Districts with head-quarters at Fort Sandeman. An Extra Assistant Commissioner holds charge of the Upper Zhub sub-division with head-quarters at Hindubágh.

ADMINISTRATION AND STAFF.

In each of the tahsils of Kila Saifulla and Hindubágh a tahsildár and a náib tahsildár are stationed, while at Fort Sandeman the tahsildár has two náib tahsildárs. Their principal duty is the collection of Government revenue but they also exercise judicial powers. The officers in charge of the Upper and Lower Zhub sub-divisions supervise collection of revenue, occasionally attend in person to *batái* and *tashkhts* work, and, in subordination to the Political

ADMINISTRATIVE  
AND  
STAFF.

Agent, control the tribes within their limits. They also exercise judicial powers. The subordinate staff consists of Muhásibs, Kánúgos and Patwáris who are paid servants of Government, and village headmen, known locally as *maliks* or *lambardárs*. The latter help in the collection of revenue and are remunerated by payment of 5 per cent. on the gross collections (*haq-i-malikána*). The strength of the revenue staff (1905) is shown below:—

| Tahsils.          | No. of Circles. | Kánúgos and Muhásibs. | Patwáris. | Headmen. |
|-------------------|-----------------|-----------------------|-----------|----------|
| Hindubágh ...     | 7               | 4                     | 7         | 165      |
| Kila Saifulla ... | 3               | 3                     | 4         | 128      |
| Fort Sandeman.    | 5               | 2                     | 6         | 209      |
| Total ...         | 15              | 9                     | 17        | 502      |

JUDICIAL.  
Special  
Laws.

The Baluchistán Laws Law, the Forest Law, and the Civil Justice and Criminal Justice Laws were enacted in 1890 and applied to the District; the last two were modified in 1893 and re-enacted in 1896. The circumstances of the District have not, so far, necessitated the enactment of any special laws for it. The whole of the Public Gambling Act III of 1867 has been applied (1894) to the Civil and Military stations and native town at Fort Sandeman. The Indian Arms Act, 1878, with the exception of certain sections prohibiting the carrying and possession of arms without a license was applied to the District in 1895, and of the excepted portions, Sections 13, 14 and the last 26 words of Section 15 were applied in 1904 to the Civil and Military stations and the native town at Fort Sandeman, the Civil station and bazar at Hindubágh, and the Civil and Military station at Kila Saifulla.



Legal practitioners are not permitted to practice in the courts generally, but a pleader may appear in a court in any particular case, whether civil or criminal, with the permission of the Agent to the Governor-General. Petition-writers are of two grades and their appointment is regulated by rules issued by the Judicial Commissioner in 1899. On the 31st of March, 1905, there were two first grade and four second grade petition-writers. JUDICIAL.

The Political Agent combines the offices of Magistrate of the First Class, District Magistrate and Sessions Judge, and is a Justice of the Peace. In respect of Civil Justice, he possesses jurisdiction to try original suits without limit as regards value. A decree or order made by him in an original suit of value not exceeding Rs. 500, and in an appellate suit, the value of which does not exceed Rs. 1,000 is final, and subject only to revision. In criminal trials no appeal lies in cases in which he passes a sentence of imprisonment for a term not exceeding one year, or of fine not exceeding Rs. 1,000, or of whipping, or of all or any of these punishments combined. The Political Agent is also a Registrar of Births, Deaths, and Marriages. The following table shows the subordinate courts (1905): their ordinary powers and the courts to which appeals lie:—

| Courts.                              | Powers in Civil Suits.                                                                          | Powers in Criminal Cases.                                                                                                                                                                | Court to which Appeal lies.                    | REMARKS.                                                                                                                                                                                                                                 |
|--------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (1) Assistant Political Agent, Zhob. | Rs. 10,000. Powers to hear appeals from Tahsildárs and Náib Tahsildárs throughout the District. | First Class Magistrate. Summary Justice of the Peace. Sub-divisional Magistrate. Power to hear appeals from the decisions of Second and Third Class Magistrates throughout the District. | Political Agent, Zhob. Revision to High Court. | <i>Notes.</i><br>A decree or order made in an original suit of value not exceeding Rs. 50 by a Tahsildár or not exceeding Rs. 100 made by Assistant Political Agent or Extra Assistant Commissioner is final but is subject to revision. |

| JUDICIAL. | Courts.                                       | Powers in Civil Suits.                                                                                          | Powers in Criminal Cases.                                                                                                                                   | Court to which Appeals lie.                                                    | REMARKS.                                                                                                                                                                                                             |
|-----------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           | (3) Extra Assistant Commissioner Lower Zhob.  | Rs. 10,000. Appeals from decisions and orders of Tahsildárs and Náib Tahsildárs in the Lower Zhob Sub-division. | First Class Magistrate. Summary powers. Sub-divisional Magistrate. Appeals from decisions of Third and Second Class Magistrates in Lower Zhob Sub-division. | Political Agent, Zhob. Revision to High Court.                                 | (2) No appeal lies in a criminal case in which a Magistrate of the First Class passes a sentence of imprisonment for a term not exceeding six months only or of fine not exceeding Rs. 500 only or of whipping only. |
|           | (3) Extra Assistant Commissioner, Upper Zhob. | Rs. 10,000. Appeals from decisions and orders of Tahsildárs and Naib Tahsildárs in the Upper Zhob Sub-division. | First Class Magistrate. Summary powers. Sub-divisional Magistrate. Appeals from decisions of Third and Second Class Magistrates in Upper Zhob Sub-division. | Do.                                                                            | (3) The Extra Assistant Commissioners, Lower and Upper Zhob, exercise jurisdiction in original civil suits, throughout the whole District.                                                                           |
|           | (4) Tahsildár, Hindubágh.                     | Rs. 300 ...                                                                                                     | Second Class Magistrate.                                                                                                                                    | The Extra Assistant Commissioner and First Class Magistrate, Upper Zhob.       |                                                                                                                                                                                                                      |
|           | (5) Tahsildár, Kila Saifulla                  | Rs. 300 ...                                                                                                     | Do.                                                                                                                                                         | Do.                                                                            |                                                                                                                                                                                                                      |
|           | (6) Tahsildár, Fort Sandeman.                 | Rs. 300 ...                                                                                                     | Do.                                                                                                                                                         | Assistant Political Agent or Extra Assistant Commissioner, Lower Zhob.         |                                                                                                                                                                                                                      |
|           | (7) Náib Tahsildár, Hindubágh                 | Up to Rs. 50...                                                                                                 | Third Class Magistrate.                                                                                                                                     | The Extra Assistant Commissioner and First Class Magistrate, Upper Zhob.       |                                                                                                                                                                                                                      |
|           | (8) Náib Tahsildár Kila Saifulla.             | " " 50..                                                                                                        | Do.                                                                                                                                                         | Do.                                                                            |                                                                                                                                                                                                                      |
|           | (9) 1st Náib Tahsildár, Fort Sandeman.        | " " 50..                                                                                                        | Do.                                                                                                                                                         | The Assistant Political Agent or the Extra Assistant Commissioner, Lower Zhob. |                                                                                                                                                                                                                      |
|           | (9) 2nd Náib Tahsildár, Fort Sandeman.        | " " 50..                                                                                                        | Do.                                                                                                                                                         | Do.                                                                            |                                                                                                                                                                                                                      |

Under Section 2 of the Frontier Crimes Regulation certain powers specified in Part I, clause b (i) to (v) of the first schedule to that Regulation have been conferred upon Extra Assistant Commissioners in charge of Upper and Lower Sub-divisions. These include, among others, the power to appoint members of a *jirga* and to refer cases to them and to take security for good behaviour or for keeping the peace for a period not exceeding three years. They have also been permitted to accept a compromise or to allow the plaintiff to withdraw a civil or revenue case when the amount does not exceed Rs. 500, the Tahsildár exercising similar powers in cases the value in which does not exceed Rs. 100.

JUDICIAL.  
Additional  
powers of the  
Extra Assis-  
tant Commis-  
sioners and  
tahsildárs.

Table XI, Volume B, gives details of civil suits disposed of by various courts in the old Zhob District from 1893-94 to 1902-03 and for the new District for 1903-04 and 1904-05. In the quinquennial period 1893-94 to 1897-98, the average annual number decided was 659 of which 482 were original, 7 appellate, and 170 cases for execution of decree; during the quinquennial period ending with the 31st of March, 1903, the annual average fell to 426. In 1903-04, when the Bori and Músa Khél tahsils were transferred to Loralai, the number of cases decided in the remaining 3 tahsils was 253, and in 1904-05, 222 of which 142 were original, 4 appellate, and 76 cases of execution of decree. The majority of these civil suits occur in the town of Fort Sandeman, most of the parties being aliens from India engaged in trade and labour. Suits among the indigenous population are generally tried politically. Of the total number of 142 original suits in 1904-05, 124 or 87 per cent. were disposed of in the Fort Sandeman tahsil. The majority of the civil suits instituted are for money and moveable property. The petty nature of the suits may be judged from the fact that in 1904-05, 133 out of a total of 142 original suits were disposed of by Tahsildárs' and Náib Tahsildárs' courts. Appeals are filed only in a few cases. In the old Zhob District there were

Civil Justice.

JUDICIAL. 29 appeals filed during three years, 1900-01 to 1902-03, and in 22 cases the decision of the Lower Court was upheld; in 1904-05, there was only one appeal in the new District, which was rejected. In the three years 1900-01 to 1902-03, 179 applications for execution of decrees were filed, of which 64 proved infructuous either owing to the judgment debtors' inability to pay the amounts decreed against them or to the decree holders failing to appear and prosecute their cases.

Criminal  
Justice

Criminal cases in which people of India are involved are dealt with judicially, while cases against the indigenous population are, as a rule, tried politically with the help of *jirgas*. Details of the criminal cases disposed of during the decennial period ending with the 31st of March, 1903, in the old Zhob District, and during 1903-04 and 1904-05, in the new District, are given in table XII, Volume B. The annual average during the quinquennial period 1893-94 to 1897-98, was 165 of which 160 were original and 5 appellate. In the second quinquennial period the annual average fell to 90 of which 85 were original and 5 appellate. In 1903-04 and 1904-5, the total number of cases disposed of was 33 and 60, respectively, of the latter 57 were original and 3 appellate. The petty nature of the crime thus dealt with is indicated by the fact that 99 per cent. of the average number of original cases disposed of during the second quinquennial period were decided by courts subordinate to the District court and in 1904-05, out of 57 original cases 53 were disposed of by these courts. The Political Agent remarks: "that in the new District during the period of three years ending with March 31, 1903, the total number of cases disposed of was 107, of which 7 fell under offences against the State, public tranquillity and human life, 18 under offences against the person, 24 under offences against property, 3 under gambling, while 55 were miscellaneous petty offences.

"The percentage of convictions obtained was 94·5. In the remaining cases the failure to obtain convictions was

due to insufficient proof. The number of appeals filed against the orders of the subordinate courts during the same period was 14 and their orders were upheld in 11 cases by the appellate courts." In 1903-04 and 1904-05 there were 4 and 3 appeals, respectively. JUDICIAL.

The system of the disposal of disputes of all sorts by the elders of villages or tribes is indigenous to the country; the procedure is simple and has many advantages. It has been regularised from time to time by certain special regulations, the latest being the Frontier Crimes Regulation III of 1901, which has been applied to the Agency territories with certain modifications. The system possesses special advantages when worked in conjunction with the Levy system, under which crime in the areas outside the towns is investigated by the headmen and levies. At the same time it requires continuous supervision by the District Officers to prevent abuses such as spring from ignorance and partiality. Jirga cases.

Ordinary cases are referred to a council of elders of not less than 3 members selected from among headmen of villages, and leading men of tribes, and occasionally from the native officers of the Zhob Levy Corps, whilst those which involve any question of principle or affect two or more important tribes or two Districts, are generally referred to the *sháhi jirgas*, which assemble at Quetta and Fort Munro in the autumn and at Sibi in the winter. It is the function of the *jirga* to come to a finding of fact on the issues placed before them, and its award is then submitted to the Political Agent, with whom alone lies the power of passing final orders in the case, and of determining and awarding punishment under the Regulation. Ordinarily the Political Agent may sentence an offender to seven years' rigorous imprisonment; a sentence exceeding this term, up to a maximum of 14 years, must be confirmed by the Agent or the Governor-General. No appeal lies from awards passed by the Political Agent, but his orders are subject to revision by the Agent to the Governor-General.

## 228      CHAP. III.—ADMINISTRATIVE.

JUDICIAL. Details of the cases disposed of by *jirgas* during 1893-94 to 1904-05 are given in table XIII, Volume B. The annual average number of cases decided in the two quinquennial periods from 1893-94 to 1897-98 and from 1898-99 to 1902-03 in the old District, was 2,109 and 1,330, respectively, while in 1904-05 the total number disposed of in the new District was 740. The number referred to local, *sháhi*, and other *jirgas* was as under :—

|                            | Quinquennial period from 1893-94 to 1897-98. | Quinquennial period from 1898-99 to 1902-03. | 1904-05. |
|----------------------------|----------------------------------------------|----------------------------------------------|----------|
| <i>Sháhi Jirgas</i> ... .. | 18                                           | 31                                           | 18       |
| Local <i>Jirgas</i> ... .. | 2,051                                        | 1,252                                        | 628      |
| Other <i>Jirgas</i> ... .. | 40                                           | 47                                           | 94       |

Of the 740 cases disposed of during 1904-05, 17 were cases of murder, 16 of adultery, 5 of adultery with murder, 51 of cattle-lifting, 38 of land and revenue, 148 of betrothal and marriage, and 422 miscellaneous, the inter-provincial cases between the people of the District and border tribes of the Déra Ismáíl Khán District being 43.

Local, joint, *sháhi* and inter-provincial *jirgas*.

Almost invariably cases concerning the people of the country are referred to local *jirgas* and they include murder, adultery, matrimonial suits, theft, cattle-lifting and land, etc. It is the policy to restrict investigations by the Police, so far as possible to cases occurring among the non-indigenous population. Important cases, those affecting two tribes, or any in which perverse or unsatisfactory decisions are given by local *jirgas* are generally referred to the *sháhi jirgas* at Quetta and Sibi or to the inter-provincial *jirgas* at Fort Munro. Cases between the people of this District and the Largha Shíránis across the Takht-i-Sulaimán in the Déra Ismáíl Khán District are referred to the joint *jirgas* held in alternate years at Mánikhwá and Drában (Déra Ismáíl Khán District).

## FANATICAL OUTRAGES.

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The members of local *jirgas* are selected from among the sardárs, *maliks*, and headmen of the several tribes living in the District. Officers of the Zhob Levy Corps are also sometimes chosen for the *jirgas* held at Fort Sandeman. In appointing the members of the local *jirgas*, regard is had to Section 11 of the Frontier Crimes Regulation, 1901. In the case of the *sháhi jirgas*, only the sardárs and headmen of the tribes actually concerned in the cases referred to those *jirgas* are nominated as members of them as these *jirgas* are held at a great distance from the District.

JUDICIAL.  
System of  
selection of  
members.

There are no tribes or parts of the District in which the crimes above mentioned can be declared most prevalent. Adultery is comparatively more prevalent in the Hindubágh and Kila Saifulla tahsils, and in the latter tahsil often results in murder. Cattle-lifting was once practised by the Wazirs in the Fort Sandeman tahsil, but since the formation of the North-West Frontier Province, crimes of this nature have almost disappeared. The same may be said of the Sulaimán Khéls living on the Afghán border.

Prevalent  
crime.

The awards of the *jirgas* are generally acceptable to the parties concerned. No appeal lies in these cases, but the Agent to the Governor-General has powers to revise the decisions of the Political Agent.

Acceptance  
of findings by  
parties.

In the early days of its occupation fanatical attacks on Europeans especially and also on non-Muhammadans were unfortunately of somewhat frequent occurrence in the District and during the period 1890 to 1905, there were 18 such cases. The most conspicuous of these were—(1) the attack on the 14th of September, 1890, on a sowar of Lieutenant Godfrey's escort between Bábar and Lakaband; (2) the wounding of Mr. H. Humfress, Executive Engineer, Zhob Division, in October, 1892, at Kazha by a Khoidádzai named Mehrbán; (3) the wounding of Lieutenant Patterson, of the Commissariat Department, in April, 1893, at Fort Sandeman by a Músa Khél named Azím; (4) the murder of

Fanatical  
outrages.

JUDICIAL. Sergeant Williams, of the Commissariat Department, at Fort Sandeman by a Kibzai in September, 1894.

Fanatical cases are dealt with under the Murderous Outrages Regulation IV of 1901. Among its more important provisions may be mentioned the power which it gives to the Sessions Judge or Deputy Commissioner of the District or to any Magistrate of the first class especially empowered by the Local Government or by the Sessions Judge or Deputy Commissioner, after the commission of an offence, to try a fanatic, to pass orders as to the disposal of the offender's body if he is convicted and to forfeit all his property to Government. No appeal lies from any order made or sentence passed under the Regulation, and the court may, on the recommendation of a council of elders or after such enquiry as it may think necessary, take measures against any community or individual with whom a fanatic is or has been associated in circumstances which satisfy it that, by reasonable prudence or diligence on the part of the community or individual, the commission or attempted commission of the offence might have been prevented. Such measures include fine and forfeiture of revenue-free grants, remissions, and allowances.

Registrstion. The Indian Registration Act III of 1877 is in force in the District. The Political Agent is the Registrar and the tahsildárs of Hindubágh, Kila Saifulla, and Fort Sandeman are Sub-Registrars within their respective sub-districts. Mutation registers have been started in the Kila Saifulla and the Hindubágh tahsils since 1904 when after the completion of the survey, the settlement records were handed over to the tahsildárs. But in these, and the Fort Sandeman tahsíl, many transactions are still carried on verbally. Table XIV, Volume B, shows in detail the number of documents registered, the revenue realized and the expenditure incurred during each of the 12 years 1893-94 to 1904-05 and the following abstract indicates



the general nature of the small amount of work which is done :—

| Annual average of 10 years<br>1893-94 to 1902-03. |                                  |         |                                            |                    |                    | 1904-05.              |           |    |                                            |                    |                    |
|---------------------------------------------------|----------------------------------|---------|--------------------------------------------|--------------------|--------------------|-----------------------|-----------|----|--------------------------------------------|--------------------|--------------------|
| Documents registered.                             |                                  |         | Total realizations, including copying fee. | Total expenditure. | Number of offices. | Documents registered. |           |    | Total realizations, including copying fee. | Total expenditure. | Number of offices. |
| Compulsory.                                       | Optional.                        |         |                                            |                    |                    | Compulsory.           | Optional. |    |                                            |                    |                    |
|                                                   | Relating to immoveable property. | Others. | Relating to immoveable property.           | Others.            |                    |                       |           |    |                                            |                    |                    |
| 17                                                | 1                                | 11      | Rs.<br>70                                  | Rs.<br>34          | 3                  | 18                    | ...       | 13 | Rs.<br>72                                  | Rs.<br>31          | 4                  |

The 18 compulsory documents shown as registered in 1904-95 chiefly relate to transactions connected with immoveable property between agriculturists themselves. There was only one mortgage by an agriculturist to a non-agriculturist.

The Zhob valley was occupied at the end of 1889 and up to March 31, 1890, the revenue and expenditure were treated as Imperial.

From the 1st of April, 1890, the revenues of the Bori, Khétrán, and Zhob valleys and the expenditure connected with their administration were classed as provincial. The provincialised items of expenditure excluded the pay of the Political Agent, Assistant Political Agent, Zhob Levy Corps, Mando Khél levies (Rs. 25,000) and the cost of the Gomal road, but they included the cost of the police and levies in the Bori valley (Rs. 13,800 + 4,250) and the new Khétrán levies (Rs. 9,840). During the three years, ending with March 31, 1893, in which this arrangement lasted, the revenue averaged Rs. 3,35,449 and the expenditure Rs. 3,12,075 per annua.

FINANCE.  
Brief history.

Zhob Provincial Contract.

## FINANCE.

Zhob Levy  
Corps Con-  
tract.

A separate contract for the Zhob Levy Corps was sanctioned for three years; the allotment for 1890-91 was Rs. 1,64,290 and in each of the following two years Rs. 2,47,200.

Levies and  
Police Con-  
tract.

A similar contract for the police and levies of the whole Province was sanctioned for three years, ending with March, 1893. This contract did not include the Zhob valley levies, the annual cost of which was Rs. 1,20,000 but included the cost of levy posts for the protection of the road and telegraph line on the Loralai, Déra Gházi Khán route, and the Bargha Shíráni service (Rs. 7,680), was subsequently added.

New  
Contract.

On the termination of these three contracts, a combined *quasi*-provincial contract was sanctioned for four years from the 1st of April, 1893, in which were also included the pay and allowances of the Political Agent and the Assistant Political Agent.

First *quasi*-  
Provincial  
Settlement.

From the 1st of April, 1897, a fresh *quasi*-provincial settlement was sanctioned for a period of five years for the whole of the Baluchistán Agency, and the settlement was again renewed from April, 11902; the salaries debitable to head "Political Agents" being excluded from the arrangement.

Table XV, Volume B, shows the revenue of the District from all sources in each year from 1897-98 to 1904-05. The main sources of income are Land Revenue, Excise and Stamps, to which are added minor items under Law and Justice, Jails, Registration, Assessed Taxes, Public Works, and Miscellaneous. The annual receipts during the quinquennial period of 1897-98 to 1901-02 averaged Rs. 1,28,694, to which Land Revenue contributed Rs. 1,07,814; Excise, Rs. 11,085; Stamps, Rs. 4,753; and other items Rs. 5,042. In 1902-03 the receipts amounted to Rs. 1,29,726, while in 1904-05 they were Rs. 1,25,984. In the last mentioned year Land Revenue contributed Rs. 1,01,732 or about 80 per cent.; Excise, Rs. 9,897; Stamps, Rs. 5,057; and

the balance of Rs. 9,248 was made up of Registration, Law and Justice, Miscellaneous and Public Works. Where the land revenue is chiefly levied by a share of the produce, the receipts must necessarily vary with the seasons. In 1904-05 the decrease under this head was due to the very poor *kharif* crop. Owing to the drought which prevailed in August and September, 1904, the dry crop cultivation failed altogether and the out-turn of irrigated crops was also less owing to diminution of water supply of the springs and *kárézes*.

Khán Bahádúr Mír Shams Sháh, Settlement Extra Assistant Commissioner, says\* in respect to the Kila Saifulla tahsil that "its early history is so wrapt up in obscurity that it is difficult to ascertain what revenue was realised from it in the time of former kings. Probably under the Mughal rule, Kila Saifulla and the Hindubágh tahsils formed a part of Pishín (then a District of Kandahár Province) which, according to the *Ain-i-Akbari*, was subject to a regular revenue demand. In the time of Ahmad Sháh Abdáli the Sanzar Khél Kákars, who form the majority of the inhabitants of the tahsil paid one sheep per flock as annual revenue. When Ahmad Sháh bestowed the Government of Zhob on Békár Nika of the Jogízai family, he and his successors received revenue at varying rates. When Muhammadzai Bárakzai Afgháns succeeded the Sadozai dynasty, it does not appear that any regular revenue was realised by the supreme government from this *iláka*, as the descendants of Békár Nika regarded themselves independent governors or rulers of Zhob."

LAND  
REVENUE.  
Early revenue  
history.

In the Hindubágh Settlement report (1905) it is stated on the information furnished by leading men "that in the time of Ahmad Sháh the Sanatia Kákars paid one tenth of the gross produce of their lands and the Sanzar Khéls one sheep per flock. The tribal headmen collected the revenue and paid at Kandahár, where they were presented valuable *Khillats*.

\* Final Report on the Settlement of the Kila Saifulla tahsil (1906).

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REVENUE.

Bahádur Khán and Hasan Khán Sanatia Kákars, and Lál Khán and Khwája Khizar, Sanzar Khéls, acted as collectors of revenue one after the other. It is also said that in Ahmad Sháh's time the tribes supplied 8 men-at-arms and this was commuted to revenue in kind. Bahádur Khán, Sanatia, accompanied Ahmad Sháh to Delhi and died there. When Ahmad Sháh became feeble, the Kákars threw off the yoke. Later on Khushdil Khán, Afghán Governor of Pishín, fixed a cash assessment of Rs. 200 on this *iláka* which was raised to Rs. 240 in the following year and to Rs. 280 later. Owing to this enhancement the people became discontented and fled to the hills. Shahbáz Khán, Kákar, got a cavalry and infantry detachment from Pishín and fought with the people, burnt their crops and houses and many were killed, some of the leading men were kept in Pishín in confinement for a year. The people mustered strong, stormed the Khushdil Khán fort and released their men." \* It would appear that latterly at all events such right to the revenue as existed in pre-British days, lay with the Jogízai *Sardár Khéls*, and that they levied certain contributions voluntary or otherwise from the tribesmen. In 1897 Captain Archer, then Political Agent, Zhob, computed that the annual income of the Jogízais was about Rs. 16,270 and comprised the following items :—

|                                                                                                                      | Rs. |
|----------------------------------------------------------------------------------------------------------------------|-----|
| Contributions paid by the Mando<br>Khéls ... ..                                                                      | 240 |
| Contributions paid by the Lawánas of<br>Tirwah ... ..                                                                | 200 |
| Contributions levied from the Hindu<br>traders of Mína Bázár... ..                                                   | 200 |
| Grain contributions paid by Barat Khéls,<br>Sargaras of Hindubágh, Márdánzais<br>and Haidarzais about 220 maunds ... | 550 |

\* Report on the settlement of the Hindubágh tahsil by Qási Abdulla Ján (1905).

|                                                                                                                                                                                    | Rs.    | (LAND<br>REVENUE. |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------|
| Contribution for <i>barazar</i> or noon-day meal ... ..                                                                                                                            | 80     |                   |
| One sheep annually from every flock in Central Zhob and the hills lying to the north of it and from flocks passing through the valley to the grazing ground ( 3,000 sheep ) ... .. | 12,000 |                   |
| Transit dues at Rs. 2-8 per camel load of merchandise passing through the country ... ..                                                                                           | 3,000  |                   |

When the country passed into the hands of the British Government, the contributions levied by the Jogizais ceased, and they were compensated by *muáfis* and allowances which are mentioned later. The revenue was imposed at the rate of one-sixth of the gross produce, which is the existing rate (1906), and it is levied by division of the grain heap (*batáí*) or appraisalment of standing crops (*tashkhis*) and in some cases by a cash rate on green crops. Government takes the same share of the straw also, but the straw of rice and millets (*china* and *kangni*) is not taxed. In 1895—7, Mr. J. A. Crawford, the Revenue Commissioner, imposed cash assessments for short times varying from three to five years on 116 irrigated villages in Central and Upper Zhob, the annual assessment being Rs. 21,822 including Rs. 320 on account of grazing tax payable by 16 Mehtarzai villages in Hindubágh. These assessments were based upon the consent of the people concerned and upon an average of the Government share of the produce in past years, converted into cash at moderate rates, the cash total being subject to a remission of 10 per cent. On the termination of these contracts, the old system was reintroduced, though in a few villages in the Fort Sandeman *tabsil* temporary contracts still exist.

As already mentioned the revenue on miscellaneous crops is assessed by rough measurements in cash at rates which

Cash rates on miscellaneous crops.

LAND REVENUE. vary. The following table shows the rates at present (1906) prevalent in each tahsil:—

| Name of Place.                       | RABI PER ACRE.                                    |                                                             |                                                             |                | KHARÍF PER ACRE. |                               |                                                   |
|--------------------------------------|---------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|----------------|------------------|-------------------------------|---------------------------------------------------|
|                                      | <i>Sabz khurda</i> or crops cut green for fodder. | Sweet melons.                                               | Water-melons.                                               | Onions.        | Lucerne          | Carrots and other vegetables. | <i>Sabz khurda</i> or crops cut green for fodder. |
| Fort Sandeman tahsil.                | Rs. 10.                                           | Rs. 18, 13, and 9 on 1st, 2nd, and 3rd class, respectively. | Rs. 18, 13, and 9 on 1st, 2nd, and 3rd class, respectively. | .....          | As. 4 per maund. | ... ..                        | Rs. 10                                            |
| Hindubágh and Kila Saifulla tahsils. | Rs. 8-5-4                                         | Rs. 4, 6, and 8.                                            | Rs. 4, 6, and 8.                                            | Rs. 10 and 18. | Rs. 8-5-4        | Rs. 5.                        | Rs. 8-5-4                                         |

Sale of revenue grain. The Government share of revenue grain and straw ascertained by *batái* or *tashkhis* is generally sold back to the *zamindárs* at reasonable rates which have to be approved, for each harvest, by the Revenue Commissioner.

Survey and Settlement. With the exception of a few villages in the Fort Sandeman tahsil, which are under temporary cash assessment, fixed cash assessment has not been introduced in any part of the District. In the two tahsils of the Upper Zhob subdivision, i. e., Hindubágh and Kila Saifulla, a survey was made and records of rights prepared in 1901-02. As a preliminary step to settlement operations, boundaries of *mauzas* or villages were fixed and a traverse survey was made by an officer of the Survey Department of India. The survey was made on the plane table system and maps were prepared on the scale of 16 inches to a mile or 60 *karams*\* to an inch. The operation were confined only to irrigable lands and such *sailába*, *khushkába*, and uncultivated plots as came within the limits of irrigable area. Kákar Khurásán and the village of Kajír in the Hindubágh tahsil were excluded from the operations.

\* A *karam* is equivalent to two paces.

## SURVEY AND SETTLEMENT.

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In the Hindubagh tahsil the survey was field to field in all circles except Kazha which was subjected to *thakbast* \* owing to the *khám* (temporary) division of land prevalent there. In the Kila Saifulla tahsil, all villages were subjected to *thakbast* survey owing to the *khám* division of land except in certain villages (most of which are situated on hill sides) in which the survey was made field to field. The following table shows the area surveyed in each tahsil:—

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REVENUE.

| Tahsil.     | No. of Villages. | No. of Estates. | No. of Holdings. | Irrigable Area in Acres. | Gardens. | Dry Crop Land. | Total Cultivable Area. | UNCULTIVATED.    |                                 |                               |        | Grand Total. |        |
|-------------|------------------|-----------------|------------------|--------------------------|----------|----------------|------------------------|------------------|---------------------------------|-------------------------------|--------|--------------|--------|
|             |                  |                 |                  |                          |          |                |                        | Culti-<br>vable. | Chá-<br>ma or<br>Grass<br>Land. | Un-<br>cul-<br>tivar-<br>ble. | Total  |              |        |
|             |                  |                 |                  |                          | Acres.   | Acres.         | Acres.                 | Acres.           | Acres.                          | Acres.                        | Acres. | Acres.       |        |
| Kila        |                  |                 |                  |                          |          |                |                        |                  |                                 |                               |        |              |        |
| Saifulla... | 52               | 114             | 1,356            | 31,643                   | 29       | 55             | 21,733                 | 6,676            | 17                              | 1,381                         | 8,574  | 30,307       |        |
| Hindubagh   | 75               | 863             | 7,018            | 17,778                   | 71       | 380            | 13,229                 | 6,342            | 71                              | 8,694                         | 15,107 | 33,336       |        |
| Total       | ...              | 127             | 477              | 8,374                    | 39,427   | 100            | 435                    | 39,962           | 13,018                          | 88                            | 10,575 | 23,381       | 63,643 |

\* A survey showing only the boundaries and different classes of land in an estate as distinguished from field to field survey.

LAND  
REVENUE.Record of  
rights and  
its mainte-  
nance.

In the course of the Settlement Survey a record of rights was prepared for each of these tahsils and included Index to Settlement record ; list of assessment ( column of assessment left blank ), Field map ; Field index ; *Fahrist mahál-wár* or list of documents relating to each estate ; pedigree table of proprietary body ; statement showing division of water ; statement showing number of holdings, the names of owners, tenants, mortgagees, and their respective shares in the produce ; list of water mills ( column of assessment left blank ) ; statement of revenue free holdings ; and *Robkár-i-Akhír* or final orders on each record. In June, 1905, rules were issued for the guidance of revenue officials for proper maintenance of these records, and among other matters it was directed that every patwári was to maintain for each of the *maháls* or estates in his charge, a harvest inspection register ; a return of crops ; a register of mutations ; a yearly total of transfers ; *Jamabandi* or register of holdings of owners and tenants, showing land held by each and amounts payable as rent, etc., and yearly register of area, and that patwáris should first of all prepare, under the supervision of the Field kánúngos, a copy of the field maps of their own estates by means of tracings on calico, as described in Appendix VIII of the Manual of Mensuration for patwáris, this map to give only the shape of the fields and their *khasra* or numbers without giving their dimensions and to be called *shajra girdiwari*. It was to be used by the patwáris at the time of making crop inspections, and being handy and portable would be most suitable for out-door work.

It was not considered advisable to introduce a cash assessment in these tahsils as no reliable data existed on which a cash assessment could be based. The amount of revenue realized during past years by appraisement of crops did not furnish a criterion that could be relied upon, for by valuation of crops it is difficult or rather impossible to form a correct estimate of the amount that can fairly be claimed as



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the Government share. Moreover, had a cash assessment been attempted on the basis of the revenue receipts of previous years, it would have entailed a considerable loss to Government, as these years were generally bad and the receipts then stood very low; the tahsíl in general had also never been subjected to *batáí* and it was, therefore, difficult to form a correct estimate of the Government share of the produce that could have formed a basis for assessment, and lastly the people as a whole were opposed to cash assessment and a settlement by consent involved a considerable loss. The operations, however, so far as they went were not void of value. Khán Bahádúr Mír Shams Sháh, Settlement Extra Assistant Commissioner, concluded his report on the Settlement of the Kila Saifulla tahsíl by saying that "the records prepared in the Settlement, and the annual papers that shall be prepared hereafter in connection therewith will be of undoubted help in placing the revenue administration of the tahsíl on a firm basis. The record of rights would furnish an accurate and correct information to officers regarding nature of rights and other points connected with cultivation of lands. Besides, a settlement record will provide a valuable material for checking accuracy of the present rough revenue assessments and would facilitate the settlement of land disputes. Moreover in the course of the preparation of the record of rights, many inter-village and inter-tribal boundaries have been settled and it would have the effect of lessening further disputes and thus tend to increase cultivation."

As the major portion of the revenue is levied in kind, the aggregate amount collected fluctuates with the character of the agricultural seasons and the prevailing prices. Table XVI, Volume B, shows the revenue in kind realised in each tahsíl for each of the eight years from 1897-8 to 1904-5 and the average price at which each article was sold. The principal item is wheat. The largest amount of produce collected was 16,776 maunds in 1901-2, which was sold at

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REVENUE

Statistics of  
land reve-  
nue.

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an average rate of Rs. 1-14-1 a maund, and the lowest 8,128 maunds in 1900-1 which brought an average price of Rs. 2-13-2 per maund. The decrease in the latter year was attributed to the insufficient and late rains for the *rabi* crops gathered that year. In 1904-5 the total revenue in wheat amounted to 15,532 maunds and was sold at an average rate of Rs. 2-0-11 per maund. Of the total, 7,242 maunds were contributed by Kila Saifulla and the balance in about equal proportions by the Hindubágh and Fort Sandeman tahsils. The principal items of revenue from the *kharif* harvest in 1904-5 were maize 2,488 maunds (average price Rs. 2-0-5 per maund), and rice 840 maunds (R. 1-10). The largest amount of *juári* (5,756 maunds) was realised in 1903-4 (price R. 1-5-4), but only 68 maunds were collected in 1904-5 owing to failure of crops due to drought.

Table XVII, Volume B, besides embodying the figures obtained from table XVI, shows the land revenue realised in cash, such as temporary contracts, miscellaneous land revenue, tax on water mills and grazing tax during the eight years ending with March, 1905. The annual average receipts for the quinquennial period ending with the year 1901-2 amounted to Rs. 1,07,814, the highest amount Rs. 57,065, being contributed by the Fort Sandeman tahsil and the lowest Rs. 19,089 by the Hindubágh tahsil. During 1904-5, the total receipts of the District amounted to Rs. 1,01,782; Fort Sandeman tahsil Rs. 42,842; Kila Saifulla Rs. 31,481; and Hindubágh Rs. 27,459

Land  
tenures,  
Jágirs.

The land tenures of the District are of a simple nature. Government is the sole collector of revenue except in the following localities where the Jogízai *jágirdárs* are permitted to levy one-tenth of the produce as revenue—  
(a) Zarghún Khán son of Sardár Shahbáz Khán, Jogízai, from lands in the Ghutti Kárez owned by others than Jogízais; and (b) Sardár Bahádur Nawáb Bangal Khán, Jogízai, from 14½ *shaváro*z of Mánki Kárez in the Kila Saifulla

tahsíl. These *jágírs*, among others, were sanctioned in view of the importance of the position held by the Jogízais before the occupation of the valley by the British Government. The revenue free grants and allowances enjoyed by this family are mentioned later in this section.

LAND  
REVENUE.

Most of the cultivators are peasant proprietors; the only other class represented in the District are tenants, the majority of whom are only temporary. The greater part of the land remained uncultivated and was gradually occupied by the different tribes first for grazing and then for cultivation. A general distribution of the country among the principal sections of the Sanzar Khéls is said to have taken place in the time of Sanzar Nika. The division among the sections themselves was made in proportion to the number of families or among individual males. Land was also acquired as compensation for the loss of men killed in blood feuds, occasionally in part payment of bride-price, and *hamsáyahs* who had sought protection with tribes were sometimes admitted into the tribes and given a share in the tribal land. Thus the Sibzais, originally Hotak Ghilzais, were amalgamated with the Akhtarzai Kákars and given a share in land.

The origin  
and character  
of tenancies.

Cases of acquisition by purchase are also met with, and the Khostis are said to have purchased lands from the Kibzais, the Sáfis in Fort Sandeman from the Mando Khéls, and the Kabúlzai, Shamámzai and Sulaimánzai branches of the Kibzais bought the Jhalár lands from the Utmán Khéls. In these various ways a body of peasant proprietors has arisen, owning their own lands and cultivating their own fields.

The greater portion of the lands in all the three tahsís is permanently divided, but there are a few exceptions to this. The lands in Kazha in the Hindubágh tahsíl are divided for each harvest according to the shares in water held permanently and the same system applies to all irrigated lands in the Kila Saifulla tahsíl except to small

Custom of  
periodical  
distribution.

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patches of land on hill sides irrigated by small springs (*tsakhobai*).

The water raised from the Zhub river for irrigation between Bádzinzi and Mughal Kot is permanently divided, but the lands in some of the villages are liable to encroachment; by the river and in such villages periodical division of lands takes place. The Jhalár lands were purchased by the Kibzais of Gosa from the Utmán Khéls, and in 1899 they were divided among the three sections: Kabúlzai half, Shamámzai and Sulaimánzai half. The former made a permanent division of their lands among individuals, but the latter two sections hold their land jointly and distribute it for each harvest among all adult males present in the village. The lands of the Apezai village are permanently divided, but for the *kharíf* harvest in each year the water obtainable from the Siliáza stream is distributed among male members who themselves or whose families are present in the village, a minor getting half a share.

Tenants and  
tenancies.

The lands are as a rule cultivated by the landlords themselves, but in a few cases tenants are employed who are tenants-at-will, ordinarily changed after each harvest. In some cases tenants are engaged for longer periods varying from 5 to 20 years, and in such cases they cannot be ejected within the term of their tenancy. Cases of this sort are known in the Kila Saifulla and Fort Sandeman tahsils. In the latter tahsíl the *ajal* system prevails among the Mando Khéls, under which a tenant undertakes to construct a water channel, improve and cultivate waste land, bear all expenses for a fixed term of years and to pay the landlord, as rent, a share of the produce varying from one-eighth to one-tenth after deducting Government revenue. At the end of the term the land and water are handed over to the landlord without any compensation.

Size of hold-  
ings.

No information is available for the Fort Sandeman tahsíl with regard to the size of holdings, as the tahsíl has not been surveyed. In the remaining two tahsils the data are

incomplete, as no distinction had been made in the Settlement records between the number of holdings in irrigated and in dry crop areas, and large areas of this latter class outside the irrigated villages have not been surveyed. The following remarks are, therefore, necessarily incomplete.

In the Kila Saifulla tahsil the total number of holdings recorded during the survey, was 1,356, and the area of irrigable land, including gardens 21,678 acres which would give about 16 acres as the size of a holding in irrigable land. Besides this there were 6,676 acres of cultivable land which would add about another 5 acres to a holding. In the Hindubagh tahsil the total number of holdings was 7,018 and the area of the irrigable land including gardens was 17,849 which allows about  $2\frac{1}{2}$  acres as the area of a holding. The cultivable area in this tahsil was 6,342 acres which would add another acre to a holding. In connections with these statements it must be remembered that the irrigable land is classified according to its capacity to yield crops, the greater part of it yielding a crop only once in 3, 4, or 5 years.

The headman or *malik* as he is locally called, has always been a prominent figure in the village and tribal organisation, and his duties have consisted in arbitrating between disputants, in keeping order and peace, and in collecting the State demand where revenue was imposed. In areas remote from headquarters he still plays a part of no little importance. The final appointment and removal of the *maliks* rests with the Political Agent who is guided by the recommendation of the Sub-divisional officers and tribal considerations. These *maliks* are usually selected from men who are proprietors of large areas in a *mahál*, who command the respect of their tribesmen and have a recognised tribal position. Their duties are primarily to assist in the collection of the Government revenue, to keep order and to inform the tahsil officials of the occurrence of any serious crime and of other important matters. A certain

Headmen or  
*Maliks* and  
their remuneration.

LAND  
REVENUE.

number are employed in the levy service. The *maliks* are paid *lambardári* allowances (*haq-i-malikána*) on the gross land revenue, including grazing tax and tax on water mills, at a uniform rate of 5 per cent.

## Incidence.

As already mentioned the revenue is still levied in kind in the greater part of the District, and the figures of incidence of revenue per acre are not available, but the calculations made in the course of the survey (1902-3) with regard to the average annual revenue recovered from the irrigable or *ábí* cultivation during 10 years (1892-3 to 1901-2) gave the following results for the Kila Saifulla tahsíl :—

| Circle.              | Annual receipts per irrigable acre. |    |    | Annual receipts per cultivated acre. |    |    |
|----------------------|-------------------------------------|----|----|--------------------------------------|----|----|
|                      | Rs.                                 | a. | p. | Rs.                                  | a. | p. |
| Kila Saifulla ... .. | 0                                   | 11 | 10 | 1                                    | 14 | 5  |
| Ali Khél ... ..      | 1                                   | 3  | 10 | 2                                    | 11 | 10 |
| Musáfirpur ... ..    | 2                                   | 2  | 4  | 2                                    | 15 | 8  |

The incidence is comparatively low in the Kila Saifulla circle which is partly due to the fact that the area annually under crop is small and the chief crop raised is *chína* which is a cheap article.

## System of remissions and suspensions.

The revenue being levied in kind the results of indifferent seasons or of calamities adjust themselves automatically, and the necessity for suspension or remission of revenue seldom arises. Where the revenue is paid in cash, the Political Agent may direct that the whole or part of the land revenue falling due in an estate be suspended in cases of severe and continued calamity. All orders thus issued must be at once reported for the sanction of the Revenue Commissioner, who may cancel or modify them. Similarly, proposals for remission of land revenue have to be reported to

the Revenue Commissioner, who may sanction remissions up to a maximum of Rs. 250. Cases involving larger sums require the sanction of the Local Government. Remission of grazing tax and of the tax on water mills, may also be granted when there is unusual mortality due to a drought and scarcity of fodder, or when a mill has, owing to no fault on the part of the proprietor, not been in working order.

LAND REVENUE.

The rules in force are:— (a) that when waste land is reclaimed with the aid of a takávi loan and is brought under cultivation, no revenue may be assessed on it until the expiration of three years, reckoned from the beginning of the harvest first reaped after the reclamation was effected. If no takávi loan was obtained, the period of exemption may be extended to four years; (b) when *khushkába* land has been improved by irrigation with the aid of a takávi loan, the period of exemption is four years; in the case of waste land which has been improved by irrigation or of an improvement, either of *khushkába* or waste, which has been made without the aid of a loan, the period of exemption may be extended to five years; (c) new water mills, constructed with or without the aid of Government loans, are, on sufficient reasons being shown, exempt from taxation for two or three years as the case may be. In special cases these periods may be further prolonged.

Exemption to improvements from revenue.

No final decision has yet been arrived at in regard to waste land. In the draft of the proposed Land Revenue Regulation for Baluchistán, which is still ( 1905 ) under consideration, a provision has been included giving Government the presumptive right to all lands comprised in hills, forests, and to unclaimed or unoccupied land.

Waste lands.

Under the provisions of the Civil Justice Law and Regulation, agricultural land cannot be sold in execution of a decree without the sanction of the Local Government, and it is usually made a condition of the sale that the land shall not be sold to non-agriculturists. In the draft Land Revenue Regulation above referred to, a provision has been made

Restrictions against transfer of land to non-agriculturists.

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REVENUE.

that no agricultural right in land shall be alienated by transfer, sale, gift, mortgage, or other private contract to any person—(1) who is not entered in a record of rights as a member of the proprietary body of an estate; or (2) if the transferee is resident in a part of Baluchistán where no such record of rights has been prepared, unless the transferee is a Pathán or Baloch land owner, and unless he is approved by the headmen of the village where the land is situated. This draft has not yet (1905) become law, but its provisions are taken as a guide and land cannot be sold and mortgaged with possession to aliens without the permission of the District officer.

Government  
land and  
water.

The total area of Government land occupied by the Fort Sandeman Civil and Military station is 558 acres, of which 229 acres lie in the Civil and 329 in Military limits. The greater part of this land was waste and no compensation was therefore paid for it. Payment was, however, made for—(a) 30 acres of land and 3-20ths of the Siliáza water bought in 1890 for Rs. 1,400 from military funds; (b) 18½ acres of land bought for Rs. 882-12-0 from Provincial Revenues for the Zhob Levy Corps lines, and 4 acres bought from the Bazar Fund; and (c) 4-20ths of the Siliáza water purchased in 1897 for Rs. 6,600 from Provincial Revenues. The Government, therefore, owns 7-20ths of the Siliáza stream, the water of which is used for the irrigation of gardens and roadside trees and of land leased for cultivation, the lessees paying one-third of the produce as revenue and rent.

In the course of the revenue survey the area of Government lands in Hindubágh tahsíl was ascertained to be 87 acres, chiefly under roads, rest houses, and other Government buildings, but including also about 2 acres of land taken up for a Government garden. This latter land and also one-eighteenth of the whole supply or half *shaváros* of the Kam Káréz were purchased for Rs. 225-12-6 and Rs. 400, respectively.



## GRAZING TAX.

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In the Kila Saifulla tahsil the Government lands measured by the Settlement staff in 1902-3 amounted to 106 acres, of which 9 acres were irrigable, 69 acres cultivable and 28 acres uncultivable. This includes about 62 acres\* of land at Tánishpa, which, with a spring of water, was purchased in 1892 for Rs. 2,660 from Murád Ali and Mullá Bostán Sháhézai. A portion of this is leased for cultivation and one-third of the produce is levied as rent and revenue.

LAND  
REVENUE.

The number of water mills in each tahsil is shown in the following statement:—

| Tahsil.           | Revenue Free. | Revenue Paying. |
|-------------------|---------------|-----------------|
| Fort Sandeman ... | 6             | 14              |
| Hindubágh ...     | 1             | 28              |
| Kila Saifulla ... | 4             | 7               |
| Total ...         | 11            | 49              |

The water mills are assessed annually, the basis of assessment being one-sixth of the receipts.

The average assessment per water mill for the year 1904-5 amounted to Rs. 12-11-7 in the Fort Sandeman tahsil, Rs. 3-14-11 in Hindubágh, and Rs. 12-14-10 in the Kila Saifulla tahsil.

In pre-British days the flockowners gave a sheep or goat annually from every flock to the Jogízai *sardár*. Grazing tax or *tírni* was for the first time levied in the District in 1891-2 at the following rates which were sanctioned for the whole of the Agency:—

|              |     |     | Rs. | a. | p. |
|--------------|-----|-----|-----|----|----|
| Male camel   | ... | ... | 0   | 8  | 0  |
| Female camel | ... | ... | 1   | 0  | 0  |

\* The Political Agent's office records show that the area acquired at Tánishpa is 52 acres, 3 roods, 33 poles, of which 43 acres, 1 rood, 1 pole are culturable.

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LAND  
REVENUE.

|                      | Rs. | a. | p. |
|----------------------|-----|----|----|
| Buffalo ... ..       | 0   | 8  | 0  |
| Cattle ... ..        | 0   | 6  | 0  |
| Donkey ... ..        | 0   | 4  | 0  |
| Sheep or goat ... .. | 0   | 1  | 0  |

Animals which are exempt include horses, *bona fide* plough bullocks, and milch cows kept for private use by villagers.

Collections are carried out once a year by the tahsíl establishment with the aid of the headmen, either by actual enumeration of the cattle (*mál shumári*), or by temporary contracts (*ijáras*). In cases of nomads, the enumeration system is generally adopted. Headmen who assist are paid 5 per cent. on the collections as their remuneration. The income derived from the grazing tax collected throughout the District during the year 1904-05 was as follows:—

|                              | Rs.    |
|------------------------------|--------|
| From settled inhabitants ... | 17,758 |
| From nomads ... ..           | 22,395 |

---

Total ... Rs. 40,153

---

The proceeds of the tax are credited into the District accounts under Land Revenue, and the average collections of the quinquennial period, ending with the 31st of March, 1905, show that the sum obtained from it amounted to 33 per cent. of the total land revenue receipts, of which 17 per cent. was contributed by the settled inhabitants and 16 per cent. by nomads.

Special arrangements have been made with the Sulaimán Khéls for the grazing tax payable by them and these have been described in detail under population.\* The tax paid by them has averaged Rs. 2,062 per annum between 1898-9 and 1903-4, while the receipts in 1904-05 were only Rs. 550. In 1905-6 they rose to Rs. 906. The headmen are paid allowances aggregating Rs. 1,550 per annum.

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\* Page 82, Sulaimán Khéls.

In 1896 it was brought to notice that the Powindahs proceeding from Afghánistán through Zhob to the Punjab were taxed thrice, viz., in Afghánistán, Zhob and Déra Ismáíl Khán and the Punjab Government and the Agent to the Governor-General agreed that Powindahs proceeding to the Punjab through the Záo, Chúhar Khél Dahána and Vihowa passes, should, in future, be taxed only once in Zhob and at Zhob rates, and that the collections realized from these Powindahs whether they stayed a long or short time in Zhob should be shared between the Punjab and Zhob in the proportion of three-fifths and two-fifths respectively, after deducting the cost of collecting establishment; the arrangement was first introduced for 2 years from April, 1897, but was subsequently extended to March, 1902. From 1897-8 to 1900-1 the total receipts amounted to Rs. 18,803, the expenditure on establishment and *lambar-dári* allowances was Rs. 2,021, leaving net receipts Rs. 16,782, of which Rs. 10,069 were credited to the Punjab Government.

On the creation of the North-West Frontier Province, and the transfer to it, among others, of the Déra Ismáíl Khán District from the Punjab, the question of apportionment of this revenue came under consideration, and it was arranged in 1903 between the North-West Frontier Province and Baluchistán administrations that the rates of grazing tax on all Powindahs proceeding by passes between the Gomal and the Khar pass should be raised to the amounts noted in the

|                       |                       |                    |
|-----------------------|-----------------------|--------------------|
| * Male camels, from   | As. 8 to 12 per head. | margin,* and that  |
| Female camels, from   | Rs. 1 to 1-8 "        | no Zhob posts for  |
| Sheep and goats, from | As. 1 to 2 "          | the collection of  |
| Cows and bullocks,    | As. 6 old rate "      | grazing tax should |
| Donkeys,              | As. 4 old rate "      |                    |

be established east of Domandi, save the one at Mír Ali Khél. The Agent to the Governor-General in Baluchistán agreed to make over to the North-West Frontier Province a lump sum, at the end of the season, being four-fifths of the amount evidenced by such of the *tirni* receipts issued by Zhob officials as the establishment at Murtaza. (North-West

## 250 CHAP. III.—ADMINISTRATIVE.

LAND  
REVENUE.

Frontier Province) may be able to collect from Powindahs that have reached that point from Zhob.

Revenue free grants, grain and cash allowances.

A detailed list of revenue free grants, grain and cash allowances sanctioned from time to time since the occupation of the District in 1890 is given in table XVIII, Volume B. The aggregate value of these grants on March 31, 1905, was Rs. 11,262-4-2 which represents about 11 per cent. of the total land revenue, and the following statement shows the distribution by tahsils:—

|                       | Land re-<br>venue. | Grazing<br>tax. | Water<br>mills. | Grain al-<br>lowances | Cash al-<br>lowances | Total.     |
|-----------------------|--------------------|-----------------|-----------------|-----------------------|----------------------|------------|
|                       | Rs.                | Rs.             | Rs.             | Rs.                   | Rs.                  | Rs.        |
| Fort Sandeman tahsil. | 951-5-11           | 33-4-0          | 20-0-0          | .....                 | .....                | 1,004-9-11 |
| Hindubagh tahsil.     | 245-8-9            | 27-12-0         | .....           | 753-0-0               | .....                | 1,026-4-9  |
| Kila Saifulla tahsil. | 1,701-7-6          | 310-14-0        | 49-0-0          | 7,020-0-0             | 250-0-0              | 9,231-5-6  |
| Total                 | 2,898-6-2          | 271-14-0        | 69-0-0          | 7,773-0-0             | 250-0-0              | 11,262-4-2 |

These figures do not include—(1) the land revenue and grazing tax *muáfi* enjoyed by the Haripáls in the Fort Sandeman tahsil, and (2) the grazing tax *muáfi*, of the Mukám Kahol of the Kila Saifulla Jogízais, the value of which has not been ascertained. Most of these *muáfis* are for the life time of the grantees, and some for shorter terms, and all are subject to the usual conditions of future good service and loyalty to Government. The *muáfis* enjoyed by—(1) the Haripáls; (2) the keepers of the shrine of Husain Nika; and (3) the Jogízais may be specially mentioned.

The Haripál  
*muáfi*.

The Haripáls are a small tribe (1,593 persons), inhabiting the western slopes of the Shin-ghar range. They claim to be Saiads and are held in considerable respect by the

neighbouring tribes. Tradition states that they were invited to take up their present position by the Mando Khéls and Shfránis in order to ensure that part of the country against the Wazír raids, and it is a curious fact that during our occupation of Zhob, the Wazírs have never raided Shín-ghar. When the Zhob valley was first occupied (1890), the neighbouring tribes petitioned that the Haripáls should be exempted from the payment of revenue and their lands and cattle were accordingly exempted from taxation, until further orders. The cultivation of the Haripáls is not very extensive, but they have a considerable number of flocks, and many of them are engaged in trade.

LAND  
REVENUE.

This shrine is held in much respect by the people of Fort Sandeman and especially by the Sulaimán Khéls who are an important tribe and of whom some few winter in the District. It was at the request of the Sulaimán Khéls, with whom it is very desirable to maintain and cement political relations, that this *muáfi* was sanctioned until further orders. The land in respect of which *muáfi* was sanctioned measures 62 acres, 1 rood, and 4 poles, and its annual revenue is about Rs. 114.

Husain Nika  
Shrine *muáfi*.

As already mentioned in the sections on **History** and **Population** the Jogízai group among the Kákars have always enjoyed a position of great importance and influence. Writing in 1897 Captain Showers, then Assistant Political Agent, Upper Zhob said: "The Jogízais like other Kákars, trace their origin back through some 23 generations to Central Asian nomads who migrated southwards sometime before we hear of Kák . . . . Fourth in descent from Kák comes Sanjar who gave his name to the Sanjar Khél Kákars included among whom are the bulk of the Kákars in the Zhob District. Sanjar's eldest son was Ali, and from Ali in direct succession by the elder branch through eight generations we get Jogi, the ancestor of the Jogízai clan. The Jogízais thus by right of birth stand at the head of

Grants to the  
Jogízais of  
Kila Saifulla.

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**LAND**      all the Kákar tribes. It is this position of the Jogízais as  
**REVENUE,** the direct elder branch of the Kákars that gives them their  
 importance. Even distant branches, such as the Sanatia  
 Kákars, who have long ceased to have any direct relations  
 with the elder branch, hold the Jogízais in respect. With  
 nearer branches and especially with all those descended  
 from Ali and now known as Shádozais or Drepláris (the  
 Bátozais, Ismáílzais, Daulatzais, Ghorézais, Haidarzais, etc.,  
 who inhabit central Zhob) their position has always been  
 fully recognised. They are also said to have been consi-  
 dered the priests of the tribe which has doubtless even  
 further extended their influence and authority. It is quite  
 certain that large voluntary contributions have always been  
 made them for their subsistence by the other tribes of  
 central Zhob.

“Sanjar had 13 sons, and in the distribution of land  
 that took place among them, the portion that fell to Ali,  
 and through him to his descendants Jalál and Jogi, was  
 the hilly country lying to the north of the central Zhob  
 valley and comprising tracts now known as Khaisára, Rod  
 Jogízai, Khushnob, etc. The country consists principally  
 of grazing grounds, but there are some cultivable pieces  
 also. It was not until comparatively recently, some 3 or 4  
 generations ago, that the clan acquired the lands they  
 now possess near Kila Saifulla in the main valley. It was  
 about this time too that the clan, having waxed numerous  
 and powerful, assumed a new character, and were able to  
 exact by force, contributions other than those voluntarily  
 made them by the Ali tribes. Their preponderance in  
 central Zhob, therefore, became greater than ever, and at  
 the time of our advent among them in 1890, they were  
 undoubtedly the leading and ruling family in the  
 country.”

The principal personages among the Jogízais before  
 the Zhob valley was occupied were — (1) Sháh  
 Jahán, grandfather of S. B. Muhammad Akbar Khan

## JOGIZAI GRANTS.

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LAND  
REVENUE.

the present leader of the Nawáb Kahol; (2) Dost Muham-mad, father of the late S. B. Nawáb Bangul Khán; and (3) Shahbáz Khán, father of Zarghún Khán. The value of the contributions received by the Jogízais from neighbouring tribes and of the transit dues collected by them on merchandise that passed through the country previous to the British occupation, was estimated by Captain Archer to be Rs. 16,270, details of which have already been given under early history of land revenue. These contributions and dues levied by the Jogízais naturally ceased on the occupation of the District by the British, and it was in consideration of these sources of income lost to the Jogízais and to the important position held by them that grain allowances (4,175 maunds), cash allowances (Rs. 5,940 per annum), Levy service (Rs. 3,840 per annum), and land revenue-free grants (valued at Rs. 925) were granted to the Jogízai family. In 1897, fresh proposals were submitted by Captain Archer, then Political Agent, to improve the

|                                       | Rs.   |
|---------------------------------------|-------|
| *Cash allowance ...                   | 5,940 |
| Benefit from Levy Ser-<br>vice ... .. | 1,260 |
| Value of Grain Grants...              | 9,170 |
| Value of <i>Muáfts</i> ...            | 925   |

position of this family. He computed that the direct benefit derived by them from various concessions made amounted annually to Rs. 17,295; and, though this exceeded by about Rs. 1,000, the estimated value

of what they received before the British took over the country, he advocated that it was for a number of reasons expedient to treat them liberally, and he pointed out that there was no doubt that in addition to the regular and *quasi*-voluntary contributions, many of the members of the family had managed to obtain considerable additions to their income by methods which we should be apt to call plunder and extortion, but which were not severely regarded by the public opinion of the country; that the family was already large and must be expected to increase; that the younger branches

## 254      CHAP. III.—ADMINISTRATIVE.

LAND  
REVENUE.

and the younger members of the elder branches were very badly off, while their character as Jogízais prevented their merging into the general population as common labourers; and that the expenses of the chief men, and especially those of the working chief, S. B. Muhammad Akbar Khán, were now very heavy, part of them being incurred in connection with Government work. On the recommendation, therefore, of Captain Archer, the following further grants were sanctioned for the Jogízais, the cash allowances being given from the Levy Service :—

(1) The grant of monthly allowances of Rs. 50 to Said Khán and Ayúb Khán, sons of Sháh Jahán Khán; Rs. 30 each to Kalandar and Gul Karam, half-brothers of S. B. Bangul Khán; Rs. 30 to Dewána and Báz, nephews of Dost Muhammad; Rs. 10 to Paigul, Jalálzai; and (2) the remission of the whole of the Jogízai grazing tax.

Hill Jogízais. The hill Jogízais are represented by the headman Khande Khán who did good service in bringing about the capture of the outlaw, Gola, Músá Khél, who had committed numerous outrages in Zhob. He also did excellent service with the Baloch-Afghán Boundary Commission. In 1899 the Government of India sanctioned the remission of the grazing tax in favour of these Jogízais on the understanding that if the flocks of the tribe ever became so numerous that the tax on them would exceed Rs. 200 a year, the tax would be levied on all animals in excess and distributed proportionately over the owners. In 1903 the remission of land revenue on the entire lands at Rod Jogízai held by Khande Khán with others (valued at Rs. 142-10-7) was also sanctioned. These concessions were in addition to the Levy service and grain allowance (250 maunds) enjoyed by Khande Khán.

The Jogízai land revenue *muáfis* amounted on the 31st of March, 1905, to Rs 8,813-4-4, excluding the grazing tax remitted in favour of the Mukám Kahol Jogízais. The



## JOGIZAI GRANTS.

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following table shows the details of the *muáfis*, etc., excluding Levy Service, enjoyed by this family :—

LAND REVENUE.

| Name of Recipients.                        | Land Revenue. |     |     | Grazing Tax. |     |     | Water Mills. |     |     | Grain Allowances (value computed at Ans. 2 a Maund). |     |     | Cash Allowances. |     |     | TOTAL. |    |    |
|--------------------------------------------|---------------|-----|-----|--------------|-----|-----|--------------|-----|-----|------------------------------------------------------|-----|-----|------------------|-----|-----|--------|----|----|
|                                            | Rs.           | a.  | p.  | Rs.          | a.  | p.  | Rs.          | a.  | p.  | Rs.                                                  | a.  | p.  | Rs.              | a.  | p.  | Rs.    | a. | p. |
| <i>Mukám Kahól.</i><br><i>Nawáb Kahól.</i> |               |     |     |              |     |     |              |     |     |                                                      |     |     |                  |     |     |        |    |    |
| S. B. Muhammad Akbar Khán ...              | 257           | 11  | 1   | ...          | ... | ... | 15           | 0   | 0   | 2,000                                                | 0   | 0   | ...              | ... | ... | 2,272  | 11 | 1  |
| Said Khán ...                              | ...           | ... | ... | ...          | ... | ... | ...          | ... | ... | 200                                                  | 0   | 0   | ...              | ... | ... | 200    | 0  | 0  |
| Narre Khán ...                             | ...           | ... | ... | ...          | ... | ... | ...          | ... | ... | 200                                                  | 0   | 0   | ...              | ... | ... | 200    | 0  | 0  |
| Mir Háji ...                               | ...           | ... | ... | ...          | ... | ... | ...          | ... | ... | 200                                                  | 0   | 0   | ...              | ... | ... | 200    | 0  | 0  |
| Shádi Gul ...                              | ...           | ... | ... | ...          | ... | ... | ...          | ... | ... | 200                                                  | 0   | 0   | ...              | ... | ... | 200    | 0  | 0  |
| Muhammad Sadiq ...                         | ...           | ... | ... | ...          | ... | ... | ...          | ... | ... | 100                                                  | 0   | 0   | ...              | ... | ... | 100    | 0  | 0  |
| Lájwar ...                                 | ...           | ... | ... | ...          | ... | ... | ...          | ... | ... | 100                                                  | 0   | 0   | ...              | ... | ... | 100    | 0  | 0  |
| Muhammad Afzal ...                         | ...           | ... | ... | ...          | ... | ... | ...          | ... | ... | ...                                                  | ... | ... | 250              | 0   | 0   | 250    | 0  | 0  |
| Total...                                   | 257           | 11  | 1   | ...          | ... | ... | 15           | 0   | 0   | 3,000                                                | 0   | 0   | 250              | 0   | 0   | 3,522  | 11 | 1  |
| <i>Isháq Kahól.</i>                        |               |     |     |              |     |     |              |     |     |                                                      |     |     |                  |     |     |        |    |    |
| S. B. Nawáb Bangul Khán ...                | 450           | 0   | 0   | ...          | ... | ... | 20           | 0   | 0   | 2,000                                                | 0   | 0   | ...              | ... | ... | 2,470  | 0  | 0  |
| Tájuddin ...                               | 48            | 2   | 10  | 10           | 14  | 0   | ...          | ... | ... | 200                                                  | 0   | 0   | ...              | ... | ... | 259    | 0  | 10 |
| Zarghán Khán ...                           | 160           | 15  | 4   | ...          | ... | ... | ...          | ... | ... | 300                                                  | 0   | 0   | ...              | ... | ... | 460    | 15 | 4  |
| Luni Khán ...                              | 72            | 11  | 1   | ...          | ... | ... | ...          | ... | ... | 100                                                  | 0   | 0   | ...              | ... | ... | 172    | 11 | 1  |
| Bahmán Ján ...                             | 51            | 0   | 11  | ...          | ... | ... | ...          | ... | ... | 100                                                  | 0   | 0   | ...              | ... | ... | 151    | 0  | 11 |
| Diwánah Khán ...                           | 106           | 3   | 1   | ...          | ... | ... | ...          | ... | ... | 400                                                  | 0   | 0   | ...              | ... | ... | 506    | 3  | 1  |
| Omah Khán ...                              | ...           | ... | ... | ...          | ... | ... | ...          | ... | ... | 100                                                  | 0   | 0   | ...              | ... | ... | 100    | 0  | 0  |
| Shér Khán ...                              | ...           | ... | ... | ...          | ... | ... | ...          | ... | ... | 100                                                  | 0   | 0   | ...              | ... | ... | 100    | 0  | 0  |
| Musamát Zallí ...                          | ...           | ... | ... | ...          | ... | ... | ...          | ... | ... | 100                                                  | 0   | 0   | ...              | ... | ... | 100    | 0  | 0  |
| Musamát Zárngi...                          | ...           | ... | ... | ...          | ... | ... | ...          | ... | ... | 70                                                   | 0   | 0   | ...              | ... | ... | 70     | 0  | 0  |
| Jamál Khán ...                             | ...           | ... | ... | ...          | ... | ... | ...          | ... | ... | 50                                                   | 0   | 0   | ...              | ... | ... | 50     | 0  | 0  |
| Total...                                   | 889           | 1   | 3   | 10           | 14  | 0   | 20           | 0   | 0   | 3,520                                                | 0   | 0   | ...              | ... | ... | 4,439  | 15 | 3  |

LAND  
REVENUE.

| Name of<br>Recipients.                                           | Land<br>Revenue. |     |     | Grazing<br>Tax. |     |     | Water<br>Mills. |     |     | Grain<br>Allowances (value<br>computed<br>at Ans. 2<br>a Maund). |     |     | Cash<br>Allow-<br>ances. |     |     | TOTAL. |    |    |
|------------------------------------------------------------------|------------------|-----|-----|-----------------|-----|-----|-----------------|-----|-----|------------------------------------------------------------------|-----|-----|--------------------------|-----|-----|--------|----|----|
|                                                                  | Rs.              | a.  | p.  | Rs.             | a.  | p.  | Rs.             | a.  | p.  | Rs.                                                              | a.  | p.  | Rs.                      | a.  | p.  | Rs.    | a. | p. |
| Hill Jogizais<br>Mulla Mu-<br>hammad,<br>Rahim of<br>Rod Jogizai | 7                | 15  | 5   | ...             | ... | ... | ...             | ... | ... | ...                                                              | ... | ... | ...                      | ... | ... | 7      | 15 | 5  |
| Khande Khán<br>and others of<br>Rod Jogizai...                   | 142              | 10  | 7   | ...             | ... | ... | ...             | ... | ... | *500                                                             | 0   | 0   | ...                      | ... | ... | 642    | 10 | 7  |
| Mitha Khél<br>and Bostán<br>Khél.                                | ...              | ... | ... | 200             | 0   | 0   | ...             | ... | ... | ...                                                              | ... | ... | ...                      | ... | ... | 20     | 0  | 0  |
| Total...                                                         | 150              | 10  | 0   | 200             | 0   | 0   | ...             | ... | ... | 500                                                              | 0   | 0   | ...                      | ... | ... | 350    | 10 | 0  |
| GRAND TOTAL...                                                   | 1,297            | 6   | 4   | 210             | 14  | 0   | 35              | 0   | 0   | 7020                                                             | 0   | 0   | 250                      | 0   | 0   | 8,813  | 4  | 4  |

MISCELLA-  
NEOUS  
REVENUES  
Salt.

The salt used by the indigenous population in the Zhob District is the earth salt made locally by the Lawánas, Mirzais, Jalálzais, and Daulatzais in the Upper Zhob sub-division. The method of its manufacture has already been described in the section on **Mines and Minerals**. This salt is not at present (1905) taxed, as its out-put is small and the cost and difficulties of collection are great. The alien population residing chiefly at Fort Sandeman and at other tahsíl headquarter stations and out-posts use the Punjab rock salt which pays duty at the mines.

## Opium.

The import, possession, and transport of opium and poppy heads is governed by rules issued by the Local Government in 1898 under the Opium Act. The cultivation of poppy is prohibited, and the supply required for local consumption is imported from the Punjab, under pass, by licensed vendors, who make their own arrangements for procuring it. Such imports pay no duty.

The exclusive right of retailing opium, preparations of opium other than smoking preparations, and poppy heads

\* Only Khande Khán.

for ordinary purposes, is disposed of annually by auction by the Political Agent, subject to the sanction of the Revenue Commissioner, the number of shops at which sale is permitted, having been previously fixed. In 1904-5 the number of such shops was 11. Medical practitioners and druggists can obtain licenses to sell opium in forms other than smoking preparations, and poppy heads, for medicinal purposes only, on payment of a fee of Rs. 10 per annum. Smoking preparations may not be bought or sold, and must be made up by the smoker from opium in his lawful possession, and then only to the extent of one tola at a time. The ordinary limits of private possession are three tolas of opium and its preparations (other than smoking preparations), and one seer of poppy heads. In 1904-5 the consumption of opium amounted to 24 seers 9 chittacks and of poppy heads 2 seers. The revenue realised was Rs. 640.

MIS-  
CELLANEOUS  
REVENUE.

Besides opium, the intoxicating or hemp drugs, which are controlled by regulations, are *gánja*, *charas*, and *bháng*. Prior to the time of the Hemp Drugs Commission, the only restriction imposed was to farm out, by annual auction, the monopoly of the vend of these drugs at shops sanctioned by the Political Agent. The local cultivation of the hemp plant was stopped in 1896 throughout the Province and the contracts for retail and wholesale vend were separated in 1902. At the present time (1905) the number of licensed shops is 11. The ordinary source of supply is the Punjab and Sind. In February, 1902, revised rules were issued, under which the farmers are permitted to import the drugs from other British provinces in bond; and these when so imported, are stored in a bonded warehouse established at Sibi, where small fees are levied and issues to licensed vendors are taxed. The ordinary rates\* of duty on drugs imported from British territory are Rs. 4 per seer on *gánja*; Rs. 80 per maund on *charas*, and Rs. 4 per maund on *bháng*, but imports from foreign territory are taxed at double rates.

Intoxicating  
drugs.

\* The question of the revision of these rates is under consideration (1906).

MIS-  
CELLANEOUS  
REVENUE.

The contracts for the right to sell the drugs, both by retail and wholesale, are sold annually by auction by the Political Agent, subject to the sanction of the Revenue Commissioner, who also fixes the number of shops. The ordinary limit of private possession is one seer in the case of *bhang*, and five tolas in the case of *gánja* and *charas*. The consumption in 1904-5 was *charas* 2 maunds 25 seers, and *bhang* 2 maunds 7 seers, while no *gánja* was sold; the revenue amounted to Rs. 2,200.

Country  
spirits and  
rum.

The manufacture and vend of country spirits and rum are combined under a monopoly system. The right to manufacture and sell country liquors including rum is farmed annually by auction, the number of shops at which liquor is to be sold by the farmer or his agent being fixed previously. The number of such shops in 1905 was 11. More than one seer of country liquor cannot be sold to any one person at a time, except with the permission, in writing, of an Excise Officer authorised on this behalf by the Political Agent. No minimum price is imposed nor has the liquor to be of any specified strength. The revenue in 1904-5 was Rs. 6,200 for country liquor and Rs. 610 for rum.

Distillation of  
country  
liquor.

The distillery at Fort Sandeman belongs to a private individual, who generally holds the contract for the vend of country liquors. The supply to out-stations is sent from Fort Sandeman. The materials ordinarily used in the distilling of liquor are molasses (*gur*) and *kikar* or *babúl* bark. When preparing for fermentation, about 2 maunds of *gur* are mixed with ten seers of bark and 4 maunds of water, the wash being ready for use in about 12 days in summer and in about 16 days in winter. Liquor of low strength, obtained from the first distillation of 6 hours, is called *kacha* or *chirakkh*. This *chirakkh* after a second distillation, lasting for about 12 hours, is known as *kora doátsha*. Flavoured liquors are prepared by the addition of spices such as *iláchi* (cardamom), *turanj* (citron), *guláb* (rose leaves), *saunf* (aniseed), *sund* (dry ginger),

and *gázar*, or carrot seeds. The selling price varies from R. 1-2-0 to R. 1-4-0 per quart bottle according to the quality of the liquor.

MIS-  
CELLANEOUS.  
REVENUE.

Foreign liquors, which term includes liquors other than rum manufactured in other parts of India and imported into the District, are sold under wholesale and retail licenses, which are granted by the Political Agent on payment of fixed fees. These amount to Rs. 32 per annum for wholesale licenses, and Rs. 150 per annum for ordinary retail shops. There are also *dák* bungalow licenses. The most important conditions of retail licenses are, that no quantity of liquor greater than two imperial gallons, or twelve quart bottles, or less than one bottle, shall be sold to any one person at one time, and that no spirituous liquor, except spirits of wine and methylated spirits, shall be sold for less than R. 1-8-0 per bottle. The latter provision is mainly intended to safeguard the revenue derived from country spirits. During 1904-05 1 wholesale, and 3 retail licenses, including one for a *dák* bungalow, were issued and the fees amounted to Rs. 247.

Foreign  
liquors.

The import, possession, and sale of methylated spirits is controlled by rules\* issued by the Revenue Commissioner in December, 1900, and no fees are charged for licenses. No such licenses have yet ( 1905 ) been issued in Zhob.

Methylated  
spirits.

The consumption of opium, intoxicating drugs and liquors is chiefly confined to the Indian population at Fort Sandeman and other parts of the District; a small quantity of *charas* is also used by the *Kandaháris* engaged in melon growing at Fort Sandeman and *Hindubágh*. There is no consumption of these articles by the indigenous population.

Consumers,  
consumption,  
and aggregate  
revenue.

Table XIX, Volume B, contains details of the consumption of, and revenue from, the principal articles in the old Zhob District from the year 1890-1 to 1902-3, and for the new District for 1903-4 and 1904-5. In 1904-5 the consumption per thousand of the entire population was — 5 chittacks of opium,  $1\frac{1}{2}$  seers of *charas*, and  $1\frac{1}{2}$  seers of *bhang*.

\* Chapter III, Baluchistan Excise Manual, 1902.

MIS-CELLANEOUS REVENUE.

In the old District, the average revenue per annum from 1890-1 to 1902-3 was Rs. 15,274, the highest sum realised being Rs. 18,418 in 1901-2 and the lowest Rs. 11,624 in 1893-4. In the new District the revenue has been Rs. 9,017 in 1903-94 and Rs. 9,897 in 1904-5.

Stamps.

The Indian Stamps and Court Fees Acts and the rules made under them are in force in the District. Licenses for the sale of judicial and non-judicial stamps are issued by the Political Agent to petition-writers and others, who obtain their supply from any of the Sub-treasuries at Fort Sandeman, Kila Saifulla, and Hindubágh, and are paid commission at rates varying from As. 12½ per cent. to Rs. 6½ per cent. on different kinds of stamps. In March, 1905, there were 8 licensed stamp vendors in the District. In 1904-5, the receipts amounted to Rs. 5,057 of which judicial stamps realised Rs. 3,892 and non-judicial stamps Rs. 1,165. The largest amount ( Rs. 3,842 ) was contributed by the Fort Sandeman tahsil.

Income-tax.

The Income-tax Act ( II of 1886 ) has not yet been applied to Baluchistán, but the tax is levied on the salaries of Government servants, by deduction from their pay bills ; on the salary of officers paid from local funds and on rewards paid to military officers for passing examinations in Oriental languages. The receipts in 1904-05 amounted to Rs. 2,245.

LOCAL FUNDS.

Besides the Zhob Police and Zhob Levy Corps Excluded Local Funds, which are maintained for the interior economy of these forces, the only local fund in the District is the Fort Sandeman Bazar Fund, which was formed into an Excluded Local Fund in 1892. It is governed by rules issued by the Government of India in February, 1900, as modified in April, 1902. The Political Agent is the administrator and controlling officer of the fund, and the Revenue Commissioner has the powers of a Local Government. The revenue is collected under the supervision of the tahsildár of Fort Sandeman who also incurs necessary expenditure

with the sanction of the Political Agent. The following are the principal sources of revenue :—(a) \*Octroi, which is levied at Fort Sandeman and Hindubágh according to the schedule of rates sanctioned by the Local Government ; (b) Public gardens and lands, and rents of serais and building ; (c) Fees from educational institutions and grants-in-aid paid towards education from Provincial revenues ; and (d) Conservancy cess levied at Fort Sandeman bazar. The right to collect octroi is farmed out annually by auction and one-third of the octroi receipts of Fort Sandeman bazar are paid to the military authorities for the conservancy arrangements of the Cantonment. The rates of conservancy cess vary : they are levied monthly at from R. 0-12-0 to R. 1-8-0 on a shop, Re. 0-4-0 to R. 0-8-0 on a dwelling house, and Re. 0-4-0 on a *thara* or shop frontage. The fund is expended on objects of public utility in the places from which the revenue is raised. The chief items of expenditure are those on establishment for conservancy, and watch and ward ; the maintenance of gardens and arboriculture ; contributions towards medical institutions ; and the maintenance of schools with the aid given by the Provincial revenues. The average annual receipts for the five years ending the 31st of March, 1902, amounted to Rs. 15,793, and the expenditure to Rs. 15,336, while in the year 1904-5 the receipts amounted to Rs. 22,382 and the expenditure to Rs. 21,267. In this year octroi contributed 69 per cent. of the total revenue, and the expenditure on public instruction was over 9 per cent. The closing balance of the fund on the 31st of March, 1905, amounted to Rs. 10,477. Owing to the withdrawal of the cavalry regiment from Fort Sandeman, there will in future be a considerable falling off in the receipts of the fund (1906). Details

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\* The schedule of rates and the rules which regulate the tax are embodied in a collection of printed papers entitled "The System of Levying and Collecting Octroi in Baluchistán, 1900." The rates were slightly modified subsequently.

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of both income and expenditure are given in table XX, Volume B.

**PUBLIC WORKS.**

Important civil works in the District are carried out by the officers of the Military Works Service. The Assistant Commanding Royal Engineer of the Loralai Sub-District with his headquarters at Loralai exercises general control and has under him two Garrison Engineers with headquarters at Fort Sandeman and Loralai. The civil works in the Fort Sandeman tahsil are under the Garrison Engineer, Fort Sandeman, who has a Sub-Divisional Officer in subordinate charge, whilst those in the Hindubágh and Kila Saifulla tahsils are under the Garrison Engineer, Loralai, who has a Sub-Divisional Officer at Kila Saifulla. Civil works which cost Rs. 1,000 and over are provided for in the Public Works Budget, and are generally carried out by the Military Works Services. Works of a petty nature, and those required in places remote from headquarters, are executed under the orders of the Political Agent. Civil works of this nature are supervised by an overseer assisted by a *mistri*, both of whom are paid from Provincial revenues. A Special Irrigation Engineer, with his headquarters at Quetta, advises the Local Government in all irrigation matters.

**Important works.**

Reference will be found in the section on **Means of Communication** to the principal roads in the District and the survey for a line of railway carried out in 1891.

**Pipe water supply at Fort Sandeman.**

In the early days of its occupation, the supply of water for drinking and other purposes was brought in an open channel from small springs in the Siliáza stream at a point about 8 miles to the east of Fort Sandeman. This water passed through fields, was muddy, and more or less in a contaminated state, and the watercourse which crossed the Siliáza stream at several points was liable to be breached by floods and the station water supply cut off till the channel could be repaired. Such a supply of water had its bad effects on the health of the troops, and a line of pipes of 3 inches internal diameter was laid down in 1894 from springs



near Kapíp to Fort Sandeman, a distance of about 8 miles. The total cost amounted to Rs. 1,08,927, of which Rs. 30,000 were paid by the Military Department and the balance from Provincial revenues. The maintenance charges are also borne by the latter.

The water pipe which follows the general line of the *nullah* bed is liable to damage during heavy floods and on several occasions there has been a water famine in the station owing to this cause. The question of constructing a tank or reservoir to hold a week's supply of drinking water is now under consideration.

Besides the buildings in the military portion of the Fort Sandeman station, the principal buildings in the District are the tahsíl, *thána*, civil dispensary, levy post and combined post and telegraph offices at Fort Sandeman, Kila Saifulla and Hindubágh (completed between 1890 to 1900); houses for the Political Agent known as the "Castle" (1891) Assistant Political Agent (1892), Commandant, Zhob Levy Corps (1891), Adjutant, Zhob Levy Corps (1897), Extra Assistant Commissioner (1890), Political Agent's office clerks' quarters (1891), and a caravan serai at Fort Sandeman (1900), *Jirga* hall at Fort Sandeman (1902), and the Political rest house now occupied by the Extra Assistant Commissioner at Hindubágh. A list of the *dák* bungalows and rest houses in different parts of the district is given in table X, Volume B.

Levy posts, most of which are in charge of the civil officers for purposes of maintenance, have been built at Bábar, Bádzinai, Dahána Sar, Kashmír Kili, Khwárina, Lakaband, Lowara (Sarawakáni) Lawána, Máníkhwa, Mardánzai, Mína Bázár, Mír Ali Khél, Mughal Kot, Murgha, Shín-ghar, and Walla in the Fort Sandeman tahsíl; at Bábu Chína, Hindubágh, Loe Band, Murgha Mehtarzai, Nisai, Shína Khora and Shamshob in the Hindubágh tahsíl; and at Kila Saifulla, Akhtarzai, Gwál Haidarzai, Kálu Kila, Barat Khél, Sábra, Tang Haidarzai, Musáfirpur, Tánishpa, Sharan

**PUBLIC  
WORKS**

Bátozai, Kila S. B. Muhammad Akbar Khán, Kila S. B. Bangul Khán, Ali Khél and Alozai in the Kila Saifulla tahsil.

The Zhob Levy Corps have, besides the headquarter lines at Fort Sandeman, posts at Khúni Burj, Mughal Kot, Girdáo, Gul Kach, Husain Nika, Gustoi, Sra Dirga, Sarantza, Kamr-ud-din Káréz, Késhatu, Tirkhawar, Ghazlúnawar, and Loeband. Repairs to these are arranged by the Commandant of the Corps, the funds being provided from the grants for Civil works.

**ARMY.** The station of Fort Sandeman was first occupied in 1890 by one Native infantry regiment, a wing of cavalry which was subsequently raised to a full regiment, and 2 guns of a Mountain Battery. The guns were withdrawn in 1896 and the cavalry in October, 1905; the present garrison, therefore, consists (1906) of a regiment of Native infantry only. This regiment furnishes detachments at Drug, in the Músa-Khél tahsil of the Loralai District, and at Mánikhwa (established in 1895) and Mír Ali Khél (1890). The infantry regiment stationed at Loralai supplies detachments for Hindubágh, Kila Saifulla and Murgha Kibzai (1889), while the cavalry regiment at Loralai also furnishes the detachment at Murgha.\*

**ZHOB LEVY  
CORPS.**

In August, 1889, the late Sir Robert Sandeman proposed the raising of a tribal levy to keep order in Zhob, to protect the country stretching from Pishín to the Gomal and to be a political aid to the officer in charge of the District. These proposals were sanctioned by the Government of India in December, 1889, and in February, 1890, Captain W. A. D. O' Mealy, 1st (P. A. V. O), Punjab Cavalry, was appointed the first Commandant. The strength of the Corps was fixed at 416 for cavalry and 526 for infantry, and the total cost at Rs. 2,47,316 per annum.

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\* It is under consideration (1906) to withdraw regular troops from Mánikhwa, Hindubágh, Kila Saifulla, and Murgha and to replace them by police and levies.

The composition of the Corps as originally approved was as follows :—The cavalry (4 squadrons) was to consist of one squadron each of Zhobis, Ghilzais, Bráhuís and Baloch, and mixed Patháns and the infantry (5 companies) of 2 companies of Zhobis and one company each of Ghilzais, Achakzais, and mixed Patháns.

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The first enlistments were made in Quetta in June, 1890, native officers having been selected by the Agent to the Governor-General. The men enlisted consisted of Bráhuís refugee Ghilzais and miscellaneous Patháns, the total enlistments amounting to 200. The Corps was then ordered to Fort Sandeman, and within a few weeks took part in the Zhob expedition. On its return it was broken up into detachments and proceeded to garrison Hindubágh, Kila Saifulla, Brunj, and Sáfi. In 1892 it held 7 posts: Hindubágh, Gul Kach, Kuchbína, Sáfi towers on Mír Áli Khél road, Kingri, Rarkan, and Rakhni. In September, 1892, one Kákar company was abolished, which reduced the strength of the infantry from 526 to 421. The money so saved was utilized, among other things conducive to the efficiency of the Corps, in raising the pay of the sowars from Rs. 25 to Rs. 27 and of footmen from Rs. 10 to Rs. 11.

As it was found impossible to enlist Achakzais, a company of Bráhuís and Baloch was raised in place of the Achakzai company. A second British officer was added to the Corps in April, 1893, as 2nd-in-Command and Adjutant. Certain minor alterations made in 1895 placed the strength of the cavalry branch at 423 (Native officers 13, dafadárs 36, sowars including 2 salutris, 374) and of infantry at 421 (Native officers 9, havildárs and naiks 40, and sepoy 372). In October, 1901, the Civil Surgeon of Fort Sandeman was placed in medical charge of the Corps and was granted an allowance of Rs. 50 per mensem. In the same year the post of Subedár-Major was abolished and an additional Subedár and a native adjutant were added. The total

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strength of the Corps at this time consisted of 423 cavalry and 422 infantry, and the cost amounted to Rs. 2,67,199 per annum.

Meanwhile the duties of the Corps had considerably increased and as both the Wazír and Afghán borders had to be guarded, the number of outposts for which detachments had to be furnished had risen to 16. The Government of India, therefore, in March, 1904, sanctioned the addition of two companies of infantry and a third British officer as Adjutant to the Corps. The strength of the infantry section of the Corps was thus raised to 632, viz., Native officers 14, havildárs and naiks 60, and sepoy 558, involving a total cost of Rs. 3,13,577 per annum.

In 1905, owing to the extended duties thrown on the Corps by the withdrawal from Fort Sandeman of the cavalry regiment hitherto stationed there, its strength was again augmented by the addition of another British officer and of 202 men of all ranks to the cavalry section of the Corps. The present cost of the Corps, therefore, is Rs. 4,00,381 per annum and its strength consists of 4 British officers 636 infantry (Native officers 13, havildárs and naiks 62, sepoy 561) and 625 cavalry (Native officers 14, daffadárs 52, sowars including salutris 559). The distribution of the Corps in various grades in June, 1905, is given in table XXI, Volume B. The question of the addition of another British officer to the infantry is under consideration.

Since the Corps was first raised many changes have taken place from time to time in its composition. The present composition of the corps is as follows:—

*Cavalry.*

|   |           |                       |
|---|-----------|-----------------------|
| 1 | Squadron, | Quetta-Pishín Kákars. |
| 1 | „         | Ghilzais.             |
| 1 | „         | Bráhuís and Baloch.   |
| 1 | „         | Zhob Kákars.          |

*Infantry.*ZHOB LEVY  
CORPS.

|   |                                |
|---|--------------------------------|
| 1 | Company, Quetta-Pishin Kákars. |
| 1 | „ Ghilzais and Músa Khéls.     |
| 2 | „ Zhob Kákars.                 |
| 1 | „ Músa Khéls.                  |
| 1 | „ Isots.                       |

Besides the headquarters at Fort Sandeman, the Corps has 14 posts in the District and a small detachment at Harnai in the Sibi District. The strength of each post in June, 1905, is shown in table XXII, Volume B. A redistribution of the posts has, however, been lately undertaken. Under this new scheme the posts at Shinbáz, Chachobi, Brunj, and Gudawana have already been abandoned, and the question of transferring Girdáo and Khúni Burj to the local levies is under consideration (1906).

The question of granting pensions was raised in 1897, but the proposal was not sanctioned. From 1st April, 1899, the Government of India sanctioned the grant of good conduct pay to the members of the Corps at the rates prescribed for Native soldiers of the Indian Army. There has since been a considerable decrease in the number of desertions from the Corps.

Up to February, 1893, the only kind of uniform worn by the Corps was a *lungi* of Corps pattern, but after that date kháki uniform for all ranks was introduced, similar to that worn by Native regiments of the Indian Army. When first raised, the Corps were armed with Snider carbines and swords in the cavalry and Snider rifles and bayonets in the Infantry. In October, 1902, the Corps were re-armed with Martini-Henry rifles and carbines.

There is an *Assámi* fund both for cavalry and infantry which consists of in the Cavalry:—

- (1) Clothing and equipment deposit, Rs. 20 for all ranks.
- (2) *Amánat Kháta*.—Rs. 40 for sowars; other ranks at the rate of  $1\frac{1}{2}$  months' pay.
- (3) *Chanda* or horse price, Rs. 150.

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These funds are maintained by monthly deductions from the pay of the men in the Corps. The system is the same as that which exists in the Native Silladar Cavalry by which every man owns and pays for his horse, clothing, and equipment.

*Amánat Kháta* is a fund which enables the Corps to advance their pay to men going on furlough, leave, etc., and also to give men of good character and long service loans whenever they require money for private purposes.

As a rule a recruit who enlists in the cavalry is required to deposit from Rs. 30 to Rs. 50 in cash on enlistment, which is credited to his *Assámi*, the remaining portion of the *Assámi* is cut monthly from the man's pay at varying rates according to the rank of the man, and the price of provisions.

In the Infantry—

(1) Clothing and equipment, Rs. 10.

(2) *Amánat Kháta*, Rs. 15 for sepoys; other ranks at the rate of 1½ months' pay.

Corps funds.

The formation of the Zhob Levy Corps Excluded Local Fund was sanctioned in August, 1891, and it then consisted of—(1) *chanda*; (2) clothing; (3) equipment; and (4) estates of deceased officers and men. In September, 1895, the fund was reconstituted and split up into two funds as follows:—  
(a) Government fund comprising *chanda* (Government), fines, estates of deceased officers and men; (b) private or Regimental fund comprising *chanda* (private), *Amánat Kháta*, forage, farm, clothing and equipment, store, hospital, and shoeing. The funds were ordered to be kept in the Government treasury. In May, 1899, rules for the audit of these accounts were framed, which, among other matters, provided that a Committee composed of the Political Agent, Zhob, as President, with the Commandant of the Corps and an officer of the Fort Sandeman garrison not below the rank of Captain as members should assemble twice a year (preferably in April and October) to examine both the

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Government and Private funds and to forward to the Revenue Commissioner, through the Political Agent, Zhob, a return showing under each sub-head the funds to the credit of the Corps. The Committee were also to furnish a certificate as to the correctness of the return.

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In 1904-5 the accounts of the two funds were as follows:—

*Regimental Fund.*

|                    |              |
|--------------------|--------------|
| Receipts ... ..    | Rs. 3,28,871 |
| Expenditure ... .. | „ 3,19,882   |

*Government Fund.*

|                    |           |
|--------------------|-----------|
| Receipts ... ..    | Rs. 2,760 |
| Expenditure ... .. | „ 2,435   |

Many of the posts held by the Corps lie on the Afghán and Wazír border and the men, therefore, come frequently into collision with parties of raiders from across the border. Among many instances of good service rendered the following may be mentioned:—

Services  
rendered by  
the Corps.

In September and October, 1890, the Corps took part in the Zhob expedition.

In August, 1892, a party of 1 daffadár and 7 sowars, when returning from Wáno after delivering a letter to Sardár Gul Muhammad Khán, the Amír's governor, was attacked at the junction of the Toi and Gomal rivers by a party of about 60 Wazírs. These Wazírs had the previous day waylaid a patrol of a Native cavalry regiment near Mír Ali Khél, killing 3 men and 2 horses of the patrol. The party of the Zhob Levy Corps repulsed with loss the attack of the Wazírs. On the side of the Levies 2 men and 2 horses were wounded and 1 horse killed.

During 1901-2 a large portion of the Corps was employed on the Mahsúd Wazír blockade. They did good work and were frequently commended by Lieutenant-Colonel Scallon, D. S. O., C. I. E., in command of the troops on the Zhob side, for good work, and at the conclusion of the operations received the commendations of the Government of

ZHOB LEVY INDIA. Medals were subsequently, in 1904, given to the  
CORPS. men of the Corps engaged in the operations.

On 13th July, 1901, a party of Afgháns crossed the border at Késhatu and carried off 380 camels, a number of donkeys and one man who was in charge. By the prompt action of Havildár Muhammad Bakhsh of the Zhob Levy Corps all were recovered.

On 30th August, 1901, a party of 4 sowars, under Ressaidar Mitha Khán, was attacked by Wazírs in the Khajúri pass. One sowar was killed, but owing to the gallant behaviour of Ressaidar Mitha Khán and the other 3 sowars, the Wazírs were unable to do any more damage, and the party got back to Gul Kach with the body of the sowar and his horse and weapons. For this they were thanked by the Lieutenant-General Commanding the Forces, Bombay.

On 26th November, 1901, a band of Mahsúd raiders carried off about 1,000 sheep from near Mughal Kot. Owing to the promptness of Ressaidar Diwána Khán, who turned out quickly with his men, all the sheep were recovered.

The Corps was represented, at the Delhi Coronation Darbár (1903) by Major C. W. Jacob, the Commandant; Ressaidar-Major K. S. Muhammad Ismáíl Khán, Bahádur; Ressaidar Mitha Khán; Subedár Mauladád; 13 cavalry and 33 infantry.

In 1902-3 the Corps acted as escort to H. E. Lord Kitchener, Commander-in-Chief in India, on his tour along the Afghán frontier from Hindubágh to Gul Kach, and won the commendation of His Excellency for the way they carried out the duty.

In April, 1905, a gang of transborder men, numbering about 60, attacked the Shinbáz post, killing 4 men and wounding the Havildár and 3 others. The small garrison acted with great gallantry and in recognition of their services Havildár Hyát Khán and sepoy Ali Ján and Sultán Khán were awarded the 3rd Class Order of Merit.



On the 13th December, 1905, a band of outlaws from across the border attacked the post held by the Corps at Gudawana, killing 5 and wounding 3 men. For their gallant conduct on this occasion, Naik Amín Khán and sepoy Majíd were awarded the 3rd Class Order of Merit.

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During the visit of Their Royal Highnesses the Prince and Princess of Wales to Quetta in March, 1906, Risáldár-Major K. S. Sháhzáda Muhammad Ismáíl Khán, Bahádur, Ressaydárs Abdul Salám Khán and Mitha Khán of the Zhob Levy Corps acted as special orderlies in attendance on Their Royal Highnesses and were given special commemoration medals.

At various times the Corps has earned favourable reports from the high military authorities by whom it has been inspected.

The following officers have held the appointment of Commandant since the inception of the Corps in 1890:—

Captain W. A. D. O'Mealy (1st P. A. V. O. Punjab Cavalry) from the 3rd February, 1890, to 19th February, 1892.

Captain W. W. Norman (2nd Punjab Cavalry), 20th February, 1892, to 16th December, 1897.

Lieutenant F. D. Henslowe (2nd Punjab Cavalry, appointed Adjutant and 2nd-in-Command, 23rd December, 1892), 17th December, 1897, to 26th March, 1898.

Major W. G. Alban (26th Baluchistán Regiment), 26th March, 1898, to 29th May, 1900.

Captain Henslowe, 30th May, 1900, to 31st July, 1900.

Captain C. W. Jacob 1st August 1900, to 30th September, 1904.

Major R. E. Roome, 1st October, 1904, to 31st October, 1906.

On the formation of the Zhob Agency and the transfer to it of the Bori and Bárkhán tahsils, the levies serving in

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LEVIES. those tahsils and costing Rs. 6,381 per mensem, were transferred from the Thal Chotiáli to the Zhob District.

In December, 1889, the Government of India allotted a sum of Rs. 25,000 per annum which was divided into the following services :—Abdullazais, per mensem Rs. 475 ; Mando Khéls, Rs. 455 ; Bábars, Rs. 205 ; Khostis, Rs. 40 ; Musa Khéls of Toi, Rs. 55 ; Zalli Khéls, Rs. 500 ; Ismáílzais, Rs. 105 ; Haidarzais, Rs. 105 ; Postal levies ( Pákhézai Abdullazais ), Rs. 130.

In August, 1890, a further sum of Rs. 25,000 was sanctioned for levies for the work of administration, realisation of revénué and the prevention and detection of crime in Central and Upper Zhob. This sum was distributed monthly as under—Shamozais, Rs. 465 ; Bráhimzais, Rs. 480 ; other Alizai tribes, Rs. 695 ; miscellaneous Zhob tribes ( Barat Khéls, Sibzais, Lawánas, Sargara, and Mehtarzais ), Rs. 420 ; Rs. 80 were also sanctioned for a Murgha and Hindubágh Postal Service\* and the Bargha Shírání Service costing Rs. 640 per mensem was in 1890-1 transferred to the Zhob District from the Deráját when the Bargha section of the Shiránis was placed under the jurisdiction of the Political Agent, Zhob. A service costing Rs. 565 per mensem was also sanctioned for Drug. The Garáni levies brought to Zhob from Thal Chotiáli continued to be paid by the latter District up to March, 1893, when a service of 2 daffadárs and 10 sowars, costing Rs. 310 per mensem, was sanctioned for them from Zhob revenues.

In April, 1893, the total cost of the Zhob levies was Rs. 12,142-10-8 per mensem as detailed below. Of this amount, Rs. 7,134-5-4 were paid from the special allotment for Police and Levies and Rs. 5,003-5-4 from Zhob revenues :—

|                                      | Rs. | a. | p. |
|--------------------------------------|-----|----|----|
| Postal service, Loralai to Kingri... | 256 | 0  | 0  |
| Khétrán service ... ..               | 975 | 0  | 0  |

\*Abolished in 1900.

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|                                     | Rs.   | a. | p. | LEVIES. |
|-------------------------------------|-------|----|----|---------|
| Zhob Kákars ... ..                  | 910   | 0  | 0  |         |
| Frontier road levies ... ..         | 1,155 | 0  | 0  |         |
| Telegraph service ... ..            | 200   | 0  | 0  |         |
| Ghilzai service ... ..              | 670   | 0  | 0  |         |
| Bargha Shírání service ... ..       | 640   | 0  | 0  |         |
| Mando Khél service ... ..           | 2,083 | 5  | 4  |         |
| Mixed posts, Punjab frontier ... .. | 245   | 0  | 0  |         |
| <hr/>                               |       |    |    |         |
| Total...Rs.                         | 7,134 | 5  | 4  |         |

|                                      | Rs.   | a. | p. |
|--------------------------------------|-------|----|----|
| Bori levies ... ..                   | 1,150 | 0  | 0  |
| New Khétrán service ... ..           | 820   | 0  | 0  |
| Murgha-Hindubágh Postal levies... .. | 80    | 0  | 0  |
| Drug levies ... ..                   | 565   | 0  | 0  |
| Central and Upper Zhób levies ... .. | 2,083 | 5  | 4  |
| Garání service ... ..                | 310   | 0  | 0  |
| <hr/>                                |       |    |    |
| Total...Rs.                          | 5,008 | 5  | 4  |

The total strength of the District levies, excluding the Postal sowars was 430 and comprised 1 inspector, 1 thanadár, 17 jemadárs, 81 daffadárs, 286 sowars, 24 footmen, and 20 vernacular clerks.

In March, 1894, increases amounting to Rs. 372 per mensem were sanctioned, which included a Músa Khél Postal service (Rs. 165) and a Lawána service Rs. 160 per mensem. In 1895 the Ghilzai and Frontier Levies were reduced by Rs. 325. In 1896 the Levy service was reorganised: levies costing Rs. 1,265 employed in Bárkhán and Bori were re-transferred to the Thal Chotiáli District; a service was provided for the Mírzaís (Rs. 145), Jalálzais (Rs. 165), and Mardánzais (Rs. 300) of Khurásán; and increases and decreases were made in nearly all services. According to the revised scheme sanctioned in November, 1896, the cost of

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**LEVIES.** the levies was reduced to Rs. 11,332-10-8 per mensem. The levy service was not, however, found sufficient for the requirements of the District and further increases were sanctioned in 1897 at a monthly cost of Rs. 1,104 and Rs. 152 in 1899. In 1900—2 petty changes occurred and in the latter year the Postal and District levy services were separated, the cost of the former being Rs. 1,888 and of latter Rs. 10,739-10-8 per mensem.

The formation of the Loralai District in 1903, and the transfer to it of the Músa Khél and Bori tahsils from Zhob necessitated a re-distribution of the levies, and levy services, costing Rs. 8,453-1-4 per mensem were apportioned to Zhob, the details of which are as follows :—

*Postal Services.*

|                                    | Rs.   | a. | p. |
|------------------------------------|-------|----|----|
| (1) Loralai-Hindubágh line ...     | 415   | 0  | 0  |
| (2) Loralai-Fort Sandeman line ... | 605   | 0  | 0  |
| (3) Fort Sandeman-Musa Khél line.  | 85    | 0  | 0  |
|                                    | <hr/> |    |    |
| Total...Rs.                        | 1,105 | 0  | 0  |
|                                    | <hr/> |    |    |

*District Levies.*

|                                    | Rs.   | a.    | p.  |
|------------------------------------|-------|-------|-----|
| (1) Zhob Kákars ... ..             | 701   | 13    | 4   |
| (2) Ghilzai service... ..          | 170   | 0     | 0   |
| (3) Bargha Shiránis ... ..         | 1,357 | 0     | 0   |
| (4) Mando Khél service ... ..      | 830   | 0     | 0   |
| (5) Central Zhob levies ... ..     | 1,019 | 0     | 0   |
| (6) Upper Zhob levies ... ..       | 715   | 0     | 0   |
| (7) Watering allowance, levy line— |       |       |     |
| Fort Sandeman ... Rs.              | 4-0-0 |       |     |
| Mir Ali Khél Thána „               | 1-8-0 |       |     |
|                                    |       | <hr/> |     |
|                                    |       | 5     | 8 0 |
| (8) Lawánas ... ..                 | 170   | 0     | 0   |
| (9) Mírzais... ..                  | 185   | 0     | 0   |
| (10) Jakúlzais ... ..              | 160   | 0     | 0   |

## LEVIES.

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|          |                     |     |     | Rs.       | a. | p. | LEVIES. |
|----------|---------------------|-----|-----|-----------|----|----|---------|
| (11)     | Mardánzais          | ... | ... | 260       | 0  | 0  |         |
| (12)     | Kibzai service...   | ... | ... | 730       | 0  | 0  |         |
| (13)     | Shin-ghar service   | ... | ... | 103       | 0  | 0  |         |
| (14)     | Headquarter Levies  | ... | ... | 402       | 0  | 0  |         |
| (15)     | Pay of clerks       | ... | ... | 505       | 0  | 0  |         |
| (16)     | Fixed contingencies | ... | ... | 34        | 12 | 0  |         |
| Total... |                     |     |     | Rs. 7,348 | 1  | 4  |         |

The total strength of the levies in June, 1905, was 384, consisting of 63 headmen and chiefs, 72 officers, 199 sowars, 27 footmen and 23 clerks and menials. They are stationed in 39 posts and distributed over Hindubágh ( 57 men), Kila Saifulla ( 105 men ) and Fort Sandeman tahsil ( 222 men). Details of distribution are shewn in table XXIII, Volume B. A scheme for revision of levies is now ( 1906 ) under consideration which involves an additional cost of Rs. 1,278 per mensem. The additions include 1 thánadár, 4 daffadárs, 28 sowars, 4 havildárs, 42 footmen, and 4 muharrirs. The additional levies are distributed among Shíránis ( Rs. 425 ), Mando Khéls ( Rs. 490 ), Kibzais ( Rs. 225 ), and muharrirs, etc. ( Rs. 138 ).

The levies are employed not only in guarding passes and roads, but in the investigation and detection of crime in places other than the Fort Sandeman Civil and Military stations and the bazars at Hindubágh and Kila Saifulla. The principles of the levy system which were laid down by the Committee which assembled at Quetta in 1883, under the presidency of Sir Robert Sandeman, are observed. Those principles were —(1) that all persons drawing pay, whether chiefs or others, who were not pensioners, must render an equivalent in service; (2) that levies should be local, and tribal responsibility enforced; and (3) that the chiefs nominating and the men nominated should, as a rule, belong to the immediate neighbourhood of the post in which

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**LEVIES.** they are employed. In pursuance of these principles service is given to chiefs or headmen in localities where they have influence and they can nominate their own men, subject to confirmation by the Political Agent or by the officer in charge of a sub-division. A nominee of a chief or a headman may be rejected on the score of physical unfitness, bad character, or other sufficient cause. The men bring their own weapons of some sort and the sowars their own mount, the latter being subject to approval.

**Zhob Kákars service.** On the conclusion of the Zhob expedition of 1884 a service of Rs. 910 per mensem was sanctioned for the Zhob Kákars and was distributed as follows:—Músa Khéls, Rs. 65; Kibzais, Rs. 55; Shahbáz Khán Jogízai, Rs. 315; Shíngul Jogízai Rs. 315; Mírzais, Rs. 60; Saifulla Khán, Rs. 100. This service then formed part of the levies of the Thal Chotiáli District. The distribution of the service was modified subsequently and at the time of its transfer from Thal Chotiáli to Zhob, Rs. 100 per mensem were paid to each of the four leading men, viz., Sardár Shíngul Khán, Sardár Shahbáz Khán, Saifulla Khán and Mastak Khán, and Rs. 510 per mensem to 14 other men of influence. At present (1906) the amount paid is Rs. 701-13-4 per mensem to the following:—S. B. Muhammad Akbar Khán Jogízai, Rs. 100; Kalla Khán Jogízai, Rs. 120-13-4; S. Zarghún Khán Jogízai, Rs. 70; Ayúb Khán Jogízai, Rs. 20; Said Khán Jogízai, Rs. 30; Lúni Khán Jogízai, Rs. 20; S. B. Nawáb Bangal Khán\* Jogízai, Rs. 100; Bátal Khán Jogízai Rs. 15; Báz Khán Jogízai, Rs. 15; Oma Khán Jogízai Rs. 25; Shér Khán Jogízai, Rs. 25; Musammát Zallai Jogízai, Rs. 10; Musammát Zárngi Jogízai, Rs. 6; Musammát Kamína and Fátma Khoidádzai, Rs. 25; Bárán Khoidádzai, Rs. 25; Jamál Khán Bátuzai, Rs. 30; Pai Gul Jalálzai, Rs. 10; Khande Khán Jogízai, Rs. 45; and Mír Aslam Jogízai, Rs. 10.

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\* The question of the continuance of this allowance to the sons of the late Nawáb Bangal Khán is under consideration.

## POLICE.

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In addition to this a sum of Rs. 150 is sanctioned for **LEVIES**, Sardár Bahádúr Muhammad Akbar Khán for 1 daffadár, 5 sowars, and 1 muharrir, and a sum of Rs. 80 for Sardár Bahádúr Nawáb Bangul Khán for 3 sowars and 1 muharrir.

The posts held by Afghán troops in March, 1905, along **Transborder posts**, the border of the District were the following :—

|                       |     |     |        |
|-----------------------|-----|-----|--------|
| Zazha                 | ... | ... | 30 men |
| Kasak                 | ... | ... | 50 „   |
| Kázha Ball...         | ... | ... | 50 „   |
| Tarwa Tarak           | ... | ... | 49 „   |
| Kajír Cháh            | ... | ... | 25 „   |
| Gharlundai            | ... | ... | 20 „   |
| Ispinki Cháh          | ... | ... | 15 „   |
| Matra or Sohak Khandi | ... | ... | 30 „   |
| Kila Rashíd           | ... | ... | 54 „   |
| Warsak                | ... | ... | 47 „   |
| Shinhai or Ila Jirgah | ... | ... | 44 „   |
| Shádi Khák...         | ... | ... | 43 „   |
| Uzhdasar              | ... | ... | 13 „   |
| Prékari               | ... | ... | 20 „   |

A police force was sanctioned for the District in 1890, **POLICE**, which consisted of 4 Deputy Inspectors, 31 sergeants, 76 constables, and 30 daffadárs and sowars ; the sanctioned cost being Rs. 2,514 per mensem. The police together with the Levies of the District were placed under the charge of the Assistant Political Agent at Fort Sandeman who was appointed *ex-officio* District Superintendent of Police ; and the Political Agent *ex-officio* Deputy Inspector-General of Police.

One Deputy Inspector and 50 men of all ranks were received from the Thal Chotiáli, and 22 men from the Quetta and Pishín Districts on transfer owing to reductions in the forces of those districts, and the remainder were enlisted locally, bringing the establishment almost up to its sanctioned strength towards the close of the year.

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POLICE. Additions and alterations have been made from time to time in the force.

In 1892 one Inspector, 1 Deputy Inspector, 8 sergeants, 36 constables, 5 sowars ( trackers ), and 13 menials were added. In 1894 the appointment of 1 Deputy Inspector was abolished, an extra daffadár was added, and the pay of certain grades was modified; the Bárkhán thána was also transferred to the Thal Chotiáli district. In 1896, when the charge of levies and police was separated, an office establishment consisting of 2 clerks, 4 menials ( cost Rs. 144-8-0 per mensem ) was sanctioned for the Assistant Political Agent, Lower Zhob, at Fort Sandeman ( as District Superintendent of Police ) and 1 sergeant, 5 constables and 5 sowars were added for escort and guard duty. In 1897, 1 Deputy Inspector, 4 sergeants, and 18 constables were added. In 1901 the *chaukidárs* employed in the Fort Sandeman bazar and paid from the Town fund were amalgamated with the police, and the fund contributes monthly Rs. 188-5-4 for the service of 1 sergeant and 12 constables. The police were again revised in 1903, when 3 Deputy Inspectors, 3 sergeants, 27 constables, and 5 mounted men were added.

From time to time it has been held that the proper agency for the detection of crime in the District was the local headman and the levy, rather than the foreign policeman, and that the system of tribal responsibility should be more generally extended. In April, 1902, an order was issued by the Agent to the Governor-General in which it was laid down that it was the duty of all *lambardárs* or headmen to keep a watch on their villages, and to report the misconduct of any one or the advent of any suspicious person; it was also their duty to detect crime, and when cases were taken up by the Government, to help in their detection by giving direct information or furnishing clues. The headmen were also to be held responsible in case of the tracks of thieves not being traced beyond their villages. In 1903,



## SYSTEM OF RECRUITMENT.

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the police force was reconstituted, and it was decided that the investigation and detection of crime should, in future, be more largely entrusted to levies, and that except in the large towns and bazars, the duties of the police would be more especially confined to guards and escort duty. Cases of crime both in bazars and in the District are investigated by the Deputy Inspector of Police. In the former case he is assisted by the regular police and in the latter by Tribal levies. The police force was up till 1903-4 under the charge of the Assistant Political Agent at Fort Sandeman as *ex-officio* District Superintendent of Police, when the combined charge of the Zhob and the Loralai police was entrusted to an Assistant District Superintendent deputed from the Sibi District. Proposals are, however, under consideration ( 1906 ) to provide a permanent European police officer for the District and to increase the police force by an additional monthly cost of Rs. 1,618-13-10 per mensem.

POLICE.

On the 31st of March, 1905, the police force of the District, excluding the men employed in the tahsils transferred to the Loralai District, totalled 194, and included an Assistant District Superintendent of police, 1 Inspector, 7 Deputy Inspectors, 34 sergeants, 25 mounted men, 115 constables, and 11 miscellaneous and menials.

Total strength.

They were distributed as under—

Guards, escorts, and miscellaneous duties, in-

|                            |     |
|----------------------------|-----|
| cluding reserve ... ..     | 125 |
| Fort Sandeman thāna ... .. | 41  |
| Kila Saifulla ... ..       | 13  |
| Hindubāgh ... ..           | 12  |
| Mīr Ali Khēl ... ..        | 2   |
| Mughal Kot ... ..          | 1   |

Details of the distribution are given in table XXIV, Volume B.

The police are enlisted from Punjābis, frontier and local Pathāns, and other inhabitants of India. Every endeavour to enlist local men is made, but in March, 1905, the number

System of recruitment and training.

POLICE. of local men was only 5 per cent. of the total strength, such men are, however, more willing to join the mounted police and in that branch they prove useful. For purposes of training, the experiment is being tried of sending men to the Punjab Police Training School. A system was introduced in 1901 under which classes are held in the lines and thánas daily, and instruction imparted in Punjab police and local rules, police catechism and certain law books; the men are periodically examined.

Educated people have not in the past readily taken service in the police, though an improvement in this direction is now observable.

Measures taken to improve the status of the police, etc.

Measures have been taken from time to time to improve the pay of the various grades. The revision which was sanctioned in 1903 provided local allowances for certain posts of Deputy Inspectors and for all trackers; an increase from Rs. 17 to Rs. 18 in the pay of sergeants of the second grade; and the reconstitution of the proportions of the various grades of sergeants and constables, so as to give a fairer scale and quicker rate of promotion.

The rules regarding finger prints laid down in Punjab Government Resolution No. 1998, dated the 3rd of September, 1903, were adopted in 1905 for taking the finger impressions of pensioners, but systematic measures for the identification of criminals by finger prints have not yet been introduced.

Arms.

The Police have hitherto been armed with Snider rifles and side-arms, but the substitution of bored-out Martini-Henry rifles has been sanctioned, and the rearmament is being carried out (1906).

Cognizable crime.

Table XXV, Volume B, shows the details of cognizable crime for the old Zhob District from 1893-9 to 1902 (both inclusive) and for the new District for 1903 and 1904. The average number of cases reported annually during the former period was 177, and the average number of con-

## CRIME.

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victions 119. The following table shows the classification of cases :—

|                                                                                  | Annual<br>Average. |
|----------------------------------------------------------------------------------|--------------------|
| I. — Offences against the State, public tranquility, and justice ... ..          | 2                  |
| II. — (1) Murder ... ..                                                          | 6                  |
| (2) Attempt to murder ... ..                                                     | 1                  |
| (3) Other serious offences against the person ... ..                             | 7                  |
| III. — Serious offences against property and person or against property only ... | 20                 |
| IV. — Minor offences against property ...                                        | 29                 |
| V. — Other minor offences...                                                     | 112                |

During 1904 the number of cases reported was 68 and the percentage of convictions was 94. Of the total number of cases reported during this year 54 were miscellaneous, 6 minor offences against property, 3 serious offences against property and person or against property only, 2 of murder and 1 each of — (a) offences against the State, public tranquility, and justice ; (b) attempt to murder ; and (c) other serious offences against the person.

It must be borne in mind that the above figures mainly indicate the state of crime in the towns and bazars. No criminal classes exist among the indigenous population and almost all offences such as theft and burglary are committed by outsiders.

Crime in the towns and bazars is largely committed by Kandahári and Punjábí bad characters who open small shops in the bazar, or take service among the followers of a regiment.

Trackers are much used. It has been a matter of much difficulty to get competent men. Trackers from the Punjab will not serve in a frontier district like Zhob, but the recent employment of local Patháns as such has been very successful.

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## POLICE.

Remarkable  
crimes.  
Dahána road  
outrages.

The most notorious crime perpetrated since the occupation of the District was a series of outrages committed, in 1895, on the Dahána road by a band of Bargha Shíránis. These outrages were the outcome of the abduction by certain Khiddarzaís on the 30th June, 1894, of a Chúhar Khél woman of Loara in Bargha. The case had been tried by a *jirga*, but the long delay in settling the case wore out the patience of the Chúhar Khél Shíránis of Loara and on the 6th June, 1895, eight young men of the Loara village under the leadership of a man named Shikári, proceeded to Máníkhwa, where was the camp of Lieutenant Home, R. E., the officer in charge of the construction of the road. The Zhob Levy Corps guard was taken by surprise, of whom three were killed on the spot and all the six rifles with ammunition were seized. The camp was next attacked. Four coolies and one *munshí* were killed, and all the tents, etc., were set on fire. They also took an express rifle and a shot gun from Lieutenant Home's tent and killed one of his ponies. After this they proceeded down the road towards Dahána Sar, and meeting Lieutenant Home's *khánsámah*, killed him and the camel on which he was riding. A little further on they met Lieutenant Home himself on his way back from Dahána Sar, and shot him from an ambush, afterwards killing his horse also. Somewhat further on they met a party of a naik and three sepoy of the Zhob Levy Corps. The naik was treacherously murdered and his rifle secured. About midnight the party arrived at the Dahána Sar Bungalaw and killed there five persons, including a girl. Seven others were wounded. In addition to the above they killed some cows and calves and sheep on the road and at Dahána Sar. Troops were promptly sent in pursuit and on the evening of the 9th, a party under Captain McConaghey, Assistant Political Agent, came across the gang at dusk between Loara and Dahána Sar. Shots were exchanged, one sepoy of the 40th Patháns being killed and Shikári wounded. The murderers eventually succeeded in making their way

to Kandahár in the Amir's territory. Several of the Chúhar Khéls of Loara were convicted of complicity and sentenced to various terms of imprisonment. Fines aggregating Rs. 4,250 were imposed on the Bargha Shíránis, and Rs. 2,000 on certain sections of Mando Khéls and Harípáls who had allowed the murderers to pass through their districts. A punitive post was placed at Loara and the Harípál village of Devalgadh was deprived for two years of the privilege of freedom from revenue. A fine of Rs. 100 was also imposed subsequently on certain sections of the Larga Shíránis for harbouring the gang while in the hills. One of the murderers was afterwards captured in November, in a Shírání village, tried and sentenced to death. Shikári, the head of the gang visited the Shírání country again in 1904 and committed another murder.

The District possesses 14 cattle pounds, which are located Cattle pounds. at Fort Sandeman, Mír Ali Khél, Mughal Kot, Hindubágh, Kila Saifulla, Lakaband, Máníkhwa, Dabána Sar, Murgha Kibzai, Murgha Mehtarzai, Bábu Chína, Akhtarzai, Gwál Haidarzai, and Musáfirpur. The first five are managed by the police and the remainder are under the charge of levy muharrirs and patwáris. Fines are levied at rates which vary from one anna per day for a sheep or goat to eight annas per day for a camel, in addition to which, feeding charges are also imposed. The receipts are credited to Provincial revenues from which the charges for maintenance are also met.

The subsidiary jails at Fort Sandeman, Hindubágh, and JAILS. Kila Saifalla possess respectively accommodation for about 70, 45, and 20 prisoners. Convicts, whose term of imprisonment does not exceed 6 months are detained in these jails. Those whose term of imprisonment exceeds this period are sent to the Quetta jail whence prisoners with long sentences are transferred to the Shikárpur jail. Juvenile prisoners are also sent to the reformatory at that place. Prisoners in subsidiary jails are employed in grinding corn for their own food and on work in the public gardens and roads.

**JAILS.** During 1904-5, the total daily average number of prisoners was 61, males 57, females 4, and the total expenditure on establishment and contingencies amounted to Rs. 3,198. The number of prisoners in the jails on March 31st, 1905, was 73, of whom 61 were males and 12 females.

There is no lunatic asylum in the District, and such lunatics as are required to be detained in an asylum are sent to Hyderábád in Sind, through the Deputy Commissioner of the Upper Sind Frontier at Jacobábád.

**EDUCATION.** Before the British occupation no system of public instruction existed. *Mullás* taught the Korán by rote to boys, and such men as aspired to a more extended knowledge of Muhammadan theology and law, had to spend some years in Kandahár in prosecuting their studies. *Mullás* charged no tuition fees, but were maintained by the *zakát* subscribed by the villagers generally one-tenth of the produce of the lands and one-fortieth of the flocks, which every Muhammadan is required to set apart for charity, and also by alms given on various occasions and by marriage fees. This system is still maintained in many places in the District, and a rough estimate shows that in 75 such institutions about 348 boys were under instruction in 1903.

**Growth of schools.** There are (1905) in all four primary schools in the District: a boys' school (established 1892), and a girls' school (1896) at Fort Sandeman, and boys' schools at Kila Saifulla\* (1894) and Hindubágh (1895). The schools at Fort Sandeman are maintained from the Bazar fund aided by Provincial revenues, while those at Kila Saifulla and Hindubágh are almost entirely kept up from Provincial revenues. In March, 1905, the girls' school had 17 pupils, and the boys' schools 56, of whom 25 were local Patháns. The total expenditure during 1904-05 was Rs. 1,891, of which Rs. 960 were paid from Provincial revenues, Rs. 584 from Local funds and the balance was realised from fees and private subscriptions. Detailed statistics for each school are given in table XXVI, Volume B.

\* The school at Kila Saifulla has since been temporarily closed (1906).

The schools at Fort Sandeman are managed by committees EDUCATION.  
 composed of representatives of the various native communi-  
 ties with the Political Agent as President. Tuition fees are Miscellaneous.  
 levied in the Fort Sandeman boys' school, but in Hindubágh  
 and Kila Saifulla only an admission fee of annas four is  
 levied from a boy on his first joining the school.

Since 1903, an appointment of Inspector-General of  
 Education has been sanctioned for the North West Frontier  
 Province and Baluchistán, and a personal assistant to the  
 Inspector-General of Education has since been stationed at  
 Quetta. The latter is in charge of all the schools in the  
 District and pays occasional visits of inspection and advises  
 the Political Agent on all points connected with the schools.

A public library was established at Fort Sandeman in Libraries.  
 June, 1893, and is located in a portion of the *Jirga* Hall built  
 in 1902. It has three classes of members, the rates of  
 monthly subscriptions varying from four annas to one  
 rupee; and receives a monthly contribution of Rs. 15 from  
 the Local funds. In March, 1905, the library had 60 members  
 and possessed 467 English and 355 Vernacular books, and  
 subscribed to 15 papers and periodicals.

The District possesses 3 civil dispensaries and a zanána MEDICAL.  
 hospital, of which one dispensary and the zanána hospital  
 are located at Fort Sandeman, and the other two dispensaries  
 at Hindubágh and Kila Saifulla. The Military Hospital  
 Assistants at Murgha Kibzai and Mír Ali Khél outposts are  
 paid from Provincial revenues a monthly allowance of Rs. 5  
 each for services to the civil population. Separate statistics  
 for each of the civil dispensaries are given in table XXVII,  
 Volume B. The Principal Medical Officer is the Agency  
 Surgeon at Quetta, who is also the Administrative Medical  
 Officer of the whole Province. The senior Military  
 Medical Officer at Fort Sandeman, who is *ex-officio* Civil  
 Surgeon and receives a monthly allowance of Rs. 100  
 from Provincial revenues, supervises the civil dispensaries  
 of the District.

**MEDICAL.** This dispensary was established in November, 1890, and a building for it was erected in 1891-2, which can accommodate 24 indoor patients. The dispensary is in charge of a Hospital Assistant who receives an allowance of Rs. 10 per mensem from the Bazar Fund for sanitary work and Rs. 10 per mensem from Provincial revenues for police work. The cost is met from Provincial revenues except a ward servant on Rs. 10 per mensem who is paid from the Bazar Fund. In 1904 the total number of in-patients treated was 387 and of outdoor patients 19,506 while 665 operations were performed.

On the representation of Captain Macdonald, Political Agent, the Central Committee of the Countess of Dufferin Fund agreed to open a branch dispensary at Fort Sandeman and to meet the expenses a monthly grant of Rs. 100 was sanctioned from Provincial revenues, and Rs. 25 from the Bazar Fund. The balance is met by private subscriptions and by the Countess of Dufferin Fund. The dispensary which has accommodation for 6 in-patients was opened in May, 1899, and since then has been in charge of a qualified lady doctor, a trained *dhái* is also kept who is paid from the Bazar Fund. During the first year (ending with March 31, 1900) the dispensary did very useful work and was much appreciated. In all 5,694 patients attended the hospital, out of which 2,288 belonged to the town of Fort Sandeman and 3,406 were country people and Powindahs. Ten major operations were also performed by the lady doctor. In 1904, 33 in-patients and 3,124 out-patients were treated and 169 operations performed. In her report for the year the lady doctor in charge remarked that "with few exceptions all the *parda nashin* women in Fort Sandeman attended the outdoor dispensary regularly, and the country people also appreciate the hospital and come from long distances for attendance."

These dispensaries were opened in 1893. The establishment of each dispensary consists of a Hospital Assistant and

Hindubagh and Kila Saifulla dispensaries.



## PRINCIPAL DISEASES.

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a hospital servant and the cost is paid from Provincial MEDICAL. revenues. The Kila Saifulla dispensary has accommodation for 4 and Hindubagh for 6 in-patients. The number of in-patients treated in these dispensaries in 1904 was 112, and of out-patients 15,962.

The principal diseases are malarial fever, ulcers and skin diseases, diseases of the respiratory and of the digestive systems. The excessive cold in winter causes attacks of pneumonia, catarrh, bronchitis, and frost bites. The total number of 35,967 indoor and outdoor patients treated in the three civil dispensaries in 1904, included among other minor ailments 9,624 or 27 per cent. of malarial fever, 323 of venereal diseases, 1,786 of diseases of the eye 3,346 of diseases of the respiratory system, 6,275 of diseases of the digestive organs, 6,270 of ulcers and other skin diseases, 1,422 of injuries and 1,694 of rheumatic affections. Principal diseases and their causes.

In his medical report for the year 1904 the Agency Surgeon records that in Baluchistán, malaria is "at once the greatest primary cause of illness, and indirectly gives rise to a large proportion of the ill-health expressed in other terms." The Civil Surgeon of Fort Sandeman attributes the prevalence of malarial fever to the mosquitoes which abound in small collections of water in irrigated lands and at the edges of streams where the rate of flow is slight. Eye diseases are brought on by high winds, dust storms and flies, and also by the personal uncleanliness and dirty habits of the people, to which latter cause also the frequency of ulcers and skin diseases is mainly attributable. Great diurnal variations of temperature in winter, insufficient clothing and dry climate and winds causing rapid evaporation from the surface of the body result in diseases of the respiratory system; while diseases of the digestive organs are due to the stale and improperly cooked food and half-cooked meat eaten by the people. The severe cold in the Hindubagh tahsil is responsible for the rheumatic affections.

**MEDICAL.** There was a wide-spread outbreak of cholera in 1891 in nearly the whole of the Baluchistán Agency. It started from Sibi and Mudgorge, and was brought to Central Zhob by coolies from the Mudgorge railway works. This was followed by another outbreak in April, 1892, in the Gomal pass whence it spread into the Zhob District, when 92 deaths were recorded out of 109 seizures. In the summer of 1900 cholera again broke out and about 400 deaths occurred in the old Zhob District. Fort Sandeman town and the Apozai village suffered severely.

**Cholera.**

Writing in connection with the outbreaks of cholera in 1891 and 1892 the Agency Surgeon, Surgeon-Major J. C. Fullerton, I. M. S., said:—

“The history of these two outbreaks of cholera closely resembles that of others already recorded in former years. The disease generally first appears among the people living on the Bolán or Nári systems of water-supply, which consist of exposed surface irrigation streams easily susceptible of pollution and infection, or it suddenly breaks out among workmen who are dependent on open, exposed streams for their water-supply. The disease is then carried from one exposed water-supply to another, and as these supplies are often limited in number and far apart, and, as the travellers generally march long distances to their homes, infection is quickly and widely spread in all directions. In my opinion all open, exposed streams, especially those on the line of frequented roads or *káfla* tracks, are never safe as they are always exposed to pollution and infection from many sources. The only extensive and sudden outbreaks of cholera we have had in the last fifteen years in Baluchistán have occurred in villages or collections of men congregated along open streams; while, on the other hand, towns, villages, and other communities, supplied with water taken direct from springs, artesian wells, or deep *kárées*, which are not susceptible of pollution or infection, have never developed cholera to any great extent.”\*

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\* Baluchistán Agency Administration Report for 1892-3, pp. 133-84.

## VACCINATION AND INOCULATION. 289

There were four deaths from typhus in Kákha village of the Fort Sandeman tahsil in 1903-4. In the beginning of 1904-5 this fever broke out in the Kila Saifulla lock-up whence it spread to other parts of the tahsil; 28 persons including 4 prisoners died from the disease. There were some 9 cases at village Pasha in the Hindubágh tahsil, out of which one proved fatal. A case at Fort Sandeman proved fatal in February, 1905. There were also 3 cases of typhoid at that place out of which one proved fatal; 15 persons succumbed to this disease in the year 1900, in some villages of the Upper Zhob Sub-Division.

MEDICAL.  
Typhus.

Influenza assumed an epidemic form in 1891. It commenced at Quetta whence it spread in March and April visiting Kalát, Loralai, and Zhob in succession. The disease was very general, the attacks were severe and the constitutional disturbance considerable. The mortality was, however, small. A slight return of the disease in a mild form occurred in September and October.

Influenza.

Both small-pox (*kawai*) and measles (*sharrai*) appear to be endemic. In May and June, 1900, the Kila Saifulla tahsil suffered heavily from a visitation of small-pox and again in the beginning of 1903. The prevalence of the disease is said to be greatly due to the local practice of inoculation.

Small-pox.

Vaccination is optional, and in the greater part of the District inoculation is still in vogue. The advantages of vaccination are, however, beginning to be appreciated, and in 1903, 4,419 successful operations were performed in the old District, while the number of such operations in 1904 in the new District was 1,069.

Vaccination  
and inoculation.

Inoculation, which is locally called *rag*, is practised by *mullás*, Saiads, and other persons of religious sanctity, whose services are requisitioned when an outbreak of small-pox occurs, and who are paid a small fee as an offering in cash or kind. Certain persons are generally considered specialists in the art. The method usually adopted is for a

## 290      CHAP. III.—ADMINISTRATIVE.

**MEDICAL.** small incision to be made with a razor on the wrist of the right hand, in which lymph obtained from the pustules of a person suffering from the disease is inserted, together with a grain of wheat or *juári*. The patient is then segregated, and is only visited by persons who have themselves had small-pox. An eruption and fever generally occur within three days of the operation, and at this time the patient is fed on strengthening food, such as meat soup, milk, etc., but no sour or acid substances are given. If no eruption or fever occurs within three days the operation is repeated a second and sometimes a third or fourth time, until it proves successful. When suffering from the eruption, a patient may not be visited by women or other persons who for any reason may be considered unclean according to the custom of the country.

Indigenous  
remedies.

While the people who live near places where there are dispensaries have begun to appreciate the advantages afforded by British medical institutions and freely visit them, those living in the remote parts still resort to their own simple remedies, of which some account may here be given, and in which charms and amulets of *mullás* and the dust taken from shrines of local saints play an important part. The fever called *Khwa chapi* or *tora taba* (possibly typhus) is considered infectious and in the Hindubágh and Kila Saifulla tahsils, the patient is wrapped in the skin of a freshly slaughtered sheep, and a *mullá* draws a line round the hut or *kizhdi* in which the patient is placed to prevent the infection spreading. Bleeding is generally also resorted to, the vein known as *bá-salik* being opened, and the stem of *umán* (*Ephedra pachyclada*) boiled in water is administered to the patient as a diaphoretic. The wrapping of the patient in the skin of a sheep or goat killed fresh for the purpose is also resorted to in cases of pneumonia (*skárwai*) and malarial fever (*zharai tabu*). In cases of syphilis in the Fort Sandeman tahsil the vein *bá-salik* of a patient suffering from the disease is opened; the people of Hindubágh

and Kila Saifulla tahsils, however, know no remedy except that the patient goes to a Saiad family in Pishin, a member of which gives him an amulet. Eye diseases are treated generally with alum which is roasted in ashes and powdered for use, or with the boiled yoke of an egg. In cases of dysentery the powdered rind of the pomegranate or *sinzalai* (*Elæagnus hortensis*) mixed with curd is administered.

MEDICAL.

The pice-packet system of selling quinine, through the agency of the post office, was introduced in 1895. During the first year, i.e., 1895-6, 375 packets were sold, of which 345 were sold at Hindubagh and the remaining 30 at Fort Sandeman. In 1904-5 the sale had risen to 490, of which 193 packets were sold at Mughal Kot, 148 at Girdáo, 130 at Gul Kach, and 19 at Fort Sandeman.

Working of the pice-packet system of sale of quinine.

Apart from the bazars at Kila Saifulla and Hindubagh, where sweepers are employed, no arrangements, official or private, exist for the sanitation of villages. The litter and filth are allowed to remain in the houses and streets until they are removed for manuring the fields. The migratory habits of the people assist considerably in sanitation. With the establishment of peace and security there is also a tendency among *zamindárs* to desert the villages and build their houses near their fields.

Village sanitation and water supply.

The supply of drinking water is drawn from springs, streams or *kárezes* and in parts of Kila Saifulla from wells; occasionally also it is obtained from pools in which rain water has collected. The wells offer a fairly protected source of supply, but the open channels, which are found in the greater part of the District, are, as already remarked, especially liable to pollution and infection, and are a source of danger in time of epidemics. On the whole the quality of water throughout the District is good. The civil and military station of Fort Sandeman has been provided (1894) with a piped water supply. In 1903 the Civil Surgeon remarked that "owing to the supply of piped water at Fort Sandeman, the improvement of the drainage system, and

**MEDICAL.** other sanitary measures, an improvement appears to be taking place in the public health of the town and bazar, but in the villages no appreciable alteration has yet taken place.”

**SURVEYS.** The Survey Department of the Government of India has prepared and published maps of the whole District on the one-eighth, quarter, and half inch scales.

In connection with the Settlement operations, a cadastral survey on a scale of 16 inches to the mile and based on traverses obtained from the Survey Department, was undertaken in 1901-2, in the Kila Saifulla and Hindubágh tahsils, of irrigable lands and of such *sailába*, *khushkába*, and uncultivated plots as lay within the limits of irrigable area. The Kákar Khurásán and Kajír *mauzas* in the Hindubágh tahsíl were excluded from the operations. The survey in that tahsíl was *kishtwár* ( field to field ) in all circles except Kazha which was subjected to *thákbast* owing to the temporary division of the lands there. In the Kila Saifulla tahsíl the small *mauzas* situated on hillsides were surveyed *kishtwár*, but in the remaining area the survey was *thákbast*.

The land in both the tahsils was classed under the heads of irrigable, gardens, dry crop, culturable, unculturable, and *chaman* ( grass lands ), the irrigable being sub-divided into different classes according to its capacity for yielding crops.

The village cadastral survey was almost entirely non-indigenous and was recruited principally from the Punjab.

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#### CHAPTER IV.—MINIATURE GAZETTEER.

The Fort Sandeman sub-division is made up of two portions technically known as—(a) the Lower Zhob sub-division consisting of the Mando Khél and Shírání countries, the Sulaimán Khéls, and the Khurásán tracts along the Kundar river; and (b) Fort Sandeman sub-division consisting of the Fort Sandeman tahsíl; but for administrative purposes the whole tract is treated as one and is known as the Lower Zhob sub-division and Fort Sandeman tahsíl. The officer in immediate charge is an Extra Assistant Commissioner.

FORT SANDEMAN SUB-DIVISION.

The tahsíl covers the eastern portion of the District and lies between  $30^{\circ} 39'$  and  $32^{\circ} 4'$  N., and  $68^{\circ} 58'$  and  $70^{\circ} 3'$  E., and has an area of 3,583 square miles. The country is hilly, and is intersected by the valley of the Zhob river and many minor valleys including the lower portion of the Kundar.

General description.

The tahsíl is bounded on the north by Afghán territory, the boundary line from Domandi westward having been settled in 1894, on the east by the Sulaimán range which separates it from the Déra Ismáíl Khán District, on the south by the Músa Khél and the Bori tahsíls of the Loralai District, and on the west by the Kila Saifulla tahsíl.

Boundary.

The hills in the east of the tahsíl belong to the Sulaimán range and comprise the Takht-i-Sulaimán (11,070) and Kaséghar (11,800), the original home of the Afgháns, Shinghar (9,278), and Torghar (7,517). The northern, western, and southern hills belong to the Toba Kákar range and include the Spéragher (8,770), Súngghar (7,121), Zhwaeghar (8,144), and the eastern spurs of the Spinghar (8,253).

Hill Ranges.

The northern portion of the tahsíl is drained by the Kundar and its affluents, which joins the Gomal at

Drainage and Rivers.

MINIATURE  
GAZETTEER.

Domandi and then flows due east to Khajúri Kach. The central and the largest portions are drained by the Zhob river, the principal tributaries of which are the Kandál, the Sri Toi, and Sawara. The eastern portion is drained by the Siliáza and the Khaisára streams both of which rise at the Hatsu watershed, and by the Chúhar Khél Dahána stream.

## Forest.

There are at present no State forests in the District. The principal trees in the tahsil are the *pistacia nutica*, olive, *chilghoza* (edible pine), *nashtar* (*pinus excelsa*) and *acacia modesta*.

Climate,  
Temperature,  
and Rainfall.

The climate generally is very dry; in summer the day temperature is high, but, except in the months of July and August, the nights are fairly cool. During July and August thunderstorms are common, and, for some days after a storm, the temperature is considerably lowered. The winter is cold and there are great diurnal variations in the temperature. High winds are common throughout the year. The average temperature of Fort Sandeman in the summer months is about 83° and in winter about 55°. The rainfall is variable and scanty, the annual average of 12 years ending with 1904, being 9·55 inches in Fort Sandeman; 3·97 inches in winter and 5·58 in summer, the highest figures being in March 1·87 and in July 2·29.

## History.

The history of the tahsil is given in Chapter I under general history. In 1838 Sir Robert Sandeman, then Agent to the Governor-General, visited Múna Búzár when all the Abdullazai and Pakhézai *maliks* tendered their submission. He then visited Apozai, where the Mando Khéls presented a petition to be taken under British protection. On his return journey Sir Robert Sandeman was met at Gwál Haidarzai by Sháh Jahán Jogízai and the leading *maliks* of Central Zhob who also petitioned that, as they were unable to keep peace and maintain order, the British Government might be



pleased to take them under its protection and that they were willing to pay revenue. The valley was accordingly occupied in 1889 and the Bargha Shírání country included in 1890. MINIATURE  
GAZETTEED.

In 1905, the tahsíl contained 1 town and 109 villages ; Population. the total population according to the Census of 1901, was 34,712 ( males 20,600, females 14,112 ), of these 32,868 or 95 per cent. were Muhammadans, 1,445 Hindus, 50 European and Eurasian Christians, 38 native Christians, and 311 others including Sikhs. The Hindus are chiefly aliens engaged in Government service, trade or labour. The indigenous Muhammadans are of the Sunni sect, and speak Pashtú. They numbered 29,698 (males 16,015, females 13,683) and are almost all Afgháns. The principal tribes are—Kákars 11,963 (which include 11,782 Sanzar Khéls, the main sections represented being the Kibzai 6,165, Abdullazai 4,040, Alizai 1,076 ), Mando Khéls (who are wrongly classed as Panri in the Census records ) 4,276, Shíránis 6,974, Sáfi 345, Ghilzais 5,076, and Saiads 966.

The trade of the country is in the hands of the Ghilzai Powindahs, Pakhézai Abdullazais, and Hindus ; the bulk of the indigenous population is chiefly dependent on agriculture and flocks. A few of the Harípál, Bábar, and Abdullazai carry on a regular trade in asafoetida.

Besides the Fort Sandeman town, the principal villages are—Tangsar ( 1,419 ), Murgha Kibzai, where there is a military post, a telegraph and post office, a dispensary, rest house and a small bazar ( 1,274 ), Mína Bázár ( 788 ), Mardánzi ( 967 ), Apozai ( 445 ), Brunj ( 283 ), Gadai Khél ( 796 ), Bádinzi ( 417 ), Hurmzai ( 664 ), Kákha ( 745 ), Haidarzai ( 502 ), Girda ( 672 ), Mughal Kot military post ( 139 ), Koria Wasta ( 175 ), Marghbal ( 354 ), Chaléra Pasta ( 576 ) and Kapíp ( 245 ).

Many of the valleys in the tahsíl possess a productive Agriculture. red clay soil, which is, however, often largely mixed with gravel. Of the area annually cultivated about 90 per cent.

**MINIATURE** is irrigated and 10 per cent. dry crop, the percentage of  
**GAZETTEER** the latter in the Shírání and Kibzai circles being 24 and 26, respectively. The sources of irrigation are 11 streams (including the Zhob river) and 106 springs. The principal crop of the spring harvest is wheat, and of the autumn, maize and rice. Fruit gardens exist at Fort Sandeman and Mína Bázár only.

A rough estimate, made in 1904, of the agricultural stock belonging to the permanent inhabitants, puts the number of camels at 539, donkeys 1,072, bullocks and cows 8,097, sheep and goats 112,499, and buffaloes 42. The numbers belonging to nomads were estimated at 3,334 camels, 1,402 donkeys, 1,528 cattle, and 41,980 sheep and goats.

Communica-  
tion.

The principal roads leading from Fort Sandeman are—the Fort Sandeman-Murgha Kibzai-Loralai-Harnai road; Fort Sandeman-Khajúri Kach road; Fort Sandeman-Kila Saifulla-Hindubágh-Khánai road; and Fort Sandeman-Dahána Sar road. The other important tracks are—

- (1) Fort Sandeman to Músa Khél (58 miles), thence to Khán Muhammad Kot (19 miles) and Kingri.
- (2) Fort Sandeman to Shínggar (about 30 miles).
- (3) Fort Sandeman to Gal Kach via Nawe obo (51½ miles) and from Nawe obo to Husain Nika shrine (35 miles).
- (4) From Murgha Kibzai to Músa Khél (30 miles).
- (5) From Murgha Kibzai to Mékhtar (20 miles).
- (6) From Fort Sandeman via Shighála to Kamr-ud dín Káréz.

Most of these routes are given in detail in table IX, Volume B.

Admini-  
stration.

The tahsíl is divided into 5 *patwáris'* circles—Mando Khél (head quarters Brunj), Gustoi, Kibzai (Takhæ Sulaimánzai), Abdullazai (Mína Bázár), and Shírání (Koria Wasta). The tahsíl staff consists of a tahsíl-dár, 2 náib tahsíl-dárs, a *muhásib*, a *kánungo* and 6 *patwáris*,

## FORT SANDEMAN.

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and there are 209 headmen or *maliks*. A regiment of native infantry is stationed at Fort Sandeman with detachments at Máni-Khwa and Mír Ali Khél. The fort at Murgha Kibzai is held by a small detachment from the cavalry and infantry regiments stationed at Loralai. In 1905 there were 369 men of the Zhob Levy Corps at head quarters, and 428 men (cavalry and infantry) in 12 posts details of which are given in table XXII, Volume B.

Besides the men employed on escort and guard duties at District headquarters, there were (1905) 44 police in the tahsíl; the total number of levies was 222 (including 103 sowars) the distribution of which is given in table XXIII, Volume B.

The bulk of the land revenue is levied in kind, the general rate being one-sixth of the produce. In a few villages, however, an annual assessment in cash (*ijára*) is fixed. The annual average receipts including grazing tax for the five years 1897-8 to 1901-2 were Rs. 57,065; in 1904-5, which was an unfavourable year owing to want of rain, the receipts were Rs. 42,842; of which grazing tax represented about 42 per cent.

Among the special products of the tahsíl are *chilghoza*, cumin seed, hyssop, rhubarb, and asafoetida.

**Fort Sandeman Town**—The head quarters station of the District, is situated in 31° 21' N. and 69° 27' E. It was first occupied in December, 1889. To the natives the locality is known as Apozai, from a village occupied by the Apozai section of the Mando Khéls close to the town. It received its present name from its founder, Sir Robert Sandeman. The station stands about 4 miles east of the Zhob river in an open plain 4,700 feet above sea level. A ridge (*Toryán*) rises 150 feet above the surface of the plain to the north on which stands the house of the Political Agent, known as the Castle. The military lines, bazar, dispensary, and school lie below. The nearest Railway station in Baluchistán is Harnai,

MINIATURE  
GAZETTEER.Land  
Revenue.Special  
Products.Fort  
Sandeman.

**MINIATURE** 168 miles; Darya Khán the Railway station for Déra Ismáíl  
**GAZETTEER.** Khán, is about 122 miles. The population numbered 3,552 in 1901. The garrison consists of a native infantry regiment and of the headquarters of the Zhob Levy Corps. A supply of water for drinking purposes carried by a pipe 9 miles from the Siliáza valley was inaugurated in 1894, at a cost of little over a lakh of rupees. Water for irrigation is also obtained from the same source. A local fund has existed since 1890; the receipts during 1904-5 were Rs. 22,382 and the expenditure Rs. 21,267. One-third of the net receipts from octroi is paid to the local military authorities. The town has a flourishing bazar with about 170 shops and 122 houses. Of the shop-keepers 17 deal in cloth, and there are 15 cobblers and dealers in leather goods, 3 dyers, 7 goldsmiths, and 6 blacksmiths. A staff of 1 jemadár and 17 sweepers is employed for the conservancy of the town. There is a combined Post and Telegraph Office, a serái called after Major MacIvor, the first Political Agent of Zhob, a Jirga Hall in which is also located a Library, a boys' and girls' school. The European cemetery lies at about three-quarters of a mile to the east of the town on the northern bank of the Siliáza stream.

A small sanitarium, 8,700 feet high, exists about 30 miles to the north-east of Fort Sandeman at Shinghar on the Sulaimán Range. It is connected by a bridle-path with Fort Sandeman. It affords a pleasant relief from the oppressive heat of the Zhob valley and the Political Agent, Zhob, generally spends a portion of the summer there. The hill is well wooded with edible pine and ash, and a small political bungalow and a rest house have been built there. The water-supply, though not abundant, is good.

**MINA  
 BAZAR.**

Mina Bazar.—Lies in eastern Zhob about 25 miles to the south-west of Fort Sandeman and is situated in 31° 4' N. and 69° 17' E.; its approximate altitude is 4,900 feet; the village has buildings of a more durable nature than those met with in other parts of the District, and are

built of stone mortared with clay. It is composed of five MINIATURE  
GAZETTEFR. hamlets; the Bráhmzai, the Mandénzai, the Kabúlzái, the Yásnzai, and the Khidarzai Kili, known after each section of the Pakhézai Abdullazai Kákars. In 1901 the population was 788: males 408, females 380. In pre-British days Hindus from Vihowa had about 30 shops at Mína Bázár and carried on a brisk trade, but since the establishment of the Fort Sandeman station most of them have left. The Pakhézais now own 12 shops. They possess only a small amount of land and have from time past engaged in trade and have made their village the mart for goods from Afghánistán and India, almonds, pistachio nuts, *postins*, and *asafœtida* from Southern Afghánistán being exchanged for common cotton cloths from India. A small amount of *ghí* and wool is also exported. The village lands are irrigated by the Mazghár and Sawara streams, and there are two small orchards containing vines, mulberries, almonds, apricots, pomegranates, and peaches. Drinking water is obtained from a small *káréz*. The first expedition into the Zhob valley under the command of General Sir O. V. Tanner, accompanied by Sir Robert Sandeman, visited the place in 1884, and it was at Mína Bázár that, during Sir Robert Sandeman's mission in 1883, all the Abdullazai *maliks* tendered their submission. A *patwári* is stationed at Mína Bázár and there is also a levy post.

The Upper Zhob Sub-Division comprises the tahsils of Kila UPPER ZHOB  
SUB-  
DIVISION. Saifulla and Hindubágh, and is in charge of an Extra Assistant Commissioner, with head quarters at Hindubágh.

The Kila Saifulla Tahsil lies in the centre of the Zhob Kila Saifulla  
Tahsil. District along the central part of the valley of the Zhob river and is situated between 30° 32' and 31° 43' N. and 68° 9' and 69° 18' E. Its greatest length from north to south is about 81 miles, and the greatest breadth from east to west about 72 miles, and it covers an area of about 2,768 square miles. The tahsil derives its name from a mud fort

**MINIATURE GAZETTEER.** situated near its headquarters and called after its founder Saifulla Khán who was a man of influence among the Khoidádzai Sanzar Khéls.

The greater part of the tahsíl consists of hill ranges intersected by hill torrents, but the ground along the main Zhob valley is flat.

**Boundaries.** It is bounded on the north by Afghán territory, the line forming part of the boundary demarcated in 1894; on its east lies the Fort Sandeman and on the west the Hindubágh tahsíl, while in the south a range of hills separates it from the Bori tahsíl of the Loralai District.

**Hill Ranges.** The hills belong to the Toba Kákar range, and the principal ones are the Torghar (Shagána Kotal 6,790, Azak 8,389, Baliàraghar 9,705); Spínghar which separates the Khaisor valley from the Zhob valley (Shina-ghára 8,680, Shorghar, Spínghar 9,634, Yavháshki 9,723) and the southern hills (Churmaghar 6,931).

**Drainage and Rivers.** The main drainage of the tahsíl is carried off from west to east by the Zhob river and several of its affluents, the principal of which is the Toi. The northern slopes of the Torghar range are drained by the Kundar which traverses the northern portion of the tahsíl.

**Forests.** There are no reserved forests in the tahsíl; the principal trees are the pistachio *Khanjak*, known locally as the *wana*, wild pomegranates, *shang* or ash, olive (*showan*), *zralg* (*Berberis vulgaris*), and tamarisk.

**Climate, Temperature, and Rainfall.** July and August are the hottest, and January and February the coldest months. During the latter months the temperature varies from 98° to 30°. Strong winds constantly blow from a westerly direction, and in winter, when the wind is high, the cold is intense. In the hot season strong winds raise clouds of dust in the valley. The rainfall is precarious and scanty. No record of the rainfall was kept previous to 1900, and during the four years ending with 1904 the annual average was 4.15 inches; 1.83 inches in winter and 2.32 inches in summer, the highest fall being 1.47 inches

in March and 1·18 in May. The period in question was one of general drought and it is possible that these figures do not represent the true condition of the country in more favourable seasons. MINIATURE  
GAZETTEER.

Kila Saifulla is the home of the Jogizai family, round which centres the history of the District. Sháh Jahán, the head of the family, who was known as the *bádsháh* or ruler of Zhob, with his tribal headmen tendered his submission to Sir Robert Sandeman at Gwál Haidarzái in 1888, and the tahsíl came under British protection in 1889. It was first treated as part of Hindubágh, but in 1893 a náib tahsildár was posted to it, and in 1902 Kila Saifulla was made into a separate tahsíl. History.

In 1905 the tahsíl contained 60 villages and its total population according to the Census of 1901 was 19,229: (males 10,463, females 8,766). Of these, 19,203 were Muhammadans, 19 Hindus all aliens, 3 native Christians and 4 others. The indigenous Muhammadans are of the Sunni sect, and speak Pashtú; they number 19,108 and are almost all of the Afghán race. The principal tribes represented are—the Ghilzais 519, Kákars 18,506, and Saiads 65. The Kákars belong to the following clans: Sanzar Khél 18,411, Sargara 58, Sanatia 30. The details of the sections of the Sanzar Khél Kákars are given in table II-A, Volume B. The principal sections in the tahsíl include 16,889 Alízai, 470 Barat Khél, and 818 Arabi Khél. The most important sub-section of Jalálzai-Shádozai-Alízai are the Jogizai who in 1901 numbered 740: males 396, females 344. Population.

The bulk of the population is engaged in agriculture, though some combine with it flock-owning and camel-breeding and a few manufacture earth salt. The local trade is in the hands of the Hindu shopkeepers and Powindahs.

The tahsíl headquarters station is Kila Saifulla, which has the usual buildings, viz., a post and telegraph office, a rest house, civil dispensary, a primary school, and half-a-dozen shops. Drinking water is obtained from the Rabát

MINIATURE  
GAZETTEER.

Káréz, and there are two small gardens irrigated by wells. The question of the water supply has always been one of great difficulty and it is proposed to try the experiment of sinking artesian wells. Other principal villages are—Rod Jogízai, a collection of 7 hamlets including Sbaran ( 2,806 ), Gwál Ismáílzai ( 1,407 ), Akhtarzai ( 916 ), Ghorézai Pitao ( 928 ), Ali Khél ( 822 ), Bátozai ( 1,843 ), Barat Khél ( 514 ), Bahádurwál ( 798 ), Bandát Mírzai ( 691 ), Tauda Safarzai ( 521 ), and Tánishpa ( 248 ). This last-named village ( 7,850 feet in height ) is picturesque and is surrounded by hills on all sides. It possesses an abundant supply of good water, and a small amount of cultivation. The late S. B. Nawáb Bangul Khán had a stronghold here and the rocks constituting the fastness were blown up by the troops under General Sir George White in October, 1890.

## Agriculture.

In 1901-2 a survey of the irrigated *maháls* in the tahsíl was carried out which showed an irrigable area of 21,678 acres, the sources of irrigation being 10 streams, 52 *kárézes*, and 52 springs. The area under crop in 1904-5 was 10,682 acres, of which 8,651 were under spring and 2,031 under autumn crops. The area under principal crops was—wheat 8,055, *juári* 624, barley 596, maize 306, and millets 1,064 acres.

There are considerable tracts of dry crop area which have been embanked and which mostly lie in the Ali Khél and Musáfirpur circles. They are chiefly cultivated with wheat, the amount of the Government share at one-sixth realised in 1904-5 being 3,190 maunds or 44 per cent. of the total amount of wheat collected as revenue.

A rough estimate made, in 1904, of the agricultural stock belonging to the permanent inhabitants put the number of camels at 2,837, donkeys 423, cattle 631, sheep and goats 60,615. The numbers belonging to nomads were estimated at 1,831 camels, 97 donkeys, 25 cattle, and 2,448 sheep and goats.

Communica-  
tions.

Kila Saifulla, the tahsíl headquarters lies on the Khánai-Hindubágh-Fort Sandeman road 83½ miles from the Khánai



Railway station and 88 miles from Fort Sandeman. The other important routes are—(a) from Akhtarzai to Loralai via the Dholu pass (28 miles) ; (b) from Gwál Haidarzai to Loralai (39 miles) ; (c) from Kila Saifulla to Kamr-ud-dín Káréz by Rod Jogfzai and Tánishpa ; and (d) from Kila Saifulla to Késhatu by the Loe Liár.

MINIATURE  
GAZETTEER.

The tahsíl is divided into three circles—Kila Saifulla, Ali Khél, and Musáfirpur. The staff consists of a tahsildár, a náib tahsildár, a *muhásib*, two *kánúngos*, and four *patwáris*. There are 128 village headmen or *maliks*. A small detachment of native infantry supplied by the regiment at Loralai is stationed at Kila Saifulla to guard the treasury. The question of replacing this detachment by police is now under consideration (1906). The Police post consists of 12 men under a deputy inspector, and there are 105 levies distributed over 14 posts, details of which are given in table XXIII, Volume B.

Administra-  
tive Staff.

The land revenue is levied in kind at one-sixth of the produce, the Government share being generally determined by appraisalment of standing crops (*tashkhis*). The annual average receipts from 1897-8 to 1901-2 were Rs. 31,660 and in 1904-5 Rs. 31,481. In this year grazing tax contributed Rs. 9,639 or about 31 per cent. of the total revenue.

Land Reve-  
nue.

The special products of the tahsíl are cumin seed, hyssop, pistachio *khanjak*, and *shikampára* (fleawort seed). Earth salt is manufactured in the Multani tracts which lie south of Spínghar and coal seams have also been noticed.

Special Pro-  
ducts.

The Hindubágh Tahsíl of the Upper Zhob Sub-Division lies in the western part of the Zhob District, and is situated between 30° 36' and 31° 50' N., and 67° 27' and 68° 46' E. Its area is about 3,275 square miles.

Hindubágh  
Tahsíl.  
General De-  
scription.

The tahsíl is covered with hills interspersed with valleys, the principal ones being the Marzaghán valley between the Súrghund and Dowran hills, the Upper Zhob also known as the *náwah* which runs from Murgha Mehtarzai on the west to Kazha on the east and which has in places alluvial flats,

**MINIATURE GAZETTEER.** the Indar Bés Shéla between Kand and Khazína hills; the Rod Fakírzai or Bábu Chína valley between Khazína and Taghratu, the Kajír, Kákar Khurásán; and the Kamchughai which lies in the south western corner of the tahsíl.

**Boundaries.** It is bounded on the north by the Toba Kákar range which separates it from Afghánistán, on the east by the Kila Saifulla tahsíl, on the south by the Bori tahsíl of the Loralai District, and on the west by the Pishin tahsíl of the Quetta-Pishín District.

The local tradition asserts that in ancient times a Hindu *fakír* planted a tree of the description known as *bágh* in Kákar parlance, and hence the name.

**Hill Ranges.** The hills of the tahsíl belong to the Toba Kákar range, and the principal ones are—the Kand ( 10,786 ) in the extreme west, which in the north is known as Barsha or Nigánd ( 9,438 ); Súrghund ( 10,609 ) in the south-western corner; Marzaghán ( Atoka 9,364 ) in the south; Malkand and Sraghar in the north; the Torghar ( 9,705 ); Yavháshki ( 9,723 ) on the western spur of the Spínghar range; Thor ( 9,274 ), Súrghundi ( 8,295 ), Sharan ( 8,558 ), and Sakír ( 10,125 ).

**Drainage and Rivers.** The main drainage of the tahsíl is from west to east and is carried by the Zhob river, which is known in its upper reaches as the Lahar; its principal tributaries in the tahsíl are the Kamchughai and the Rod Fakírzai from the north and Marzaghán from the south. The Kundar, Wáli Murgha, and a number of hill torrents drain the country north of Torghar.

**Forests.** There are no reserved forests. The principal trees are juniper, which is chiefly found in the Súrghund hills in the south, the *wana* or pistachio *khanjak*, the tamarisk in Rod Fakírzai, *korae* or *zrdlg* (*Berberis vulgaris*) in Khurásán, *mákhai* (*caragana*), *sanzalae* (Trebizond date), *shang* (ash), and *showan* (olive).

**Climate, Temperature, and Rainfall,** Snow falls from December to March, during which months the average temperature is about 40°. A strong

and cold wind also blows constantly from the west often for a week or so at a time. September, October, March, and April are temperate months. The summer lasts from May to August when the temperature ranges between 70° and 80°.

MINIATURE  
GAZETTEER.

The rainfall is scanty and precarious. In the four years ending with 1904, the average rainfall was 4·92 inches; 3·94 inches between October and March and 0·98 inches between April and September, the heaviest rainfall having been recorded in March, 2½ inches and in January 1·11. As already noted in connection with the rainfall of the Kila Saifulla tahsil the four years in question were exceptionally dry ones and it is possible that in more normal years the average is higher.

Hindubagh came under British protection after Sir Robert Sandeman's mission towards the end of 1889 and a tahsil was established in 1890.

History.

In 1905 the tahsil contained 76 villages, and its total population, according to the census of 1901, was 15,777 (males 8,574, females 7,203). Of this number 65 were Hindus, all aliens, 5 native Christians and 6 others, the remainder (15,701) being Muhammadans. The indigenous Muhammadans are of the Sunni sect, speak Pashtu and are almost all of the Afghán race. They numbered 15,611: males 8,462, females 7,149. The principal tribes represented are—the Ghilzais 1,905, the Kákars 12,599, Lawána (Pannis) 958, and Saiads 107 (Yásinzai 38, Kharshín 32, Táran 28). The principal clans of the Kákars in Hindubagh are—Sanzar Khél 7,473, Sargara 707, and Sanatia 4,399. The chief sections of Sanzar Khéls in the tahsil are—Jalálzai 723, Khoedázái 2,010, Mardánzai 1,361, Mírzai 2,678, and Nas Khél 512. The Sanatia clan is represented by Isa Khél 1,559, Mehtarzai 2,595, and Sárangzai 174.

Population.

The bulk of the population is engaged in agriculture, but the Sanatia Kákars, Lawánas, and others are largely flock-owners.

MINIATURE  
GAZETTEER.

The headquarter station is also called Hindubágh and is situated in the Parkanda *mahál*. Besides the usual tahsíl, police and levy buildings, it has a house for the Assistant Political Agent, a rest-house, a dispensary, a primary school, a combined Post and Telegraph Office, a small library, a good garden, and five shops. Its population including that of Loe and Kam Káréz was ( in 1901 ) 1,185. Other principal villages are—Bábu Chína or Fakírzai village ( 165 ), Indar Bés ( 255 ), Kajír ( 1,002 ), Sáleh Káréz ( 359 ), Kamr-ud-dín Káréz ( 744 ), Kundar ( 453 ), Mullá Kutab Chína ( 649 ), Káur Mehtarzai ( 907 ), Murgha Mehtarzai ( 474 ) and Kazha ( 514 ).

## Agriculture.

During the cadastral survey of 1901-2 the irrigable area of the tahsíl excluding Kajír and Khurásán was ascertained to be 17,849 acres, the sources of irrigation being 5 streams, 71 *kárézes* and 279 springs. The area under crop in 1904-05 was 6,166 acres ( including 31 acres under gardens ) of which 4,989 acres were under spring, and 1,146 acres under autumn crops. The principal crops were—wheat ( 4,487 acres ), barley ( 502 ), maize ( 752 ) and millets ( 294 ); melons and a small quantity of tobacco are also grown. A rough estimate made in 1904, of the agricultural stock belonging to the permanent inhabitants puts the number of camels at 280, donkeys 378, cattle 508, and sheep and goats 39,760. The numbers belonging to nomads were estimated at 6,940 camels, 7,054 donkeys, 15 cattle, and 25,000 sheep and goats.

Communi-  
cations.

The nearest railway station is Khánai ( 45 miles ) on the Sind-Pishín Section of the North Western Railway. The principal route is the Khánai-Hindubágh-Kila Saifulla-Fort Sandeman road, which traverses the south of the tahsíl. Hindubágh is also joined by a bridle-path with Chinjan on the Pishín-Déra Gházi Khán road ( 23 miles ) and with Murgha Fakírzai ( 25 miles ) whence a track goes to Loeband, Késhatu and Kamr-ud-dín Káréz. The other important routes are —(a) from Hindubágh to Spérarágha

(32 miles) on the Pishín-Déra Gházi Khán road; (b) from Kazha to Bábu Chína (33 miles); (c) from Hindubágh to Háji Khán Kila and Kazha Víála (Barshor) in Pishín through the Kamchughai glen: this route is not fit for laden camels; and (d) a track from Murgha Fakírzai to Laghai and Háji Khán Kila (c 25 miles).

MINIATURE  
GAZETTEER.

The tahsil is divided into five\* circles—Kákar Khurásán, Bábu Chína, Kazha, Hindubágh, and Murgha Mehtarzai, and the administrative staff consists of a tahsildár, a náib tahsildár, a *muhásib*, 3 *kánúngos*, and 7 *patwáris* and there are 165 headmen or *maliks*. A small detachment of native infantry supplied by the regiment at Loralai is stationed at Hindubágh to guard the sub-treasury. The question of replacing this detachment by police is now under consideration (1906). The police post at Hindubágh consists of 12 men; and there are 57 District levies distributed over 7 posts, details of which are given in table XXIII, Volume B. The Zhob Levy Corps garrisons the important frontier posts of Kamr-ud-dín Káréz (29 men), Késhatu (19 men) Tirkhawar (48 men), Ghazlúnawar (27 men), and Loeband (35 men).

Administra-  
tive Staff.

The land revenue is levied in kind at the rate of one-sixth of the produce and is generally assessed by appraisalment of crops. The annual average receipts from 1897-8 to 1901-2 were Rs. 19,089, and in 1904-5 Rs. 27,459. In this year grazing tax contributed Rs. 12,571 or 46 per cent. of the total revenue.

Land  
Revenue.

Cumin seed, hyssop, *shirkhisht*, locally known as *sharivi* (*Atraphaxis spinosa*), liquorice, *réwand chíni* (*Rheum emodi*), and the gum of *zarga* (*Prunus eburnea*), are found in the tahsil. Abundant asbestos deposits occur in the Spín poti hills near Telérai Muhammad Ján, and chromite ore is found in the Tor Jang hill and other places close to Hindubágh.

Special  
Products.

**Kamr-ud-din Karez** in the north-east of the tahsil is an important post close to the Afghán border on the

Kamr-ud-  
dín Káréz.

\* Hindubágh and Murgha Mehtarzai are each again sub-divided into two circles, eastern and western.

MINIATURE  
GAZETTEER.

main *káfla* route. It is about 136 miles from Hindubágh and 127 from Fort Sandeman. The post lies to the south of the Multani Ghar on the bank of the Sanzali Khura hill torrent. The inhabitants, who are Lawánas ( population 99 in 1901 ), are chiefly nomads and flock-owners ; they also manufacture earth salt. Those of them who engage in cultivation share the water of the Tirwalún streams with the Tarakis living in Afghán territory. The headman of the Lawánas is Gare Khán Ismáílzai. The post is garrisoned by a detachment of 28 men of the Zhob Levy Corps under a Subadár ; a levy inspector and a *patwári* are also stationed there. It has a small rest-house, and a combined Post and Telegraph Office.

KAMCHU-  
GHAI.

**Kamchughai**, as its name implies, is a narrow glen on the eastern face of the Kand mountain and dividing it from the Tabai range to the east. This glen opens out into the Zhob valley by the village of Rágha Bákálzai and the head of it starts from Chingi on the road to Háji Khán Kila. The total length is about 16 miles.

Elphinstone writing in 1838, described Kamchughai as follows :—

“ The soil is fertile, and in most parts well cultivated. In spring the whole valley and the adjoining hills are green and covered with flowers ; and the inhabitants are busily employed till the end of autumn in the cultivation of two harvests and in the care of their sheep and cattle ; but in winter a frost of three months, and occasional fortnight of snow, oblige them to indulge in the usual idleness of the season. The inhabitants form part of the clan of Sunnuttea ( Sanatia ), the possessions of which extend along the western frontier of the Caukers ( Kákars ) from Zawura ( Zawar ) to the Seeoona Daugh ( Siuni Dag ). This large division is under one chief, who enjoys a very ample authority over his clan, at least over the part of it in the neighbourhood of Cunchoghaye ; his own seat is at Oorguss, two marches from that place. The Malik of Cunchoghaye

receives a fixed allowance of grain from every man in the village. The shepherds near Cunchoghaye are scattered in small camps of four or five tents over the wide valley and neighbouring hills. In some seasons they are compelled, by the failure of the herbage to unite into larger camps, and to move to the country of other tribes while in their scattered state, a whole camp only contains a single family and they have much leisure, no restraint, no government and yet no crimes. The dress, manners, and customs of Cunchoghaye differ in no respect from those of the wilder parts of the Dooraunee (Durráni) country; and they are said to be the same which obtain throughout all the western clans of the Caukers.”

R. S. Diwán Jamiat Rai, Assistant Gazetteer Officer, who visited the glen in 1903 gives the following account of it:—

“The principal villages are Murgha Bákazai, Ghatta Tízha, Mala Shákh, and Rágha Bákazai, but there are several other hamlets scattered about the glen. Up to Kachhai the lands are owned by the Bárakzai sub-section of the Sanatia Kákars while below are Bákalzais. From Kachh downward, every village contains a considerable number of fruit trees, the apricot, *sanzalai*, and vine predominating, with willows and mulberries. The huts in all these villages are built along the slopes of the hill, almost all on the western side. The fields are terraced, having been cut from the sides of the hills, and some of them have stone walls as high as ten feet and the water for irrigation has been led from the stream to various heights. The track is for the most part rugged and only fit for horses, mules, or lightly laden bullocks.”

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Joint agreement executed by the Joint Afghán and British Commissioners of the Indian Afghán Boundary Commission.

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We, the undersigned Commissioners, deputed by our respective Governments to demarcate the boundary line between the territories of the Government of India and His Highness the Amír of Afghánistán, westwards, from the junction of the Kundar and Gomal rivers, have arrived at the following mutual agreement regarding that boundary line, in accordance with the maps and instructions furnished to us by our respective Governments :—

*Clause No. 1.*—The boundary line to which we have mutually agreed runs from Domandi, i.e., the junction of the Gomal and Kundar rivers, along the line of the watercourse of the Kundar river as far as the junction of the Kundar and Kundíl rivers. It thence runs along the watercourse of the Kundíl river, which is here generally known as the Zhizha as far as the junction of the Kundíl and Sharan Toi rivers. From the junction of the Gomal and Kundar to the junction of the Kundíl and Sharan Toi rivers we consider that it is not only unnecessary but impracticable to erect boundary pillars. The centre of the flowing stream of the Kundar and Kundíl rivers forms in itself a well-defined and natural boundary, and any boundary pillars erected along this line would be liable to be carried away by floods.

*Clause No. 2.*—From the junction of the Sharan Toi and Kundíl rivers the boundary line, which we have mutually agreed to, follows the centre of the river-bed of the Sharan Toi river upwards from its junction with the Kundíl about one and a quarter miles to boundary pillar No. I, which has been erected on a rocky knoll on the south bank of the

Sharan Toi river. From thence it runs north-west in a straight line to boundary pillar No. II which has been built on a prominent peak on the east bank of the river at the lower entrance of the Tangi through which the river issues on to the plain. Thence it runs northward to boundary pillar No. II (1), which is on a conspicuous peak on the west bank of the river at the upper entrance of the same Tangi. Thence it runs in a straight line northwards to boundary pillar No. III, which has been erected on the top of a prominent peak, known as Orzal Ghara, which is situated between the two main branches of the Sharan Toi river, i.e., the Sara Cháhán nullah and its branches on the west and the Ghbargai nullah and its branches on the east.

From boundary pillar No. III, i.e., Orzal Ghara, the boundary line runs westwards in a straight line to boundary pillar No. IV on a conspicuous peak of the Pinakai range, and thence runs north-west in a straight line to boundary pillar No. V, which has been erected on the most northern of a line of high prominent peaks which form the southern branch of the Sháhghar range. The line, marked by boundary pillars Nos. III, IV, and V, follows approximately the watershed between the Orzal Ghara and Sháhghar of the water which drains to the north and east and the water which drains to the south and west.

From boundary pillar No. V, the boundary line then runs south-west following the crest of the line of peaks, which form the southern branch of the Sháhghar range. Pillars Nos. V (1), V (2), and VI have been erected on prominent peaks of this line. Pillar No. VI is on the top of the most southern peak of this branch, which here juts out into the Kosaka plain.

From pillar No. VI, the boundary line runs westwards in a straight line to boundary pillar No. VII, which has been erected on a conspicuous knoll situated about 450 yards almost due north of the old Lowána and Taraki fort

commonly known as Killa Zara, and about 850 yards from the nearest point of the northern bank of the Tirwah river.

*Clause No. 3.*—With regard to the boundary line from boundary pillar No. VII, considerable difficulty has been experienced by us in arriving at a settlement owing to the joint ownership by the Shabeh Khél Tarakis and Lowánas \* of the Tirwah lands. By an ancient settlement of very many years ago, which these two tribes had agreed upon between themselves, the water of the Tirwah canal was divided by agreement into twenty-one shares, i.e., twenty-one *Shabánaroz* as follows, i.e., twelve shares, i.e., twelve *Shabánaroz* were fixed as the property of the Lowánas, and nine shares, i.e., nine *Shabánaroz*, as the property of the Shabeh Khél Tarakis. This division of the water still remains in force, and we have jointly agreed that it should remain in force hereafter as before.

As regards the land, the Lowánas and Shabeh Khél Tarakis were not agreed as to the boundary line separating their respective shares, and it has been necessary for us to settle this matter. After some discussion the Lowánas and Shabeh Khél Tarakis agreed to settle their boundary by oath. The joint agreement recorded by them is attached to this agreement. Oath was given by the Lowánas to the Shabeh Khél Taraki maliks Ghulám Rasúl, son of Gul Khán, and Sadik, son of Alam Khán, who, taking the Korán, marked out their boundary, from the point where the Tirwah canal leaves the bank of the Tirwah river near Killa Zara. We have jointly agreed to this settlement of the boundary line thus arrived at, between the Lowánas and Shabeh Khél Tarakis.

We have also jointly agreed to the following matters connected with the other rights abovenamed, of the Shabeh Khél Tarakis and Lowánas, i.e.—(1) the joint rights to the water of the Tirwah river of the two tribes; Lowánas and Shabeh Khél Tarakis, residing in Tirwah, as far as the head

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\* Also called Lawánas.

of the water jointly owned by these two tribes, i.e., up to the place which is known by the name of Wruskai Karbore, i.e., the western point of the Karbore hill, above which point the Lowánas and Tarakis have no concern, will be according to the following shares, viz., the Lowánas to have twelve *Shabánaroz*, and the Tarakis nine *Shabánaroz* as hitherto from ancient times. Both tribes shall be responsible for the clearing of the water-canal according to ancient custom and according to the abovementioned shares ; (2) neither of the parties, i.e., neither Lowánas nor Tarakis shall, independently of each other, or against the wishes of each other, make a new course anywhere as far as the point where the old water canal ends in the cultivated land, i.e., the point where boundary pillar No. A III has been erected, for the old water canal of Tirwah, which passes through the Lowána and Taraki lands ; and (3) the thoroughfare of both these tribes, i.e., Lowánas and Shabeh Khél Tarakis through any place where there may be no cultivation, will be allowed in any direction within the Taraki and Lowána boundaries in Tirwah.

We have jointly agreed that the boundary line between the lands of the above two tribes should be the boundary line between the territories of our respective Governments. This boundary line runs as follows :—Starting from boundary pillar No. VII it runs southwards in a straight line about 380 yards to a boundary pillar No. A I on the north bank of the Tirwah joint canal opposite Killa Zara, which is situated a few yards away on the other side of the canal. Thence it follows the line of the joint canal as far as boundary pillar No. A II, which has been built on the south bank at the point where present cultivation commences. Thence it runs eastwards along the same joint canal as far as boundary pillar No. A III, which has been built at the point where the existing joint canal ceases. From here it runs eastwards in almost a straight line to a prominent peak on the Ghwainar hill, where boundary pillar No. A IV has been

built. Between boundary pillars Nos. A III and A IV five smaller boundary marks A III (1), A III (2), A III (3), A III (4), and A III (5) have been made to mark the line of boundary as laid down by the maliks on oath.

From pillar No. A IV the boundary line runs south-westwards in a straight line to a southern peak of the Glwaimar hill where a boundary pillar No. A V has been erected. From here it runs westwards in a straight line to a rocky prominence on the east bank of the Tirwah river where boundary pillar No. A VI has been erected. The boundary line then runs upwards along the centre of the bed of the Tirwah river until it arrives opposite to the point at which the Tirwah canal turns off from the bank of the Tirwah river near Killa Zara. At this point boundary pillar No. A VI (1) has been erected on the south bank of the Tirwah river. The boundary line here leaves the river and goes west in a straight line 280 yards to boundary pillar No. A VI (2) erected on a knoll. From here the boundary line runs in a straight line north-westwards up a spur of the Sraghar hill to boundary pillar No. VIII and thence up the same spur in a straight line to boundary pillar No. IX, which is on the top of the most northern of the high peaks of the Sraghar range. From here the boundary line runs in a straight line west 5 miles to boundary pillar No. B I erected in the plain and thence in a straight line north-west for  $2\frac{1}{2}$  miles to boundary pillar No. B II erected on a small prominent hill. From here the boundary line runs in a straight line to Khizr Cháh (well) and from Khizr Cháh (well) in a straight line north-westwards to boundary pillar No. XI, which is built on the top of a prominent hill locally called Roza Khurak. The boundary pillar No. X, which should have been built at Khizr Cháh (well), has not been erected there owing to the low-lying position of the land round Khizr Cháh, but has been built outside the British boundary on the top of a prominent hill 258 yards north-east of Khizr Cháh in order that it may be seen from the boundary pillar on the Sraghar

mountain, and that on Roza Khurak. The old *kárézes* and cultivated lands belonging to the Tarakis on the Tirkha nullah and elsewhere between Sraghar and Khizr Cháh are thus left on the north of the boundary line marked by pillars Nos. IX, B I, B II, and the pillar marking Khizr Cháh, i.e., No. X, and are, therefore, included in Afghán territory.

We have agreed that the Khizr Cháh ( well ) should be open to all persons whether living in British or Afghán territory.

From boundary pillar No. XI, it runs north-west in a straight line to boundary pillar No. XII, which has been erected on a prominent peak of a southern spur of the Inzlan range.

*Clause No. 4.*—We have jointly agreed that from boundary pillar No. XII, the boundary line runs south-westwards in a straight line to boundary pillar No. XIII erected on a prominent knoll on the edge of the Súrzangal plain. From here it runs south-westwards in a straight line to boundary pillar No. XIV which has been erected on the east bank of the Kand river between the Inzlan and Multani hills. From this point the boundary line follows the centre of the river bed of the Kand river, which forms a well defined natural boundary as far as the junction of the Loe Wuchobai nullah and the Kand river, some two miles east of Rashíd Killa. Boundary pillar No. XV has been erected on the east bank of the Loe Wuchobai nullah, at the point where it joins the Kand river.

We have jointly agreed that the Kákars should continue to enjoy, as hitherto, the right of grazing over the tract of land named Man Zakai, situated on the north bank of the Kand river between Rashíd Killa and Ata Muhammad Killa.

We have also jointly agreed that the water of the Kand river belongs jointly to the subjects of the British Government and His Highness the Amír of Afghánistán. The

Afghán subjects have the right of repairing and maintaining their existing *bands* at Tang Bara, and the two Anizai Wastas and Wand, for the purpose of irrigating their lands on the north bank of the Kand. Should subjects of either the British Government or His Highness the Amír of Afghánistán wish to erect a new *band* in the Kand river, they must first obtain the permission of the district officers, who may be concerned, of both Governments.

*Clause No. 5.*—We have jointly agreed that from boundary pillar No. XV the boundary line leaves the Kand river and runs along the east bank of the Loe Wuchobai nullah, through boundary pillar No. XV (1), to boundary pillar No. XVI, which has been erected on a small knoll on the east bank of the nullah. From here the boundary line leaves the bank of the Loe Wuchobai nullah and runs in a straight line to boundary pillar No. XVII, which has been built at a distance of three-quarters of a mile to the east of the Loe Wuchobai nullah on a prominent knoll. From here the boundary line runs in a straight line crossing the Loe Wuchobai nullah to boundary pillar No. XVIII, which has been erected on the watershed between the Tándá and Loe Wuchobai nullahs. From No. XVIII, the boundary line runs in a straight line to boundary pillar No. XIX, which has been erected on a prominent peak on the main watershed between the nullahs flowing into the Loe Wuchobai nullah on one side and the nullahs flowing into the Tándá nullah on the other. The boundary line then runs eastwards and then southwards along the crest of this watershed through boundary pillars Nos. XIX (1) and XIX (2) erected on prominent peaks to boundary pillar No. XIX (3), which is also on a prominent peak of the same watershed. From boundary pillar No. XIX (3) the boundary line turns eastwards and runs, as shown in the map\* attached, in a straight line through boundary

\* Map not printed.

pillar No. XX to boundary pillar No. XXI which has been erected about a quarter of a mile to the east of the main branch of the Tirkha nullah on the edge of the Pinakai plain. From here the boundary line crosses the western extremity of the Pinakai plain and runs south-eastwards in a straight line to boundary pillar No. XXII, which has been erected on a prominent peak of the mountain lying between the Alajirgha and Ghazlúna nullahs. From thence it runs in a straight line to pillar No. XXIII erected on a knoll in the plain between the above two nullahs. From here it runs southwards in a straight line to boundary pillar No. XXIV, which has been erected between and at the junction of the Alajirgha and Ghazlúna nullahs. From here the boundary line follows the centre of the Psein Lora. Pillars Nos. XXIV (1), XXIV (2), and XXIV (3) have been erected to more clearly mark the course of this river. From boundary pillar No. XXIV (3), the course of the Psein Lora is naturally clearly defined and further boundary pillars have been considered unnecessary. The boundary line follows the Psein Lora, which, from the junction of the Tokarak river, is known as the Kadanai river, and runs along the centre of the river-bed of the Psein Lora and Kadanai for nearly 39 miles to boundary pillar No. XXV which has been erected on the south bank of the river on a prominent knoll about one mile above the junction of the Loe Ghbargai nullah with the Kadanai river. Here the boundary line turns westwards and leaves the Kadanai river.

We have also jointly agreed on the following matters relating to the portion of the boundary line defined in this clause :—

*Firstly.*—That the rights attaching to the Psein land which is within Afghánistán and close to and to the west of boundary pillars Nos. XVI, XVII, and XVIII, of water from the Kákars, who own the right to the water of the Loe Wuchobai nullah above that, will remain as hitherto.



*Secondly.*—That the Kákar tribe should continue to enjoy the rights of grazing, as hitherto, throughout the country lying between the Kand river, and Loe Wuchobai nullah and Bábakr Cháhán and Sam Narai.

*Thirdly.*—That the Pseins should continue to enjoy the right of grazing, as hitherto, in the tract of land commonly known as Psein Dágh, which is situated on the south of the Psein Lora.

*Fourthly.*—That the water of the Psein Lora and Kadanai river belongs jointly to the people residing on both banks of the river.

If any of the subjects of the British or Afghán Governments wish to construct a new water channel leading from the Psein Lora or Kadanai river, they must first obtain the permission of the district officers concerned of both Governments.

Translation of a joint agreement executed by the Lowána and Tarakis with regard to lands in Tirwah.

This day, the 24th of the month of Rabi-ul-Awal, 1312 Hijrah (corresponding with the 25th September, 1894), the matter of decision regarding lands situated in Tirwah between the Lowána and the Shabeh Khél Tarakis, inhabitants of Tirwah, was discussed in the presence of Khán Bahádur Hak Nawáz Khán and Abdur Rahmán Khán, representatives of the British Commissioner, and Khán Sáhib Mansúr Khán, appointed on behalf of Sardár Gul Muhammad Khán. After discussion we agreed in this manner that we Lowána maliks, namely, Khán Zamán, Shamak, Garrai Khán, and Morád Khán, on our own behalf and on behalf of the rest of the Lowána people appointed Ghulám Rasúl and Sadik, the maliks of the Shabeh Khél Tarakis, as absolute agents, that both of them may take up in their hands the holy Koran and divide the aforesaid

disputed lands. Whatever line of boundary they may fix in those disputed lands between us, the Lowána people and the Shabeh Khél Tarakis, we both the tribes, accept. If hereafter any one of us of either tribe should infringe this, our decision, all the disputed lands shall belong to that (of the two) tribe which abided by its agreement. These few lines have therefore been written as agreement and to serve as a bond for the future.

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## Appendix II

Alphabetical List of common Trees and Plants of the Zhob District.

| Pashtú name,                       | Scientific name,                       | Description or English name where known. | Locality where found.                   | Brief remarks as to local uses.                                                                                     |
|------------------------------------|----------------------------------------|------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Anághah ...                        | <i>Prunus cerasus</i>                  | Wild Cherry.                             | All hills ...                           | .....                                                                                                               |
| Anár or Nar-gosa.                  | <i>Punica granatum.</i>                | Pomegranate.                             | Kila Saifulla gardens and all hills.    | .....                                                                                                               |
| Angúr ...                          | <i>Vitis vinifera</i> ..               | Grape ...                                | Gardens ...                             | The principal varieties are: <i>tor, háita, kalamak, uzhdaspin, sár, spin, kishmishi,</i> and <i>sra kishmishi.</i> |
| Arghuch ...                        | <i>Scorzonera</i> (?)<br>Mollis, Bieb. | Scorzonera...                            | All hills ...                           | Used as a famine food.                                                                                              |
| Bádám ...                          | <i>Prunus amygdalus.</i>               | Almond ...                               | Upper Zhob Sub-Division.                | .....                                                                                                               |
| Bang ...                           | <i>Hyoscyamus reticulatus</i> , L.     | Species of henbane.                      | Hindubágh hills.                        | Fodder for sheep and goats.                                                                                         |
| Bárák ...                          | .....                                  | .....                                    | Upper Zhob Sub-Division.                | Fodder for sheep, goats and camels.                                                                                 |
| Barara ..                          | <i>Periploca aphylla.</i>              | .....                                    | All hills ...                           | Used for fuel.                                                                                                      |
| Barau ..                           | <i>Sorghum halepense</i> , Pers.       | .....                                    | Upper Zhob Sub-Division.                | Fodder for sheep, goats and camels.                                                                                 |
| Barwazac (or Burwuz).              | <i>Heteropogon Contortus.</i>          | The spear grass.                         | Do. ...                                 | Fodder for sheep, goats and camels, also used for roofing huts.                                                     |
| Bátsa ...                          | .....                                  | .....                                    | Murgha hills in Hindubágh.              | Fodder for sheep and goats and also used as a medicine for indigestion and toothache.                               |
| Bér ... ..                         | <i>Zizyphus jujuba.</i>                | The Indian jujube.                       | Fort Sandeman.                          | .....                                                                                                               |
| Bushka or Buska.                   | <i>Lepidium draba</i> , L.             | .....                                    | Wheat and barley fields.                | Used as a vegetable.                                                                                                |
| Chalghoza (Chilghoza) or Zanghoza. | <i>Pinus gerardiana.</i>               | Edible pine.                             | Speraghar, Shinghar and Sulaimán range. | The fruit is eaten.                                                                                                 |

| Pashtú name.                  | Scientific name.                       | Description or English name where known. | Locality where found.                                   | Brief remarks as to local uses.                                                          |
|-------------------------------|----------------------------------------|------------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------|
| Dátúra ...                    | <i>Datura fastuosa</i> , Linn.         | The black Datura.                        | Common ...                                              | Poisonous drug.                                                                          |
| Díl ...                       | <i>Andropogon</i> ...                  | A grass ...                              | Zhob river ...                                          | Fodder for horses; also used for roofing huts.                                           |
| Drab or Spar-maghar.          | <i>Eragrostis cynosuroides</i> .       | Do. ...                                  | Common ...                                              | Fodder for horses, cattle, sheep and goats.                                              |
| Gandérac ...                  | <i>Nerium odorum</i>                   | Sweet scented oleander.                  | Fort Sandeman.                                          | Poisonous bush.                                                                          |
| Gangu ...                     | <i>Othonnopsis intermedia</i> , Boiss. | .....                                    | Common ...                                              | Infusion of the leaves used as a bath for children affected by heat. Twigs used as fuel. |
| Gwargurah or Gargol.          | <i>Reptonia buxifolia</i> .            | .....                                    | Kaisaghar ...                                           | The fruit is eaten.                                                                      |
| Ghalmae ...                   | .....                                  | Wild bush...                             | Kila Saifulla and Fort Sandeman.                        | Fodder for sheep, goats and camels; also used in lieu of soap.                           |
| Gharawang i or kárwán kushki. | <i>Pterophyrum Olivieri</i> .          | Do. ...                                  | Do. ...                                                 | Fodder for sheep and goats.                                                              |
| Ghaz ...                      | <i>Tamarix orientalis</i> .            | Tamarisk ...                             | In the bed of the Zhob, Rod Fakirzai and Kandil rivers. | Used for fuel and for making wattle.                                                     |
| Ghozéra ...                   | <i>Sophora Griffithii</i> .            | Wild bush...                             | Common ...                                              | Fuel.                                                                                    |
| Gora... ...                   | .....                                  | A grass ...                              | Do. ...                                                 | Fodder for sheep and goats; also used as fuel.                                           |
| Hinja or Raghband.            | <i>Ferula foetida</i> ..               | Asafoetida...                            | Zhazhbáza hills.                                        | Condiment and drug.                                                                      |
| Injáora ...                   | <i>Allium sphaerocephalum</i> .        | Wild garlic.                             | Found throughout the District.                          | Used as a vegetable.                                                                     |
| Insar ...                     | <i>Ficus carica</i> ...                | Fig ...                                  | Gardens; also wild.                                     | .....                                                                                    |
| Jaoz... ...                   | <i>Juglans regia</i> ...               | Walnut ...                               | Garden at Shinghar.                                     | .....                                                                                    |

| Pashtú name.                | Scientific name.         | Description or English name where known. | Locality where found.            | Brief remarks as to local uses.                                                    |
|-----------------------------|--------------------------|------------------------------------------|----------------------------------|------------------------------------------------------------------------------------|
| Khamazúrae (or makhazúrae). | Withania agulans. co-    | The cheese-maker or Indian rennet.       | Kila Saifulla and Fort Sandeman. | Seed used for making cheese.                                                       |
| Kharbátæ ...                | .....                    | A grass ...                              | Hindubágh ...                    | Fodder for sheep, goats, and cattle.                                               |
| Khátol ...                  | Malcolmia Africana.      | .....                                    | Common ...                       | Fodder for sheep and goats; also root eaten raw by the people.                     |
| Khokhæ ...                  | .....                    | Wild onion..                             | Do. ...                          | Used as a vegetable.                                                               |
| Khozbinrae...               | .....                    | A grass ...                              | Do. ...                          | Fodder for sheep and goats. Leaves are also used as a famine food.                 |
| Kukarae ...                 | .....                    | Wild plant .                             | Upper Zhub Sub-Division.         | Cooling drug.                                                                      |
| Kumála ...                  | .....                    | Do. ...                                  | Common spring. in                | Fodder for sheep, goats, and horses.                                               |
| Kundazarga.                 | Astragalus am-sacanthus. | Wild bush ...                            | Hindubágh ...                    | Fodder for sheep, goats, and cattle.                                               |
| Léghúnae ...                | Daphne oleoides Schrieb. | .....                                    | All hills ...                    | Poisonous wild bush.                                                               |
| Lukha ...                   | Typha angustifolia.      | Rush ...                                 | Zhub river ...                   | .....                                                                              |
| Mákhaí o r Zaria.           | Caragana ...             | .....                                    | All hills ..                     | Flowers eaten raw; branches used as fuel.                                          |
| Malkhúsi or Malkházi.       | Glycyrrhiza glabra.      | Liquorice ..                             | Hindubágh, and Kila Saifulla .   | Drug for cough.                                                                    |
| Manra or Séb                | Pyrus malus ...          | Apple ...                                | Gardens ...                      | .....                                                                              |
| Maraghána ...               | Citrullus colocyntis.    | Colocynth...                             | Common ...                       | Fodder for sheep, goats and camels. Seeds used as a drug both for men and animals. |
| Marghokæ ...                | .....                    | .....                                    | Kila Saifulla ...                | Fodder for sheep, goats and cattle. Flowers, fruit, and roots eaten by the people. |

| Pashtú name.    | Scientific name.          | Description or English name where known. | Locality where found.                          | Brief remarks as to local uses.                                                  |
|-----------------|---------------------------|------------------------------------------|------------------------------------------------|----------------------------------------------------------------------------------|
| Mashkanfi ...   | .....                     | A grass ...                              | Common ...                                     | Fodder for sheep, goats, and cattle.                                             |
| Maurai ...      | Zizyphora clinopodioides. | A plant ...                              | All hills ...                                  | Used as a drug for typhus fever.                                                 |
| Murgħa ...      | Poa bulbosa, Linn.        | A grass ...                              | Common ...                                     | Fodder for sheep, goats, horses, and cattle.                                     |
| Naghura ...     | .....                     | Wild plant .                             | All hills ...                                  | Roots used as a famine food.                                                     |
| Nal ...         | Phragmites communis.      | Reed ...                                 | All over the District.                         | Fodder for sheep, goats, and horses, etc. Also used for roofing huts.            |
| Nashtar ...     | Pinus excelsa ...         | Pine ..                                  | Kaisagħar and Shingħar hills in Fort Sandeman. | Good timber.                                                                     |
| Páħ ...         | .....                     | A grass ...                              | Kila Saifulla and Hindubágh.                   | Fodder for sheep, goats, and horses.                                             |
| Palosa ...      | Acacia modesta.           | .....                                    | Dahána Cháħar Khél, and Fort Sandeman.         | Timber, good. Gum also used.                                                     |
| Pamangi ...     | Boncosia aucheriana.      | .....                                    | Fort Sandeman                                  | Used as vegetable.                                                               |
| Pápuka ...      | .....                     | Wild plant..                             | In wheat and barley fields.                    | Fodder for sheep, goats, and cattle; roots eaten by the poor.                    |
| Parwatki ...    | Cocculus Leaba D. C.      | Do. ...                                  | Upper Z h o b Sub-Division.                    | Fodder for sheep, goats, cattle, and horses; roots and leaves eaten by the poor. |
| Pastawana ...   | Grewia oppositifolia,     | .....                                    | Common ...                                     | Fuel.                                                                            |
| Pushai or arya. | Rheum emodi...            | Rhubarb ...                              | All hills in the District.                     | The plant is eaten by the people and considered cooling.                         |
| Raghbolae ...   | Peucedanum sp.            | A wild plant                             | All hills ...                                  | A famine food.                                                                   |
| Rakhpatti ...   | Panicum colonum.          | A grass ...                              | Do. ...                                        | Do.                                                                              |
| Sába ...        | .....                     | Do.                                      | Common ...                                     | Fodder for all animals.                                                          |

| Fashtá name.            | Scientific name.                 | Description or English name, where known. | Locality where found.    | Brief remarks as to local uses.                                                               |
|-------------------------|----------------------------------|-------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------|
| Sákanrgi ...            | <i>Apium graveolens</i> , L.     | A grass ...                               | Upper Zhub Sub-Division. | Fodder for sheep, goats, and camels; leaves and roots eaten by the people.                    |
| Sandae ...              | <i>Tulipa stellata</i> .         | Wild tulip...                             | Common ...               | Fodder for sheep, goats, and camels. The bulbs are eaten by the natives.                      |
| Sandréza or sandrázhae. | <i>Lactuca</i> ...               | A wild plant                              | Do. ...                  | Fodder for sheep, goats, and camels. The bulbs are eaten by the natives and also by the poor. |
| Sanzalai ...            | <i>Elæagnus hortensis</i> ,      | Trebizond date or Bohemian olive.         | Upper Zhub Sub-Division. | Fruit eaten dry; good timber.                                                                 |
| Sargarae ...            | <i>Cymbopogon iwaranousa</i> ,   | A grass ..                                | All hills ...            | Fodder for horses, cattle, sheep, and goats.                                                  |
| Sargae ...              | .....                            | Do. ...                                   | Kila Saifulla ...        | Fodder for sheep, goats, and cattle.                                                          |
| Sarwanga ...            | .....                            | A wild bush.                              | Do. ...                  | Fodder for sheep and goats.                                                                   |
| Sasae ...               | .....                            | Do. ...                                   | Upper Zhub Sub-Division. | Fodder for sheep, goats, and cattle; also used as fuel.                                       |
| Shaftálu ...            | <i>Prunus persica</i>            | Peach ...                                 | Gardens ...              | .....                                                                                         |
| Shang ...               | <i>Fraxinus xanthoxyloides</i> . | Ash ...                                   | All hills ...            | Fuel.                                                                                         |
| Sharivi ...             | <i>Atraphaxis spinosa</i> .      | .....                                     | Zhub Sub-Division.       | Fodder for sheep, goats, and camels. The sap of this tree is called <i>Shákhisht</i> .        |
| Shézi or Shezgi.        | <i>Eromurus ancheriana</i> .     | A wild plant.                             | All hills ...            | Used as a vegetable.                                                                          |
| Shinshobae...           | <i>Mentha sylvestris</i> .       | Peppermint..                              | Common ...               | Fodder for sheep, goats, donkeys, and camels.                                                 |
| Shkarae ...             | .....                            | A grass ...                               | Do. ...                  | Fodder for cattle, sheep, goats, horses, etc.                                                 |
| Shkampára or Sangpara.  | <i>Plantago ovata</i> .          | A wild herb.                              | All hills ...            | Seeds used as a medicine for dysentery.                                                       |

| Pashtú name.                                                                 | Scientific name.             | Description or English name where known. | Locality where found.            | Brief remarks as to local uses.                                                   |
|------------------------------------------------------------------------------|------------------------------|------------------------------------------|----------------------------------|-----------------------------------------------------------------------------------|
| Shorae ...                                                                   | Haloxylon Griffithii, Bunge. | Barilla plant.                           | Common ...                       | Fodder for camels, cattle, sheep, and goats; used as fuel; also for curing skins. |
| Showan ...                                                                   | Olea cuspidata...            | Wild olive ...                           | .....                            | Fruit ( <i>Shawani</i> ) is eaten by the people. Fuel.                            |
| Skharyae ...                                                                 | Crambe cordifolia.           | .....                                    | Hindubágh ...                    | The root is used as medicine.                                                     |
| Spalmái ...                                                                  | Calotropis gigantea.         | .....                                    | Kila Saifulla and Fort Sandeman  | .....                                                                             |
| Spánda ...                                                                   | Peganum Harmala.             | .....                                    | Common ...                       | Seed used as a drug.                                                              |
| Sparawanae .                                                                 | .....                        | Wild tree ...                            | Hindubágh hills,                 | Leaves used for dyeing cloth and wool.                                            |
| Spína ...                                                                    | Populus euphratica.          | Poplar ...                               | Kila Saifulla and Fort Sandeman. | .....                                                                             |
| Spíngulae ...                                                                | .....                        | A grass ...                              | Upper Zhob ...                   | Fodder for sheep, goats and cattle.                                               |
| Stagh-ghutai or Stagh-nár, Ush-Ghutai or Ush-nár, and Wáh-ghutai or Wáh-nár. | Ferula oopada.               | Species of asafoetida.                   | All hills ...                    | Stems roasted and eaten.                                                          |
| Surae ...                                                                    | Rosa lacerans .              | Wild bush...                             | Do. ...                          | .....                                                                             |
| Surghashae ...                                                               | Saccharum ...                | A grass ...                              | Do. ...                          | Fodder for cattle, sheep, etc.                                                    |
| Tirkha ...                                                                   | Artemisia ...                | A wild bush.                             | Upper Zhob, especially Khurásán. | Fodder for sheep, goats and donkeys; also used as fuel.                           |
| Tor aghzae ...                                                               | .....                        | A grass ...                              | Upper Zhob Sub-Division.         | Fodder for sheep and goats.                                                       |
| Tamand ...                                                                   | .....                        | A wild plant.                            | Do. ...                          | Fodder for sheep, goats, and camels; also used in lieu of soap.                   |



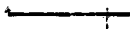
| Pashtó name.      | Scientific name.       | Description or English name where known. | Locality where found.                  | Brief remarks as to local uses.                                                                                                |
|-------------------|------------------------|------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Tút ...           | Morus ...              | Mulberry ...                             | Gardens ...                            | The principal varieties are <i>khar tút</i> , <i>sháh tút</i> , <i>tor tút</i> and <i>spín dána-dár tút</i> .                  |
| Ubashta ...       | Juniperus excelsa.     | Juniper ...                              | Sárghund hill...                       | Timber and fuel.                                                                                                               |
| Uma ...           | Ephedra pachyclada.    | A wild bush.                             | All hills ...                          | The twigs are used for tanning water skins; also as a fuel. The ashes are mixed with tobacco for chewing.                      |
| Urgalami ...      | Rhazya stricta, Dene.  | .....                                    | Fort Sandeman.                         | Cooling drink prepared from the leaves.                                                                                        |
| Ushaghzae ...     | .....                  | A species of camel-thorn.                | All hills ...                          | Fodder for sheep and camels.                                                                                                   |
| Uzhgae ...        | .....                  | A wild tree.                             | Kila Saifulla and Fort Sandeman hills. | Fruit eaten by the people. Fuel.                                                                                               |
| Wa ...            | Angelica glauca, Edgw. | A wild plant.                            | Kila Saifulla ...                      | Fodder for sheep and goats.                                                                                                    |
| Wanakka ...       | .....                  | A species of rhubarb.                    | All hills ...                          | Fodder for sheep and goats.                                                                                                    |
| Wanna or Shrawan. | Pistacia cabulica.     | Pistachio ...                            | All hills ...                          | Fruit much prized by the people; excellent fuel; two varieties are recognised, <i>wanna</i> and <i>khar wanna</i> (fruitless). |
| Wazi ...          | .....                  | A grass ...                              | Kila Saifulla...                       | Eaten raw by the Ká-kars.                                                                                                      |
| Washta ...        | Stipa pennata, L.      | Do. ...                                  | Common ...                             | Fodder for cattle, sheep, goats and horses.                                                                                    |
| Wizba ...         | .....                  | Do. ...                                  | Do. ...                                | Do.                                                                                                                            |
| Wulla ...         | Salix acmophylla.      | Willow ...                               | Do. ...                                | Timber and fuel.                                                                                                               |
| Zagha ...         | Dalbergia Sissoo.      | The Sissu ...                            | Fort Sandeman.                         | Do.                                                                                                                            |

| Pashtú name.        | Scientific name.                    | Description or English name where known. | Locality where found.                 | Brief remarks as to local uses.                                                                                                  |
|---------------------|-------------------------------------|------------------------------------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Zardálu ...         | <i>Prunus armeniaca.</i>            | Apricot ...                              | In gardens in the District.           | The principal varieties are <i>sár baghali</i> and <i>spín.</i>                                                                  |
| Zarga ...           | <i>Prunus eburnea</i>               | Small wild almond.                       | All hills ...                         | Fruit is eaten; the gum is also used.                                                                                            |
| Zawal ...           | <i>Achillea Santolina</i> , Stocks. | A grass ...                              | Common ...                            | A cooling drink is prepared from the flowers; fodder for sheep and goats.                                                        |
| Zfra ...            | <i>Cuminum cuminum.</i>             | Cumin ...                                | All hills, especially Spinghar range. | Condiment.                                                                                                                       |
| Zmai or spína zmai. | <i>Suaeda fruticosa</i> , Forst.    | .....                                    | Kila Saifulla ...                     | Used in lieu of soap; also for making crude potash.                                                                              |
| Zoz... ..           | <i>Alhagi camelorum.</i>            | Camelthorn.                              | Common ...                            | Fodder for camels.                                                                                                               |
| Zralg or Korae.     | <i>Berberis vulgaris.</i>           | True Barberry.                           | All hills ...                         | Roots boiled in water and used for tanning skins. Decoction also given to human beings and cattle in cases of internal injuries. |
| Zápa or záfa.       | <i>Hyssopus officinalis.</i>        | Hyssop ...                               | In hills in Hindubagh.                | A drug.                                                                                                                          |

**Appendix III.**



**GENEALOGICAL TREE OF THE KAKAR TRIBE.**



*(See in pocket at back of book.)*

## Appendix IV.

## Alphabetical List of Agricultural Implements.

| Term in Pashtú.                                       | Explanation.                                                                  |
|-------------------------------------------------------|-------------------------------------------------------------------------------|
| Ara ... ..                                            | A small sickle.                                                               |
| Chár-shákha, Trángal (Fort Sandeman) or Tsalorgháshi. | Four-pronged fork for winnowing.                                              |
| Chilomba ... ..                                       | A sling generally used for driving birds away from crops.                     |
| Chughul... ..                                         | A sieve with larger holes than the ordinary sieve called <i>raghbél</i> .     |
| Dal ... ..                                            | Wooden spade worked by two men with a rope for making small embankments.      |
| Do-shákha, Dwakhulgi or Dwagháshi.                    | A two-pronged fork.                                                           |
| Drapæ or Trapæ ... ..                                 | A wooden spade for winnowing grain.                                           |
| Ghashæ or Ghasæ ... ..                                | The shaft of the plough.                                                      |
| Hal, Yivgi or Yivi ... ..                             | Plough.                                                                       |
| Kahai ... ..                                          | A hoe.                                                                        |
| Karáh or Yúm ... ..                                   | A spade.                                                                      |
| Khál or Ghodal... ..                                  | A plank harrow.                                                               |
| Kundah or Rahanra ... ..                              | Shoe of the plough.                                                           |
| Laké (Hindubágh) ... ..                               | Plough handle. Also called <i>niwa</i> , <i>mutanak</i> , and <i>múthai</i> . |
| Lor ... ..                                            | Sickle.                                                                       |

| Term in Pashtú.              | Explanation.                                  |
|------------------------------|-----------------------------------------------|
| Lutmar ( Fort Sandeman ) ... | A small wooden mallet used as a clod crusher. |
| Mála ... ..                  | A wooden log used as a clod crusher.          |
| Nálai ... ..                 | A drill.                                      |
| Raghbél ... ..               | Sieve.                                        |
| Rambae ... ..                | A short spud.                                 |
| Spára ... ..                 | Ploughshare.                                  |
| Tabar ... ..                 | Axe.                                          |
| Tsapanrai ... ..             | A wedge in the plough                         |
| Zagh ... ..                  | A yoke.                                       |
| Zaghwandai ... ..            | A wedge in the yoke.                          |

## Appendix V.

Alphabetical list of principal agricultural, revenue and shepherd's terms used in the Zhob District:—

| Term in Pashtá.                                                  | Explanation.                                                                                                                                       |
|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Adfgar ( Hindubágh ) ... ..                                      | Village artisan.                                                                                                                                   |
| Adígari or Ahad Máhúd ( Fort Sandeman ).                         | Wages in kind paid to an artisan.                                                                                                                  |
| Ajal ( Mando Khéls ) ... ..                                      | A description of tenancy under which the tenant constructs a water channel and cultivates lands paying a share of produce as rent to the landlord. |
| Alor, Gangash ( Kila Saifulla ), or Paskhurda ( Fort Sandeman ). | The refuse of the fodder after it has been eaten by cattle.                                                                                        |
| Alwoi or Aloí ... ..                                             | Half ripe corn. Also corn parched in fire.                                                                                                         |
| Ambár ... ..                                                     | Granary; also manure.                                                                                                                              |
| Ambárci or Ambártsae ... ..                                      | A servant engaged to watch the <i>ambár</i> or granaries.                                                                                          |
| Andám Kawal ( Hindubágh ),<br>Warna Kawal ( Kila Saifulla ).     | The irrigation of hill side fields by means of a series of small openings in a water channel.                                                      |
| Aséwán or Séwán ... ..                                           | Miller.                                                                                                                                            |
| Ashar or Hashar ... ..                                           | Borrowed labour for agricultural purposes.                                                                                                         |
| Asharbánrae or Himmatgarrae<br>( Kila Saifulla ).                | Labourers obtained under the <i>ashar</i> system.                                                                                                  |
| Awára ... ..                                                     | Tracts into which village lands are divided for periodical cultivation.                                                                            |

| Term in Pashtá.                                                              | Explanation.                                                                                                                                                                                                             |
|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Azgharoi... ..                                                               | A crop watcher.                                                                                                                                                                                                          |
| Bachak, Bachkae, Tankae, or Narae ( Mando Khéls ).                           | The second crop of maize which does not ripen.                                                                                                                                                                           |
| Bádár ... ..                                                                 | Land owner ( as distinguished from <i>bazgar</i> ).                                                                                                                                                                      |
| Bádmála ( Hindubágh ), Puchkai ( Fort Sandeman ), or Suka ( Kila Saifulla ). | Ears of wheat withered by wind.                                                                                                                                                                                          |
| Badríza ... ..                                                               | Leather-covered rope with which the lower part of the apertures in the yoke is secured.                                                                                                                                  |
| Bágh ... ..                                                                  | Garden.                                                                                                                                                                                                                  |
| Baghali ( Hindubágh )                                                        | A side channel to lead off water from a <i>káréz</i> which has been blocked.                                                                                                                                             |
| Bághoha ... ..                                                               | Small garden.                                                                                                                                                                                                            |
| Bah ( Kila Saifulla )                                                        | Channel taken from a hill torrent for flood irrigation.                                                                                                                                                                  |
| Bahál ( Kila Saifulla ), Sharfkát ( Hindubágh ).                             | A custom by which a man sinks a new <i>káréz</i> in another man's land on condition of getting a share, generally half, in the proprietorship both of land and water, the proprietor of the land keeping the other half. |
| Band ... ..                                                                  | An embanked field.                                                                                                                                                                                                       |
| Bandobast ... ..                                                             | Settlement.                                                                                                                                                                                                              |
| Bára, or Khandar ( Kibzais )                                                 | Stone embankments or walls made to protect fields from encroachment by hill torrents.                                                                                                                                    |

| Term in Pashtú.                                                                     | Explanation.                                                                                                                                                               |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Barázar or Gharmanai (Hindubágh).                                                   | To bring home sheep and goats in the morning to be milked.                                                                                                                 |
| Bashakál ... ..                                                                     | Rainy season.                                                                                                                                                              |
| Bédah or Gadai (Fort Sandeman)                                                      | Bundles of millet stalks.                                                                                                                                                  |
| Bégár (Hindubágh) ... ..                                                            | Forced labour.                                                                                                                                                             |
| Bobazh or Tandai ... ..                                                             | Crops sown late.                                                                                                                                                           |
| Bogarae or Kanrae (Fort Sandeman).                                                  | A piece of land given to a tenant or <i>mullá</i> free of rent for cultivation.                                                                                            |
| Bohál ... ..                                                                        | Rent paid in kind by a tenant to landlord.                                                                                                                                 |
| Bohalla or Wárza (Kila Saifulla)                                                    | Short showers of rain during spring.                                                                                                                                       |
| Bútbána or Bútbah ... ..                                                            | A labourer engaged to cut and bring fuel.                                                                                                                                  |
| Chalérae (Shíránis), or Tileræe.                                                    | A small plot of level ground among hills with a spring of water. In Hindubágh it means a village official appointed by the villagers to superintend the division of water. |
| Chao, Roina or Súp (Hindubágh)                                                      | Open water channel.                                                                                                                                                        |
| Chao kárez ... ..                                                                   | Open channel in the middle of a <i>kárez</i> .                                                                                                                             |
| Chár or Chér ... ..                                                                 | Cleaning water channels in spring.                                                                                                                                         |
| Charai or Joa ... ..                                                                | Trench between ridges in a melon field.                                                                                                                                    |
| Charkhulae, Posakao (Kila Saifulla), Tsakhola (Hindubágh) or Tulai (Fort Sandeman). | Maize flowers.                                                                                                                                                             |



| Term in Pashtú.                                                                                  | Explanation.                                                                                                                         |
|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Chfna or Chishma ... ..                                                                          | A spring.                                                                                                                            |
| Chinjan or Chimjan ... ..                                                                        | Affected by <i>chinjai</i> insects. Thus <i>chinjan khatakae</i> , a melon affected by insects.                                      |
| Dad or Karak ( Fort Sandeman )                                                                   | Wheat or barley when knots have appeared in the stalks.                                                                              |
| Dagar or Att ( Hindubágh ) ...                                                                   | Hard soil with which stones are mixed, unfit for cultivation.                                                                        |
| Dam or Mat ... ..                                                                                | Water running slowly owing to a block in a <i>kárez</i> .                                                                            |
| Dána bandi or Tashkhís ...                                                                       | Appraisalment of crop for fixing Government demand in kind, used especially for grain crops.                                         |
| Dandar, Bochar or Mutkárae ( Hindubágh ), Kakarae ( Kila Saifulla ), Mandakae ( Fort Sandeman ). | Ears of maize from which the grain has been extracted.                                                                               |
| Dangarra or Langa Mzakka ( Hindubágh ).                                                          | Field from which crop has been harvested.                                                                                            |
| Darbalai ... ..                                                                                  | Tripod used for churning milk.                                                                                                       |
| Darwazh ... ..                                                                                   | A cut made by flockowners in kids' ears to serve as a distinguishing mark. Also a sheep or goat set apart for sacrifice at a shrine. |
| Doa halfza ... ..                                                                                | Second ploughing.                                                                                                                    |
| Dobae or Dobgarrae ... ..                                                                        | The <i>rabi</i> or spring crop.                                                                                                      |
| Draman or Durman, Dalai ( Fort Sandeman ).                                                       | A heap of threshed crop before grain is separated.                                                                                   |
| Drémandae ( Fort Sandeman )...                                                                   | Third watering of wheat field.                                                                                                       |

| Term in Pashtú.                                                | Explanation.                                                                                                                 |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Dudh, Mukh-putti, Sarputti, Tand or Arghund ( Kila Saifulla ). | Wheat or barley the ears of which have formed but in which the corn is not visible.                                          |
| Dukál, Dukali or Kákhti ...                                    | Drought ; also famine.                                                                                                       |
| Durashta or Kutar ( Hindubágh )                                | Chopped grass or lucerne mixed with chaff ( <i>bhisa</i> ).                                                                  |
| Dúrawal, Lawastal, Pákawal, or Galánra ( Hindubágh ).          | To winnow.                                                                                                                   |
| Durba or Warzabh ( Kila Saifulla )                             | Rainy days in winter.                                                                                                        |
| Durmand or Durmandán ...                                       | Threshing floor ; also a heap of crop for threshing.                                                                         |
| Galai ( Kila Saifulla ), or Lambúr ( Hindubágh. )              | Tunnel connecting wells of a <i>kárez</i> .                                                                                  |
| Gandál ( Fort Sandeman ) ...                                   | Sweepings, in which grain is mixed, given to person who sweeps the threshing floor. Among Kibzais it means <i>mung</i> chaff |
| Garlachae ( Fort Sandeman ) ...                                | A dam made of brushwood in a stream to lead off water.                                                                       |
| Gazára ... ..                                                  | Chaff.                                                                                                                       |
| Gédai ( Hindubágh ) ... ..                                     | Half-ripe corn ; also bunches of ears of corn.                                                                               |
| Génálæ ( Fort Sandeman ) ...                                   | Green maize and <i>juári</i> crop cut for fodder.                                                                            |
| Gham or Mahsál ... ..                                          | Government revenue demand.                                                                                                   |
| Ghamwál mzakka ( Fort Sandeman ).                              | Revenue paying land.                                                                                                         |
| Gharak ... ..                                                  | A skin used for churning milk.                                                                                               |

| Term in Pashtú.                                      | Explanation.                                                                 |
|------------------------------------------------------|------------------------------------------------------------------------------|
| Ghichae ( Hindubágh ) ... ..                         | Sods of turf.                                                                |
| Ghíndai, Ghúndaé or Gonda ... ..                     | A bullock sack.                                                              |
| Ghoba or Ghobána ... ..                              | Cowherd.                                                                     |
| Ghobal ... ..                                        | To thresh.                                                                   |
| Ghoimand ( Fort Sandeman ) ... ..                    | Second ploughing of field prepared for rice cultivation.                     |
| Ghojil ... ..                                        | Place in a house or tent set apart for bullocks.                             |
| Ghozah ( Hindubágh ) ... ..                          | Ear of maize.                                                                |
| Ghutai ... ..                                        | Buds.                                                                        |
| Ghwa ... ..                                          | Cow.                                                                         |
| Ghwayae ... ..                                       | Bullock.                                                                     |
| Ghwazhae ( Fort Saudeman ) or Panérae ( Hindubágh ). | Seedlings.                                                                   |
| Gol Mazhwaé ( Kila Saifulla ) ... ..                 | The pole in the centre of the threshing floor around which bullocks revolve. |
| Graut ( Hindubágh ) ... ..                           | A handful of cut crop.                                                       |
| Gul ... ..                                           | The state of a crop when flowers have appeared.                              |
| Gul Bar ( Kila Saifulla ) ... ..                     | A single plucking of <i>páléz</i> produce.                                   |
| Gul gíri kawal ( Hindubágh ) ... ..                  | Picking of superfluous flowers from melon plants.                            |
| Gumána or Kurkae ( Hindubágh )                       | The head or a trial well of a <i>kárez</i> .                                 |
| Gurdám or Sursát ( Hindubágh ).                      | Supplies collected for Government officials.                                 |

| Term in Pashtá.                                                                             | Explanation.                                                                                                            |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Haud, Hanz, Taláo, or Wángá<br>( Fort Sandeman ) ... ..                                     | A tank in which <i>káréz</i> water is collected.                                                                        |
| Haudakae ... ..                                                                             | Smaller tank.                                                                                                           |
| Héra ... ..                                                                                 | A plot larger than a <i>kurd</i> .                                                                                      |
| Ijára ... ..                                                                                | Lump assessment.                                                                                                        |
| Jambast ( Hindubágh ) ... ..                                                                | Fixed cash assessment.                                                                                                  |
| Jaríb ( Hindubágh ) or Kachána<br>( Kila Saifulla ).                                        | Survey.                                                                                                                 |
| Jongae ... ..                                                                               | A camel calf.                                                                                                           |
| Jora or Yawa yivgi ... ..                                                                   | A plot of land which can be ploughed by a pair of oxen in a day, also a pair of plough oxen.                            |
| Jowaki ... ..                                                                               | Melon or vine cultivation in trenches.                                                                                  |
| Jurang, Ták, Wal ( Fort Sande-<br>man ).                                                    | Melon plants; any creeping plant.                                                                                       |
| Jwál ... ..                                                                                 | A sack.                                                                                                                 |
| Kadhal or <u>Tsaráh</u> ... ..                                                              | A structure built of stones in mud for storing grain.                                                                   |
| Káhdána, Kutsa ( Hindubágh )<br>Kadhána ( Fort Sandeman ).                                  | An earthen structure for storing <i>bhúsa</i> ; ( also a pit covered over with earth in which <i>bhúsa</i> is stored ). |
| Káhkasha, Korae ( Hindubágh )<br>Sawada ( Kila Saifulla ), Tran-<br>ghar ( Fort Sandeman ). | A net for carrying <i>bhúsa</i> , etc.                                                                                  |
| Kanar ( Fort Sandeman ) or Sha<br>( Mando Khéls ).                                          | A large bullock sack.                                                                                                   |

| Term in Pashtú.                                                               | Explanation.                                          |
|-------------------------------------------------------------------------------|-------------------------------------------------------|
| Kandak, Park or Parrai ( Fort Sandeman ).                                     | A flock of sheep.                                     |
| Kankút or Kanta ... ..                                                        | Crop cut for making crop experiments.                 |
| Kaoda ... ..                                                                  | A bundle of crop cut.                                 |
| Kara or Táki ( Hindubágh ) ...                                                | Sowing melons by hand in a line made with the plough. |
| Karaba, Krak or Tándúna ( Fort Sandeman ).                                    | Maize or <i>juári</i> stalks.                         |
| Karáwá ( Fort Sandeman ), Nokar ( Kila Saifulla ), or Mushriff ( Hindubágh ). | An official care-taker for crops.                     |
| Káréz ... ..                                                                  | Underground water channel.                            |
| Karhanra or Kisht ... ..                                                      | Cultivation.                                          |
| Kárigar or Kharlachae ( Shíránis )                                            | An artisan, especially a <i>káréz</i> digger.         |
| Karnar ( Mando Khéls ) ...                                                    | A small pen in which kids are kept.                   |
| Karwanda ... ..                                                               | Cultivable land lying fallow.                         |
| Kashae or Bazgar ( Sanatias ) ...                                             | Tenant ( as distinguished from <i>bádár</i> ).        |
| Kats or Atál ( Mando Khéls ) ...                                              | A plot of cultivable land in the bed of a stream.     |
| Khákbél or Kháwri Warkawal.                                                   | Putting dry earth over the roots of the melon plants. |
| Khángtae or Shákble ( Hindubágh ), Zazhai ( Fort Sandeman ).                  | Offshoots of a tree.                                  |
| Khara ( Kila Saifulla ) ... ..                                                | A dam made in a hill torrent to lead off water.       |

| Term in Pashtú.                                           | Explanation.                                                                                            |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Kharkhul ... ..                                           | A pair of shears.                                                                                       |
| Khíd, Khashíl or Mushk ...                                | Green wheat or barley cut for fodder.                                                                   |
| Khula Band, Sarposh or Khula Sarposh, Tsahán (Hindubágh). | Wells of a <i>káréz</i> the tops of which are covered.                                                  |
| Khwa Pákawal ( Kila Saifulla ).                           | To clear land of shrubs, etc.                                                                           |
| Khwara ... ..                                             | Fixed contribution paid to a mullá, <i>siad</i> or shrine.                                              |
| Kohlai ... ..                                             | Earthen receptacle for storing grain.                                                                   |
| Kur ( Kila Saifulla ), or Náwa ( Hindubágh ).             | First watering before land is ploughed. In Fort Sandeman <i>kur</i> means to clear land of shrubs, etc. |
| Kuram or Pandi oba ( Kila Saifulla ).                     | Stagnant water.                                                                                         |
| Kurat Kánri or Spín Kánri Mzakka.                         | A kind of soft soil in which white stones are mixed.                                                    |
| Kurd, Kurdae or Kalae ( Mando Khéls ).                    | Small bed or plot in a field.                                                                           |
| Kurund ( Hindubágh ) .. ..                                | Short lucerne plants grazed by cattle.                                                                  |
| Kwarra, Kurai or Kwatta ( Hindubágh and Kila Saifulla ).  | Small heaps of grain made at the time of <i>batái</i> .                                                 |
| Lagh Kawal ( Hindubágh ) ...                              | Plucking the superfluous leaves of vines.                                                               |
| Lahr ... ..                                               | A hill-torrent carrying flood water.                                                                    |
| Lai Kashi ( Hindubágh ) ...                               | Cleaning of <i>káréz</i> .                                                                              |

| Term in Pashtá.                                                                      | Explanation.                                                                                                               |
|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Lalún or Lalúnae Kawal ...                                                           | Weeding.                                                                                                                   |
| Lao ... ..                                                                           | Harvesting.                                                                                                                |
| Lásh ... ..                                                                          | Melon field or orchard from which all fruit has been picked.                                                               |
| Lashta, Qalam ( Hindubágh ) or Táng ( Fort Sandeman ).                               | Cuttings.                                                                                                                  |
| Lashtae ... ..                                                                       | A small irrigation channel.                                                                                                |
| Lath Band ( Kila Saifulla )                                                          | The man who first constructs the embankment round a field, and thus acquires a right of occupancy.                         |
| Lawae, Langar or Langarae ...                                                        | Reaper.                                                                                                                    |
| Lawai ... ..                                                                         | Wages paid to the reapers.                                                                                                 |
| Lékha ( Hindubágh ) ...                                                              | A fixed rent, in kind or cash, paid by the tenant to the landlord.                                                         |
| Lérba or Larba ... ..                                                                | A shepherd who tends young kids.                                                                                           |
| Loaghai ( Hindubágh ) ...                                                            | An earthen pot for milking.                                                                                                |
| Loazhaghæ ... ..                                                                     | Wages consisting of food, a quantity of wool and cash, given to a shepherd during the season when sheep and goats are dry. |
| Lora or Rod ... ..                                                                   | A perennial stream of water.                                                                                               |
| Lowara Zawara ( Kila Saifulla ), Laman ( Fort Sandeman ), Adám or Andám (Hindubágh). | Fields along slopes of hills.                                                                                              |
| Lwagh or Lwasal ... ..                                                               | To milk.                                                                                                                   |
| Lwaghzi or Lwaghzungi ...                                                            | A milch sheep or goat given on loan.                                                                                       |

| Term in Pashtú.                           | Explanation.                                                                                                              |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Máfi or Mápi ... ..                       | Revenue-free holding.                                                                                                     |
| Malav-i-bágh or Angúribágh ...            | Vineyard.                                                                                                                 |
| Mál dágh ... ..                           | Cattle tax.                                                                                                               |
| Mámatta or Máhmatta ... ..                | A field close to a village enclosed in walls.                                                                             |
| Manae or Mangarrae ... ..                 | <i>Kharif</i> or autumn harvest.                                                                                          |
| Mandak (Hindubágh) ... ..                 | Young melons.                                                                                                             |
| Mandaka or Hadúkae (Sanatias).            | Apricot stones.                                                                                                           |
| Margharan (Hindubágh) ...                 | Withered (fruit).                                                                                                         |
| Máta or Halza (Fort Sandeman).            | Land ploughed after harvest.                                                                                              |
| Mattana, or Khole mzakka (Fort Sandeman). | Soil which contains silt or <i>mat</i> .                                                                                  |
| Maya (Fort Sandeman and Kila Saifulla).   | A flock of sheep and goats.                                                                                               |
| Mazh ... ..                               | Ram.                                                                                                                      |
| Ména or Mélanr ... ..                     | Encampment of nomads.                                                                                                     |
| Mézha ... ..                              | Sheep.                                                                                                                    |
| Mían Kharts or Sarkoi ...                 | A portion of grain set aside out of the main heap for the wages of artisans and village expenses.                         |
| Míráo or Chalérae ... ..                  | A village official appointed by the villagers to superintend the division of water and the maintenance of water channels. |
| Mírás or Mírási mzakka ...                | Ancestral land.                                                                                                           |



| Term in Pashtá.                                                                        | Explanation.                                                                                |
|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| Mora (Hindubágh) ... ..                                                                | Bundle of dry lucerne.                                                                      |
| Mulk ... ..                                                                            | Property in land.                                                                           |
| Murzahíza (Fort Sandeman) ...                                                          | Cattle, sheep or goats which have calved or lambed for the first time.                      |
| Muz, Muzd or Shágirdána (Sanatias).                                                    | Wages, especially wages paid for grinding corn.                                             |
| Nágha ... ..                                                                           | Second sowings in a melon field to replace seed that has failed. Also seed that has failed. |
| Nálai ... ..                                                                           | A drill. Drilling.                                                                          |
| Nár or Nárgora mzakka (Hindubágh).                                                     | Land cleared of its crop. In Fort Sandeman <i>nár</i> means the shaft of the plough.        |
| Nárai or Sunda (Fort Sandeman).                                                        | Wheat or barley stubble.                                                                    |
| Nazún (Fort Sandeman) ...                                                              | Transplanting rice seedlings.                                                               |
| Nihál ... ..                                                                           | Young trees.                                                                                |
| Nihál khána ... ..                                                                     | Nursery.                                                                                    |
| Núz, Sél or Séláo (Hindubágh)                                                          | A flood.                                                                                    |
| Obo khwar ... ..                                                                       | The place for watering flocks.                                                              |
| Ola ... ..                                                                             | A flock of kids.                                                                            |
| Paiwand ... ..                                                                         | Grafting.                                                                                   |
| Pakha mzakka (Kila Saifulla), Tora mzakka (Hindubágh) or Tore kháwari (Fort Sandeman). | Black soil. The best kind of land.                                                          |

| Term in Pashtú.                                             | Explanation.                                                                       |
|-------------------------------------------------------------|------------------------------------------------------------------------------------|
| Pález ... ..                                                | Generic term for cucurbitaceous crops. Also the beds in which they are cultivated. |
| Pálezwán or Pálezkár ... ..                                 | A cultivator of cucurbitaceous crops.                                              |
| Parghúna, Tukhm lawastal or páshal.                         | Sowing seed broadcast.                                                             |
| Paro ... ..                                                 | Cash wages paid to shepherd.                                                       |
| Pas bát, Séka ( Hindubágh ) or Tis wánra ( Fort Sandeman ). | Chaff scattered on the threshing floor apart from the main heap.                   |
| Páshaki ... ..                                              | Sowing melons broadcast among other crops.                                         |
| Pasta mzakka or Potae ( Hindu-bágh ).                       | Soft soil.                                                                         |
| Patai, Hatsk, Takhta or Tanrai ( Hindubágh ).               | A holding, a plot.                                                                 |
| Patwárae... ..                                              | Village accountant.                                                                |
| Péchak or Péchalae ... ..                                   | Vine tendril; also a creeper that grows over vines.                                |
| Píka or Pok ( Fort Sandeman ).                              | <i>Mung</i> chaff.                                                                 |
| Potlana mzakka ( Fort Sandeman ).                           | Flood irrigation.                                                                  |
| Prépánra or Doáwa ( Hindu-bágh ).                           | Second watering of field.                                                          |
| Pror ... ..                                                 | Chopped straw ( <i>bhúsa</i> ).                                                    |
| Puch khurda, Gada, Tumani, Ulsi, or Sharíki mzakka.         | Village or common land.                                                            |

| Term in Pashtú.                                                                                        | Explanation.                                                                              |
|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Pukai or Tarnak ( Hindubágh ).                                                                         | Unripe fruit, especially apricots.                                                        |
| Púla, Lath ( Sanatias ) or Kul<br>( Kila Saifulla ).                                                   | Embankment.                                                                               |
| Puli spára or Gárwár ... ..                                                                            | Wheat or barley crop in which some of the ears have appeared.                             |
| Punga or Náwar ... ..                                                                                  | A hollow or pit in which drinking-water is stored. <i>Punga</i> also means buds of vines. |
| Push or Ustákár ( Hindubágh ).                                                                         | Blacksmith.                                                                               |
| Pushta ( Kila Saifulla ) ... ..                                                                        | Ground between two channels in melon fields.                                              |
| Rágha ... ..                                                                                           | Stony land along the skirts of hill.                                                      |
| Rakhsat ( Fort Sandeman ) ... ..                                                                       | Fourth watering of the wheat field.                                                       |
| Rama ... ..                                                                                            | A flock of sheep, as distinguished from <i>tawae</i> , a flock of goats.                  |
| Ramawal... ..                                                                                          | To take out sheep to graze.                                                               |
| Régai, régana or atana mzakka<br>( Kila Saifulla ).                                                    | Sandy soil.                                                                               |
| Ríasa ... ..                                                                                           | Grain heap on the threshing floor.                                                        |
| Rozmána... ..                                                                                          | Lambing season.                                                                           |
| Sagana mzakka, Shagai or Sagai<br>( Hindubágh ), Sagwasta or<br>Sagbasta mzakka (Fort Sande-<br>man ). | Sandy soil containing gravel.                                                             |
| Sama, Kharkáwa ( Sanatias ) or<br>Luta kashal.                                                         | First watering of a crop.                                                                 |

| Term in Pashtá.                                                                       | Explanation.                                                                                                   |
|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Samsor or Sáp ... ..                                                                  | Crop of wheat or barley in which all the ears of corn have appeared.                                           |
| Sangchín ... ..                                                                       | Lining a water channel with stones.                                                                            |
| Sarband or Nazokra ( Mando Khéls ).                                                   | Seeds which do not germinate.                                                                                  |
| 'archák ( Hindubágh )... ..                                                           | Open channel in the middle of a <i>káréz</i> .                                                                 |
| Prgala ( Hindubágh )... ..                                                            | Term formerly used for cattle tax by Afghán officials.                                                         |
| J<br>jarkáo ( Hindubágh ) ... ..                                                      | Cutting wheat or barley to strengthen the plants.                                                              |
| Sarkása, Khwája-Khidarkása ( Shírávis and Mando Khéls ) or Jár Karúnae ( Hindubágh ). | The first <i>kása</i> (measure) taken out of a heap of grain when measuring it and given to the <i>mullá</i> . |
| Sarrah ... ..                                                                         | Manure.                                                                                                        |
| Sarsáya ... ..                                                                        | A quantity of grain given annually by each family to the village <i>mullá</i> .                                |
| Sarsúba ... ..                                                                        | The well in a <i>káréz</i> next to the <i>gumána</i> .                                                         |
| Sartsúke ( Fort Sandeman ) ... ..                                                     | Rice crop in which grain is formed in some of the ears.                                                        |
| Sawára ták ... ..                                                                     | Vines on wooden poles or trees as distinguished from <i>jowaki</i> or vines grown in trenches.                 |
| Shal ( Hindubágh and Fort Sandeman ).                                                 | Water-divide.                                                                                                  |
| Sharana mzakka or Shara mágh ( Kila Saifulla ).                                       | Salt land.                                                                                                     |
| Shéla or Lah ... ..                                                                   | A small hill torrent.                                                                                          |

| Term in Pashtú.                                                                                   | Explanation.                                                                               |
|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| Shilam ... ..                                                                                     | Remuneration paid to village headman for collecting Government demand, usually 5 per cent. |
| Shinkae ... ..                                                                                    | Unripe melon.                                                                              |
| Shíra ( Hindubágh and Fort Sandeman ).                                                            | Half formed grain.                                                                         |
| Shkarae ( Fort Sandeman ) ...                                                                     | Ear of <i>mung</i> crops.                                                                  |
| Shom or Woi ( Kila Saifulla ) ...                                                                 | First ploughing after harvest.                                                             |
| Shpalghalae, Shpol, Kér or Alang ( Kila Saifulla ).                                               | Sheep or goat pen.                                                                         |
| Shpána ... ..                                                                                     | Shepherd.                                                                                  |
| Shpazar ( Fort Sandeman and Kila Saifulla ).                                                      | To take flocks to graze in the night.                                                      |
| Shpazham or Batái ... ..                                                                          | ( Lit. one-sixth ) Division of crops.                                                      |
| Skhundar ... ..                                                                                   | A calf.                                                                                    |
| Skwal ... ..                                                                                      | Shearing sheep and goats.                                                                  |
| Skwalaē ... ..                                                                                    | A shearer.                                                                                 |
| Spandakh or Tsásha ( Kila Saifulla ).                                                             | A bundle of spun wool thread.                                                              |
| Sparkhae, Gazára ghobal, Parghat ( Sanatias ), Surkhkoi ( Hindubágh ), Rasghobal ( Mando Khéls ). | Second threshing as distinguished from <i>ghobal</i> or first threshing.                   |
| Spína mzakka ... ..                                                                               | Soft ( white ) soil.                                                                       |
| Spíni sole ( Fort Sandeman ) ...                                                                  | Unhusked white rice.                                                                       |
| Spíni wrize ( Fort Sandeman ) ...                                                                 | Husked rice.                                                                               |

| Term in Pashtú.                                                 | Explanation.                                                                                                    |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Spín sarri mzakka ( Hindubágh and Fort Sandeman ).              | Land with moisture fit for sowing.                                                                              |
| Srée ( Hindubágh ) ... ..                                       | A lucerne field.                                                                                                |
| Sre wríze ( Fort Sandeman ) ..                                  | White soft rice.                                                                                                |
| Stébangi ( Hindubágh ) ...                                      | Gleaning.                                                                                                       |
| Súba ( Hindubágh ) ... ..                                       | A <i>kárés</i> well.                                                                                            |
| Surkhae ... ..                                                  | Rust.                                                                                                           |
| Súr ranz ( Fort Sandeman ) ...                                  | A disease peculiar to rice crop due to drought.                                                                 |
| Ták ... ..                                                      | The tendril of a vine; vine.                                                                                    |
| Tak ( Hindubágh ) ... ..                                        | A mark made on sheep by cutting the wool or applying colour.                                                    |
| Tarnáwa, Náwa, Garga ( Kila Saifulla ), Béli ( Fort Sandeman ). | Wooden aqueduct.                                                                                                |
| Táuda, Sra, or Lalmi ghanam ( Hindubágh ).                      | Hot, i.e., late wheat.                                                                                          |
| Tawae ... ..                                                    | A flock of goats.                                                                                               |
| Téghúna ( Fort Sandeman ) ...                                   | Rice crop newly sprouted.                                                                                       |
| Télo ... ..                                                     | Weaning time.                                                                                                   |
| Tikai or Chiwaka ( Shíránis ) ...                               | Young green wheat or barley crop clinging to the ground.                                                        |
| Tobra ... ..                                                    | A horse's nose-bag. A share of grain taken by horsemen from the <i>zamin-dárs</i> at the time of <i>batai</i> . |
| Tore sole ( Fort Sandeman ) ...                                 | A variety of unhusked rice.                                                                                     |

| Term in Pashtá.                      | Explanation.                                                                                          |
|--------------------------------------|-------------------------------------------------------------------------------------------------------|
| Tor ranz ( Fort Sandeman ) ...       | A disease which renders rice-stalks black before the ears are formed.                                 |
| Tsáh ... ..                          | Well.                                                                                                 |
| Tsakawal or Tsaka ... ..             | To give fodder to sheep whilst at home.                                                               |
| Tsakhobae ... ..                     | Small plot of cultivated land on hill-side with a small quantity of permanent water.                  |
| Tsapar ... ..                        | Weighted thorny hurdle used for threshing grain.                                                      |
| Tsarkhai ... ..                      | Spindle for wool-spinning.                                                                            |
| Tsáru or Soya (Kila Saifulla )...    | Lit. a spy. The first few plants which appear in a field.                                             |
| Tsatae or Pand ( Fort Sandeman ).    | A bundle of crop or a man's load given to an artisan or a <i>mullá</i> .                              |
| Tukhum ... ..                        | Seed.                                                                                                 |
| Urzha ... ..                         | A preparation made from the milk of a sheep or goat and cow, which has just given birth to its young. |
| Ush ... ..                           | Camel ( male ).                                                                                       |
| Usha ... ..                          | Camel ( female ).                                                                                     |
| Ushba or Ushbána ... ..              | Camel-herd.                                                                                           |
| Viála ... ..                         | Water-channel.                                                                                        |
| Wachobi or Khushkáwa ( Hindu-bágh ). | Dry or rain cultivation.                                                                              |
| Wad or Gad ( Fort Sandeman ).        | The commencement of harvest.                                                                          |

| Term in Pashtú.                              | Explanation.                                                                   |
|----------------------------------------------|--------------------------------------------------------------------------------|
| Wáh ... ..                                   | Main water-channel.                                                            |
| Wahri oba or Bahríza ( Fort Sandeman ).      | Springs and <i>kárézes</i> in which water appears after rain only.             |
| Walma ( Kila Saifulla ) ...                  | Open ground where flocks are kept for the night.                               |
| Wám ( Shfránis ) ... ..                      | A plot of cultivable land.                                                     |
| Wand or Béla ( Hindubágh ) ...               | An earthwork dam thrown across a stream.                                       |
| Wandar, Tsangae or Chingi ( Fort Sandeman ). | A rope provided with nooses to which sheep and goats are tethered.             |
| Wánra ... ..                                 | Heap of chaff on threshing floor.                                              |
| Warai ... ..                                 | Sheep or camel wool.                                                           |
| Warg ... ..                                  | A full-grown sheep, male or female. A bundle of wool shorn off a single sheep. |
| Warkh ... ..                                 | A small channel for irrigating small plots.                                    |
| Warzal ( Fort Sandeman ) ...                 | Pruning of trees.                                                              |
| Wáshkae... ..                                | A bunch of grapes ; also a rope.                                               |
| Wazhae ... ..                                | Ear of corn.                                                                   |
| Wazhi tsáe or Wazhi tsán ( Hindubágh ).      | A gleaner.                                                                     |
| Wurta or Kaloshta ( Kila Saifulla ).         | Spun wool.                                                                     |
| Wuz or Buz ... ..                            | Full-grown he-goat.                                                            |
| Wuza or Buza ... ..                          | Full-grown she-goat.                                                           |



| Term in Pashtó.                                                         | Explanation.                                               |
|-------------------------------------------------------------------------|------------------------------------------------------------|
| Wuzburrae ... ..                                                        | Goat hair cut from a single animal and made into a bundle. |
| Wuzghúni ... ..                                                         | Goat hair.                                                 |
| Yakh band or Butak (Hindubágh).                                         | Green wheat crop damaged by cold about the end of March.   |
| Yivgi wahal or yivi wahal ...                                           | Ploughing.                                                 |
| Zanri or Buji (Kila Saifulla) ...                                       | Melon seed.                                                |
| Zárae ... ..                                                            | Crop sown seasonably.                                      |
| Zarkhída, Kháwandi, Nikata (Fort Sandeman) or Zarki (Hindubágh) mzakka. | Land acquired by purchase; also divided land.              |
| Zarzi ... ..                                                            | The yellowish ears of a crop when ripe.                    |
| Zendai, Avi, Bináwa, Baháo or Beháva (Hindubágh) Tándoba (Mando Khéls). | Irrigated land.                                            |
| Zendai oba, Pakhe oba or Tore oba (Hindubágh).                          | Perennial water.                                           |
| Zhaghzai or Kawasi ... ..                                               | Wheat chaff.                                               |
| Zhar ghwazhae ... ..                                                    | Withered crop.                                             |
| Ziam ... ..                                                             | Swampy ground.                                             |
| Ziari solé (Fort Sandeman) ...                                          | Yellowish unhusked rice.                                   |
| Zranda ... ..                                                           | Water mill.                                                |
| Zúka (Hindubágh and Fort Sandeman).                                     | Any newly sprouting crop.                                  |
| Zumbak or Zhérai (Hindubágh).                                           | The soft hairs on the ears of maize.                       |

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