BRITISH EMPIRE (continued)

INDIA

GENERAL

Area ........................................... 4,675,000 sq. km.
Population (III. 1921) .................. 318,886,000
Density per sq. km. ................. 68.2
Length of railway system (31. III. 1929). 65,902 km.

I.

Army.

General.

The Army in India is composed of individuals who have voluntarily undertaken military service, and its principal subdivisions are fighting troops, ancillary and administrative services and departments, and followers. At the present day it comprises the following troops serving in India:

(a) The regular British forces (about 60,500);
(b) The regular Indian forces (about 160,000);
(c) The Auxiliary Force (about 35,000);
(d) The Indian Territorial Force (about 18,000);
(e) The Indian Army Reserve (about 43,000);
(f) The Indian State Forces (about 44,000), when placed at the disposal of the Government of India.

The Army in India is organised in three groups: internal security troops, to ensure tranquillity within India during the absence of the Field Army; covering troops, to ensure that the mobilisation and concentration of the Field Army is carried out undisturbed; and the Field Army itself, the size of which must, for financial reasons, be limited by the number of troops required for internal security. With a view to the mobilisation of this Field Army at short notice and its maintenance in the field, the Indian Army Service Corps has been reorganised and a certain quantity of mechanical transport introduced. Factories have been established for the manufacture of munitions of war.

Membership of the Auxiliary Force is limited to European British subjects, and the rôle of the force is to assist in home defence. The Indian Territorial Force is intended to be a second line to, and a source
of reinforcement for, the regular Indian Army. Service in the Indian Army Reserve is compulsory, a man undertaking on enrolment to serve at least 5 years with the Colours and up to 15 years combined Colours and Reserve service. The Indian State Forces were formerly designated the Imperial Service Troops. It has been the custom in the past for State troops to be lent to the Government of India in an emergency, but the rendering of such aid is entirely at the discretion of the Ruling Princes and Chiefs.

A. THE ADMINISTRATION OF THE ARMY IN INDIA AND THE HIGH COMMAND

I. THE INDIA OFFICE.

The Secretary of State, as one of His Majesty’s Ministers, has a special authority and responsibility in regard to the military administration in India.

The Secretary of State’s principal adviser on Indian military affairs is the Secretary in the Military Department of the India Office.

The post is filled by an officer of the Indian Army of high rank; he is usually a Lieutenant-General — with recent Indian experience. The Military Secretary is assisted by one first-grade staff officer, selected from the Indian Army.

II. THE GOVERNOR-GENERAL IN COUNCIL AND THE LEGISLATURE.

The superintendence, direction and control of the civil and military government of India is vested in the Governor-General in Council, who is required to pay due obedience to all such orders as he may receive from the Secretary of State.

The Viceroy’s Executive Council exercise in respect of Army administration the same authority and functions as they exercise in respect of other departments of the Government; in the first phase of the representative institutions conferred upon India by the Montagu-Chelmsford Reform Scheme, Army expenditure and the direction of military policy have been excluded from the control of the Legislature.

III. THE COMMANDER-IN-CHIEF AND ARMY MEMBER.

The next authority in the chain of administrative arrangements is the Commander-in-Chief, who by custom is also the Army Member of the Viceroy’s Executive Council. All the work connected with the administration of the Army, the formulation and execution of the military policy of the Government of India, the responsibility for maintaining every branch of the Army, combatant and non-combatant, in a state of efficiency, and the supreme direction of any military operations based upon India are centred in one authority — the Commander-in-Chief and Army Member.

In addition, he administers the Royal Indian Marine and the Royal Air Force in India.
4. **Army Headquarters. — The Principal Staff Officers.**

The organisation of the Army headquarters is founded upon the three principal Staff Officers — the Chief of the General Staff, the Adjutant-General in India, and the Quartermaster-General in India, whose primary duty is to assist the Commander-in-Chief in the executive side of his administration.

There are other minor branches of the Army Headquarters Staff, namely, the Military Secretary, the Master-General of Supply Branch and the Engineer-in-Chief.

The General Staff is responsible for all work in connection with the fighting, organising and training of troops, the collection and dissemination of intelligence and the preparation of plans of operation.

The General Staff Branch is divided into: (1) Directorate of Military Operations, (2) Directorate of Staff Duties and (3) Directorate of Military Training.

The Adjutant-General's Branch is responsible for recruiting and organisation of the Army in peace, mobilisation, medical duties, honours and awards, the provision of personnel, casualties, spiritual welfare of the Army and all questions connected therewith.

The Adjutant-General's Branch comprises: (1) Directorate of Organisation; (2) Directorate of Personal Services and (3) Directorate of Medical Services.

The Quartermaster-General's Branch is responsible for accommodation, supplies of all descriptions, land and sea transport, veterinary, post services, remounts, and all questions connected therewith.

The Quartermaster-General's Branch comprises: (1) Directorate of Movements and Quartering; (2) Directorate of Supplies and Transport; (3) Directorate of Farms; (4) Directorate of Veterinary Services, and (5) Directorate of Remounts.

The Master-General of the Ordnance Branch comprises: (1) Directorate of Artillery; (2) Directorate of Technical Organisation; (3) Directorate of Ordnance Services; (4) Directorate of Contracts; (5) Directorate of Ordnance Factories and Manufacture.

5. **The Army and Marine Department.**

The Army and Marine Department deals with all army services proper, and also the administration of the Royal Indian Marine and the Royal Air Force in India, in so far as questions requiring the orders of the Government of India are concerned.

The Army Department has no direct relations with commanders or troops or the staffs of formations subordinate to Army Headquarters: it has continuous and intimate relations with Army Headquarters in all administrative matters. The Army administration is represented in the Legislature by the Army Member in the Council of State, and by the Army Secretary in the Legislative Assembly.

The principal Staff Officers and the other independent heads of branches at Army Headquarters have two separate functions of a well-defined character. In one direction they are staff officers of the Commander-in-Chief, responsible for the administration of their departments of staff duties, for conveying to the subordinate commands the executive decisions of the Commander-in-Chief, and ensuring that these decisions are carried out. In their other aspect, they are responsible to initiate and pursue, under the direction of the Commander-in-Chief, proposals relating to the better administration of the Army and the welfare of the troops, which require the decision of the Government of India or the Secretary of State.
6. THE MILITARY COUNCIL.

The Military Council is an advisory body, constituted for the purpose of assisting the Commander-in-Chief in the performance of his administrative duties.

It is composed of the Commander-in-Chief as President, and the following members, namely: The Chief of the General Staff (Vice-President), the Adjutant-General, the Quartermaster-General, the Master-General of the Ordnance, the Secretary to the Government of India in the Army Department, the Financial Adviser, Military Finance, representing the Finance Department of the Government of India and a General Staff Officer (Secretary).

B. MILITARY TERRITORIAL AREAS

Indian territory is divided in four Commands, each under a General Officer Commanding-in-Chief, and one independent district.

Each Command includes a certain number of districts. There are 6 districts of 1st Class and 8 districts of 2nd Class.

The General Officer Commanding-in-Chief of each Command is responsible for the command, administration, training and general efficiency of the troops stationed within his area, and also for all internal security arrangements.

Administration of Districts: In those districts in which war formations are located the district commander is also the commander of the war formation. In order to ensure continuity of administration in the event of the war formations proceeding on active service, the staff of a district is so constituted in time of peace that a proportion is available to remain behind on the outbreak of war to carry on the duties required for internal security and for the administration of the district.

The details of the organisation are given in the table below.

C. HIGHER FORMATIONS

I. INDIAN TROOPS.

(1) Northern Command:
   2 Cavalry Brigades;
   11 Infantry Brigades (4 Brigade Areas).

(2) Western Command:
   2 Infantry Brigades (3 independent Brigade Areas).

(3) Eastern Command:
   1 Cavalry Brigade;
   4 Infantry Brigades (2 Brigade Areas, of which 1 independent).

(4) Southern Command:
   1 Cavalry Brigade;
   3 Infantry Brigades (1 independent Brigade Area).

(5) Burma Independent District:
   1 Brigade Area.

II. BRITISH TROOPS.

Royal Artillery Brigades (see below under chapter E, § 2).
Plan showing Chain of Command.

The Commander-in-Chief.
D. THE STAFF

The staff is the establishment of officers employed at the head-quarters of each higher military formation to assist the commander in carrying out his duties of command and administration. The staff of the Commander-in-Chief in India is known as the Army Headquarters Staff.

The officers appointed to the staff are specially selected officers, taken normally from among those who have graduated at the Staff Colleges at Camberley or Quetta. No officer is posted permanently to the Staff. After a period of staff employment, limited as a general rule to four years, an officer returns to his unit for a tour of regimental duty, in order that he may keep in touch with regimental work.

E. THE REGULAR BRITISH FORCES IN INDIA

1. British Cavalry and Infantry.

The British cavalry and British infantry units of the army in India are units of the British service. No individual British service unit is located permanently in India.

Units of the British Army are detailed for a tour of foreign service, of which the major part is as a rule spent in India. In the case of British infantry battalions the system is that one battalion of a regiment serves in the United Kingdom and the other overseas. The tour of overseas service of a British battalion is usually 16 years. In the case of British cavalry the same arrangement cannot be applied, as one unit only comprises the regiment. The normal tour of overseas duty for a regiment of British cavalry is 14 years.

In the United Kingdom, in peace-time, units are maintained at an establishment smaller than that required for war. In India, the peace establishments exceed the war establishments in view of the fact that reserves of British personnel do not exist, and reinforcements must be obtained from the United Kingdom.

(a) British Cavalry.

There are 5 British cavalry regiments in India (average strength of regiment, 572 men).

Each regiment comprises a Headquarter Wing, one Machine-gun Squadron and two Sabre Squadrons.

The Headquarter Wing is composed of 4 groups (Signallers, Machine-gun Troop, Administrative Troop and Band Troop).

Each Sabre Troop has 3 sections, and each Hotchkiss Gun Troop is equal to 3 guns.

(b) British Infantry.

The present number of British infantry battalions in India is 45 (average strength of battalion, 883 men).
The infantry battalion comprises:

**Headquarter Wing.**

1 Machine-gun Company (6 sections comprising 12 Vickers Guns).
3 Rifle Companies. Each company has 8 Lewis guns.

In 1921 an important change was made in the composition of a British infantry battalion in India by the inclusion of a proportion of Indian combatant ranks. Battalions had always maintained a quota of Indian followers, but up to 1921 the combatant personnel was entirely British. In 1921, on the abolition of the Machine-gun Corps, eight machine guns were included in the equipment of a British infantry battalion. The peace establishment of Indian combatant personnel is fixed at one Indian officer and forty-one Indian other ranks.

The Indian platoon, as it is called, is transferred *en bloc* to another British battalion when the battalion to which it was originally attached proceeds on relief out of India.

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2. **Royal Artillery.**

Indians are employed as drivers and artificers in the Royal Horse and Field Artillery and in medium batteries, and as drivers, gunners and artificers in the Pack Artillery. In the Frontier Garrison Artillery they are employed as gunners and artificers and in the Indian Coast Artillery as gunners only.

The peace organisation of the artillery at the present day is as follows:

**Royal Horse Artillery.** — Four independent batteries.
Each battery is armed with six 13-pounder guns.

**Field Horsed Artillery. Higher and Lower Establishment Brigades.** — Six brigades on higher and three on lower establishments, each consisting of headquarters and four batteries (3 batteries of six 18-pounder guns each and 1 battery of six 4.5" howitzers).

**Field Mechanised Artillery.** — One brigade consisting of headquarters and 4 batteries (2 batteries of six 18-pounder guns each and 2 batteries of six 4.5" howitzers each).

**Royal Field Artillery, Reinforcement Brigade.** — The reinforcement brigade consists of three batteries, each armed with four 18-pounder guns, and one battery with four 4.5" howitzers. In war this brigade will be broken up to form the 3rd Divisional ammunition column.

**Royal Field Artillery, Ammunition Columns.** — Two Divisional ammunition columns are maintained for the artillery of the first and second divisions, and one field ammunition column.

**Mountain Artillery.** — Six brigades, each consisting of headquarters, one British and three Indian batteries, also one unbrigaded battery and one section.
The British battery and two Indian batteries per brigade are armed, or in process of being armed, with four 3.7” howitzers; the remaining batteries are armed with four 2.75” guns.

Medium Artillery. — Two brigades, each consisting of four batteries (3 batteries of six 6” howitzers and 1 battery of six 60-pounder guns).

Anti-Aircraft. — Half battery (eight 3 inch guns).

Heavy Artillery. — Two batteries.

Frontier Brigade. — One corps manning 15 posts.

The posts are:

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Kohat</td>
<td>Peshawar</td>
<td>Chakdara</td>
<td>Idak</td>
</tr>
<tr>
<td>Arawali</td>
<td>Hindubagh</td>
<td>Fort Sandeman</td>
<td>Razani</td>
</tr>
<tr>
<td>Thal</td>
<td>Malakand</td>
<td>Fort Lockhart</td>
<td>Damdil</td>
</tr>
<tr>
<td>Chaman</td>
<td>Shagai</td>
<td></td>
<td>Saidgi</td>
</tr>
</tbody>
</table>

The corps is responsible for manning the armament allotted for the defence of these posts.

Artillery Training Centres. — One centre for Indian ranks of Horse, Field and Medium Artillery, and another centre for Indian ranks of Pack Artillery. These centres were created for the recruitment and training of Indian personnel required for batteries.

3. Royal Tank Corps.

The Royal Tank Corps consists of two groups: Northern group and Southern group comprising 8 Armoured Car Companies. Each company is armed with 16 armoured cars.

To complete the organisation, a Tank Corps Centre is maintained at Ahmednagar for the training of Tank Corps personnel and for the administration of the Corps.

The smallest tactical unit is the subsection of two cars. Two subsections constitute a section. The section is commanded by a captain or a subaltern, and is self-contained and capable of independent action. Three sections constitute a company. The company is commanded by a major. In addition to the twelve active cars in the three sections, four cars are held in company reserve to replace active cars temporarily out of action. Each car is armed with a Vickers machine-gun.

4. The Royal Engineers and the Engineer Services.

(a) The Engineer-in-Chief.

The Engineer-in-Chief (the head of the Corps of Royal Engineers in India) is directly responsible to the Commander-in-Chief. The Engineer-in-Chief is not a Staff Officer, but the technical adviser of the Commander-in-Chief on all military engineering matters.
He is responsible for:

1. Engineer operations and engineer services during war and peace.
2. The preparedness for war of the engineering services.
3. The supply of engineer stores during war and peace.
4. The execution and maintenance of all military works.
5. The constructional efficiency, accuracy and economy of all projects and designs submitted by him.

(b) The Organisation.

The Engineers include four branches:

1. Field Units,
2. Work Services,
3. Defence Lights,
4. Transportation.

Field Units. — The Field Units consist of 4 Field Troops, 18 Field Companies, 4 Divisional Headquarters Companies, 3 Army Troops Companies and 2 Railway Companies. The Units form part of the 3 Corps of Sappers and Miners (King George's Own Bengal Sappers and Miners, Queen Victoria's Own Madras Sappers and Miners, Royal Bombay Sappers and Miners).

Defence Lights. — Defence Light Sections, which are small cadre units.

Transportation. — A small reserve of essential trades is now maintained in peace for the formation of the Railway Reserve Regiment, when required.

The Military Engineer Services control all military works in India, Burma, the Persian Gulf and Aden, except in the case of a few small outlying military stations, which are in charge of the Public Works Department. They control all works for the Royal Air Force and for the Royal Indian Marine; and they are charged with all civil works in the North-West Frontier Province and Baluchistan under the orders, in each of these two areas, of the Chief Commissioner and Agent to the Governor-General. They also control civil works in Bangalore, under the Mysore Government, and in Aden.

5. The Royal Air Force in India.

(a) Organisation and Administration — The Commander-in-Chief.

The Royal Air Force in India is controlled by the Commander-in-Chief in India as part of the defence services of the Indian Empire. The Air Force budget is incorporated in the Army estimates. The Commander of the Air Force, the Air Officer Commanding in India, is an Air Vice-Marshal, whose rank corresponds to that of a Major-General in the Army.

(b) Royal Air Force Headquarters.

The Headquarters of the Air Force is closely associated with Army Headquarters and is located with the latter at the seat of the Government of India. The Air Officer Commanding has a headquarters staff constituted in three branches, namely, air staff, personnel, and technical and stores. The system of staff organisation is similar to the staff system.
obtaining in the Army. Broadly speaking, the duties assigned to the three divisions mentioned are those which are performed by the General Staff Branch, the Adjutant-General’s and Military Secretary’s branches, and the Quartermaster-General’s branch, respectively, of Army Headquarters.

(c) Establishment.

The establishment of the Royal Air Force in India provided in the Budget estimate for 1930-31 is 260 officers, 1,934 airmen, 49 Indian other ranks, 211 Indian artificers, 95 Indian mechanical transport drivers, 162 clerks and 83 followers.

(d) Units.

1 Headquarters, R.A.F., at Simla and Delhi.
1 Group Headquarters at Peshawar with two Wing stations, each comprising two Bomber Squadrons at Risalpur and Kohat, and one Army Co-operation Squadron at Peshawar under its administration. The Risalpur Wing station has in addition to two Bomber Squadrons a Parachute Test Section.
1 Wing Headquarters, R.A.F., at Quetta with two Army Co-operation Squadrons under its administration.
1 Army Co-operation Squadron at Ambala, which is directly under the administration of Headquarters.
1 Aircraft Depot at Karachi.
1 Aircraft Park at Lahore.
1 R.A.F. Hill Depot located at Lower Topa during the summer months only.

The duties of the Aircraft Depot are as follows: it receives all stores from England, erects new aeroplanes, overhauls engines, etc.

The duties of the Aircraft Park are as follows: it erects all new aeroplanes received from England, etc.

Each Squadron has 12 aeroplanes and engines.

(e) Services:

Royal Army Service Corps.
Royal Army Medical Corps.
The Army Dental Corps.
Queen Alexandra’s Imperial Military Nursing Service.
Queen Alexandra’s Military Nursing Service for India.
Royal Army Veterinary Corps.

F. THE REGULAR INDIAN FORCES

I. INDIAN CAVALRY.

The present number of Indian cavalry regiments is 21 (arranged in seven groups) of three squadrons each. In addition, there are seven stations which form suitable permanent locations for regiments allotted
to internal security duties. One of these stations is allotted to each group, with the result that one of the three regiments of each group will always be located in a permanent regimental centre. A group depot will be formed in this station on mobilisation and will be made responsible for the training and provision of reinforcements for the whole group.

In each unit there is a regimental Headquarters, with a Headquarters Wing and three Squadrons.

2. INDIAN INFANTRY AND PIONEERS.

The establishment of the Indian Infantry is constituted as follows:

<table>
<thead>
<tr>
<th>Type of Battalion</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active battalions</td>
<td>80</td>
</tr>
<tr>
<td>3 Corps of Pioneers and one independent battalion</td>
<td>7</td>
</tr>
<tr>
<td>Gurkha battalions</td>
<td>20</td>
</tr>
<tr>
<td>Training battalions</td>
<td>18</td>
</tr>
</tbody>
</table>

The organisations of an Infantry or Pioneer battalion other than training battalions is built up on the basis of a section, the smallest unit of men, which is commanded by a naick or lance-naick, the junior non-commissioned officers in the battalion. A section consists of from 8 to 11 men.

A platoon comprises 4 sections. In the Infantry 3 of these are rifle sections and 1 a Lewis gun section. In the Pioneers all four are rifle sections. The platoon is commanded by an Indian officer (Jemadar or Subadar).

The company comprises 4 platoons.

There are 4 companies in each infantry battalion.

Reserves for these units have to be sufficient to provide for an actual shortage on mobilisation as well as for the maintenance of the mobilised unit at full strength for the first 8 months after mobilisation.

The conditions of the new reserve, which were introduced in August 1923, are as follows:

(a) There are two classes in the reserve, Class A and Class B. A reservist is eligible to serve in Class A up to 8 years combined army and reserve service, and in Class B up to 15 years combined service.

(b) Service in the reserve is compulsory. On enrolment a man engages to serve at least 5 years in army service, and to serve up to 15 years in combined army and reserve service, if required to do so.

(c) Reservists will be trained for not more than 1 month annually in the case of Class A, and biennially in the case of Class B. During training the reservist will receive the full pay of a serving soldier.

(d) While not under training, the reservist will receive pay as follows:
   - Class A, Rs. 7 per mensem.
   - Class B, Rs. 4 per mensem.

(e) A reservist will be discharged from the service after 15 years combined army and reserve service, when he will receive a pension of Rs. 3 per mensem, or, if he desires it, a gratuity of Rs. 300 in lieu. A reservist who is invalided from the reserve is granted a gratuity varying between 3 and 6 months' pay and good conduct pay according to service.
The total infantry reserve establishment (for 80 battalions) is 22,400 (Class A. 5,440 and Class B. 16,960). Reserve service for Gurkhas is voluntary, their reserve establishment being 2,000.

3. THE SIGNAL SERVICES

The Signal Services are provided by the Indian Signal Corps. The Corps is organised on the same lines as a Sapper and Miner Corps, with a headquarters and depot for recruiting and training personnel, and detached field units for the various army formations.

The head of the corps is the Signal Officer-in-Chief, who is attached to the General Staff Branch at Army Headquarters as a technical adviser on questions connected with signals, and is also responsible for the technical inspection of all signal units. A chief signal officer with similar functions is attached to the headquarters of each Army Command.

The various types of field units and the number maintained, are:

- Corps ........................................ 2
- Cavalry Brigade Signal Troops .................. 4
- Divisional Signals ............................... 4
- District Signals ................................ 3
- Experimental Wireless Section .................. 1
- Signal Training Centre .......................... 1

In addition, there is an Army Signal School, which carries out the training of regimental signalling instructors, and of personnel for wireless units, respectively.

4. MEDICAL SERVICES.

The Medical Services are organised into (I) British Military Hospitals, (II) Indian Military Hospitals and (III) Indian Hospital Corps (9 companies).

There are 23 hospitals first class, 24 second class, 45 third class, 38 fourth class and 30 fifth class.

5. THE INDIAN ARMY SERVICE CORPS AND THE MECHANICAL TRANSPORT SERVICE.

The Indian Army Service Corps is the counterpart of the Royal Army Service Corps of the British Army. It has developed from the Commissariat Department of an earlier period, and its immediate predecessor was the Supply and Transport Corps, by which name the service was known up to a short time ago. The Indian Army Service Corps is administered by the Quartermaster-General, and is one of the principal services included in the Quartermaster-General's Department.

The Indian Army Service Corps is constituted in two main branches, namely:

(a) Supply,
(b) Animal transport,
and is supplemented by the Mechanical Transport Service, which, in India, is constituted upon a special basis, but which is, generically, a subdivision of Army Service Corps organisation.
I. The present-day (1929-1930) establishment of animal transport is as follows:

**Wheeled and Pack Transport.**

**Mules:**
- 2 cavalry brigade transport companies.
- 12 infantry brigade transport companies.
- 4 divisional troops transport companies.
- 4 transport companies (lower and higher establishment). Reserve pack companies.
- 17 transport companies for covering troops.

**Camels:** 8 transport companies.

There are also 18 District Supply Companies and 4 Supply Depot Companies.

II. The mechanical transport establishment (1929-1930) consists of the following:

- 11 Mechanical Transport Companies.
- 6 Mechanical Transport Companies for Motor Ambulance Convoys.
- 4 Mobile Repair Units (companies).
- 1 Vehicle Reception Depot.
- 4 Heavy Repair Shops.
- Central Mechanical Transport Stores Depot and one Mechanical Transport Depot.

6. THE ORDNANCE SERVICES.

The Ordnance Services may be broadly described as the agency whose duty it is to supply the army with munitions of war, such as small-arms, guns, ammunition and other equipment of a technical military character, and also, under an arrangement introduced in recent years, with clothing and general stores other than engineering stores. The present organisation of the ordnance services in India is shown in graphic form on the following page.

7. THE REMOUNT AND VETERINARY SERVICES.

(a) The Remount Service.

The department is organised on lines corresponding to the remount service in the United Kingdom.

(b) The Veterinary Service.

The Army Veterinary Services are responsible for the welfare of the animals of the Army, about 82,000 in number.

It is organised in 48 veterinary hospitals, 10 sick lines and 12 sections.

G. RESERVE, INDIAN ARMY

The reserve consists of private soldiers or their equivalent; non-commissioned officers are only admitted as privates.

The strength of the Indian Army Reserve is about 43,000.

The reserve comprises the following classes:

(a) Reserve of Indian Cavalry, Royal Artillery (excluding the Indian heavy batteries), sappers and miners, Indian Signal Corps, Indian Infantry (excluding Gurkha groups) and pioneers (excluding the 4th Hazara Pioneers).
Diagram showing Organisation of the Ordnance Services in India.

Q. M. G. in India.

Indian Army Ordnance Corps

D. E. O. S.


Arsenals.

Rawalpindi
Ferozepore
Allahabad
Kirkee
Madras
Quetta
Mingaladon

Ordnance Depot.

Agra
Bombay
Fort William
Karachi
Cawnpore
Lahore

Clothing Depots.

Shahjahanpur
Madras
Quetta

D. G. O. in India.

Indian Ordnance Department.

Director of Ordnance Factories.

Ammunition Factory, Kirkee; Cordite Factory, Aruvankadu; Gun-Carriage Factory, Jubbulpore; Gun and Shell Factory, Cossipore; Harness and Saddlery Factory, Cawnpore; Rifle Factory, Ishapore; Metal and Steel Factory, Ishapore.

Director of Ordnance Inspection.

Inspector of Gun-Carriages and Vehicles, Jubbulpore; Inspector of Small-Arms, Ishapore; Inspector of Ammunition, Kirkee.

Ordnance Consulting Officer for India.

Inspector of Clothing Stores, Shahjahanpur.
Class A. — Men who have completed the prescribed period of army service and a period of combined army and reserve service not exceeding the minimum prescribed period of army service by more than 3 years, except in the case of the Burma sappers and miners whose period of combined army and reserve service may exceed the minimum period of army service by 5 years.

Class B. — All reservists other than those serving in Class A.

The reservists of Class A are trained annually, those of Class B biennially.

(b) Reserve of Gurkha groups. Men with more than two years' army service and less than 15 years' combined army and reserve service below the age of 35 years.

(c) Reserve of the 4th Hazara Pioneers.

Class I. — Men with more than two years' army service who have not more than 5 years' reserve service in this class and are below the age of 30 years.

Class II. — Men with more than two years' army service who are below the age of 35 years.

(d) Reserve of the I. A. S. C. — Animal transport personnel (mule and camel drivers). Men with 6 years' army service and less than 15 years' combined army and reserve service. Men (camel transport only) enrolled direct for 15 years or until attaining the age of 35 years, whichever first occurs.

Mechanical transport drivers and artificers. Men with 6 years' army service and less than 15 years' combined army and reserve service, and men enrolled direct into the reserve for 9 years.

The following table shows the minimum period of army service for each class of soldiers (excluding Gurkha groups, 4th Hazara Pioneers, I. A. S. C. and I. H. C.), and the maximum period of army and reserve service for each class of the reserve:

<table>
<thead>
<tr>
<th>Arm</th>
<th>Minimum period of army service</th>
<th>Maximum period of combined army and reserve service for each class of the reserve</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indian Cavalry</td>
<td>7</td>
<td>10 15</td>
</tr>
<tr>
<td>Gunners, R. A.</td>
<td>6</td>
<td>9 15</td>
</tr>
<tr>
<td>Drivers, R. A.</td>
<td>5</td>
<td>8 15</td>
</tr>
<tr>
<td>Drivers, Motor</td>
<td>6</td>
<td>151</td>
</tr>
<tr>
<td>Sappers and Miners (excluding Burma Sappers and Miners)</td>
<td>7</td>
<td>10 15</td>
</tr>
<tr>
<td>Indian Signal Corps</td>
<td>5</td>
<td>8 15</td>
</tr>
<tr>
<td>Indian Infantry and Pioneers (except the 20th Burma Rifles)</td>
<td>5</td>
<td>8 15</td>
</tr>
<tr>
<td>20th Burma Rifles</td>
<td>7</td>
<td>10 15</td>
</tr>
</tbody>
</table>

1 Class A reservists only.

There is also a Supplementary Reserve which consists of technical personnel required to complete the requirements of the Army in this personnel on general mobilisation.
The Indian Supplementary Reserve is divided into two categories: Category A, comprising four classes of tradesmen who are required to undergo an initial training in peace, of one month annually (2 months in the case of electricians), and Category B, consisting of 33 classes of tradesmen who are not required to undergo training in peace but are annually trade-tested.

H. THE AUXILIARY FORCE

After the war, the question of universal training for European British subjects came up for consideration, and it was decided that in India, as elsewhere in the Empire, the adoption of compulsory military service would be undesirable. It was recognised, however, that India needed some adequate auxiliary force, if only on a voluntary basis, that could be trained to a fairly definite standard of efficiency; and in the result, an Act to constitute an Auxiliary Force for service in India was passed in 1920. Under this Act membership is limited to European British subjects. The units comprising it are liable to be called out, or embodied for local service only, thus constituting a potential reinforcement to the regular army.

The Auxiliary Force comprises all branches of the service—cavalry, artillery, engineers, infantry—in which are included railway battalions, machine-gun companies, and the R.A.S.C. sections. The organisation is that of regular units of the British Army, a regular Adjutant being appointed to each regiment, battalion and artillery brigade.

Units of the Auxiliary Force are under the command of the local military authority. In some stations, e.g., Delhi, Agra, Lucknow, etc., Auxiliary Force units of different arms are grouped together permanently, under an Auxiliary Force Commanding Officer, for administration and immediate command. In other places, each unit is under its own commander, who is responsible for the unit to the local military commander.

The personnel of this force includes 3 categories, viz. (1) active class, (2) first (A) and (3) second (B) reserve.

Training is carried on throughout the year: 16 days for trained soldiers (32 days for recruits) in the case of the infantry branch and 20 days (40 days for recruits) in the case of other branches for the men of the active class; 6 and 10 days, respectively, for the men of category (2); members of "B" reserve fire a musketry course only.

Men enrol in the Auxiliary Force for an indefinite period. An enrolled person is entitled to claim his discharge on the completion of four years' service or on attaining the age of 45 years. Till then he can only be discharged on the recommendation of the advisory committee of the area.

The strength of the Auxiliary Force provided for 1929–30 is 32,000 all ranks, including cadets.
Composition of the Auxiliary Force.

Cavalry: 10 regiments.

Artillery: 6 field brigades, comprising 13 Field Batteries, 1 Heavy Battery and 1 Machine-Gun Company; 7 independent Field Batteries.

Infantry, 24 units: 12 corps, not including 5 units grouped for administrative purposes, 1 regiment, 9 battalions and 2 independent companies.

Engineers: 2 field companies, 1 searchlight and 1 signal company.

Railway Corps, 17 battalions: 6 regiments (13 battalions) and 4 independent battalions.

Machine-Gun Corps: 7 companies.

Royal Army Service Corps: 4 companies.

Auxiliary Force Medical Corps.

Auxiliary Force Signal Corps.

Auxiliary Force Veterinary Corps.

I. THE INDIAN TERRITORIAL FORCE

Organisation and Duties.

The Territorial Force is one of the several aspects of the Indianisation of the military services. The force is intended to cater, amongst other things, for the military aspirations of those classes of the population to whom military service has not hitherto been a hereditary profession. It is intended, at the same time, to be a second line to, and a source of reinforcement for, the regular Indian army. Membership of the force for this latter reason carries with it a liability for something more than purely local service or home defence. It may, in certain circumstances, involve service overseas.

The Indian Territorial Force consists of three main categories, provincial battalions (18), urban units (4) and 11 university training corps, with an establishment of 19,963 all ranks (1930-31).

I. UNIVERSITY TRAINING CORPS.

There are 8 battalions and 3 companies. These units are recruited from the staff and students of Indian universities and are mainly educational and have no liability for service. They train all the year round (not exceeding 15 days in the year), and they are equipped with a permanent staff of British instructors.

On ceasing to belong to a university, a member of the corps is discharged. In the case of the university training corps battalions, it is not intended to enforce the liability to render actual military service. Their purpose is mainly educative, to inculcate discipline and form character. But, incidentally, they are expected to be a source of supply of both officers and men for the provincial battalions.
2. **Provincial Battalions** (2nd line to the Regular Indian Army).

These battalions may be required to serve anywhere in India and even beyond in an emergency by a special order of the Governor-General in Council.

Men enrol in the provincial battalions for a period of six years, the period being reduced to four years in certain cases. On the completion of the first period they can re-enrol, voluntarily, for further specified periods. During his first year, every man does 56 days’ preliminary training, and during every year he receives 28 days’ periodical training.

In the case of certain selected units the period of training has been increased to 3 and 2 months, respectively.

3. **Urban Units.**

These units have a limited liability for service, confined to the Province in which located, similar to the Auxiliary Force. During his first year, every man does 32 days’ preliminary training and 16 days thereafter.

**J. THE INDIAN STATE FORCES**

The Indian State Forces, formerly designated "Imperial Service Troops", consist of the military forces raised and maintained by the Rulers of Indian States at their own expense and for State service. Government, on the other hand, provide permanently a staff of British officers, termed "Military Advisers and Assistant Military Advisers", to assist and advise the Ruling Princes in organising and training the troops of their States. The Head of this staff is the Military Adviser-in-Chief, a senior military officer whose services in a consultative capacity are at the disposal of all the Darbars which maintain State troops.

The strength of the Indian State Forces is 44,000.

After the war had ended, the Indian States, like the Government of India, undertook a military reorganisation, which in a number of cases has already been carried out. The principal feature of the new arrangements, as adopted more or less generally, is that in future the Indian State Forces should be composed of three categories of troops, namely:

- **Class A.** — Troops in this class are organised on the present-day Indian Army system and establishments, and, with some exceptions, are armed with the same weapons as corresponding units of the regular Indian Army.

- **Class B.** — These troops consist of units which are, in most cases, little inferior in training and discipline to troops of Class A; but they are not organised on present-day Indian Army establishments. They have, as a rule, retained the system of the pre-war formations. Their standard of armament is pitched lower than that of Class A troops.

- **Class C.** — These troops consist in the main of militia formations, which are not permanently embodied. The standard of training, discipline, and armament, prescribed for this class, is generally lower than the standard prescribed for Class B troops.
K. **ENLISTMENT AND TERMS OF SERVICE**

**BRITISH ARMY.**

Only persons of European parentage are eligible for enlistment.

**INDIAN ARMY.**

The A. G. has been vested with the entire executive control over the recruitment of all the personnel, combatant and non-combatant, which is included from time to time in the sanctioned establishment of a fighting unit or of any of the administrative services of the Army.

The normal periods for which persons shall be enrolled, as combatants and non-combatants, under the Indian Army Act, 1911 (VIII of 1911), are given in the following table:

<table>
<thead>
<tr>
<th>Details</th>
<th>Minimum colour service</th>
<th>Period of combined colour and reserve service</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Combatants</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cavalry</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>Aden Troop</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>Royal Artillery (except those serving with Heavy Artillery):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gunners</td>
<td>6</td>
<td>15</td>
</tr>
<tr>
<td>Drivers (Horse)</td>
<td>5</td>
<td>15</td>
</tr>
<tr>
<td>Drivers (Motor R. A.)</td>
<td>6</td>
<td>15</td>
</tr>
<tr>
<td>Royal Artillery (serving with Heavy Artillery)</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>Royal Artillery personnel of Fort Armaments</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>Sapper and Miner Corps (except Burma Sappers and Miners)</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>Burma Sappers and Miners</td>
<td>5</td>
<td>15</td>
</tr>
<tr>
<td>Indian Signal Corps</td>
<td>5</td>
<td>15</td>
</tr>
<tr>
<td>Drivers (M. T.) Indian Signal Corps</td>
<td>6</td>
<td>15</td>
</tr>
<tr>
<td>Indian Infantry and Pioneers (except Gurkha battalions, the 20th Burma Rifles, the 4th Hazara Pioneers and trans-frontier personnel of Indian Infantry)</td>
<td>5</td>
<td>15</td>
</tr>
<tr>
<td>Gurkha Battalions</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>20th Burma Rifles</td>
<td>7</td>
<td>15</td>
</tr>
<tr>
<td>4th Hazara Pioneers</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>Indian Army Veterinary Corps.</td>
<td>6</td>
<td>15</td>
</tr>
<tr>
<td>The Works Corps</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Remount Squadron</td>
<td>7</td>
<td>0</td>
</tr>
</tbody>
</table>

**L. OFFICERS**

I. **KING’S COMMISSIONS AND VICEROY’S COMMISSIONS.**

There are two main categories of officers in the Indian Army: those holding the King's commission and those holding the Viceroy's commission. The latter are all Indians (apart from the Gurkha officers of Gurkha battalions) and have a limited status and power of command, both of which are regulated by the Indian Army Act and the rules made thereunder. Until recent years Indians were not eligible for King's commissions.
King's Commissioned Officers for the Indian Army are obtained from two sources:

(1) from among the cadets who pass through the Royal Military College, Sandhurst, and

(2) by the transfer to the Indian Army of Officers belonging to British units.

The former is the principal channel of recruitment; the latter being only resorted to when, owing to abnormal wastage or for some other special reason, requirements cannot be completed by means of cadets from Sandhurst.

The promotion in rank of King's commissioned officers of the Indian Army is regulated by a time-scale up to the rank of Lieutenant-Colonel, but is subject also to certain professional examinations and tests being successfully passed. The rank of Lieutenant-Colonel is, in normal course, attained at about 26 years' service; promotion beyond this rank is determined by selection.

One of the most momentous decisions of the Great War, so far as the Indian Army is concerned, was that which rendered Indians eligible to hold a King's commission in the army.

It was proposed that King's commissions should be obtainable by Indian gentlemen in the following three ways:

(1) By qualifying as a cadet through the Royal Military College, Sandhurst;
(2) By the selection of specially capable and deserving Indian officers or non-commissioned officers of Indian regiments who had either been promoted from the ranks or joined their regiments on direct appointment as jemadar;
(3) By the bestowal of honorary King's commissions on Indian officers who had rendered distinguished service, but whose age and lack of education precluded their being granted the full King's commission.

A number of honorary King's commissions are still granted annually to a limited number of Viceroy's commissioned officers of the class described in the third category mentioned above. The second of the sources of selection mentioned has since been almost entirely abandoned for the reason that a Viceroy's commissioned officer of this class cannot, as a practical matter, hope to have a normal career as a King's commissioned officer.

It is the first of the three avenues of selection mentioned which gives the fullest opportunity to the Indian of satisfying a military ambition and of enjoying a military career on terms of absolute equality with the British officer, who, as a general rule, also enters the army by qualifying at Sandhurst.

It was decided that, in the first instance, ten vacancies at Sandhurst should be reserved annually for Indian cadets.

A further measure adopted by the Government was the establishment of the Prince of Wales' Royal Indian Military College at Dehra Dun, a Government institution for the preliminary education of Indians who desire to qualify for a King's commission in the army through the Royal Military College, Sandhurst.

The arrangements so far made enable a maximum of 70 boys to be in residence at the college at any one time, and the normal course of education is planned to occupy six years. These dispositions will render it possible to provide from Dehra Dun sufficient candidates to fill the ten vacancies at Sandhurst which are at present allotted annually to Indians.  

In February 1923, it was decided that eight units of the Indian Army should be completely Indianised. The units selected for Indianisation were:

7th Light Cavalry;
16th Light Cavalry;
2/1st Madras Pioneers;
4/19th Hyderabad Regiment;
5th Royal Battalion, 5th Mahratta Light Infantry;
1/7th Rajput Regiment (Q.V.O.L.I.);
1/14th Punjab Regiment;
2/1st Punjab Regiment.

1 In February 1923, it was decided that eight units of the Indian Army should be completely Indianised. The units selected for Indianisation were:

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16th Light Cavalry;
2/1st Madras Pioneers;
4/19th Hyderabad Regiment;
5th Royal Battalion, 5th Mahratta Light Infantry;
1/7th Rajput Regiment (Q.V.O.L.I.);
1/14th Punjab Regiment;
2/1st Punjab Regiment.
II. REGULATIONS FOR THE ARMY-IN-INDIA RESERVE OF OFFICERS.

(1) The following officers and gentlemen may be granted commissions in the Army-in-India Reserve of Officers:

(a) Officers holding the King's Commission who, having retired from His Majesty's Indian military forces, are not liable for further service.

(b) Officials other than military officers serving under the Government of India.

(c) Private gentlemen, being British subjects, who are or have been resident in India.

(2) Provided that they are qualified for promotion and that they are recommended by the Independent District Brigade Commander concerned, officers will receive promotion on the following time scale:

<table>
<thead>
<tr>
<th>Categories</th>
<th>As for Indian Army Category II</th>
</tr>
</thead>
<tbody>
<tr>
<td>To Lieutenant</td>
<td>2 1/2 years' service</td>
</tr>
<tr>
<td>To Captain</td>
<td>9 years' service</td>
</tr>
<tr>
<td>To Major</td>
<td>18 years' service</td>
</tr>
<tr>
<td>To Lieutenant-Colonel</td>
<td>By special selection</td>
</tr>
</tbody>
</table>

The minimum age-limit for admission to the Army-in-India Reserve of Officers is 20 years.

The maximum age-limits for service are as follows:

- For Cavalry, Tank Corps, Artillery and Infantry: Lieutenant, 35 years; Captain, 40 years; Major, 45 years; Lieutenant-Colonel, 47 years.
- Other categories: All ranks, 55 years.

Training is ordinarily carried out either annually or biennially according to the arm or department of the service to which the officer is posted.

There were 1,400 officers in the Reserve of Officers for the Army in India in July 1929.

M. EDUCATIONAL AND INSTRUCTIONAL ESTABLISHMENTS

The following institutions exist in India for the higher training of military personnel and for the education of instructors for units:

- Staff Colleges, Quetta and Camberley.
- Senior Officers' School, Belgaum.
- School of Artillery, Kakul.
- Equitation School, Saugor.
- Small-Arms School, India.
- Lawrence Royal Military Schools, Sanawar, Murree and Mount Abu.
- School of Physical Training, Ambala.
- Machine-Gun School, Ahmednagar.
- Army Signal School, Poona.
- Royal Tank Corps School, Ahmednagar.
- British Army School of Education, Belgaum.
- Prince of Wales's Royal Indian Military College, Dehra Dun.
- Two King George's Royal Military Schools, Jhelum and Jullundur.
- Army School of Education, Belgaum.
- Kitchener College, Nowgong.
- Army School of Cookery, Poona.
- Two Army Veterinary Schools, Ambala and Poona.
- Indian Army Service Corps Training Establishment, Rawalpindi.
Their object is to ensure to all formations and units throughout the army a constant supply of officers, warrant officers, non-commissioned officers and men, provided with a thorough up-to-date knowledge of various technical subjects, and with the ability to pass on this knowledge.

N. ARMY FACTORIES

Metal and Steel Factory, Ishapore. — Production of steel for guns and shell; for small arms ammunition, fuses, etc.

Gun and Shell Factory, Cossipore. — Production of guns up to 18 pounders; howitzers up to 4.5'' and their components; machining of shells, fuses, etc.

Rifle Factory, Ishapore. — Production of rifles and their components and of sword, bayonets, repair of machine guns, etc.

Ammunition Factory, Kirkee. — Production of small arms and pistol ammunition, etc.

Gun Carriage Factory, Jubbulpore. — Manufacture of artillery carriages and vehicles, etc.

Harness and Saddlery Factory, Cawnpore. — Manufacture of harness, saddlery, etc.

Cordite Factory, Aruvankadu. — Production of cordite and gun cotton.

Clothing Factory, Shahjahanpur.

O. EFFECTIVES

(a) Army.


<table>
<thead>
<tr>
<th>Officers with King's Commissions</th>
<th>Indian other ranks</th>
<th>British other ranks</th>
<th>Indian officers</th>
<th>Indian other ranks</th>
</tr>
</thead>
<tbody>
<tr>
<td>British officers</td>
<td>Indian officers</td>
<td>Total</td>
<td>British officers</td>
<td>Indian officers</td>
</tr>
<tr>
<td>Forces in India proper and Burma:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(I) Fighting Services:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(a) Cavalry ...............</td>
<td>401</td>
<td>28</td>
<td>429</td>
<td>2,866</td>
</tr>
<tr>
<td>(b) Artillery .............</td>
<td>559</td>
<td>—</td>
<td>559</td>
<td>9,951</td>
</tr>
<tr>
<td>(c) Engineers ............</td>
<td>117</td>
<td>—</td>
<td>117</td>
<td>182</td>
</tr>
<tr>
<td>(d) Pioneers .............</td>
<td>95</td>
<td>8</td>
<td>103</td>
<td>134</td>
</tr>
<tr>
<td>(e) Infantry .............</td>
<td>2,595</td>
<td>59</td>
<td>2,654</td>
<td>39,787</td>
</tr>
<tr>
<td>(f) Tank Corps ............</td>
<td>100</td>
<td>—</td>
<td>100</td>
<td>1,164</td>
</tr>
<tr>
<td>(g) Indian Signal Corps ..</td>
<td>153</td>
<td>—</td>
<td>153</td>
<td>2,243</td>
</tr>
<tr>
<td>(h) Reservists ............</td>
<td>1</td>
<td>—</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Total Fighting Services ...</td>
<td>4,021</td>
<td>95</td>
<td>4,116</td>
<td>56,194</td>
</tr>
<tr>
<td>(II) Miscellaneous ........</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>70</td>
<td>12</td>
<td>82</td>
<td>—</td>
<td>5</td>
</tr>
<tr>
<td>Total Forces in India, etc.</td>
<td>4,091</td>
<td>107</td>
<td>4,198</td>
<td>56,194</td>
</tr>
</tbody>
</table>
INDIA

2. ESTABLISHMENT OF ANIMALS\(^1\) ON APRIL 1ST, 1930

India proper and Burma.

I. Fighting Units:

<table>
<thead>
<tr>
<th>Unit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cavalry</td>
<td>14,022</td>
</tr>
<tr>
<td>Artillery</td>
<td>13,023</td>
</tr>
<tr>
<td>Engineers</td>
<td>931</td>
</tr>
<tr>
<td>Infantry and Pioneers</td>
<td>4,390</td>
</tr>
<tr>
<td>Signals</td>
<td>2,223</td>
</tr>
<tr>
<td><strong>Total Fighting Units</strong></td>
<td><strong>34,589</strong></td>
</tr>
</tbody>
</table>

II. Miscellaneous\(^2\)

**Total India proper and Burma**

\(^1\) Horses, Mules, etc.

\(^2\) Army Service Corps, Veterinary Services, Remount Services, etc.
BRITISH EMPIRE

Clive (1920) 2,021 tons. Dimensions: 270 $\frac{2}{3} \times 38 \frac{1}{2} \times 14$ feet. 
Guns: 2 4-inch, 16 smaller guns.

Depot Ship:

Dalhousie (1886) 1,960 tons. Dimensions: 239 $\frac{1}{2} \times 36 \times 15 \frac{2}{3}$ feet. 
Guns: 4 3-pdr.

Miscellaneous: 11 units (patrol boats, etc.).

SUMMARY TABLE OF NAVAL UNITS.

<table>
<thead>
<tr>
<th>Miscellaneous craft $^2$</th>
<th>Number</th>
<th>Total Tonnage</th>
<th>Depreciated Tonnage $^1$</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4</td>
<td>5,775</td>
<td>3,097</td>
</tr>
</tbody>
</table>

$^1$ Depreciated tonnage (on January 1st, 1931), is calculated as follows:
(1) For battleships, battle-cruisers, coast-defence ships, monitors, aircraft-carriers and miscellaneous vessels, a reduction in original tonnage at the rate of $\frac{1}{20}$ per annum from date of completion.
(2) For cruisers and light cruisers, a reduction of $\frac{1}{17}$ per annum from date of completion.
(3) For torpedo craft and submarines, a reduction of $\frac{1}{12}$ per annum from date of completion.

$^2$ Under the heading Miscellaneous Craft, only sloops, gunboats, river gunboats and despatch vessels are shown.

III.

Budget Expenditure on National Defence.

A. NOTES ON BUDGET PROCEDURE.

1. The financial year covers the period from April 1st to March 31st. The original estimates for 1929-30 were submitted to the Legislative Assembly and the Council of State in March 1929 and were voted the same month. Closed accounts for a given financial year are published in connection with the submission to Parliament of the budget, eleven months after the end of the financial year.

2. The estimates of defence expenditure are debated in the Legislative Assembly but are not submitted to its vote.

3. The budget is divided into two main parts, the Railway budget and the General budget. The general budget is again subdivided into two parts. One part comprises revenue from taxation and other normal sources, and expenditure chargeable thereto, in which is included all ordinary current expenditure and also certain items of capital expenditure. All expenditure for military purposes is included in this part.

The second part contains all other items of capital expenditure, including not only the major portion of expenditure on capital investments in public undertakings, but also items concerning the creation and redemption of public debt, deposits and advances, remittances, etc. This part is mainly covered by receipts from loans.

4. As a rule, the receipts collected by the various departments are not set off against expenditure as appropriations-in-aid, but are shown separately on the receipts side of the budget. This is especially the case with the receipts of the Defence Department, which amount to considerable sums.

5. The Provincial Governments incur no expenditure for defence purposes.
B. BUDGET EXPENDITURE ON NATIONAL DEFENCE.

I. Summary of Defence Expenditure (Gross).

<table>
<thead>
<tr>
<th></th>
<th>1927-28</th>
<th>1928-29</th>
<th>1929-30</th>
<th>1930-31</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Closed Accounts</td>
<td>Revised Estimates</td>
<td>Budget Estimates</td>
<td></td>
</tr>
<tr>
<td>Army</td>
<td>510,748</td>
<td>529,795</td>
<td>532,454</td>
<td>522,178</td>
</tr>
<tr>
<td>Marine</td>
<td>7,636</td>
<td>8,187</td>
<td>8,453</td>
<td>9,032</td>
</tr>
<tr>
<td>Military Engineer Services</td>
<td>45,010</td>
<td>44,348</td>
<td>46,475</td>
<td>48,498</td>
</tr>
<tr>
<td><strong>Total gross expenditure</strong></td>
<td>563,394</td>
<td>582,330</td>
<td>587,382</td>
<td>579,708</td>
</tr>
<tr>
<td>Index numbers</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wholesale prices ^1 (1914 = 100)</td>
<td>165</td>
<td>163</td>
<td>154</td>
<td>127 ^2</td>
</tr>
<tr>
<td>Retail prices: Cost of living (July 1914 = 100).</td>
<td>170</td>
<td>165</td>
<td>162</td>
<td>153 ^2</td>
</tr>
</tbody>
</table>

^1 New series, in terms of present currency.
^2 Average, April to December 1930.

NOTES. — (1) This summary includes the expenditure on the Royal Air Force, which is included in the Army Estimates, and also the expenditure on non-effective services, but does not include debt service.

(2) All expenditure for military purposes incurred in the United Kingdom by the Government of India, as also all contributions to the Imperial Government for these purposes, are included in the figures above.

(3) Since 1921-22 substantial reductions have been effected in the expenditure on the military services. The actual net expenditure as shown in the final account or as estimated, where the accounts are not yet closed, is indicated in the following statement:

<table>
<thead>
<tr>
<th></th>
<th>Rupees (000,000's)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1921-22</td>
<td>698.1</td>
</tr>
<tr>
<td>1922-23</td>
<td>652.7</td>
</tr>
<tr>
<td>1923-24</td>
<td>562.3</td>
</tr>
<tr>
<td>1924-25</td>
<td>556.3</td>
</tr>
<tr>
<td>1925-26</td>
<td>560.0</td>
</tr>
<tr>
<td>1926-27</td>
<td>559.7</td>
</tr>
<tr>
<td>1927-28</td>
<td>547.9</td>
</tr>
<tr>
<td>1928-29</td>
<td>551.0</td>
</tr>
<tr>
<td>1929-30 (Revised estimate)</td>
<td>551.0</td>
</tr>
<tr>
<td>1930-31 (Budget estimate)</td>
<td>543.5</td>
</tr>
</tbody>
</table>

In each year from 1923-24, the expenditure is well below the Indian Retrenchment Committee’s figure of Rs. 570 million. It will be realised that, with the heavy commitments for expenditure in England which are provided for in the Military estimates, a considerable part of the reduction below Rs. 570 million is attributable to the present favourable rates of exchange, the Retrenchment Committee having worked on a basis of 1s. 4d. = 1 R; but certain additions have been made to the Military budget of which the Retrenchment Committee did not take cognisance—i.e., the provision of about Rs. 5 million for the revision of pay and grant of free passages to officers of the Army, and the transfer to Military estimates from the Civil estimates of certain expenditure, estimated in 1930-31 at Rs. 4.1 million, which is more properly accounted for under the former.

(4) It will be observed that a comparison of the estimates for 1929-30 with the actual expenditure for 1927-28 and 1928-29 reveals an apparent increase in both expenditure and receipts. This is due to the fact that certain recoveries which are now treated as direct receipts were shown in the earlier estimates as deductions from expenditure.
II. Analysis of Defence Expenditure.

The Military estimates for 1930-31 have been prepared in the same form as those for 1929-30, which took into account the alterations necessitated by the reversion to a cash system of estimates and accounts.

Under the revised rules for the exhibition of recoveries of expenditure, which have had effect since April 1928, some of the recoveries now compiled by deduction from expenditure will be treated as receipts. The result of the new procedure has been allowed for in the estimates for 1929-30 and 1930-31 in which, consequently, both the expenditure and receipts figures are comparatively larger, the net expenditure remaining unaffected.

I. The following table gives the main items of Army expenditure, shown for India and England separately.

<table>
<thead>
<tr>
<th>TABLE 2.</th>
<th>1927-28</th>
<th>1928-29</th>
<th>1929-30</th>
<th>1930-31</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Closed Accounts</td>
<td>Revised Estimates</td>
<td>Budget Estimates</td>
<td></td>
</tr>
<tr>
<td>INDIA.</td>
<td>Rupees (ooo's)</td>
<td>Rupees (ooo's)</td>
<td>Rupees (ooo's)</td>
<td>Rupees (ooo's)</td>
</tr>
<tr>
<td>A. Standing Army:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(1) Effective Services:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maintenance of the Standing Army</td>
<td>161,188</td>
<td>161,921</td>
<td>158,878</td>
<td>152,470</td>
</tr>
<tr>
<td>Administrative Services</td>
<td>59,254</td>
<td>62,877</td>
<td>63,916</td>
<td>60,255</td>
</tr>
<tr>
<td>Manufacturing establishments</td>
<td>27,299</td>
<td>26,781</td>
<td>24,523</td>
<td>22,763</td>
</tr>
<tr>
<td>Army Headquarters, Staff of Commands, etc.</td>
<td>20,210</td>
<td>19,466</td>
<td>19,597</td>
<td>20,312</td>
</tr>
<tr>
<td>Purchase and sale of stores, equipment and animals.</td>
<td>37,016</td>
<td>49,521</td>
<td>47,088</td>
<td>45,211</td>
</tr>
<tr>
<td>Special Services</td>
<td>88</td>
<td>25</td>
<td>14</td>
<td>12</td>
</tr>
<tr>
<td>Transportation, conservancy, etc.</td>
<td>30,251</td>
<td>25,101</td>
<td>23,418</td>
<td>23,439</td>
</tr>
<tr>
<td>Total Effective Services</td>
<td>335,306</td>
<td>345,642</td>
<td>337,434</td>
<td>333,462</td>
</tr>
<tr>
<td>(2) Non-effective Services</td>
<td>34,042</td>
<td>35,440</td>
<td>35,715</td>
<td>35,671</td>
</tr>
<tr>
<td>B. Auxiliary and Territorial Forces:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Effective Services</td>
<td>8,269</td>
<td>8,045</td>
<td>8,859</td>
<td>9,639</td>
</tr>
<tr>
<td>C. Royal Air Force:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Effective Services</td>
<td>10,562</td>
<td>11,346</td>
<td>11,190</td>
<td>12,319</td>
</tr>
<tr>
<td>Non-effective Services</td>
<td>1</td>
<td>24</td>
<td>35</td>
<td>30</td>
</tr>
<tr>
<td>Total Air Force</td>
<td>10,563</td>
<td>11,370</td>
<td>11,225</td>
<td>12,349</td>
</tr>
<tr>
<td>Total: India:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Effective Services</td>
<td>354,137</td>
<td>365,033</td>
<td>357,483</td>
<td>355,420</td>
</tr>
<tr>
<td>Non-effective Services</td>
<td>34,043</td>
<td>35,464</td>
<td>35,750</td>
<td>35,701</td>
</tr>
<tr>
<td>Total</td>
<td>388,180</td>
<td>400,497</td>
<td>393,233</td>
<td>391,121</td>
</tr>
<tr>
<td>ENGLAND.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A. Standing Army:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(1) Effective Services:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maintenance of the Standing Army</td>
<td>2,778.2</td>
<td>2,862.2</td>
<td>2,694.1</td>
<td>2,669.6</td>
</tr>
<tr>
<td>Administrative Services</td>
<td>377.0</td>
<td>289.9</td>
<td>343.1</td>
<td>321.9</td>
</tr>
<tr>
<td>Manufacturing establishments</td>
<td>700.8</td>
<td>514.2</td>
<td>592.4</td>
<td>473.1</td>
</tr>
<tr>
<td>Army Headquarters, Staff of Commands, etc.</td>
<td>74.6</td>
<td>79.3</td>
<td>94.2</td>
<td>92.0</td>
</tr>
<tr>
<td>Purchase and sale of stores, equipment and animals.</td>
<td>684.1</td>
<td>1,020.0</td>
<td>1,219.0</td>
<td>924.4</td>
</tr>
<tr>
<td>Special Services</td>
<td>17.1</td>
<td>1.3</td>
<td>0.1</td>
<td>—</td>
</tr>
<tr>
<td>Transportation, conservancy, etc.</td>
<td>491.3</td>
<td>606.2</td>
<td>831.5</td>
<td>753.6</td>
</tr>
<tr>
<td>Total Effective Services</td>
<td>5,123.1</td>
<td>5,373.1</td>
<td>5,774.4</td>
<td>5,823.6</td>
</tr>
<tr>
<td>(2) Non-effective Services</td>
<td>3,597.8</td>
<td>3,647.9</td>
<td>3,768.8</td>
<td>3,712.9</td>
</tr>
</tbody>
</table>
### TABLE 2 (continued).

<table>
<thead>
<tr>
<th></th>
<th>1927-28</th>
<th>1928-29</th>
<th>1929-30</th>
<th>1930-31</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Closed accounts</td>
<td>Revised Estimates</td>
<td>Budget Estimates</td>
<td></td>
</tr>
<tr>
<td><strong>B. Royal Air Force:</strong></td>
<td>£'s (oo's)</td>
<td>£'s (oo's)</td>
<td>£'s (oo's)</td>
<td>£'s (oo's)</td>
</tr>
<tr>
<td>Effective Services</td>
<td>455.9</td>
<td>661.5</td>
<td>943.1</td>
<td>866.2</td>
</tr>
<tr>
<td>Non-effective Services</td>
<td>15.8</td>
<td>14.8</td>
<td>15.3</td>
<td>15.6</td>
</tr>
<tr>
<td><strong>Total: England</strong></td>
<td><strong>5,579.0</strong></td>
<td><strong>6,034.6</strong></td>
<td><strong>6,717.5</strong></td>
<td><strong>6,100.8</strong></td>
</tr>
<tr>
<td><strong>Effective Services</strong></td>
<td><strong>74,386</strong></td>
<td><strong>80,462</strong></td>
<td><strong>89,567</strong></td>
<td><strong>81,344</strong></td>
</tr>
<tr>
<td><strong>Non-effective Services</strong></td>
<td><strong>48,182</strong></td>
<td><strong>48,836</strong></td>
<td><strong>49,654</strong></td>
<td><strong>49,713</strong></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>122,568</strong></td>
<td><strong>129,298</strong></td>
<td><strong>139,221</strong></td>
<td><strong>131,057</strong></td>
</tr>
<tr>
<td><strong>Total Army Expenditure, India and England:</strong></td>
<td><strong>1,130,748</strong></td>
<td><strong>1,262,042</strong></td>
<td><strong>1,320,475</strong></td>
<td><strong>1,322,178</strong></td>
</tr>
<tr>
<td>Effective</td>
<td><strong>428,523</strong></td>
<td><strong>445,495</strong></td>
<td><strong>447,050</strong></td>
<td><strong>436,764</strong></td>
</tr>
<tr>
<td>Non-effective</td>
<td><strong>82,225</strong></td>
<td><strong>84,300</strong></td>
<td><strong>85,404</strong></td>
<td><strong>85,414</strong></td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>510,748</strong></td>
<td><strong>529,795</strong></td>
<td><strong>532,454</strong></td>
<td><strong>522,178</strong></td>
</tr>
</tbody>
</table>

**Notes.** — (1) The amounts expended in England on effective services consist of such charges as payments to the War Office in London in respect of British forces serving in India, the transport to India of those forces, and payments on account of stores taken to India by British troops, educational establishments in England for Indian Services, etc. The expenditure on non-effective services consists of payments to the War Office in London for retired pay to British forces for services in India and to non-effective and retired officers of the Indian Service, and of various gratuities.

(2) Of the sum of Rs. 543.5 million allotted in the budget for 1930-31 to meet the net expenditure on Military Services (i.e., after deducting defence receipts, see Table 5 below), Rs. 494.8 million will be available for expenditure under the heading "Army", made up of Rs. 371.7 million for expenditure in India and Rs. 123.1 million in England.

2. The following table shows the division of total marine expenditure between India and England:

### TABLE 3.

<table>
<thead>
<tr>
<th></th>
<th>1927-28</th>
<th>1928-29</th>
<th>1929-30</th>
<th>1930-31</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Closed Accounts</td>
<td>Revised Estimates</td>
<td>Budget Estimates</td>
<td></td>
</tr>
<tr>
<td>Rupees (ooo's)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>India (including exchange)</td>
<td>4,720</td>
<td>5,399</td>
<td>5,406</td>
<td>6,075</td>
</tr>
<tr>
<td>England</td>
<td>2,916</td>
<td>2,788</td>
<td>3,047</td>
<td>2,957</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>7,636</strong></td>
<td><strong>8,187</strong></td>
<td><strong>8,453</strong></td>
<td><strong>9,032</strong></td>
</tr>
</tbody>
</table>

The expenditure on account of developments in connection with reorganisation to be met from proceeds of sale of Kidderpore Dockyard was estimated at 850,000 Rs. for 1929-30.

3. The division of expenditure on Military Engineer Services between India and England is shown below:
### Table 4.

<table>
<thead>
<tr>
<th></th>
<th>1927-28</th>
<th>1928-29</th>
<th>1929-30</th>
<th>1930-31</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Closed Accounts</td>
<td>Revised Estimates</td>
<td>Budget Estimates</td>
<td></td>
</tr>
<tr>
<td>India (including exchange)</td>
<td>44,685</td>
<td>43,979</td>
<td>45,999</td>
<td>48,056</td>
</tr>
<tr>
<td>England</td>
<td>324</td>
<td>369</td>
<td>476</td>
<td>442</td>
</tr>
<tr>
<td>Total</td>
<td>45,009</td>
<td>44,348</td>
<td>46,475</td>
<td>48,498</td>
</tr>
</tbody>
</table>

4. The expenditure on the Royal Air Force is included under the heading "Army" (see Table 2 above). Expenditure on Civil Aviation appears under various headings (civil administration, civil works, post and telegraph, etc.), but is not shown separately in every case.

The increase in the estimates for 1929-30 is due to provision for maintenance of two new squadrons which have recently been added to the Force, and for re-equipment of two existing squadrons.

#### III. Receipts in connection with Defence Expenditure.

The figures given in the foregoing tables relate in every case to gross expenditure. The following table shows gross expenditure as in Table 1, the receipts of the Defence Departments, and the net expenditure:

### Table 5.

<table>
<thead>
<tr>
<th></th>
<th>1927-28</th>
<th>1928-29</th>
<th>1929-30</th>
<th>1930-31</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Closed Accounts</td>
<td>Revised Estimates</td>
<td>Budget Estimates</td>
<td></td>
</tr>
<tr>
<td>Gross Expenditure:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Army</td>
<td>510,748</td>
<td>529,795</td>
<td>532,454</td>
<td>522,178</td>
</tr>
<tr>
<td>Marine</td>
<td>7,636</td>
<td>8,187</td>
<td>8,453</td>
<td>9,032</td>
</tr>
<tr>
<td>Military Engineer Services</td>
<td>45,010</td>
<td>44,348</td>
<td>46,475</td>
<td>48,498</td>
</tr>
<tr>
<td>Total</td>
<td>563,394</td>
<td>582,330</td>
<td>587,382</td>
<td>579,708</td>
</tr>
</tbody>
</table>

| Receipts:     |         |         |         |         |
| Army          | 10,386  | 26,614  | 32,865  | 27,351  |
| Marine        | 1,475   | 1,363   | 1,593   | 2,136   |
| Military Engineer Services | 3,588 | 5,960 | 5,319 | 4,114 |
| Total         | 15,449  | 33,937  | 39,777  | 33,601  |

| Net Expenditure: |         |         |         |         |
| Army          | 500,362 | 503,181 | 499,589 | 494,827 |
| Marine        | 6,161   | 6,824   | 6,860   | 6,896   |
| Military Engineer Services | 41,422 | 38,388 | 41,156 | 44,384 |
| Total         | 547,945 | 548,393 | 547,605 | 546,107 |

| Transfers to or from Military Reserve Fund |         |         |         |         |
| Army          |         |         | 2,607   | Cr. 2,607 |
| Marine        |         |         | 3,395   |         |
| Military Engineer Services |         |         |         |         |
| Total         | 547,945 | 551,000 | 551,000 | 543,500 |
Transfers to or from Military Reserve Fund.

This heading was opened as a result of the stabilisation of military budget estimates whereby any savings in one year may be transferred to a suspense heading for utilisation in a future year. The saving is charged to military expenditure by credit to a suspense account, Military Reserve Fund, and when the money is taken out in a future year to meet expenditure, the Military Reserve Fund is debited and the military estimates are credited. The saving thus credited to the suspense account in 1928-29 was Rs. 2,607,000. It was estimated that a further sum of Rs. 3,395,000 would be credited to the account in 1929-30, while for 1930-31 a credit of Rs. 2,607,000 has been taken by transfer from the suspense account, Military Reserve Fund.

IV. Expenditure referring to Previous Years.

(1) Debt Service.

No interest on or repayment of public debt is charged to the military budgets. No information is available as to what portion of the total debt is incurred for military purposes.

(2) Pensions.

Pensions are accounted for in the military budget as non-effective expenditure, and are included in the expenditure in the foregoing tables.