(1) பக்கங்களின் எண்ணிக்கை 224

(2) புதுக்கித் திருப்பிய நாள் 28-10-92

(3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம் 28/10/92

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

பொதுப்பணித் துறை

அரசாணை எண். மு. கோப்புத் தாள் எண்.	616 W	அச்சகம் பலவகை
நாள் :	4-3-1891	198 .

[illegible]

க்கவோ கண்டபடி கையாளவோ கூடாது

, கா-1—18,006—15-6-87.

PART I.

Accommodation authorised for British Troops in the Plains.

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.		Standard plan.	Type plan.	
								Authority.	Particulars.	No.	No.	Series.
Royal Horse and Light Field Artillery.		(*a*) PRIMARY BUILDINGS.	Feet.	Feet.	Feet.	Supl., ft.	Supl. feet.	G. I., P. W. D., Cir. No. 35 of 1872.	Excluding officers, the strength of a battery of royal horse or light field artillery is as follows:— *Staff sergeants and sergeants.* 1 battery sergeant-major, class B. } staff sergeants. 1 battery quartermaster sergeant, class B. } staff sergeants. 6 sergeants, class C. 1 sergeant-farrier and carriage-smith, class C. Total . 9 staff sergeants and sergeants.			
									2 trumpeters. 6 corporals. 6 bombardiers. 76 gunners. 54 drivers. 2 shoeing-smiths. *1 collar-maker. *1 wheeler. Total . 148 rank and file. GRAND TOTAL . 157			
								Clause 112, I. A. Cir. for 1886.	* The establishment of collar-makers and wheelers for the whole of India is—			

	Collar-makers	Wheelers.
11 batteries of Royal Horse Artillery .	11	11
42 „ of Light Field Artillery .	42	42
8 „ of British Mountain Artillery . . .	8	Nil.
TOTAL .	61	53

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Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Particulars.	Standard plan. No.	Type plan. No.	Series.
		(*a*) PRIMARY BUILDINGS—*contd.*	Feet.	Feet.	Feet.	Sup. ft.	Sup. feet.			No.	No.	Series.
									Amongst the 61 collar-makers there are:— 11 sergeants. 18 corporals. 32 bombardiers. Total . 61			
									Amongst the 53 wheelers there are:— 9 sergeants. 16 corporals. 28 bombardiers. Total . 53			
									As the 20 sergeants amongst the wheelers and collar-makers are distributed amongst 61 batteries and are not at [illegible] stations, it is usual in [illegible] ation to treat *all* the collar-makers and wheelers as rank and file, the sergeants of these two services (collar-makers and wheelers) being put into spare family quarters, &c.			
								G. I., M. D., letter No. 2164 M. W. (Accommodation for Troops), dated 18th Oct. 1887.	Fifty-six per cent. of the staff sergeants and sergeants and 4 per cent. of the rank and file are permitted to marry.			
								Special I. A. Cir., dated 1st March 1890. Addendum, September 1890.	List of royal artillery circles for India, Burmah, &c., shewing stations with the authorised warrant and non-commissioned staff.			

Circle.	Station.	Staff. Sergeant-majors.	Instructors of gunnery.	Sergeant trumpeters.	Orderly-room sergeants.	Lieutenant-colonel's clerks.	Master-gunners.	Park sergeants.	Assistant orderly-room clerks.
Circle.	Peshawar	1	...	...	...	...	...	1	...
	Rawal Pindi	1	...	1	1	1	...	1	2
	Attock	...	...	...	...	...	...	1	...
	Murree Hills	...	...	...	...	1	...	...	...
	Sialkot	...	...	...	...	...	...	...	...
	Campbellpore	...	...	...	...	1	...	...	...
	Meean Meer	...	...	...	...	1	...	...	...
Rawal Pindi	Lahore	...	...	...	...	...	...	1	...
	Govindgurh	...	...	...	...	...	1	...	...
	Ferozepore	...	...	...	...	...	1	...	...
	Jullunder	...	...	...	...	...	...	...	...
	Mooltan	...	...	...	...	...	...	...	...
	Abbottabad	...	...	...	...	...	...	...	...
	Edwardesabad	...	...	...	...	...	...	1	...
	Dera Ismail Khan	...	...	...	...	...	...	...	...
	Kohat	...	...	...	...	...	...	...	...
Meerut Circle.	Umballa	...	...	...	...	1	...	...	...
	Jutogh	...	...	...	...	1	...	...	...
	Meerut	1	...	1	1	1	...	...	2
	Dehra	...	...	...	...	...	...	...	...
	Roorkee	1	1	1	...	1	...	...	...
	Delhi	...	...	...	...	...	1	...	...
	Agra	...	...	...	...	...	1	...	...
	Jhansi	...	...	...	...	1	...	1	...
	Nowgong	...	...	...	...	...	...	...	...
	Lucknow	...	...	...	1	1	...	1	2
	Fyzabad	...	...	...	...	...	...	...	...
Oudh Circle.	Bareilly	...	...	...	...	...	...	1	...
	Jubbulpore	...	...	...	...	...	...	...	...
	Saugor	...	...	...	...	...	...	1	...
	Allahabad	...	...	...	...	1	1	...	...
	Cawnpore	...	...	...	...	...	...	...	...
	Dinapore	...	...	...	...	...	...	...	...
	Fatehgarh	...	...	...	...	...	...	...	...
	Barrackpore	...	...	...	...	1	...	...	...
	Fort William	...	1	...	...	...	3	...	...
	Fulta and Hughli Defences								
	Cossipore	...	...	...	...	...	...	...	...
	Darjeeling	...	...	...	...	...	...	...	...
Madras Circle.	Secunderabad	1	...	1	1	1	...	...	2
	Trimulgherry	...	...	...	...	...	...	...	...
	Bangalore	1	...	1	...	1	...	...	...
	Madras	...	...	...	...	...	...	...	...
	St. Thomas' Mount	...	...	...	...	1	...	...	...
	Fort St. George	...	1	...	...	...	1	...	...
	Bellary	...	...	...	...	...	...	...	...
	Belgaum	...	...	...	...	...	...	1	...
	Cannanore	...	...	...	...	...	...	1	...
	Mandalay	...	...	...	...	...	...	1	...
	Bhamo	...	...	...	...	...	...	1	...
	Rangoon	...	1	...	...	1	1	...	...
	Tounghoo	...	...	...	...	...	...	1	...
	Thayetmyo	...	...	...	...	...	...	1	...
	Moulmein	...	...	...	...	...	...	...	...
Bombay Circle.	Bombay	1	1	1	1	1	2	2	2
	Hyderabad	...	...	...	...	...	...	...	...
	Karachi	...	1	...	...	1	1	...	...
	Sukkur	...	...	...	...	...	...	...	...
	Aden	1	1	...	...	1	2	2	...
	Quetta	...	...	...	...	1	1	1	...
	Loralai	...	...	...	...	...	...	...	...

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Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. — Authority.	Detail of Orders, &c. — Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
Royal Horse and Light Field Artillery—*contd.*		(*a*) PRIMARY BUILDINGS—*contd.*	Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.

Circle.	Station.	Sergeant-Majors.	Instructors of gunnery.	Sergeant trumpeters.	Orderly-room sergeants.	Lieutenant-colonel's clerks.	Master-gunners.	Park sergeants.	Assistant orderly-room clerks.
Poona Circle.	Poona	...	...	...	1	...	...	...	2
	Kirkee	1	...	1	...	1	...	...	...
	Satara	...	...	...	...	...	...	...	...
	Ahmednagar	...	...	...	...	...	...	1	...
	Mhow	...	...	...	...	1	...	...	...
	Asirghar	...	...	...	...	...	...	...	...
	Neemuch	...	...	...	...	1	...	...	...
	Nasirabad	...	...	...	...	...	...	...	...
	Deesa	...	...	...					...
	Ahmedabad	...	...	...	...	...	...	...	...
	Kamptee	...	...	...	...	...	...	...	...
	Sitabuldee	...	...	...	...	...	...	1	...

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Authority.	Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
	1	BAND BARRACK (none authorized)	...	...	...	...	...	G. I., P. W. D., Cir. No. 69 of 1866.	Rules that no separate accommodation is required for the bands of head-quarters of royal artillery brigades.			
	2	BARRACKS FOR SINGLE RANK AND FILE.										
		(1) *For a battery of royal horse or light field artillery*	...	...	...	...	...	......	Accommodation is required for 142 single rank and file.			
		Three barracks, each for 2 sergeants and 48 men, each containing—										
		Two dormitories, each for 24 men, each	90	24	20	90	Each barrack 16,049, excluding steps.					
		One day-room	60	24	20	30						
		Quarter for each sergeant comprises—										
		One day-room	16	14	20	483½		M. D. No. 160 M. W. of 17th February 1882.	Approves of the type plans of single-storied barracks issued by the Military Works Department as future standards for single men in the plains.	...	4	R. A. Modified so as to provide for 48 rank and file
		One bed-room	16	11	20							
		One bath-room	$10\frac{7}{16}$	8	9½							
		Division store-room	$10\frac{7}{16}$	8	9½	...						
Royal Horse and Light Field Artillery—*contd.*								Q. M. G. in India's Cirs. Nos. 31 & 53 of 1883.	The wall spaces occupied by cots should be numbered serially, barrack by barrack. Tickets are not to be moveable.			
								G. I., P. W. D., Cir. No. 89 of 1864.	Two rows of beds only to be given in a ward; each bed to be 9 inches clear of the contiguous door; two beds only to be placed between two contiguous doors; verandahs to be 12 feet wide in the clear; each ward to accommodate not less than 16 nor more than 24 men; each man to have 7½ feet wall space; 90 square feet floor area in dormitories; and 1,800 cubic feet air space. Height to tie beam to be 20 feet.			
								G. I., P. W. D., letter No. 404 of 1876.	In all dormitories a width of 24 feet should be adhered to.			
								M. D. No. 190 M. W. of 22nd February 1880.	Superficial area in mess and recreation-rooms (*i. e.*, day-rooms) in single men's barracks in the plains to be 30 s. ft. per man.			
								G. I., P. W. D., Cir. No. 6 of 1867.	At all stations at which it may be considered that fires would prove comfortable during the cold season, a fire-place should be provided in each of the day-rooms of barracks for British soldiers.			
								G. I., P. W. D., Cir. No. 45 of 1867.	Flues are to be provided in walls of barracks; but no fire-places should be constructed till required. These places should be marked by a chimney piece as a guide to the executive engineers.			
								P. W. D. letter No. 1333 of 1874.	Sergeants' quarters in single men's barracks are to be placed at the ends of the barracks.			
								P. W. D. Cir. No. 21 of 1871.	Pillars of wood or stone to be substituted for masonry in verandah supports of barracks.			
								P. W. D. Cir. No. 51 of 1879.	A small store room, about 10 feet by 8 feet, to be provided in each barrack occupied by British troops for deposit of troop or company stores, the arms of men in hospital, &c.			
								P. W. D. Cir. No. 83 of 1879.	Pegs, shelves, and arm-racks are to be provided. These store rooms are to be arranged for by cutting off a portion of the verandah, the exact position varying to suit the design of the barrack; but it is always to be placed so as to interfere as little as possible with the ventilation and lighting of the barrack rooms.			
								P. W. D. Cir. No. 28 of 1869.	In lieu of almirahs (furniture), cup-boards (fixtures) with sliding shelves and folding doors are to be provided in the walls of all barracks.			

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Accommodation authorised for British Troops in the Plains—continued.

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail Orders, &c. Authority.	Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
Royal Horse and Light Field Artillery—*contd.*		(*a*) PRIMARY BUILDINGS—*contd.*						P. W. D. Cir. No. 63 of 1867.	Masonry jambs of doorways are not to be splayed.			
	2	BARRACKS FOR SINGLE RANK AND FILE—*contd.*						G. I., P. W. D., Cir. No. 105 of 1865.	In double-storied barracks when the lower floors are not intended to be used as dormitories, the height to wall-plate is to be only 16 feet; when both floors are to be used as dormitories, the height of each should be 20 feet.			
								P. W. D. letter No. 735 of 1872.	Ground floors of double-storied barracks may be used as dormitories at all stations in the Punjab (except in the Peshawar District) and at all stations in the Meerut and Oudh Divisions and in the Rohilkhund District. It is possible that the utilization of lower floors as dormitories may be extended to other stations; but for the present the measure may be considered as being confined to the places named.			
								G. I., P. W. D., Cir. No. 30 of 1870.	In double-storied barracks night closets in the upper floors are to be dispensed with; but sweeper's staircases are to be provided for the removal of urinals, which will be provided and placed in the verandahs, but not surrounded by any enclosure.			
								P. W. D. letter No. 1333 of 1874.	Staircases to upper floors of double-sotried barracks are to be in the back verandahs, not in the transepts.			
								P. W. D. Cir. No. 13 of 1867.	Floor girders, whether of wood or iron, to be calculated to sustain a minimum live-load of $1\frac{1}{2}$ cwt. per s. foot.			
									Standard plans	12 72 74 75		
	3	BARRACKS FOR MARRIED RANK AND FILE.										
		(I) *For a battery of royal horse or light field artillery* . .						G. I., M. D., letter No. 2164 M. W (Accommodation for Troops), dated 18th October 1887.	Accomodation is required for $\frac{4\times148}{100}$=5·92 or 6 married rank and file.			

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail Orders, &c. Authority.	Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
Royal Horse and Light Field Artillery—*contd.*		(i) One block of 3 quarters, 2 class I and 1 class III, according to type plan—										
		Each class I quarter consists of—										
		1 day and bed-room . .	16	14	$18\frac{4}{8}$	271	3,591, excluding steps.	......	......	...	5 A	R. A. modified so as to provide for 2 class I and 1 class III quarters.
		1 bath-room . . .	$7\frac{1}{2}$	$6\frac{1}{4}$	10							
		The class III quarter consists of—										
		1 day-room	18	16	$18\frac{5}{8}$	495						
		1 bed-room	16	10	$18\frac{5}{8}$							
		1 bath-room	$7\frac{1}{2}$	$6\frac{1}{4}$	10							
		(ii) One block for 3 class II quarters, according to type plan—										
		Each class II quarter consists of—					4,790, excluding steps.	......	......	...	5 B	R. A. modified so as to provide for 3 class II quarters.
		1 sitting room . . .	16	14	$18\frac{4}{8}$	411						
		1 bed-room	14	10	$18\frac{5}{8}$							
		1 bath-room . . .	$7\frac{1}{2}$	$6\frac{1}{4}$	10							
									Standard plans	9 10 12		
								P. W. D. Cir. No. 59 of 1874.	The quarters are to be provided in the following proportions:— Class I quarters at 30 per cent. of the strength of married rank and file. Class II quarters at 60 per cent. do. do. Class III quarters at 10 per cent. do. do.			
									This gives for a battery of royal horse or light field artillery— $\frac{6\times30}{100}$=1·80, say 2 quarters of class I. $\frac{6\times60}{100}$=3·60, say 3 quarters of class II. $\frac{6\times10}{100}$=0·60, say 1 quarter of class III. Total 6 quarters			
								P. W. D. Cir. No. 59 of 1874.	A class I quarter is to consist of— 1 room 16′×14′—224 s. ft. A class II quarter is to consist of— 1 room 16′×14′ } 364 s. ft. 1 „ 14′×10′ } A class III quarter is to consist of— 1 room 18′×16′ } 448 s. ft. 1 „ 16′×10′ }			
								P. W. D. Cir. No. 28 of 1870.	In addition to above, a small bath-room is to be attached to each quarter.			

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Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Detail of Orders, &c. Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet					
Royal Horse and Light Field Artillery—*contd.*		(*a*) PRIMARY BUILDINGS—*contd.*										
	3	BARRACKS FOR MARRIED RANK AND FILE—*contd.*										
								P. W. D. Cir. No. 89 of 1864.	As a rule, single-storied buildings are to be provided, well raised; the quarters are to be entirely separated from each other by partition walls running up to the roof; covered passages are to be provided between the barracks and out-offices, the ends of the former being disconnected from the latter by a clear interval of 10 feet. In the plains front verandahs to be 12' wide, back and end verandahs to be 10' wide. The sides of the covered passages to the out-offices are not to be enclosed in any way.			
								P. W. D. Cir. No. 38½ of 1870.	A proper supply of water is to be ensured for the bath-rooms of married men's barraks, and suitable arrangements should be made for carrying off the waste water (see P. W. D. Cir. No. 32 of 1870).			
								P. W. D. letter No. 1555 of 1875.	In all cases where the verandahs of married men's barracks are raised, wthout continuous steps, more than 2' above the level of the ground, railings are to be provided between the pillars. ——— When two or more batteries (irrespective of the branches of the arm to which they may belong) are quartered at the same station, there will be no objection to the construction of a block or blocks of family quarters common to all the batteries; provided that the aggregate number of quarters authorised for the several batteries is not exceeded, and the quarters are built in accordance with the orders given above as regards distribution into classes. This arrangement of course can only be carried out when the lines of the batteries are sufficiently close to each other.			

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Detail of Orders, &c. Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
Royal Horse and Light Field Artillery—*contd.*	4	QUARTERS FOR STAFF SERGEANTS AND SERGEANTS.										
		(1) *For a battery of royal horse or light field artillery.*										
		A block of quarters, in accordance with type plan, for 2 staff sergeants, class B, and 1 sergeant, class C—										
		Each class B quarter—										
		Sitting room	16	16	18	496	3,451, excluding steps.	...	... ...	...	7B 18A	R. A. B. I.
		Bed-room	16	10	18							
		Bath-room	10	8	10							
		Class C quarter—										
		Sitting room	14	14	18	444						
		Bed-room	14	10	18							
		Bath-room	10	8	10							
									The strength to be provided for (see page 1) is— 2 staff sergeants, class B. 7 sergeants, class C. Six out of the 7 class C men will be provided for in the 6 quarters for sergeants built at the ends of the 3 barracks for single rank and file,—see item 2, page 4. The remaining men, *viz.*:— 2 staff sergeants, class B, and 1 sergeant, class C, will be accommodated in a special block of quarters. If, however, suitable accommodation can be found in any of the following buildings (or in spare family quarters, &c.) for these sergeants, it will not be necessary to provide quarters for them in a special block:— i.—In the liquor bar portion of the regimental institute (liquor bar sergeant). ii.—In the library portion of the regimental institute (librarian). * iii.—In the refreshment portion of the regimental institute (caterer). iv.—In the officers' mess or adjoining building (caterer). v.—In the sergeants' mess (caterer). *The regulations provide for class C quarters in these buildings for the individual performing the duties of the liquor bar sergeant, librarian or caterer, as the case may be, and these posts (specially that of liquor bar sergeant) are sometimes held by class C sergeants.			

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.: Authority.	Detail of Orders, &c.: Particulars.	Standard plan.	Type plan.	
										No.	No.	Series.
			feet.	feet.	feet.	Supl. ft.	Supl. ft.					
		(*a*) PRIMARY BUILDINGS—*contd.*										
	4	QUARTERS FOR STAFF SERGEANTS AND SERGEANTS—*contd.* (1) *For a battery of royal horse or light field artillery*—contd.										
									As in the case of barracks for married rank and file (see item 3), there is no objection to the staff sergeants of two or more batteries being housed in a block or blocks common to all the batteries at the station. Battery staff sergeants may also be housed in the same block or blocks as are occupied by the staff sergeants attached to royal artillery district head-quarters,—see item 5. If spare family quarters, &c., are available for the accommodation of staff sergeants (whether belonging to the battery or royal artillery district head-quarters staff), then it will not be necessary to construct special quarters for these men.			
								P. W. D. Cir. No. 6 of 1867.	Fire-places are to be provided in staff sergeants' quarters where considered necessary.			
								P. W. D. Cir. No. 46 of 1865.	Forwards standard plans of staff sergeants' quarters.	78		
								P. W. D. Cir. No. 18 of 1867.	No out-offices are to be provided beyond the cook-houses and latrines shewn on the standard plans.			
	5	QUARTERS FOR THE WARRANT OFFICERS AND STAFF SERGEANTS ATTACHED TO ROYAL ARTILLERY DISTRICT HEAD-QUARTERS.	...	...	...	...	...	Special I. A. Cir., dated 1st March 1890.	The staff to be provided for comprises— *Warrant officers.* 1st class master-gunners. 2nd " " " Sergeants-major, class A. Schoolmasters, class A. Schoolmistresses, class A. *Staff sergeants.* 3rd class master-gunner, class B. Instructors of gunnery, class B. Orderly-room sergeants, class B. Sergeant trumpeters, class B. Lieut.-colonel's clerks, class B. Park sergeants, class B. For the strength authorised for the different stations, see pages 2 to 4.			
		istrict sergeant- ordance with type	...	...	...	...	...	P. W. D. Cir. No. 17 of 1866.	The sergeant-major is to receive quarters on the class A scale and in a detached building.			
		g room bed-room, each 2 bath-rooms, each	16 16 10	16 10 8	18 18 10	736	1,761	......	......	...	17	B. I.
								P. W. D. Cir. No. 6 of 1867. P. W. D. Cir. No. 18 of 1867.	Fire-places are to be provided if considered necessary. No out-offices are to be provided beyond the cook-house and latrine.			
		Quarters for the schoolmaster, same as for the sergeant-major.	...	...	...	736	1,761	P. W. D. letter No. 250 of 1875.	Accommodation authorised for a sergeant-major should be provided for a schoolmaster or schoolmistress.	...	17	B. I.
		Quarters for the schoolmistress, same as for the sergeant-major.	...	...	...	735	1,761	Do.	Ditto.	...	17	B. I.
								P. W. D. letter Nos. 93-100 of 1874.	A trained schoolmaster and a trained schoolmistress are allowed to the divisional or district royal artillery staff, or to a command of two or more batteries.			
								P. W. D. Cir. No. 17 of 1866.	The schoolmasters and schoolmistresses are each to receive quarters on the class A scale and in detached buildings.			
								P. W. D. Cir. No. 63 of 1874.	Quarters for schoolmaster and schoolmistress are to be in separate blocks and, if possible, attached to their respective schools. The quarters for the schoolmaster and schoolmistress may be under the same roofs as their respective schools,—see type plan 71 A, B. I. series.			
		Quarters for— (I)—Instructors of gunnery, class B. (II)—Sergeant trumpeters, class B (III)—3rd class master-gunners, class B. (IV)—Orderly-room sergeants, class B. (V)—Lieut.-Colonels' clerks, class B.						I. G. of Mily. Works' Cir. No. 11A, of 1887.	One detached class A quarter is to be specially marked off for the sergeant-major, the remaining quarters of this class should be numbered serially.			

6/6

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. — Authority.	Detail of Orders, &c. — Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
Horse and Light Field Artillery—*contd.*		(*a*) PRIMARY BUILDINGS—*concld.*										
	5	QUARTERS FOR THE WARRANT OFFICERS AND STAFF SERGEANTS ATTACHED TO ROYAL ARTILLERY DISTRICT HEAD-QUARTERS—*contd.*										
		(VI)—Park sergeants, class B.	...	...	...	...	...	P. W. D. Cir. No. 15 P. W. of 1881.	When suitable quarters can be found in the lines of regiments or batteries, or in other public buildings, sufficiently convenient with reference to their duties, there is no occasion to construct special accommodation for park sergeants; but in cases where new quarters have to be built, they should be provided on the scale authorised for non-commissioned officers of class II in the Royal Warrant of 1st July 1881, page 248.			
								M. D. Cir. No. 2 M. W. of 1882.	Park sergeants are to receive class B quarters.			
		Quarters to be given in accordance with type plan	...	...	...					...	7A 7B	R.A.
		Each class B quarter to consist of—									18A	B. I.
		1 sitting room . . .	16	16	18	496						
		1 bed-room . . .	16	10	18							
		1 bath-room . . .	10	8	10							
									NOTE 1.—But see remarks against item 4. For the number and classes of quarters that will be required at the different stations, see pages 2 to 4. NOTE 2.—1st and 2nd class master-gunners rank as conductors and sub-conductors, respectively,—see clause 63 of I. A. Circulars for 1887.			

Royal Horse and Light Field Artillery—*contd.*		(*b*) AUXILIARY BUILDINGS.										
	6	BLACKSMITH'S FORGE AND SHOEING SHED.										
		(*i*) *For a battery of royal horse or light field artillery.*										
		Forge room	30	20	16		1,826	P. W. D. Cir. No. 36 of 1864.	For mounted branches only. The forge and shoeing shed should be centrically situated as regards the stables.			
		Store room	20	8	16			P. W. D. Cir. No. 29 of 1861.	Forwards standard plan	80		
		Shoeing shed	41	15	10			P. W. D. Cir. No. 53 of 1868.	Bonnets, flues or other suitable means to be provided for carrying off smoke.			
								P. W. D. letter No. 864 M.W. of 28th October 1881.	Anvil blocks in shoeing sheds are to be supplied as fixtures by the Military Works Department.			
	7	BOILING HOUSE AND GRAIN STORE FOR THE VETERINARY HOSPITAL.										
		(*i*) *For a battery of royal horse or light field artillery.*										
		1 room for boiling . . .	8	8	8¼		210	......	......	...	20	R. A.
		1 room for storing grain . .	8	8	8¼			P. W. D. Cir. No. 98 of 1866.	To be a detached building constructed near the surgery.			
								M. D. No. 1666 M. W. of 23rd October 1884.	Approves type plan . . . . . . NOTE.—The details given are what Government approved for the old system of corps hospitals. G. O. No. 29 of 30th April 1886 directs the substitution of station veterinary hospitals,—see item 40.			
	8	BOWLING ALLEY	...	...	...	...	...	M. D. No. 1030 M. W. of 27th October 1882.	Says a bowling alley is not to be provided for a battery of artillery.	31		
	9	CARPENTER'S AND COLLAR-MAKER'S WORKSHOPS.										
		(*i*) *For a battery of royal horse or light field artillery.*										
		Carpenter's shop	30	20	16		3,159	P. W. D. Cir. No. 2 of 1873.	Forwards standard plan	81 83		
		Collar-maker's shop . . .	30	20	16							
	10	CRICKET GROUND . . .	...	...	...	...	...	P. W. D. Cir. No. 22 of 1866.	Cost of turfing and railing in of cricket grounds for British troops is to be disbursed by the Public Works Department.			
								M. D. Cir. No. 6 M. W. of 1882. Para. 266 of the Bengal Barrack Regulations.	Cricket grounds for British troops once made at a station are to be maintained by the soldiers of the regiment or battery using them for the time being. This order does not apply to the surrounding railings which will be repaired at the expense of the State.			

6.16/7

Accommodation authorised for British Troops in the Plains—continued.

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. — Authority.	Detail of Orders, &c. — Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
Royal Horse and Light Field Artillery—*contd.*		(*i*) AUXILIARY BUILDINGS—*contd.*										
	10	CRICKET GROUND—*contd.*							There is no authority for providing a cricket ground for a battery of royal artillery. P. W. D. Cir. No. 11 of 1865 authorises the provision of a cricket ground for a battalion of British infantry or a regiment of British cavalry, but does not mention royal artillery.			
	11	DRY-EARTH SHED.										
		1 shed for each battery of royal artillery.						P. W. D. letter No. 218; B. M. of 20th December 1873.	Directs general introduction of the dry-earth system of conservancy by British corps serving in the Bengal presidency. At all stations in the plains from Allahabad inclusive to Calcutta, and to every hill cantonment, drying apparatus and buildings to store the dried earth are to be provided in following proportions:— One store shed (dimensions not laid down) with drying apparatus for each battery of artillery or wing of a British regiment. At stations above Allahabad no drying apparatus even in the rainy season is essential, and store sheds are only necessary where the latrines are unprovided with back passages, and where not so provided, sheds of an inexpensive description, such as a lean to tiled roof against the rear walls of latrines, would suffice.			
	12	DRY STORE ROOM.										
		(*i*) *For a battery of royal horse or light field artillery.*										
		1 room	12	12	12	...	240	P. W. D. Cir. No. 54 of 1863.	Accommodation for 15 days' supply of dry stores is to be provided, where possible, by enclosing part of verandah of canteen or regimental store room. A detached building for the purpose on the standard plan is only to be constructed when no suitable accommodation can be provided in any existing building or by an addition to some such building.	26		
								I. A. R., Vol. V, para. 719.	Windows should be grated and doors should be double-locked. NOTE.—Type plans of regimental store rooms provide			
Royal Horse and Light Field Artillery—*contd.*	13	FIRE-ENGINE SHED.										
		(*i*) *For a battery of royal horse or light field artillery.*						P. W. D. Cir. No. 46 of 1871.	Forwards standard plan of gun-shed on which is enfaced a remark that "in the case of light field batteries one of the openings is intended for the fire-engines." The type plan of gun-shed (which supersedes the abovementioned standard plan) makes no provision for the storage of a fire-engine, so a separate shed will have to be built for the fire-engine in those cases where the gun-sheds are either on type plan or not in accordance with the old standard plan.	29		
		Type plan shed . . .	24	13	8	...	416	......	Type plan of fire-engine shed—		48	B. I.
								I. A. R., Vol. III, Equipment, Part II, Section VII, Table V; also Appendix F of B. B. Regns.	One fire-engine is allowed— 1. per battery of artillery having thatched stables. 2. per out-station when British troops are located in thatched barracks. 3. per two or more batteries of artillery at one station, irrespective of the material with which the stables are roofed.			
								Para. 586 of B. B. Regns.	Fire-engine sheds are to be built either near the quarter-guard or near the stables. (See also General Orders.)			
	14	FIVES COURT	...	...	...	...	...	P. W. D. Cir. No. 53 of 1866.	Galleries for soldiers in fives courts in the plains are not necessary.			
		(*i*) *For a battery of royal horse or light field artillery.*										
		2 ball courts, each . . . 2 fives courts, each . . .	45 45	30 42½	... ...	... ...	} 7,051	P. W. D. Cir. No. 42 of 1875.	Forwards revised standard plan . . .	32		
								P. W. D. Cir. No. 46 of 1876.	Modifies standard plan in that a second ball court is to be given in lieu of the racquet court shewn therein.			
								P. W. D. Cir. No. 52 of 1876.	Papers regarding a cheap facing for walls of fives court.			
								P. W. D. letter No. 490 M. W. of 9th October 1880.	No new ball or fives courts are to be built at stations where any already exist, without special reference to the Government of India. Fives courts and ball courts are not now usually built for troops.			
	15	FURNITURE STORE.										
		(*i*) *For a battery of royal horse or light field artillery.*										
		1 open shed . . . . 1 store room . . . . 1 chowkeedar's hut . . .	25 15 10	15 10 10	... ...	... ...	} 712 179	P. W. D. C[illegible]o. 31 of 1865.	Lays down scale of accommodoation to be provided. The store rooms are to be fitted with doors and locks. Pegs and shelves to be fitted to the walls for musketry implements.			

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet,	Supl ft.	Supl. feet.			No.	No.	Series.
Royal Horse and Light Field Artillery—*contd.*		(*b*) AUXILIARY BUILDINGS—*contd.*										
	15	FURNITURE STORE—*contd.*										
		(*i*) *For a battery of royal horse or light field artillery*—contd.										
		Barrack-master's office . .	...	...	...	...	...		Separate store rooms are not necessary when two or more units are at one station. The several buildings should form an enclosure, leaving an open space in the centre and having one entrance only. A chowkeedar's *hut* 10'×10' may be provided at the entrance gate, and a small office for barrack-master may also be provided on the premises.			
								P. W. D. Cir. No. 33 1867.	Shelter of an inexpensive nature is to be provided at stations where there may be more surplus ambulances in store than can be accommodated in the barrack-master's godown, or can be transferred for use to other cantonments.			
	16	GUN-SHED.										
		(*i*) *For a battery of royal horse or light field artillery.*										
		(*a*) *On peace footing.*										
		1 Gun-shed	74	47	10	...	} 4,712	M. D. letter No. 915 M. W. (*Accommodation for Troops*), dated 14th May 1889.	Government approve the type plan for gun-sheds.	...	24C	R. A.
		1 Gun park store room . .	47½	12	10	...			The type plan provides for— 17 carriages for a royal horse artillery battery. { 6 gun carriages. 6 limbers. 2 store and ammunition wagons. 1 forge wagon. 1 store cart. 1 spare gun carriage. 16 carriages for a light field battery. { Same as for royal horse artillery, omitting the spare gun carriage. The carriages are parked 2 deep, except in the case of royal horse artillery batteries, in which three carriages are to be put in the bay next the store room, parked in the following order:— 1st—At end furthest from door, spare gun carriage with limber run over trail. 2nd—store limber wagon, W. I., R. A., limbered up. 3rd—store cart nearest door as it is often required for use.			
		(*b*) *On war footing.*										
		Same as for a battery on peace footing	...	...	...	...	...	Clause 160 of I. A. Cirs. for 1887.	11 Batteries will be maintained on a war footing and will be located at the following stations, *viz.*:— *Royal horse artillery.* Umballa . . . . . . 1 Meerut . . . . . . 1 Kirkee . . . . . . 1 Bangalore . . . . . . 1 Total . 4 *Light field artillery.* Hyderabad (Sind) . . . . 1 Karachi . . . . . . 1 Multan . . . . . . 1 Ahmednagar . . . . . 1 Neemuch . . . . . . 1 Kirkee . . . . . . 1 Bangalore . . . . . . 1 Total 7			
								Clause 160 of I. A. Cirs. for 1887.	11 Units of reserve ammunition wagons will be kept up at the undermentioned stations:—			
								Clause 49 of I. A. Cirs. for 1890.	At Meean Meer . 4 units=24 wagons, 1 forge wagon, 1 spare wagon, and 1 spare gun carriage. At Ferozepore . 2 units=12 wagons, 1 forge wagon, 1 spare wagon, and 1 spare gun carriage. At Jullunder . 2 units=12 wagons. At Multan . 2 ,, =12 ,, At Sialkot . . 1 ,, = 6 ,, These units are to be attached as follows:— At Meean Meer . to the 2 light field batteries. At Jullunder . to the light field battery. At Ferozepore . Ditto ditto. At Mooltan . Ditto ditto. At Sialkot . . to the royal horse artillery battery.			

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.				
								Authority.	Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No	Series.
Royal Horse and Light Field Artillery—*contd.*		(*b*) AUXILIARY BUILDINGS—*contd.*										
	16	GUN-SHED—*contd.*										
		(*i*) *For a battery of royal horse or light field artillery—contd.*										
									An extra bay of gun-shed accommodation should be provided for every 3 reserve wagons, forge wagons, or gun carriages.			
									The store room shewn on the type plan of gun-shed is only meant for stores belonging to the gun park.			
	17	GYMNASIUM	...	...	...	...	...	P. W. D. Cir. No. 24 of 1875 and its accompaniments.	"In connection with the provision of separate gymnasia at stations where lower floor accommodation is not available for the purpose," Government of India, Military Department, rule "that except in very exceptional cases one gymnasium will suffice for the troops at a station."			
									It is not considered "desirable to provide a number of detached gymnasia at all places where more than one arm of the service may be located, and His Excellency the Commander-in-Chief would suggest that the requirements of each station should be considered separately, with special reference to the manner in which the different lines may be situated with respect to each other, and the possibility of constructing a gymnasium in a position sufficiently centrical to admit of its being conveniently used by the entire garrison.			
									"If this can be arranged for, a single gymnasium might in most cases suffice, irrespective of the strength of the garrison, but where this is not feasible and the cantonment is straggling, the necessity for detached gymnasia will, it is believed, be inevitable."			
									The number of 1st class gymnasia already built (1 at Lucknow and 1 at Umballa) is considered sufficient.			
Royal Horse and Light Field Artillery—*contd.*									Forwards a standard plan shewing the size of the building to be provided as a gymnasium in cases where accommodation cannot be set apart for the purpose in the lower floors of double-storied barracks.	60		
									This standard plan (without any reduction of space) is applicable to the following units:— i.—Two or more batteries of royal artillery. ii.—A wing of a regiment. iii.—A regiment.			
								P. W. D. Cir. No. 41 of 1876.	Modifies standard plan in that the height of school of arms and of soldiers' dressing room is to be reduced to 15' 9".			
								M. D. letter No. 648 of 1876.	Bar bell stands to be fixtures. For dumb bells slips of wood nailed to the floor are sufficient.	See book of S. plans of gymnastic apparatus, edition, 1888.		
								I. G., M. W.'s Cir. No. 1 B. of 1890.	Corrigendum in book of S. plans of gymnastic apparatus.			
								P. W. D. letter No. 94 of 1877.	Expensive gymnasia are only to be built at a few central stations. Advises encouragement being given to regiments and batteries by the issue of gymnastic stores to be used in vacant barrack rooms, in sheds or in the open air. All articles, such as ropes, likely to deteriorate by exposure to wet, to be fitted so as to admit of removal during rainy weather."	57		
								Qr. Mr. Genl's. letter No. 1467 B. of 10th May 1880.	A gymnasium on the standard plan issued with Public Works Department circular No. 24 of 1875 is to be provided only at Agra, Bareilly, Cawnpore, Dinapore, Ferozepore, Fyzabad, Mooltan, Rawalpindi, Roorkee, and Muttra.	60		
								P. W. D. letter No. 354 M. W., dated 1st May 1877.	Scale of apparatus considered sufficient for a regimental open air gymnasia is— A great cross-beam, 18' high from ground to underside of cross beam; cross-beam to be 12' long between uprights. A planting pole, 3" dr., } A planting ladder. } slope against the outer faces of the two uprights, one against each upright. A trapeze. A pair of rings. A rope, vertical.			
								P. W. D. letter No. 512 M. W., dated 1st June 1877.	Open air gymnasia are to be provided for single batteries of royal artillery at stations where there are no regimental gymnasia.			

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.					
		(b) AUXILIARY BUILDINGS—*contd.*										
	17	GYMNASIUM—*contd.*							Standard plans for gymnasia in lower floors of double-storied barracks.	58		
								P. W. D. Cir. No. 38 of 1867.	When a gymnasium is provided in the lower floor of a double-storied barrack, the height of the plinth is to be reduced so as to make height of gymnasium 18½'.			
	18	HARNESS ROOMS.										
		(i) For a battery of royal horse artillery.										
		3 Harness rooms, each	40	20	16	...	7,434	P. W. D. Cir. No. 2 of 1873.	Forwards standard plan for royal horse and light field batteries. Harness racks are to be fixed to a wooden frame firmly secured to the walls by iron bolts.	83		
		2 Store rooms, each	20	12	16	...						
								P. W. D. letter No. 1729 of 1874.	Harness rooms are not to be accommodated in the lower floors of double-storied barracks.			
		(ii) For a battery of light field artillery.										
		2 Harness rooms, each	40	20	16	...	4,774					
		1 Store room	20	12	16	...						
								P. W. D. letter No. 952-63 of 1876.	Forwards design of a new pattern harness rack.	89		
								P. W. D. letter No. 1557-63 of 1878.	Lays down scale of harness racks as follows:—			

	Battery of Royal horse.	Battery of Light field.
(i) Wall racks, *i.e.*, racks 5½' from the ground, for harness	98	90
(ii) Standing racks, *i.e.*, racks 3' 9" from the ground, for appointments	70	20
(iii) Standing racks, *i.e.*, racks 3' 9" from the ground, for riding school gear	2	2

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
	19	INSTITUTE	...	...	...	...	...	Despatch from the S of S., No. 205 (Military), dated 31st October 1889.	The Secretary of State approves the latest proposals put forward by Government as regards space to be given in institutes for royal horse artillery and light field artillery.			
		(i) For 4 batteries of royal horse or light field artillery, 592 rank and file.	...	...	...	...	...		For 4 batteries of royal horse or light field artillery, the areas, exclusive of space taken up in outer and single verandahs, allowed are for— S. ft. (a) Liquor bar portion . . . 2,086 (b) Library " . . . 1,374 (c) Refreshment and recreation portion . . . 5,262 TOTAL . 8,722 This is exclusive of bath-rooms.		67	B. I. modified to suit.
		(a) Liquor bar portion.										
		Private's room	30	24	20							
		Bar or issue room	10	24	20							
		Beer store	16	24	20							
		Corporal's room	24	24	20	...	6,720					
		Sergeant's quarter { sitting room	16	14	20							
		Sergeant's quarter { bed "	16	8½	20							
		Sergeant's quarter { bath "										
		Sergeant's quarter { in verandah	10	8	9½							
		(b) Library portion.										
		Book room	12	24	20							
		Reading room	30	24	20							
		Librarian's quarter { sitting room	16	14	20	...	4,568					
		Librarian's quarter { bed "	16	8½	20							
		Librarian's quarter { bath "										
		Librarian's quarter { in verandah	10	8	9½							
		(c) Recreation and refreshment portion.										
		Temperance room	30	24	20							
		Billiard room	28	24	20							
		Games "	30	24	20							
		* Theatre	50	24	20							
		* Refreshment or supper room	50	24	20	...	13,388	......	* The theatre and supper room might be thrown into one.			
		Refreshment, issue and store rooms	16	24	20							
		Caterer's quarter { sitting room	16	14	20							
		Caterer's quarter { bed "	16	8⅞	20							
		Caterer's quarter { bath "										
		Caterer's quarter { in verandah	10	8	9½							

6/6
11

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Authority.	Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
		(b) AUXILIARY BUILDINGS—*contd.*	Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.					
	19	INSTITUTE—*contd.*										
		(ii) *For 3 batteries of royal horse or light field artillery, 444 rank and file.*	...	...	...				For 3 batteries of royal horse or light field artillery, the areas (exclusive of space taken up in single and outer verandahs) allowed are for— S. ft. (a) Liquor bar portion . . 1,926 (b) Library „ . . 1,086 (c) Recreation and refreshment portion . . . . 4,014 TOTAL . 7,026 This is exclusive of bath-rooms.			
		(a) *Liquor bar portion.*										
		Private's room	27	24	20	...	5.932					
		Bar or issue room . . .	10	24	20							
		Beer store	14	24	20							
		Corporal's room . . .	14	24	20							
		Sergeant's quarter sitting room	16	14	20							
		bed „	16	8⅞	20							
		bath „										
		in verandah	10	8	9½							
		(b) *Library portion.*										
		Book room	10	24	20	...	3.937					
		Reading room	20	24	20							
		Librarian's quarter sitting room	16	14	20							
		bed „	16	8⅞	20							
		bath „										
		in verandah	10	8	9½							
		(c) *Recreation and refreshment portion.*										
		Temperance room . . .	27	24	20	...	10,579					
		Billiard „ . . .	28	24								
		Games „ . . .	25	24								
		Theatre	60	24								
		Refreshment or supper room .										
		Refreshment, issue and store rooms	12	24								
		Caterer's quarter . sitting room	16	14								
		bed „	16	8⅞								
		bath „										
		in verandah	10	8	9½							
		(iii) *For 2 batteries of royal horse or light field artillery, 296 rank and file.*	...	...	...	...	...	......	For 2 batteries of royal horse or light field artillery, the areas (exclusive of space taken up in single and outer verandahs) allowed are for— S. ft. (a) Liquor bar portion . . 1,176 (b) Library „ . . 894 (c) Refreshment and recreation portion . . . 3,198 TOTAL . 5,268 This is exclusive of bath-rooms.			
		(a) *Liquor bar portion.*										
		Private's room	23	24	20	...	4.095					
		Bar or issue room . . .	14	24								
		Beer store										
		Corporal's room	12	24								
		(b) *Library portion.*										
		Book room	10	24	20	...	3.517					
		Reading room	11	24								
		Librarian's quarter . sitting room	16	14								
		bed „	16	8⅞								
		bath „										
		in verandah	10	8	9½							
		(c) *Recreation and refreshment portion.*										
		Temperance room . . .	23	24	20	...	8,794					
		Billiard „ . . .	28	24								
		Games „ . . .	20	24								
		Theatre	36	24								
		Refreshment or supper room .										
		Refreshment, issue and store rooms	11	24								
		Caterer's quarter . sitting room	16	14								
		bed „	16	8½								
		bath „										
		in verandah	10	8	9½							
		(iv) *For a battery of royal horse or light field artillery, 148 rank and file.*	...	...	...	...	...	......	For a battery of royal horse or light field artillery, the areas (exclusive of space taken up in single and outer verandahs) allowed are for— s. ft. (a) Liquor bar portion . . 786 (b) Library „ . . 659 (c) Recreation and refreshment portion . . 2,249 TOTAL . 3,694 This is exclusive of bath-rooms.			
		(a) Liquor bar portion—										
		Private's room . . .	14	24	20	...	3,229					
		Bar or issue room . .	20	12								
		Beer store . .										
		Corporal's room . . .	20	10½								
		(b) Library portion—										
		Book room	13	10½	20	...	2,966					
		Reading room	13	12								
		Librarian's quarter. sitting room .	16	14								
		bed „ .	16	8⅞								
		bath „										
		in verandah .	10	8	9½							

Accommodation authorised for British Troops in the Plains—continued.

Arm of the service, Department, &c.	Item Number.	DETAILS.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	DETAIL OF ORDERS, &C.				
								Authority.	PARTICULARS.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
Royal Horse and Light Field Artillery—*contd.*		(*b*) AUXILIARY BUILDINGS—*contd.*										
	19	INSTITUTE—*contd.*										
		(*iv*) *For a battery of royal horse or light field artillery, 148 rank and file*—contd.										
		(*c*) Recreation and refreshment portion—										
		Temperance room	14	24	20	...	6,668					
		Billiard ,,	28	24								
		Theatre ,, Refreshment or supper room	28	24								
		Refreshment, issue and store rooms.	9 9	12 10½								
		Caterer's quarter. sitting room	16	14								
		Caterer's quarter. bed ,,	16	8⅛								
		Caterer's quarter. bath ,, in verandah	10	8	9½							
									The scales do not include subsidiary buildings. These must be separately provided for. No account is taken of accommodation which is usually or can be provided by enclosing portions of outer verandahs, *e. g.*, the small store room of a canteen.			
								G. of I., M. D., letter No. 1927 M. W., (Accommodation for Troops), dated 23rd September 1889.	As regards the inner verandah space of barracks with double verandahs, Government say that "the inner verandah space shall usually be reckoned as a part of the area admitted; any special case might be considered on its own merits."			
								G. of I., M. D., letter No. 31 M. W., Accommodation for Troops / Europeans, dated 6th January 1890.	The theatre room is also intended to be used for such regimental purposes as fencing, band practice and lectures, besides theatricals. In all cases of new construction the liquor bar portion of the institute is to be provided for in a building by itself; this should also be provided for in the case of re-appropriations wherever practicable.			
								P. W. D. letter No. 583 M. W., dated 22nd September 1880.	Negatives proposal to provide beer cellars in liquor bar.			
Royal Horse and Light Field Artillery—*contd.*	20	LINES	...	...	...	...	...	P. W. D. Cir. No. 2 of 1867.	Forwards block plans of lines for 1 and for 2 batteries and head-quarters of a brigade, light field artillery.	71 73		
	21	LINES OF FOLLOWERS	...	...	...	...	...	P. W. D. Cir. No. 74 of 1879. See also paras. 106 and 106A of B. B. Regns.	When the lines of mustered followers of British cavalry regiments and batteries of royal artillery are vacant and are found to require repairs, the officer commanding the station shall call upon the executive engineer to carry them out, the funds required for the purpose being obtained from the pay department supported by the executive engineer's receipted bills, and countersigned by the officer commanding the station, the money so expended being deducted from the hutting allowance of the corps next occupying the lines.			
	22	MAGAZINE FOR A BATTERY OF ROYAL HORSE OR LIGHT FIELD ARTILLERY.	...	...	...	...	400	P. W. D. Cir. No. 55 of 1863.	New magazines are not to be constructed where existing buildings can be adapted at a moderate cost.			
								P. W. D. Cir. No. 97 of 1865.	An expense magazine, 14′ square and 14′ high, of solid masonry, with domed roof, and provided with a lightning-conductor, is authorized for each light or heavy field battery of artillery, in addition to the store room attached to the gun-shed. In stations where two or more batteries are located one building should suffice as a rule, separate compartments of the above dimensions being provided for the several batteries. The building should have a portico to the front with side openings for the sentry.	...	60A to 60G	B. I. modified to suit.
								I. A. R., Vol. III, para. 11, of Appendix XIII.	"No tubes, fuze, quick or slow match, lights, rockets, primers, or other combustible stores will be kept in any magazine or cartridge store, nor admitted within the enclosure of a magazine where gunpowder is stored. Tubes, fuzes and all the articles abovenamed will be kept in the shell or side-arm stores" (see also para 216 of the same regulations). In accordance with the above, it will be necessary to provide the authorized space of (14 × 14) 196 s. ft. in two compartments,—one for powder, the other for fuzes, &c.			
								Defence Committee's Cr. No. 10 of 1888.	It is unnecessary to provide wall battens or wooden floors when the cartridges are stored in zinc cylinders, metal cases or metal-lined cases.			
								P. W. D. Cir. No. 48 of 1874.	Enclosure walls to be provided for all magazines for British troops.	...	61	B. I.
								P. W. D. letter No. 1623 of 1873.	Copper fastenings to be given to door in enclosure wall.			
								P. W. D. letter No. 120 of 1876.	Provision of enclosure walls round magazines not built on standard plan to be regulated by circumstances prevailing at the locality concerned.			

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of buildings.	Detail of Orders, &c. — Authority.	Detail of Orders, &c. — Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
Royal Horse and Light Field Artillery—*contd.*		*(b)* AUXILIARY BUILDINGS—*contd.*										
	22	MAGAZINE FOR A BATTERY OF ROYAL HORSE OR LIGHT FIELD ARTILLERY—*contd.*										
								P. W. D. Cir. No. 31 of 1881 and clause 223 of I. A. Cir. for 1881.	Powder barrels should be stored in magazines in stacks limited to 5 barrels in depth, each tier containing 3 rows of barrels. The passage between the stacks never to be less than 3' 0" in clear width; but in new structures passages of not less than 3' 6" in width should be arranged for. In very damp climates the barrels should be placed on stacks in single tiers.			
								Para. 10 of Appendix XII, I. A. R., vol. III.	"Barrels, cylinders, and cases will be placed so that the air may circulate freely about them; they should therefore not be in contact with the masonry of the building."			
								Para 10 of memo. in Appendix XIII of I. A. R., vol. III.	"The ventilators of magazines should, in all cases, be constructed so as to exclude or admit the external air at discretion."			
								Para. 12 of Appendix XIII of I. A. R., vol. III.	"Small-arm ammunition, which contains, or is packed with, its own means of ignition, as in the case of B. L. and M. L. ammunition, respectively, will not be stored in the same compartment with gunpowder, whether the latter is loose or in filled cartridges."* * "When it may be necessary to place barrels containing gunpowder in the same compartments of the magazine of a regiment in which B. L. small-arm ammunition is stored, the barrels will be protected with the felt covers detailed in the list of magazine stores, &c."			
								Clause 59 of I. A. Cirs. 1886.	Rules for packing and storing gun cotton.			
	23	NIGHT PICQUET GUARD-ROOM.										
		(i) For the stables of a battery of royal horse or light field artillery.										
		Guard-room . . .							Battery of artillery—one non-commissioned officer and three men. When two or more batteries are located at the same station, the extent of accommodation may be rather less in proportion than the above detail for a single battery.			
								P. W. D. Cir. No. 42 of 1869.	Accommodation for night stable picquets to be in a separate building, each man to have 7½ running feet in a building, 18 feet wide and 15 feet high to wall plate, but without any verandahs.			
Royal Horse and Light Field Artillery—*contd.*	24	ORDERLY AND COURT-MARTIAL ROOM.										
		(i) For royal artillery district head-quarters.										
		1 room	24	21	16		4,590	P. W. D. letter No. 1159 of 1878. P. W. D. letter No. 1254 of 1879.	At stations where officers' mess-houses have been provided and are conveniently situated, court-martial and officers' rooms will not, as a rule, be required. In that case the orderly room is to be in same building as the pay office.		45	B. I.
		1 "	21	12	16							
		Adjutant's office . . .	24	21½	16							
		" " . . .	21½	12	16							
									NOTE.—No scale is laid down for artillery. The details given are what the Government of India considered sufficient for the purpose in allotting to auxiliary services the lower floors of double-storied barracks, *vide* plans issued with Public Works Department circulars— No. 2 of 1867 for royal horse and light field batteries and divisional head-quarters. No. 46 of 1868 for garrison battery. The plinth areas in each case are for buildings providing the accommodation shown with a 12 verandah in front and rear and at one end.			
		(ii) For a battery of royal horse or light field artillery.										
		1 room	24	21	16		2,655	P. W. D. Cir. No. 60 of 1867.	At all stations at which it may be considered that fires would prove comfortable during the cold season, fire-places should be provided in orderly and court-martial rooms and in rooms for officers on duty.			
		1 "	21	12	16							
		(iii) For 2 batteries of royal horse or light field artillery.										
		2 rooms each . . .	24	21	16		3,876				45	B. I.
		2 "	15	12	16							
	25	PARADE-GROUND . . .	...	...	...	...	"	G. of I., M. D., letter No. 2376 M. W. (Accounts), dated 24th November 1887.	Charges on account of the formation of parade-grounds are to be debited to the grant for military works.			

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Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. — Authority.	Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.	Supl. ft.	Supl. ft.			No.	No.	Series.
Royal Horse and Light Field Artillery—*contd.*		(*b*) AUXILIARY BUILDINGS—*contd.*										
	25	PARADE-GROUND—*contd.*										
								P. W. D. Cir. No. 5 of 1878.	General or brigade parade-grounds are to be repaired by the Military Works Department; regimental parade-grounds are to be repaired by regimental agency, except when, in consequence of the extensive nature of the repairs required, the officer commanding the station considers it necessary to sanction a requisition on the Public Works Department, or the cantonment fund can assist.			
								G. of I., M. D., letter No. 360 M. W. (Accounts), dated 25th February 1889.	Only under exceptional circumstances should the agency of the Military Works or Public Works Department be called in for the repair of either general, brigade or regimental parade-grounds. But where such work has to be done by the Military Works or Public Works Department, the cost will be finally charged off in the accounts of the department in which the expenditure is incurred.			
	26	PAY OFFICE.										
		Not authorised.										
	27	PLUNGE-BATH.										
		(*i*) *For a battery of royal horse or light field artillery.*										
		One bath	50	20	10½	...	1,191	......	......	...	63	B. I.
								P. W. D. Cir. No. 2 of 1867.	One bath to be provided for each battery.			
								P. W. D. Cir. No. 48 of 1867.	Pegs for hanging caps and clothes to be provided in walls round dressing platforms of baths.			
								P. W. D. Cir. No. 20 of 1872.	Water to be admitted from below, to flow over above, instead of from above, with the only escape at the bottom.			
								P. W. D. Cir. No. 66 of 1874.	In baths for artillery the water area to be 30' x 14'.			
Royal Horse and Light Field Artillery—*contd.*								M. D. Cir. No. 7 M. W. of 1882.	A urinary, which may be a "Jenning's patent," is to be provided and screened off in a corner of the bath platform, with a pipe leading through the wall into a receptacle outside. See Item 47, V.			
	28	QUARTER-GUARD AND CELLS	...	...	...	...	...	......	Type plan	...	64A to 64D.	B. I.
		(*i*). *For a battery of royal horse or light field artillery.*										
		Guard-room for 7 men	30	24	20	90	3,747, excluding steps.					
		Lock-up for 6 men	22½	24	20	50						
		3 cells, each	13	10	16⅓	130	1,803	P. W. D. Cir. No. 70 of 1870.	Accommodation to be provided in the case of each battery of artillery for seven men (including non-commissioned officers) in the guard-room, six men in the lock-up and three cells. When two or more batteries are located at the same station, the extent of accommodation may be rather less in proportion than the detail for a single battery. In the case of two batteries (1 heavy and 1 light field) of royal artillery at Jhansi, His Excellency the Commander-in-Chief approved of the following accommodation being provided:— For ten men in guard-room. For eight men in lock-up. For five men in cells.			
								G. of I., M. D., letter No. 469 C., dated 24th March 1885.	Dark punishment cells are no longer to be provided in India.			
								P. W. D. letter No. 714 of 1873.	Says a provost sergeant is not allowed to a single battery under any circumstances.			
								P. W. D. Cir. No. 54 of 1868.	The interval between the iron bars of doors and windows of lock-up and cells to be 5."			
								P. W. D. Cir. No. 57 of 1868.	All regimental cells and prison rooms should be provided with iron barred doors, in addition to the usual wooden ones, and with fixed iron gratings on the windows.			
								P. W. D. letter No. 961 M. W. of 5th December 1881.	Authorises provision of a pair of brackets outside each cell in prisons and regimental cells to hold prisoner's bedding (rolled up) in the day time.			
								P. W. D. letter No. 810 M. W. of 2nd June 1876.	The fixed basins in use in cells, military prisons or quarter-guards are not to be replaced by steel or other moveable washing basins.			

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Accommodation authorised for British Troops in the Plains—continued.

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Detail of Orders, &c. Particulars.	Standard plan No.	Type plan No.	Type plan Series.
Royal Horse and Light Field Artillery—*contd.*			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
		(5) AUXILIARY BUILDINGS—*contd.*						M. D. letter No. 2059F., dated 8th August 1890.	Ring-bolts (fixtures) to be fixed in the walls or floors of guard-rooms to which the regimental treasure chest can be fastened by chains and pad-locks (a latter are classed as furniture).			
	28	QUARTER-GUARD AND CELLS—*contd.*						P. W. D. letter No. 25 M. W. of 9th January 1880.	The verandah at the end of the guard-room next the cells and that at the other end of the cells are to be omitted when the buildings have an aspect between north-east and north-west.			
								P. W. D. Cir. No. 46 of 1875.	Cots in lock-up and cells to be fixtures.			
	29	RATION SHEDS	...	...	...	...	...	P. W. D. Cir. No. 67 of 1874.	Ration sheds for British troops are only allowable in exceptional instances, and when they are particularly required applications for them should be submitted for the orders of Government.			
	30	REAR GUARD	...	...	...	...	...	P. W. D. Cir. No. 83 of 1867.	Rear guards are only allowed in particular localities. When they are considered necessary, a reference should be made by the local military authorities on each occasion through His Excellency the Commander-in-Chief for the orders of the Government of India in the Military Department.			
	31	REGIMENTAL OR QUARTER MASTER'S STORE.										
		(i). *For royal artillery district head-quarters.*										
		1 Store room . . .	$23\frac{11}{12}$	24	11	...	686					
		(ii). *For a battery of royal horse or light field artillery.*										
		Store room	$29\frac{1}{6}$	24	11	...	2,543	P. W. D. Cir. No. 11 of 1864.	Forwards standard plan and lays down scale of accommodation to be provided for all arms.	25	68	B. I.
		Tailor's workshop . . .	24	15	11	...						
		Quartermaster's office . .	24	10	11	...						
		Dry store room . . .	13	$8\frac{1}{2}$	9	...						
									All rooms in excess of 60 feet in length to be divided in the middle by a cross wall.			
									A guard room may be added at the end of the main building, allowing a width of 12 feet with an end verandah, if necessary, and under proper orders.			
Royal Horse and Light Field Artillery—*contd.*									The store for the royal artillery, divisional or district head-quarters is to be added to the store room for the artillery located at the same station. NOTE.—When the Quarter Master's stores of batteries of artillery are accommodated in the store rooms attached to gun-sheds built on the old standard plan, these additional store rooms will not be given. The building will in such cases only provide the accommodation detailed for the tailor's shop, Quarter Master's office and dry store-room.			
									The store room shown in the *type* plan of gun-shed is only intended for gun stores.			
								P. W. D. Cir. No. 23 of 1871.	In the cases of store rooms and such like buildings, arrangements are invariably to be made for so fastening the doors and windows that they cannot readily be opened from the outside.			
	32	REGIMENTAL WORKSHOPS, VOLUNTARY.										
		None authorised . .	...	...	...	...	...	P. W. D. Cir. No. 101 of 1867.	No voluntary workshops are necessary for batteries of artillery, in addition to the regular workshops authorised for that arm of the service.			
	33	RELIGIOUS READING AND PRAYER ROOM.	...	...	...	...	...	P. W. D. Cir. No. 43 of 1869.	Forwards standard plan of building for a battalion of British infantry. Says provision of such accommodation is to be considered one of the recognised requirements in the barracks of every British regiment ~~or considerable detachment of British troops.~~ Hill depot, or detachment of British troops equal in strength to the establishment of four companies. Accommodation is not to be provided in part of an occupied barrack, but is to be a separate building in the most central and convenient position available. No residence is to form a portion of the building. Only one such building is allowed for each station. Punkhas and pegs in the porch for caps, &c., are to be provided by the Military Works Department.	44		
		(i). *For a battery of royal horse or light field artillery.*										
		For one battery the length of the main room of the building is to be increased by 10 feet, and for each additional battery at the same station by 5 feet.										
	34	RIDING SCHOOL.										
		(i). *For a battery of royal horse or light field artillery.*						......	......	...	37	R. A. 6/6
		One manége . . .	180	60	...	...	11,621	M. D. Cir. No. 3 M. W. of 1882.	Sanctions the provision and maintenance by the State of one enclosed riding school for the royal artillery at each station where horse or field batteries are quartered.			
								M. D. letter No. 16 M. W. of 10th January 1882.	Manége to be 180' by 60' inside, surrounded by a wall 4' 6" high, an 8' gate to be given at one end and a platform 6' by 6' and 4' 6" high, with steps leading up to it, at the other.			

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.				
								Authority.	Particulars.	Standard plan.	Type plan.	
Royal Horse and Light Field Artillery—*contd.*		(*b*) AUXILIARY BUILDINGS—*contd.*	Feet.	Feet.	Feet.	Supl. ft.	Supl. ft.			No.	No.	Series.
	35	SCHOOL ROOMS	...	...	...	...	...	......	......	...	71A to 71C	B. I.
		(*i*). *For 1 battery of royal horse or light field artillery.*										
		Class room for 32 men	26	24	20	19·5	2,246					
		" " " 20 children	18	24	20	21·6						
		2 water rooms, each	6	10	average 10¾	...						
		(*ii*). *For 2 batteries of royal horse or light field artillery.*										
		Class room for 48 men	40	24	20	20	3,079					
		" " 30 children	22	24	20	17·6						
		2 water rooms, each	6	10	average 10¾	...						
		(*iii*). *For 3 batteries of royal horse or light field artillery.*						P. W. D. Cir. No. 6 of 1867.	At all stations at which it may be considered that fires would prove comfortable during the cold season, fire-places should be provided in school rooms.			
		Class room for 64 men	48	24	20	18	3,449					
		" " " 36 children	22	24	20	14·66						
		2 water rooms, each	6	10	average 10¾	...						
								P. W. D. Cir. No. 4 of 1871.	A recess, 7'×4' (within) and from 13" to 15" deep, according to the thickness of wall, to be provided in the adult school room, and another in the infant class room. In schools for detached batteries a recess in one room will suffice.			
								P. W. D. Cir. No. 50. of 1878.	Forwards diagram showing the main apartments, *i.e.*, those required for actual instruction, authorised for school rooms for the different branches of the service. Subsidiary apartments, such as book rooms, hat and cloak rooms, &c., are intended to be provided by enclosing such portions of verandahs as may be necessary to afford the requisite accommodation.			
Royal Horse and Light Field Artillery—*contd.*									Schools should not be in the immediate vicinity of a canteen, sergeants' mess, band barrack or recreation room.			
									No separate school room is authorised for children where the number is under 20, as accommodation can be provided in an empty set of married soldiers' quarters.			
								P. W. D. Cir. No. 63 of 1874.	Quarters for schoolmaster and schoolmistress are, if possible, to be attached to their respective schools. NOTE.—For quarters for schoolmaster and schoolmistress, when detached, see item 5.	...	71A	B. I.
	36	SENTRY BOXES.										
		(*i*). *For a battery of royal horse or light field artillery.*										
		Two for each battery, each	3	3	...	...	...	P. W. D. Cir. No. 86 of 1864.	Forwards standard plan. Sides to be of light boarding, the upper half being made to open or close at pleasure. The plan need not be considered as a fixed standard, but when it is desired to adopt another pattern, drawings of it are to be submitted to Government after one box has been tried, together with reports on it by the military authorities. Authorises provision of two sentry boxes for each battery.	115		
								P. W. D. Cir. No. 65 of 1865.	Sentry boxes are to be classified as "fixtures."			
	37	SERGEANTS' MESS AND RECREATION ROOM.										
		(*i*). *For 1 battery of royal horse or light field artillery.*										
		Mess room	24	20	20	...	2,691	......	......	...	67	B. I.
		Caterer's room	18	12	average 9½							
		Pantry	12	7½								
		Beer store	20	12								
		(*ii*). *For 2 batteries of royal horse or light field artillery, and the staff attached to royal artillery district head-quarters.*										
		Mess room	42½	24	20	...	5,053		NOTE.—Except in the case of the recreation room for the two batteries and head-quarters staff, no scale is laid down for artillery. Details shown are what Government considered suitable in allotting the lower floors of double-storied barracks to auxiliary purposes.			
		Recreation room	25	24	20							
		Caterer's room	18	12	average 9½							
		Pantry	12	7½								
		Beer store	20	12								

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Arm of the service, Department, &c.	Item Number	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.: Authority.	Detail of Orders, &c.: Particulars.	Standard plan.	Type plan.	
Royal Horse and Light Field Artillery—*contd.*		*(b)* AUXILIARY BUILDINGS—*contd.*	Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
	37	SERGEANTS' MESS AND RECREATION ROOM—*contd.*										
								P. W. D. Cir. No. 11 of 1865.	The sergeants' mess to be constructed in a central position convenient to staff sergeants' quarters. In the case of batteries of artillery, or other small bodies of men, it can be provided under the same roof as the staff sergeants' quarters.			
								P. W. D. Cir. No. 6 of 1867.	At all stations at which it may be considered that fires would prove comfortable during the cold season, fire-places should be provided in sergeants' messes and recreation rooms.			
								P. W. D. Cir. No. XXVI of 1881.	Sanctions provision of a recreation room, 25'×24' or as near as convenient to that size, for royal artillery sergeants' messes where two or more batteries, in addition to the royal artillery district staff, use the mess.			
								M. D. letter No. 18 M. W., dated 11th January 1882.	A separate recreation room is not to be provided for the sergeants of a single battery.			
	38	SKITTLE ALLEY.										
		(i) For a battery of royal horse or light field artillery.										
		One skittle alley . . .	38	16	7½	...	802	P. W. D. letter No. 746 M. W. of 16th December 1880.	Approves of revised standard plan for the plains	30	7	B. I.
								P. W. D. Cir. No. 2 of 1867.	Block plan showing position of building, 1 for each battery.			
Royal Horse and Light Field Artillery—*contd.*	39	STABLES.						Clause 141 of I. A. Cirs. for 1890.	The following is the authorised strength of horses:— War footing. Peace footing. Battery of Royal Horse Artillery . 198 153 Battery of Light Field Artillery 143 110 For batteries on war footing see item 16.			
		(i) For a battery of royal horse artillery on peace footing.										
		(a) Two stables, each for 52 horses—										
		Each stable—										
		4 compartments, each for 9 horses, each	72	12	...	...	8,258 each.	General Order No. 230 of 1879.	The sergeant-majors and trumpet-majors attached to royal artillery district head-quarters are to be provided with horses and saddlery which are to be attached to the batteries located for the time being at the several stations.			
		2 compartments, each for 8 horses, each	64	12	...	...						
		Central passage . . .	211	7	...	...						
		(b) One stable for 50 horses containing—										
		2 compartments, each for 9 horses, each	72	12	...	...	7,950					
		4 compartments, each for 8 horses, each	64	12								
		Central passage . . .	203	7								
								P. W. D. Cir. No. 29 of 1861.	Forwards standard plan of a stable for 74 horses	90		
								P. W. D. Cir. No. 2 of 1867.	Three ranges of stables to be provided for each royal horse or light field battery.			
								P. W. D. Cir. No. 32 of 1868.	Stables of the mounted branches of the service are to be furnished with saddle racks and harness pegs. Forwards standard plan of such.	118		
								M. D. letter No. 270 of 12th July 1871.	Stables to be of the lightest description, with iron instead of masonry pillars. Floors of stables should be dug up annually to such depth as urine and moisture may have penetrated and replaced with fresh earth.			
									The angle and T-iron pillars of stables should be sheathed in wood, to a height of 5½', to prevent horses injuring themselves.			
		(ii) For a battery of royal horse artillery on war footing.							His Excellency the Commander-in-Chief has decided (case of stables for British cavalry at Rawalpindi) that it is not necessary to provide water troughs and mangers for horses in stables. Iron-picketing pegs, firmly fixed, should be provided at the rate of 2 per horse.			
		Three stables, each for 66 horses— Each stable containing—										
		6 compartments, each for 8 horses, each	64	12	...	...	10,472 each.	Paras. 262 to 262D of B. B. Regns.	Rules for renewal of stable and infirmary floors.			
		2 compartments, each for 9 horses, each	72	12								
		1 central passage . . .	268½	7								

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Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.: Authority.	Detail of Orders, &c.: Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
Royal Horse and Light Field Artillery—*contd.*		(*b*) AUXILIARY BUILDINGS—*contd.*										
	39	STABLES—*contd.*										
		(*i*) *For a battery of royal horse artillery*—contd.										
								P. W. D. letter No. 1154 of 1879.	Each horse to have a space of 12' by 8'* with a passage, 7' wide, down the centre of each stable. Doors and shutters are to be provided for the openings on the windward side of stables at stations in the Punjab as a protection against winter winds. Jhamps are prohibited.			
								P. W. D. letter No. 907 of 1879.	It is not necessary nor desirable to adopt one unvarying rule for stable flooring. The material most proper to use must depend upon the condition of the soil and its tendency to foster disease, as well as on the relative cost at which different kinds of flooring could be made and maintained at each station. Where disease has been prevalent and stone flags can be procured at moderate cost, a flagged floor will usually be the best. If stone is not readily procurable, some approach to an impermeable floor may be made by using a mixture of clay and sand laid over a floor of kunkur, or a mixture of tar and kunkur. A concrete of portland cement may be used where stone is procurable, if its cost is thought to be justified by the previous prevalence of disease. It is not considered necessary to raise the floor of a stable more than a foot above the ground-level. Ventilation and drainage to be very carefully attended to. * In the case of iron framed stables, the stalls should be 14' × 7' (as sanctioned by Government in the case of Lucknow and Saugor).			
		(*ii*) *For a battery of light field artillery on peace footing.*										
		(*a*) One stable for 42 horses— 6 Compartments, each for 7 horses, each	56	12	} ...	...	6,518	General Orders Nos. 180 of 1883, 62 of 1884, and 5 and 102 of 1885.	Contain rules to be observed in the purification of stables after the occurrence of contagious diseases among the horses of British cavalry or royal artillery.			
		Central passage . . .	171	7								
Royal Horse and Light Field Artillery—*contd.*		Each stable—										
		2 compartments, each for 9 horses, each	72	12			} Each 5,486	G. of I., M. D., letter No. 70 M. W. (Accommodation for troops), dated 14th January 1887.	Government refuse to sanction the provision, at the expense of the State, of outstandings in connection with stables of British mounted corps.			
		2 compartments, each for 8 horses, each.	64	12								
		Central passage . . .	139	7								
		(*iv*) *For a battery of light field artillery on war footing.*						I. A. Cirs., clause 49 of 1890.	Besides the stabling required for the batteries, accommodation is required as below for the ammunition columns :— At Ferozepore for 64 horses. ,, Multan ,, 40 ,, ,, Jullunder ,, 40 ,, ,, Meean Meer ,, 104 ,, ,, Sialkote ,, 20 ,,			
		3 stables each for 48 horses, each stable to contain— 6 compartments, each for 8 horses, each . . .	64	12	} ...	...	7,642 each.					
		1 central passage . . .	195	7								
	40	VETERINARY HOSPITAL OR HORSE INFIRMARY.	...	...	...	...	...	G. O. No. 29 of 1886	The station veterinary hospitals will be divided into chief and branch hospitals as follows :— Chief hospitals. — Branch hospitals. *Bengal.* Rawal Pindi . . { Campbellpore. Peshawar. Sialkot . . . *Nil.* Meean Meer . . { Mooltan. Ferozepore. Amballa . . . Jullundur. Meerut . . . *Nil.* Muthra . . . Agra. Lucknow . . { Bareilly. Fyzabad. Allahabad . . Dinapore. Jubbulpore . . Saugor. Cawnpore . . . Nowgong. Barrackpore . . { Remount Depôt. Calcutta. *Madras.* Secunderabad . . *Nil.* Bangalore . . . *Nil.* Kamptee . . . *Nil.* St. Thomas' Mount . Body-guard. Bellary . . . { Belgaum. See G. O. No. 62 of 1886. *Bombay.* Kirkee . . . { Ahmednagar. See G. O. No. 62 of 1886. Mhow . . . { Neemuch. Nusseerabad. Karachi . . . Hyderabad. Deesa . . . Ahmednagar.			

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Detail of Orders, &c. Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.					
Royal Horse and Light Field Artillery—*contd.*		(*b*). AUXILIARY BUILDINGS—*contd.*										
	40	VETERINARY HOSPITAL OR HORSE INFIRMARY—*contd.*										
									2. Branch hospitals will be attached to their respective chief hospitals for administrative purposes. 3. Horses belonging to batteries of royal horse and field artillery, European and Madras cavalry regiments, and the body-guard of His Excellency the Governor of Madras will be treated in these hospitals. * * * * 10. Pending the occupation of central buildings as general hospitals, sick horses will continue to be treated in existing regimental hospitals. In each large station, however, where there is a chief hospital, one building will be set apart as a central depôt for stores, &c., and at stations where there are several hospitals close together one or two of the buildings will, if possible, be allotted for use as store depôts for one or more corps. * * * * 19. * * Picketing pegs will be permanently fixed in the hospital. * * *			
		(*i*). *For a battery of royal horse or light field artillery.*	...	...	...	...	...	P. W. D. Cir. No. 98 of 1882.	Forwards standard plan on which is enfaced the scale for 1 to 4 batteries, &c. Slinging bars in casting shed are to be 8 feet from the ground and to be firmly secured. No jhamps are allowed.	87		
		2 compartments (each for 3 standings), each	24	13	Average. 15½		2,960	G. O. No. 270 of 3rd October 1874 and para. 264 of B. B. Regns.	Blocks and pulleys for slings are to be provided as fixtures by the Military Works Department.			
		2 loose boxes, each	16	13½	15½							
		1 casting shed	37	16	15½							
		1 surgery	16	13	15½							
		1 office	16	13	15½							
	41	WAGONS AND TRUCKS, DUMMY, RAILWAY.	...	...	...	...	...	G. of I., M. D., letter No. $\frac{2028}{C.}$, $\frac{\text{Transport}}{\text{Railway}}$, dated 30th May 1882, and its accompaniments.	One railway dummy wagon and one railway dummy truck are to be provided for each cantonment where (British or Native) cavalry and (royal horse or light field) artillery are quartered.	38 A & 38 B		R. A.
Royal Horse and Light Field Artillery—*contd.*									The cost of these wagons and trucks is to be treated as a military charge. A truck is not considered necessary for cavalry corps.			
								Qr. Mr. Genl.'s letter No. $\frac{224}{A.}$, $\frac{\text{Transport}}{\text{Inland}}$, dated 10th January 1883.	"There is no objection to the purchase of old railway stock, provided it be of the 5' 6" gauge and of the same dimensions as the latest approved patterns."			
								Inspr.-Genl.'s letters Nos. 5711 to 5734, dated 20th November 1883.	Points out certain corrections and additions that should be made in the type plans (Nos. 38A and 38B, R. A. series) for dummy wagons and trucks.			
								G. of I., M. D., letter No. $\frac{350}{C.}$, $\frac{\text{Transport}}{\text{Railway}}$, dated 13th March 1884.	"The cost of all works, including any excavation, masonry, earth-work, metalling, &c., connected with the provision of dummy railway wagons and trucks for training cavalry and artillery in railway embarkation should be treated as a military charge.			
								G. of I., M. D., letter No. $\frac{7658.}{C.}$, $\frac{\text{Transport}}{\text{Railway}}$, dated 21st August 1884.	If possible, arrangements should be made with the railway authorities for training the troops in above practice.			
								Inspr. Genl. of M. W.'s Cir. No. 1, dated 7th January 1885.	Method to be adopted for supporting the door of a dummy railway truck in cases where practice in entraining siege-guns has to be carried out.			
								G. of I., M. D., letter No. 158 M. W., dated 12th February 1885.	Dummy railway wagons and trucks will be maintained under the usual rules applicable to military buildings belonging to the State.			
	42	WELLS	...	...	...	...	...	......	Will be provided as required for drinking, culinary, ablutionary and other purposes. Wells would be required for providing drinking water for the troops, for the cook-houses (see item 13(*i*)), for the plunge-bath (item 27), for lavatories (item 45), for soldiers' gardens and for stables and cattle lines.	126		
								B. B. Regns., para. 781.	Wells for the supply of filtering tanks should be chosen not for their convenient position, but for the good quality of their water, as shewn by chemical analysis, and for their freedom from any apparent source of contamination, such as the immediate neighbourhood of buildings, trees, &c.			
								B. B. Regns., paras. 791, 792 and 793.	Lay down rules relative to the provision of wells, reservoirs, &c., for soldiers' gardens.			

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Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.				
								Authority.	Particulars.	Standard plan.	Type plan.	
		(b) AUXILIARY BUILDINGS—*contd.*	Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
	42	WELLS—*contd.*						B. B. Regns., paras. 732 and 733.	The outer protecting walls of all wells and tanks should be sufficiently raised to prevent the ingress of surface water.			
									All Government wells in cantonments and encamping grounds, the water of which is used for drinking purposes, are to be provided with covers to prevent dust or other impurities entering the well. They will be constructed by the Military Works Department.			
									A well used for watering horses, elephants, &c., should be provided with a drinking trough for the use of the animals.	126		
								P. W. D. Cir. No. 87 of 1866.	Ground round wells should be paved, and the waste water that falls on the pavement is to be conveyed away by paved drains to a distance from the wells.			
									To prevent accidents, *all* wells in military cantonments should be protected by a wall or platform.			
		(c) SUBSIDIARY BUILDINGS.										
	43	COOK-HOUSES. (i). *For the single rank and file of a battery of royal horse or light field artillery.*	...	...	...	...	...	P. W. Cir. No. 31 of 1867.	Cook-houses and privies are to be in separate buildings.			
								M. D. letter No. 621 M. W. of 20th June 1884.	Approves of revised type for the plains.			
								I. G. of Mily. Works' Cir. No. 11 of 1885.	The iron water tanks of cook-houses are to be of *galvanised* iron.			
								P. W. D. Cir. No. 86 of 1868.	Where there are no wells near at hand, one well 4' diameter may be given to each double cook-house, placed at some little distance from it.			
		(a) When the barracks are sufficiently close—	...	...	...	...	...	P. W. D. Cir. No. 52 of 1869.				
		One cook-house containing—										
		2 kitchens, each	23½	16	12	...	1,534	......	......	...	119A 119B	B. I.
		2 cooking places, each	16	5	24½	...						
		2 cook's rooms, each	10	10	8	...						
		(b) When the barracks are at a considerable distance from each other—	...	...	...	...	...	P. W. D. Cir. No. 52 of 1869.				
		Three cook-houses, each containing—										
		1 kitchen	17½	16	12	...	644 each.	......	......	...	60	R. A.
		1 cooking place	16	5	24½	...						
		1 cook's room	10	10	8	...						
		(Orderly-rooms are not now given.)										
		(ii). *For the married rank and file of a battery of royal horse or light field artillery.*	...	...	...	...	...	P. W. D. letter No. 66 of 1874.	Cook-houses for married men are to be in one or two blocks for each barrack, according to the size of the barrack, and to be partitioned off into rooms, each room for two families. For barracks with not more than 10 quarters, one block to be constructed, and for barracks with more than 10 quarters, two blocks to be constructed, one on either flank of the barrack.	...	5A 5B	R.A.
		For each of the 2 blocks for 3 families each—										
		1 kitchen	12	6	9½	...	215 each.	P. W. D. letter No. 2186 of 1875.	The cook-houses for married men's barracks are to be placed in prolongation of the verandahs of the barracks.			
		3 cooking chambers, each	3½	1½	16	...						
		(iii). *For the block of quarters for 2 staff sergeants, class B, and 1 class C sergeant of a battery of royal horse or light field artillery.*	...	...	...	...	...	P. W. D. Cir. No. 18 of 1867.	The only out-offices to be provided for regimental staff sergeants are cook-houses and latrines.			

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Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Detail of Orders, &c. Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.					
Royal Horse and Light Field Artillery—*contd.*		(c) SUBSIDIARY BUILDINGS—*contd.*										
	43	COOK-HOUSES—*contd.*										
		1 kitchen 3 cooking chambers, each	16½ 5	6 1½	9½ 16	... ...	339	...	......	...	7B	R. A.
		(iv). Cook-house for the sergeant-major attached to royal artillery district head-quarters.										
		Kitchen Cooking chamber	7¾ 7¾	6 1½	9½ 16	... ...	117	...	......	...	17	B. I.
		(v). Cook-house for the schoolmaster.										
		Same as for sergeant-major	...	...	...	...	117	P. W. D. letter No. 1050 of 1874.	The out-offices sanctioned for a sergeant-major are to be provided for a schoolmaster or schoolmistress.	...	17	B. I.
		(vi). Cook-house for the schoolmistress.										
		Same as for sergeant-major	...	...	...	...	117	...	......	...	17	B. I.
		(vii). For the staff sergeants attached to royal artillery district head-quarters.	...	...	...	...	...	...	For details of the number of men to be provided for, see pages 2 to 4. NOTE.—For 1st and 2nd class master-gunners provide cook-houses as allowed for a sergeant-major.	...	7A 7B 17	R. A B. I.
		A cook-house affording the following space for each man:— Kitchen Cooking chamber	6 5	5¾ 1½	9½ 16	... ...	... ...	... ...				
		(viii). Cook-house for the institute	...	...	...	...	...	...	No scale has been laid down by Government. It is usual to give a cook-house of the same size as is authorised for the sergeants' mess.			
		A cook-house as authorised for sergeants' mess (see below):— 1 kitchen 1 cooking chamber									67	B. I.
Royal Horse and Light Field Artillery—*contd.*		*(ix). Cook-house for the sergeants' mess.*	...	...	...	...	...	P. W. D. Cir. No. 74 of 1869.	Authorises provision of a cook-house, 16′ × 16′, for every sergeants' mess, without any preparing room or cook's room.			
		For the mess of a single battery or any number of batteries— A kitchen A cooking chamber	16 16	9½ 5	10 16	... ...	354	......	......	...	67	B. I.
	44	FUEL STORE FOR THE INSTITUTE	...	...	...	...	...	......	This can be arranged for in the cook-house for the institute, or in a verandah room of the institute building.			
	45	LAVATORIES	...	...	...	..	...	P. W. D. Cir. No. 17 of 1876.	Forwards revised standard plan for infantry. Authorises provision of a tub for washing and a stool (cook-house) in each private ablution room. Bath-room partitions to be of wood; the wood work of partitions and of pegs not to be built into walls or floors. Gratings to be supplied in front of basin stands and over central drain, as also in each private ablution room. One or, if more convenient, two reservoirs capable of holding altogether 120 gallons (for a company of infantry) to be provided outside the building. Pipes to be laid from these reservoirs into the building, a cock being provided in each private ablution room and over each basin. Each private ablution room to have a door, either batten or cloth, on a wooden frame provided with proper fastenings. Roof ventilation is to be provided. Floor is to be laid with a slope of 1 in 16 inwards from the walls on either side to central drain. Drainage away from walls outside to be provided for. A horse is to be provided in the washing room for men to hang their clothes on. Wash-houses for cavalry and artillery to be exactly similar to the standard plan for infantry, but altered in length in proportion to the number of men to be served. Gratings and basin-stands for lavatories are to be provided for as fixtures.			
								P. W. D. Cirs. No. 45 of 1873 and No. 8 of 1874.	When roof is pent the height of the walls to tie beam need not be more than 9 feet, but when roof is flat the height to underside of beam should be 12 feet.	22	[illegible]	16

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of buildings.	Detail of Orders, &c.		Standard plan.	Type plan.	
								Authority.	Particulars.	No.	No.	Series.
Royal Horse and Light Field Artillery—*contd.*			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.					
		(c) SUBSIDIARY BUILDINGS—*contd.*										
	45	LAVATORIES—*contd.*										
								P. W. D. Cir. No. 32 of 1870.	Instructions for disposal of waste water.			
		(i). *For the single rank and file of a battery of royal horse or light field artillery.*										
		3 lavatories, each—										
		Washing room for 12 basins	18	16	9	...	654 each	......	......	...	4	R. A.
		4 private ablution rooms, each	6½	5	9							
		(ii). *For the quarter-guard of a battery of royal horse or light field artillery.*	...	...	...	...	...	P. W. D. Cir. No. 41 of 1869.	Authorises provision of lavatories for quarter-guards and lays down scale of accommodation to be provided therein.			
		Washing room for 6 basins	9	16	9	...	356	P. W. D. letter No. 810 of 1886.	Fixed basins are not to be replaced by steel or other movable basins.	...	64B	B. I.
		2 private ablution rooms, each	6½	5	9	...						
	46	LATRINES.										
		(i) *For the single rank and file of a battery of royal horse or light field artillery.*	...	...	...	...	...	P. W. D. Cir. No. 16 of 1866.	Twelve seats are to be provided for a battery of royal horse or light field artillery. See note on type plan No. 4, royal artillery series, regarding cart-sheds attached to latrines.			
		(a) One latrine with 4 seats for a division privy.	11	12	9	...	199	......	......	...	4	R. A.
		(b) One latrine with 8 seats for 2 divisions—										
		Privy	21½	12	9	...	636				4	R. A.
		Cart-shed	11	8	7	...						
		Sweeper's room	8	6	7½	...						
		Dry-earth shed	5½	4	4½	...						
Royal Horse and Light Field Artillery—*contd.*								P. W. D. Cir. No. 60 of 1871.	Floors of latrines are to be of earth and not to be paved.			
								P. W. D. Cir. No. XXXVII. P. W. of 1880.	Latrines, whether in the plains or in the hills, are not to be less than 20 nor more than 50 yards distant from the barracks to which they are subsidiary. In selecting sites for latrines the direction of the prevailing wind, nature of locality, size of latrines, &c., should receive consideration.			
								Para. 632, Vol. 1, B. B. Regns.	The boxes attached to each seat in latrines are to be fixtures and are to be made of stone or iron.			
								Para. 624, Vol. 1, B. B. Regns.	Height of privy pans to be 8".			
		(ii). *For the married rank and file of a battery of royal horse or light field artillery.*	...	...	...	...	...	P. W. D. Cir. No. 16 of 1866.	Fixes proportion of seats to be provided in the latrines for married men's barracks.			
		(a) For the men—										
		A latrine with one seat	6	6	7⅝	...	74	......	......	...	17	B. I.
		(b) For the women—										
		A latrine with 2 seats—										
		Privy	12	5⅝	9	...	172	......	......		7A to 7G	B. I.
		Entrance lobby	5⅝	5	9	...						
								P. W. D. Cir. No. 89 of 1864.	A covered passage to the latrine is to be provided In privies for women, the opening in front below the seat should be boarded or closed up; a lid should be added to the seat, which, when open and resting against the back wall, will shut up the opening behind the seat, and thereby secure a greater privacy without interfering altogether with the ventilation. One seat in each latrine for women is to be arranged for children, with a step 2' wide and 6" high in front of it.			
		(iii). *For the gymnasium*	...	...	...	...	...	P. W. D. Cir. No. 45 of 1869.	A small urinary and latrine to be built contiguous to, and on the side of, the men's dressing room, but so placed as not to interfere with the light of the room, nor yet taint the building. Similarly, and on the opposite side, a smaller urinary and latrine to be provided for the officers.			
		(iv). *For the quarter guard for a battery of royal horse or light field artillery.*	...	...	...	...	...	P. W. D. Cir. No. 44 of 1869 and P. W. D. Cir. No. 49 of 1871.	...... Following accommodation to be provided in latrines attached to quarter-guards of British troops:— Battalion of infantry 6 seats. Regiment of cavalry 4 " Wing of infantry 4 " Battery of artillery 2 "	...	64B	B. I.
		2 seats, 1 for guard and 1 for prisoners.										
		2 compartments, each	12	2⅝	9	...	184					
		Covered passage for infantry	5	5	9	...						

6/b/23

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Detail of Orders, &c. Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
Royal Horse and Light Field Artillery—*contd.*			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet					
		(*g*). SUBSIDIARY BUILDINGS—*contd.*										
	46	LATRINES—*contd.*										
		(*v*). *For the sergeants and staff sergeant of a battery of royal horse or light field artillery.*										
		A latrine with 2 seats . .	10	5¾	9	...	105	......	......	...	67	B. I.
		(*vi*). *For the warrant officers and staff sergeants attached to royal artillery district head-quarters.*										
		(*a*) For the sergeant-major, a detached latrine . . .	6	6	7⅝	...	74	......	......	...	17	B. I.
		(*b*) For the schoolmaster, same as for the sergeant-major . .	...	...	...	...	74	......	......	...	17	B. I.
		(*c*) For the schoolmistress, same as for the sergeant-major	...	...	...	...	74	......	......	...	17	B. I.
		(*d*) For the staff sergeants, a latrine common to all should be provided with seats in proportion to the number of men in each case, 1 seat for every 2 men being given.	...	...	...	...	...	......	For details of the number of men to be provided for, see pages 2 to 4. NOTE.—1st and 2nd class master-gunners should be provided with latrines similar to those allowed to a sergeant-major.			
		(*vii*). *For the school* . . .	...	...	...	...	...	......	One seat in each privy is to be arranged for the smaller children, with a step 2' wide and 6" high in front of it. The seats in the girls' privies are to be fitted with blinds in front and at back, similar to those in latrines (for women) attached to married men's barracks.			
		(*a*) For one battery of royal horse or light field artillery—										
		Privy for boys . . .	10½	5¾	9		257	......	......	...	71E	B. I.
		Privy for girls . . .	10½	5¼	9							
		Urinary for boys . .	4½	3½	...							
		Dry-earth shed . . .	4½	3⅜	...							
		(*b*) For 2 batteries of royal horse or light field artillery—										
		Same as for 1 battery . .	...	...	...		257					

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Detail of Orders, &c. Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
Royal Horse and Light Field Artillery—*contd.*								P. W. D. Cir. No. 8 of 1875, P. W. D. Cir. No. XXXVII P. W. of 1880.	Authorises provision of latrines for children's schools. Latrines are not to be less than 20 nor more than 50 yards distant from schools.			
		(*c*) For 3 batteries of royal horse or light field artillery—										
		Privy for boys . .	10½	8⅓	9		327	......	......	...	71E	B. I.
		Privy for girls . .	10½	8⅓	9							
		Urinary for boys . .	4½	3½	...							
		Dry-earth shed . .	4½	3⅜	...							
		(*viii*). *For the sergeants' mess* .	...	...	...	...	...	P. W. D. Cir. No. 74 of 1869.	Authorises provision of a latrine with 2 seats for every sergeant's mess to be given only when the mess happens to be a long way from any of the barrack latrines.			
		For 1 or more batteries. . . .	...	...	...	..	...	P. W. D. Cir. No. XXXVII P. W. of 1880.	Latrines not to be less than 20 nor more than 50 yards distant from the barracks to which they are subsidiary.			
		A latrine with 2 seats	10	5⅔	9	...	105			...	67	B. I.
	47	URINARIES	...	...	...	...	...	G. of I., M. D., Cir. No. 7 M. W., dated 4th December 1882.	Lays down scale of urinaries to be provided for the different arms of the British service. The urinary buildings are to be 6' 6" wide, each compartment occupying a space of 2' 6"×6' 6"; they are to be of open bamboo work fixed to a wooden framing, height from ground to tie-beam to be 7.' The bamboo screen work to reach within a foot of the ground, the gables to be left open, the gable eaves having sufficient projection to keep out the sun. The urine trough will lead into a filth receptacle at one end of the building; the screened entrance will be at the other end.			
								Para. 632 of B. B. Regns.	One box for dry earth is to be provided for each urinary. This box will be a fixture and made either of stone or iron.			
		(*i*). *For the single rank and file of a battery of royal horse or light field artillery.*	...	...	...	...	...	G. of I., M. D., Cir. No. 7 M. W., dated 4th December 1882.	One urinary of 2 compartments is to be provided for each barrack for a division. If the barracks are in pairs, single urinaries may be arranged between them with double the number of compartments authorised for a single barrack.			
		3 urinaries, each for 2 compartments	6½	5	7	...	33 each.					
		(*ii*). *For the married rank and file of a battery of royal horse or light field artillery.*	...	...	...	...	...	G. of I., M. D., Cir. No. 7 M. W., dated 4th December 1882.	One urinary of 1 compartment for each block of married quarters. If barracks are in pairs, single urinaries may be arranged between them with double the number of compartments authorised for a single barrack.			
		2 urinaries, each for 1 compartment	6½	2½	7	...	16 each.					

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Detail of Orders, &c. Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
			Feet	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
Royal Horse and Light Field Artillery—*contd.*		(*c*) SUBSIDIARY BUILDINGS—*contd.*										
	47	URINARIES—*contd.*										
		(*iii*). *For the institute*	...		...	...	...	......	No scale has been laid down by Government for urinaries for institutes.			
		(*a*) For 1 battery—							Government of India, Military, Department, Circular No. 7 M. W., dated 4th December 1882, allows for a single battery of royal horse artillery 1 urinary of 2 compartments for liquor bar 1 urinary of 1 compartment for library and reading room; total 3 compartments, and it is proposed to adhere to this.			
		3 compartments in 1 or more blocks as may be found convenient	6½	7½	7	...	49					
		(*b*) For 2 or more batteries—										
		4 compartments in 1 or more blocks as may be found convenient	6½	10	7	...	65					
		(*iv*). *For the gymnasium.*										
		(*a*) For officers— 1 urinary of 1 compartment	6½	2½	7	...	16					
		(*b*) For the men—										
		1 urinary of 1 compartment	6½	2½	7	...	16					
		(*v*). *For the plunge-bath of a battery.*										
		1 urinary of 1 compartment	6½	2½	7	...	16	G. of I., M. D., Cir. No. 7 M. W., dated 4th December 1882.	See item 27. The plunge-bath urinal might be in one corner of the building, a trough through the wall conveying the water to a receptacle outside.			
		(*vi*). *For the quarter-guard of a battery.*										
		1 urinary of 1 compartment	6½	2½	7	...	16					
		(*vii*). *For the schools of a battery.*										
		1 urinary of 1 compartment	6½	2½	7	...	16	......	This urinary is for the men attending school.			
Royal Horse and Light Field Artillery—*concld.*		(*viii*). *For the stables of a battery.*										
		1 urinary of 2 compartments	6½	5	7		33	G. of I., M. D., Cir. No. 7 M. W. of 4th December 188..	One for each set of stables.			
		(*ix*). *For the workshops.*										
		1 urinary of 1 compartment	6½	2½	7	...	16	G. of I., M. D., Cir. No. 7 M. W. of 4th December 1882.	Not to be provided if a latrine or urinary exists conveniently near.			
		(*x*). *For the regimental offices, orderly-room, &c.*										
		1 urinary of 1 compartment	6½	2½	7	...	16	Do.	Do. Do.			
		(*xi*). *For the regimental stores.*										
		1 urinary of 1 compartment	6½	2½	7	...	16	Do.	Do. Do.			

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Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.: Authority.	Detail of Orders, &c.: Particulars.	Standard plan.	Type plan.	
										No.	No.	Series.
Heavy Field Artillery.		(a) PRIMARY BUILDINGS.	Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.					
								Clause 58 of I. A. Cirs. for 1882 and Clause 22 of I. A. Cirs. for 1889.	The strength of a heavy field battery is— *Staff sergeants and sergeants.* 1 Battery sergeant-major, class B. } Staff Sergeants. 1 Battery quarter-master sergeant, class B. } 1 Sergeant farrier, class C. 6 Sergeants, class C. TOTAL . 9 Staff sergeants and sergeants. *Rank and file.* 6 Corporals. 6 Bombardiers. 70 Gunners. 2 Trumpeters. TOTAL . 84 Rank and file. *Artificers.* 1 Carriage smith. 1 Wheeler. TOTAL . 2 Artificers. GRAND TOTAL 95			
								G. of I., M. D., letter No. 2164 M. W. (Accommodation for Troops), dated 18th October, 1887.	Fifty-six per cent. of the staff sergeants and sergeants and 4 per cent. of the rank and file are permitted to marry. For list of royal artillery districts for India, showing head-quarters stations with the authorized warrant and non-commissioned staff, see pages 2 to 4.			
	48	BAND BARRACK. Not authorized.										

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.: Authority.	Detail of Orders, &c.: Particulars.	Standard plan.	Type plan.	
										No.	No.	Series.
Heavy Field Artillery—*contd.*	49	BARRACKS FOR SINGLE RANK AND FILE.	...	...	...	...	...	......	Accommodation is required for 83 single rank and file.			
		For a battery of heavy field artillery.										
		Two barracks, each for 2 sergeants and 42 single rank and file, each containing—										
		1 dormitory for 22 men .	82½	24	20	90	Each barrack 14,480, excluding steps.					
		1 „ „ 20 „ .	75	24	20	90						
		1 day-room . . .	52½	24	20	30						
		1 store room . . .	10 7/16	8	9½	...						
		Quarter for each sergeant comprises—						......	......	...	4	R. A. modified so as to provide for 42 rank and file.
		1 day-room . . .	16	14	20	483½						
		1 bed-room . . .	16	11	20							
		1 bath-room . . .	10 7/16	8	9½				See item 2.			
	50	BARRACKS FOR MARRIED RANK AND FILE.										
		For a battery of heavy field artillery.	...	...	...	...	...	G. of I., M. D., letter No. 2164 M. W., (Accommodation for Troops), dated 18th October 1887.	Accommodation is required for $\frac{4 \times 86}{100}$=3·44 or 3 married rank and file. This gives for a battery— $\frac{3 \times 30}{100}$=·90, say 1 class I quarter. $\frac{3 \times 60}{100}$=1·80, say 2 class II quarters. $\frac{3 \times 10}{100}$=·30, say no class III quarters.			
		A block of 3 class II quarters, each quarter comprising—										
		1 sitting room . .	16	14	18⅚	411	4,700, excluding steps.	......	......	... 2	5 B 6	R. A.
		1 bed-room . .	14	10	18⅚							
		1 bath-room . .	7½	6¼	10				As approved by His Excellency the Commander-in-Chief and Government of India (Military Department) in the case of the heavy field battery at Jhansi, 3 class II quarters should be given. See item 3.			

Arm of the service, department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Detail of Orders, &c. Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.					
		(*a*) PRIMARY BUILDINGS—*contd.*										
Heavy Field Artillery—*contd.*	51	QUARTERS FOR STAFF SERGEANTS AND SERGEANTS.										
		For a battery of heavy field artillery.	...	...	...	...	...	...	The strength to be provided for (see page 50) is— 2 staff sergeants, class B. 7 sergeants, class C. Four out of the 7 class C men will be provided for in the 4 quarters for sergeants built at the ends of the 2 barracks for single rank and file,—see item 49, page 51.			
		A block containing 2 class B and 3 class C quarters—										
		Each class B quarter to comprise—										
		1 room	16	16	18	496					7 B	R. A.
		1 "	16	10	18							
		1 bath-room	10	8	10							
		Each class C quarter to comprise—					4704, excluding steps.		The remaining men, *viz.*, 2 staff sergeants, class B, and 3 sergeants, class C, will be accommodated in a special block of quarters.			
		1 room	16	14	18	444			However, see remarks against item 4, pages 9 and 10. It will probably not be found necessary to provide for all 5 of these sergeants in a special block of quarters. See remarks against item 4, which apply to this item.			
		1 "	14	10	18							
		1 bath-room	10	8	10							
	52	QUARTERS FOR THE WARRANT OFFICERS AND STAFF SERGEANTS ATTACHED TO ROYAL ARTILLERY DISTRICT HEAD-QUARTERS	...	...	...	...	...	...	See item 5.			
		(*b*) AUXILIARY BUILDINGS.										
Heavy Field Artillery—*contd.*	53	BLACKSMITH'S FORGE AND SHOEING SHED.										
		For a battery of heavy field artillery.										
		Forge	30	20	16	...	1,602	P. W. D. Cir. No. 66 of 1875.	Forwards standard plan	84	...	...
		Store	20	8½	16	...			See item 6.			
		Shoeing shed	40½	10	10	...						
	54	BOILING HOUSE AND GRAIN STORE FOR VETERINARY HOSPITAL.	...	...	...	...	...	...	Not authorised. The number of horses attached to a heavy field battery is 5, and the sick horses of the battery can be treated in the infirmary of any other British mounted corps in the same station.			
	55	BOWLING ALLEY. Not authorised, *see* item 8.										
	56	CARPENTER'S AND COLLAR-MAKER'S SHOP, ALSO HARNESS AND STORE ROOM.										
		For a battery of heavy field artillery.										
		Carpenter's shop	27	20	16	...	4,266	P. W. D. Cir. No. 66 of 1875.	Forwards standard plan.	84	...	...
		Collar-maker's shop	27	20	16	...						
		Harness room	40	20	16	...						
		Store room	20	14	16	...			See item 18.			
	57	CRICKET GROUND	...	...	...	...	...	...	See item 10.			
	58	DRY EARTH SHED.										
		For a battery of heavy field artillery.										
		One shed	...	...	...	...	...	...	See item 11.			
	59	DRY STORE ROOM.										
		For a battery of heavy field artillery.										
		One room	12	12	12	...	240	...	See item 12.	26	...	...
	59A	ELEPHANT SHED.										
		A shed with 12 stalls, each	20	20	18¾	...	6,624	...	A shed for 12 elephants, as sanctioned by Government for the heavy field batteries at Jhansi and Campbellpore.	...	...	...

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
Heavy Field Artillery—*contd.*			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet					
		(b) AUXILIARY BUILDINGS—*contd.*										
	60	FIRE-ENGINE SHED	...	...	...	...	...	...	Not authorised for a single battery of heavy field artillery. See item 13.			
	61	FIVES COURTS.										
		For a battery of heavy field artillery.										
		Same as for a battery of royal horse or light field artillery	...	...	...	...	7,051	...	......	32	...	...
	62	FURNITURE STORE-ROOM.							See item 14.			
		For a battery of heavy field artillery.										
		1 open shed	20	15	...	...	648					
		1 store room	15	10								
		Chowkeedar's hut	10	10	...	...	179					
		Barrack-master's office	...	...	...	...	...	...	See item 15.			
	63	GUN-SHED	...	...	...	...	...	...	See item 16.	......	...	24D 24E	R. A.
	64	GYMNASIUM	...	...	...	...	...		See item 17.			
	64A	GRAM STORE	...	...	...	...	...	M. D. letter No. 1278 M. W., dated 25th June 1887.	Is not authorised.			
	65	HARNESS-ROOMS.										
		Included under carpenter's and collar-maker's shops, see item 56.										
	66	INSTITUTE	...	...	...	...	...	...	......	...	67	B. I. modified to suit.
		For a battery of heavy field artillery.										

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Authority.	Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
Heavy Field Artillery—*contd.*		*(a)* Liquor bar portion—										
		Private's room	14	24	20	...	3,229					
		Bar or issue room and beer store	20	12								
		Corporal's room	20	10½								
		(b) Library portion—										
		Book-room	13	10½	20	...	2,966					
		Reading room	13	12								
		Librarian's quarter. Sitting room	16	14	20							
		Librarian's quarter. Bed-room	16	8⅞								
		Librarian's quarter. Bath-room in verandah	10	8	9½							
		(c) Recreation and refreshment portion—										
		Temperance room	14	24	20	...	6,668					
		Billiard room	28	24								
		Theatre Refreshment or supper room	28	24								
		Refreshment, issue and store rooms	9 9	12 10½								
		Caterer's quarters. Sitting room	16	14								
		Caterer's quarters. Bed-room	16	8⅞								
		Caterer's quarters. Bath-room in verandah	10	8	9½				See remarks against item 19.			
	67	LINES OF FOLLOWERS	...	...	...	...	...	...	See item 21.			
	67A	LITTER YARD	...	...	...	...	...	M. D. letter No. 1278 M. W., dated 25th June 1887.	Is not authorised.			
	68	MAGAZINE.										
		For a battery of heavy field artillery.										
		As for a battery of royal horse or light field artillery	...	...	...	...	400	...	...... See item 22.	...	60A to 60G	B. I. modified to suit.
	69	ORDERLY AND COURT-MARTIAL ROOM.										
		For a battery of heavy field artillery.										
		1 room	24	15	16	...	2,334	...	See item 24.	......	...	45	B. I.
		1 "	15	12	16	...						

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Arm of the service, Department, &c.	Item Number	Details	Length	Breadth	Height	Floor area per man	Plinth area of building	Detail of Orders, &c. Authority	Detail of Orders, &c. Particulars	Standard plan No.	Type plan No.	Type plan Series
Heavy Field Artillery—*contd.*		(*b*) AUXILIARY BUILDINGS—*contd.*	Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.					
	70	PARADE-GROUND	...	...	...	...		...	See item 25.			
	71	PAY OFFICE. Not authorised.										
	72	PLUNGE-BATH. *For a battery of heavy field artillery.* 1 bath	50	20	10½	...	1,191	...	...... See item 27.	...	63	B. I.
	73	QUARTER-GUARD AND CELLS. Same as for a battery of royal horse or light field artillery.	...		...		3,747 1,803	......	...... See item 28. NOTE.—Government refuse to sanction the provision of cells and prisoners' room for the native establishments attached to heavy field and mountain batteries (M. D. letter No. 680 M. W., dated 10th May 1886).	...	64A to 64D	B. I.
	74	RATION SHEDS	...	...	...		...	......	See item 29.			
	75	REAR GUARD	...	...	...	...	...	......	See item 30.			
	76	REGIMENTAL OR QUARTERMASTER'S STORE. *For a battery of heavy field artillery.*										
		Store room	24	21½	11	...	2,343	......	...... See item 31.	25	68	B. I.
		Tailors' workshop	24	15	11							
		Quartermaster's office	24	10	11 average							
		Dry store	13	8½	9							
	77	REGIMENTAL WORKSHOPS, VOLUNTARY.										

Arm of the service, Department, &c.	Item Number	Details	Length	Breadth	Height	Floor area per man	Plinth area of building	Detail of Orders, &c. Authority	Detail of Orders, &c. Particulars	Standard plan No.	Type plan No.	Type plan Series
Heavy Field Artillery—*contd.*	78	RELIGIOUS READING AND PRAYER ROOM. Same as for a battery of royal horse or light field artillery	...		...	...	...	......	...... See item 33.	44		
	79	SCHOOLS.										
		(i). *For 1 battery of heavy field artillery.*	Same as for 1 battery of royal horse or light field artillery.				2,246	......	......	...	71A to 71C	B. I
		(ii). *For 2 batteries of heavy field artillery.*	Same as for 2 batteries of royal horse or light field artillery.				3,079					
		(iii). *For 3 batteries of heavy field artillery.*	Same as for 3 batteries of royal horse or light field artillery.				3,449		See item 35.			
	80	SENTRY BOXES. 2 for each battery	3	3	...	...	...	......	...... See item 36.	115		
	81	SERGEANTS' MESS AND RECREATION ROOM. *For a battery of heavy field artillery.* Same as for a battery of royal horse or light field artillery.		...	...	...	2,691	......	See item 37. NOTE.—In the case of the heavy field battery at Mhow, I.G. of Mily. Works recommended the following scale of accommodation for the sanction of Government, *viz.*:— Mess room . . . 24′ × 15′ Caterer's room . . . 18′ × 12′ Pantry . . . . 12′ × 7½′ Beer godown . . . 20′ × 8′	...	67	B. I.
	82	SKITTLE ALLEY. *For a battery of heavy field artillery.* 1 skittle alley	38	16	7½	...	802	......	...... See item 38.	30	73	B. I.
	83	STABLES *For a battery of heavy field artillery.*	...	...	...	...	...	P. W. D. Cir. Jo. 29 of 1881.	Stabling for the 5 horses attached to a heavy field battery are to be added to the stables provided for other batteries at the same station. See item 39.	99	...	...
	84	VETERINARY HOSPITAL OR HORSE INFIRMARY. Not authorised, see item 54.							Not authorised, see item 54.			
	85	WELLS	...	...	...	...	...	......	See item 42.			

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Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. — Authority.	Detail of Orders, &c. — Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.					
Heavy Field Artillery—contd.		(c) SUBSIDIARY BUILDINGS.										
	86	COOK-HOUSES	...	...	...	...	...	......	See item 43.			
		(i). For the single rank and file of a battery of heavy field artillery.										
		(a) When the barracks are sufficiently close to each other	...	...	...	...	...	P. W. D. Cir. No 52 of 1869.				
		One cook-house containing—										
		2 kitchens, each	23½	16	12	...	1,534	......	...... See item 43 (i).	...	119A 119B	B. I.
		2 cooking places, each	16	5	24½	...						
		2 cook's rooms, each	10	10	8	...						
		(b) When the barracks are at a considerable distance from each other	...	...	...	...	...	P. W. D. Cir. No. 52 of 1869.				
		Two cook-houses, each containing—										
		1 kitchen	23½	16	12	...	762 each.	......	......	...	60	R. A.
		1 cooking place	16	5	21½	...						
		1 cook's room	10	10	8	...						
		(ii). For the married rank and file of a battery of heavy field artillery.										
		For the block of quarters for 3 married men—										
		A cook-house containing—										
		1 kitchen	12	6	9½	...	215	......	...... See item 43 (ii).	...	5A 5B	R.A.
		3 cooking chambers, each	3½	1½	16							
		(iii). For the block of quarters for 2 staff sergeants, class B, and 3 sergeants, class C.										
		1 kitchen	10½	6	9½	...	546	......			7B	R.A.
		1 "	16½	6	9½	...						
		5 cooking chambers, each	5	1½	16	...						

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. — Authority.	Detail of Orders, &c. — Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
Heavy Field Artillery—contd.		*(iv). For the warrant officers and staff sergeants attached to royal artillery district head-quarters.*	...	...	...	...	...	...	...... See item 43 (iv, v, vi and vii).	...	7A 7B 17	R.A. B. I.
		(v). For the institute. Same as for a battery of royal horse or light field artillery.	...	...	...	...	354	...	...... See item 43 (viii).	...	67	B. I.
		(vi). For the sergeants' mess. Same as for a battery of royal horse or light field artillery.	...	...	...	...	354	...	...... See item 43 (ix).	...	67	B. I.
	87	FUEL STORE FOR THE INSTITUTE	...	...	...	...	...	...	See item 44.			
	88	LATRINES	...	...	...	...	...	...	See item 46.			
		(i). For the single rank and file of a battery of heavy field artillery.	...	...	...	...	...	...	No scale of seats has been laid down for a heavy field battery; Public Works Department circular No. 16 of 1866 authorises the supply of 6 seats for the single rank and file (105 in number) of a garrison battery. It is proposed to provide the same number of seats for the 83 single rank and file of a heavy field battery.			
		One latrine with 6 seats—										
		Privy	16½	12	9	...	559	...	...... See item 46 (i).	...	4	R. A.
		Cart shed	11	8	7	...						
		Sweeper's room	8	6	7½	...						
		Dry earth shed	5½	4	4½	...						
		(ii). For the married rank and file of a heavy field battery.										
		(a) For the men—										
		One latrine with 1 seat	6	6	7⅚	...	74	...	...... See item 46 (ii).	...	17	B. I.
		(b) For the women—										
		One latrine with 2 seats—										
		Privy	12	5⅔	9	...	172	...	...... See item 46 (ii) (b).		7A to 7G	B. I.
		Entrance lobby	5⅔	5	9	...						
		(iii) For the gymnasium	...	...	...	...	...	...	See item 46 (iii).			
		(iv). For the block of quarters for the 5 staff sergeants and sergeants of a battery of heavy field artillery.										
		A latrine with 3 seats	12	8⅓	9	...	160	...	But see remarks against item 51	...	67	B. I.

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Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Detail of Orders, &c. Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
Heavy Field Artillery—*contd.*		(*c*) SUBSIDIARY BUILDINGS—*contd.*	Feet.	Feet.	Feet.	Supl ft.	Supl. feet.					
	88	LATRINES—*contd.*										
		(*v*). *For the warrant officers and staff sergeants attached to royal artillery district head-quarters.*	...	...	...	...	...	......	See item 46 (*vi*).			
		(*vi*). *For the quarter guard.* As for a battery of royal horse or light field artillery.	...	...	...	...	184	......	See item 46 (*iv*).	...	64B	B. I.
		(*vii*). *For the school.* As for a battery of royal horse or light field artillery.	...	...	...	...	257	......	See item 46 (*vii*).	...	71E	B. I.
		(*viii*). *For the sergeants' mess.* For 1 or more batteries a latrine with 2 seats .	10	5⅝	9	...	105	......	See item 46 (*viii*).	...	67	B. I.
	89	LAVATORIES	...	...	...	...	...	......	See item 45.			
		(*i*). *For the single rank and file of a battery of heavy field artillery.*										
		2 lavatories, each— Washing room for 10 basins	16	15	9	...	598 each.	......	See item 45 (*i*).	...	4	R. A.
		4 private ablution rooms, each	6½	5	9	...						
		(*ii*). *For the quarter-guard.*									64B	B. I.
		Washing room for 6 basins	16	9	9	...	356	......	See item 45(*ii*).			
		2 private ablution rooms, each	6½	5	9	...						
Heavy Field Artillery—*contd.*	90	URINARIES	...	...	...	...	...	......	See remarks against item 47.			
		(*i*). *For the single rank and file of a heavy field battery.*										
		1 urinary of 2 compartments for each of the 2 barracks . . .	6½	5	7	...	33 each.	......	See item 47 (*i*).			
		(*ii*). *For the married rank and file of a heavy field battery, 1 per barrack.*										
		1 urinary of 1 compartment	6½	2½	7	..	16	......	See item 47 (*ii*).			
		(*iii*). *For the gymnasium.*										
		(*a*) For officers— 1 urinary of 1 compartment	6½	2½	7	...	16					
		(*b*) For men— 1 urinary of 1 compartment	6½	2½	7	...	16					
		(*iv*). *For the institute of a battery.*										
		1 urinary of 3 compartments . . .	6½	7½	7	...	49	......	See item 47 (*iii*).			
		(*v*). *For the plunge-bath of a battery.*										
		1 urinary of 1 compartment	6½	2½	7	...	16	......	See item 47 (*v*).			
		(*vi*). *For the quarter-guard of a battery.*										
		1 urinary of 1 compartment	6½	2½	7	...	16	......				
		(*vii*). *For the schools of a battery.*										
		1 urinary of 1 compartment	6½	2½	7	..	16	......	See item 47 (*vii*).			

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Accommodation authorised for British Troops in the Plains—continued.

Arm of the service, Department, &c.	Item Number	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. — Authority.	Detail of Orders, &c. — Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
Heavy Field Artillery—*concld.*		(c) SUBSIDIARY BUILDINGS—*concld.*										
	90	URINARIES—*contd.*										
		(viii). *For the workshops.*										
		1 urinary of 1 compartment	6½	2½	7	...	16	G. of I., M. D., Cir. No. 7 M. W., dated 4 December, 1882.	Not to be provided if a latrine or urinary exists conveniently near.			
		(ix). *For the regimental offices, orderly-room, &c.*										
		1 urinary of 1 compartment	6½	2½	7	...	16	Ditto	Ditto ditto.			
		(x). *For the quarter-master's or regimental store.*										
		1 urinary of 1 compartment	6½	2½	7	...	16	Ditto	Ditto ditto.			

Arm of the service, Department, &c.	Item Number	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. — Authority.	Detail of Orders, &c. — Particulars.	Standard plan.	Type plan.	
Garrison Artillery.		(a) PRIMARY BUILDINGS.						I. A. Cirs., Clause 10 of 1883.	The strength of a battery of garrison artillery is—			
								I. A. Cirs., Clause 180 of 1890.	*Staff sergeants and sergeants.* 1 Battery sergeant-major, class B., staff sergeant. 1 Battery quartermaster-sergeant, class B., staff sergeant. 4 Sergeants, class C. Total . 6 Staff sergeants and sergeants. *Rank and file.* 5 Corporals. 5 Bombardiers. 97 Gunners. 2 Trumpeters. Total . 109 Rank and file. GRAND TOTAL . 115			
								G. of I., M. D., letter No. 2164 M. W. (Accommodation for Troops), dated 18th October 1887.	Fifty-six per cent. of the staff sergeants and sergeants and 4 per cent. of the rank and file are permitted to marry.			
									For list of royal artillery districts in Bengal, shewing head-quarters stations with the authorised warrant and non-commissioned staff, see pages 2 to 4.			
	91	BAND BARRACK Not authorised, see item 1.						Clause 74 of I. A. Cirs. for 1889.	Distribution of the Garrison Artillery of the Indian Army.			
	92	BARRACKS FOR SINGLE RANK AND FILE.	...	...	...	...	...	...	Accommodation is required for 105 single rank and file.			
		For a battery of garrison artillery.										
		Two barracks, each for 2 sergeants and 52 rank and file—										
		1 dormitory for 16 men .	60	24	20	90	16,372, excluding steps.					
		2 dormitories, each for 18 men, each . .	67½	24	20	90						
		2 day-rooms, each . .	32½	24	20	30						
		Store room . . .	10 7/18	8	9½	...						

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. — Authority.	Detail of Orders, &c. — Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
Garrison Artillery—*contd.*		(*a*) PRIMARY BUILDINGS—*contd.*										
	92	BARRACKS FOR SINGE RANK AND FILE—*contd.*										
		For a battery of garrison artillery—contd.							.. ...	76	4	R. A. modified so as to provide for 52 rank and file.
		Quarter for each sergeant comprises—										
		1 day-room . . .	16	14	20	483½	16,372, excluding steps.					
		1 bed-room . . .	16	11	20							
		1 bath-room . . .	10$\frac{1}{16}$	8	9½				See item 2.			
	93	BARRACKS FOR MARRIED RANK AND FILE.										
		For a battery of garrison artillery.	...	...	...	...	...	G. of I., M. D., letter No. 2164 M. W. (Accommodation for Troops), dated 18th October 1887.	Accommodation is required for— $\frac{4 \times 109}{100} = 4{\cdot}36$ or 4 families. This gives for a battery— $\frac{4 \times 30}{100} = 1{\cdot}20$, say 1 class I qr. $\frac{4 \times 60}{100} = 2{\cdot}40$, say 2 class II qrs. $\frac{4 \times 10}{100} = 0{\cdot}40$, say 1 class III qrs. To avoid multiplying buildings, 4 quarters, class II, might be given. See the case of a heavy field battery. See item 50.			

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Authority.	Particulars.	Standard plan.	Type plan.	Series.
Garrison Artillery—*contd.*		A block of 4 class II quarters—										
		Each quarter to comprise—										
		1 sitting room . . .	16	14	18$\frac{5}{6}$	411	4,528, exclusive of steps.	......	......	...	5 B	R. A. modified so as to provide for 4 class II quarters.
		1 bed-room . . .	14	10	18$\frac{5}{6}$							
		1 bath-room . . .	7½	6¼	10				See item 3.			
	94	QUARTERS FOR STAFF SERGEANTS AND SERGEANTS.										
		For a battery of garrison artillery.	...	...	...	...	...	......	The strength to be provided for (see page 63) is— 2 Sergeants, class B. 4 Sergeants, class C. The 4 class C men will be provided for in the quarters for sergeants built at the ends of the 2 barracks for single rank and file, see item 92. The remaining men, *viz.*, 2 staff sergeants, class B, will be accommodated in a special block of quarters. However, see remarks against item 4, page 10. It will probably not be found necessary to construct this special block.			
		A block of quarters for 2 sergeants, class B—										
		Each class B quarter—										
		1 sitting room . . .	16	16	18	496	2,822, exclusive of steps.		See remarks against item 4, which apply to this case.	...	7 B	R. A.
		1 bed-room . . .	16	10	18							
		1 bath-room . . .	10	8	10							
	95	QUARTERS FOR THE WARRANT OFFICERS AND STAFF SERGEANTS ATTACHED TO ROYAL ARTILLERY DISTRICT HEAD-QUARTERS.	...	...	...	...	...	......	See item 5, pages 11 and 12.			

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Accommodation authorised for British Troops in the Plains—continued.

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Detail of Orders, &c. Particulars.	Standard plan. No.	Type pln. No.	Type pln. Series
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.					
Garrison Artillery—*contd.*		(*b*) AUXILIARY BUILDINGS.										
	96	BOWLING ALLEY.										
		Not authorised, see item 8.										
	97	CRICKET GROUND						......	See item 10.			
	98	DRY EARTH STORE.										
		For a battery of garrison artillery.										
		One shed . . .	...	...	...	...	...	......	See item 11.			
	99	DRY STORE ROOM.										
		For a battery of garrison artillery.										
		One room	12	12	12	...	240	......	See item 12	26		
	100	FIRE-ENGINE SHEDS . .	...	...	...	...	...	......	See item 13.			
	101	FIVES COURT.							Not authorised for a single battery of garrison artillery.			
		For a battery of garrison artillery.										
		Same as for a battery of royal horse or light field artillery.	...	...	...	...	7,051	......	See item 14.	32		
	102	FURNITURE STORE.										
		For a battery of garrison artillery.										
		One open shed . . .	20	15	...	...	648					
		One store room . .	15	10	...	...						
		Chowkeedar's hut . .	10	10	...	...	179					
		Barrackmaster's office .	...	...	...	...	...	......	See item 15.			
	103	GUN-SHED.										
		None authorised										
Garrison Artillery—*contd.*	104	GYMNASIUM	...	...	...	...	...	......	See item 17.			
	105	INSTITUTE	...	...	...	...	...	......	......	...	67	B. I. modified to suit.
		For a battery of garrison artillery.	...	...	...	...	...	......	Same as for royal horse or light field artillery.			
		(*a*) Liquor bar portion—										
		Private's room . .	14	24	20	...	3,229					
		Bar or issue room .	20	12								
		Beer store . .										
		Corporal's room . .	20	10½								
		(*b*) Library portion—										
		Book-room . . .	13	10½	20	...	2,966					
		Reading room . .	13	12								
		Librarian's quarter. sitting room .	16	14								
		Librarian's quarter. bed " .	16	8⅞								
		Librarian's quarter. bath " in verandah	10	8	9½	...						
		(*c*) Recreation and refreshment portion—										
		Temperance room . .	14	24	20	...	6,668					
		Billiard " . .	28	24								
		Theatre . . .										
		Refreshment or supper room . . .	28	24								
		Refreshment, issue and store rooms . .	9 9	12 10½								
		Caterer's quarter. sitting room .	16	14								
		Caterer's quarter. bed " .	16	8⅞								
		Caterer's quarter. bath " in verandah .	10	8	9½	...			See remarks against item 19.			
	106	LINES FOR FOLLOWERS . .	...	...	...	...	...	...	See item 21.			
	107	MAGAZINE.										
		For a battery of garrison artillery.										
		None authorised.										

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Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.		Standard plan.	Type plan.	
								Authority.	Particulars.	No.	No.	Series.
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.					
Garrison Artillery—*contd.*		(*b*) AUXILIARY BUILDINGS—*contd.*										
	108	ORDERLY AND COURT-MARTIAL ROOM.										
		For a battery of garrison artillery.										
		1 room	24	15	15	...	2,334	...	...... See item 24.	...	45	B. I.
		1 room	15	12	16	...						
	109	PARADE-GROUND . . .	...	...	...	...	...	...	See item 25.			
	110	PAY OFFICE.										
		Not authorised.										
	111	PLUNGE-BATH.										
		For a battery of garrison artillery.										
		One bath . . .	50	20	10½	...	1,191	...	......	...	6	B. I.
	112	QUARTER-GUARD AND CELLS.							See item 27.			
		For a battery of garrison artillery.										
		Guard-room for 7 men .	30	24	20	90	3,747	...	......	...	64 A to 64 D	B. I.
		Lock-up for 6 men . .	22½	24	20	90						
		Three cells, each . .	13	10	16½	130	1,803		See item 28.			
	113	RATION SHEDS	...	...	...	...	...	...	See item 29.			
	114	REGIMENTAL OR QUARTERMASTER'S STORE.										
		One store room . .	21⅞	24	11	...	2,343	...	......	25	68	
		Tailor's workshop . .	24	15	11	...						
		Quartermaster's office .	24	10	11	...						
Garrison Artillery—*contd.*	115	REGIMENTAL WORKSHOPS, VOLUNTARY.										
		Not authorised . .	...		...	...	...	......	See item 32.			
	116	RELIGIOUS READING AND PRAYER ROOM	...	...	...	...	...	......	See item 33	44		
		Same as for a battery of royal horse or light field artillery.										
	117	SCHOOL ROOMS.										
		For a battery of garrison artillery.										
		Class room for 20 men .	24	22	20	...	2,194	......	......	...	35	R. A.
		Class room for 20 children .	24	18	20	...						
		Two water rooms, each .	10	6	average 10¾	...						
	118	SENTRY BOXES.							See item 35.			
		For a battery of garrison artillery.										
		Two for each battery, each .	3	3	...	...	...	......	See item 36	115		
	119	SERGEANTS' MESS AND RECREATION ROOM.										
		For a battery of garrison artillery.										
		Mess-room . . .	24	15	20	...	2,188	......	......	...	67	B. I.
		Caterer's room . .	18	12	average 9½	...						
		Pantry	12	7½								
		Beer store . . .	20	12					See item 37.			
	120	SKITTLE ALLEY.										
		For a battery of garrison artillery.										
		One skittle alley . .	38	16	7½	...	802	......	...... See item 38.	30	73	B. I.
	121	WELLS	...	...	...	...	...	......	See item 42.			

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Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
Garrison Artillery—*contd.*		(*c*) SUBSIDIARY BUILDINGS.										
	122	COOK-HOUSES	...	...	...	...	...	......	See item 43.			
		(i) *For the single men of a battery of garrison artillery.*										
		(*a*) When the barracks are sufficiently close to each other—	...	...	...	...	...	P. W. D. Cir. No. 52 of 1869.				
		One Cook-house containing—										
		2 kitchens, each .	23½	16	12	...	1,534	......	......	...	119A 119B	B. I.
		2 cooking places, each . . .	16	5	24½	...						
		2 cook's rooms, each . . .	10	10	8	...						
		(*b*) When the barracks are at a considerable distance from each other—	...	...	...	...	...	P. W. D. Cir. No. 52 of 1869.				
		Two cook-houses, each containing—										
		1 kitchen . . .	23½	16	12	...	762 each.	......	......	...	60	R. A.
		1 cooking place . .	16	5	24½	...						
		1 cook's room . .	10	10	8	...						
		(*ii*). *For the married rank and file of a battery of garrison artillery.*										
		For the block of quarters for 4 families, 1 cook-house containing—										
		2 kitchens, each . .	7¾	6	9½	...	346	...	See item 43 (*ii*).	...	5 A 5 B	R. A.
		4 cooking chambers, each .	3½	1½	16	...						
		(*iii*). *Cook-house for the block of quarters for the staff sergeants and sergeants of a battery of garrison artillery.*										

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Authority.	Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
Garrison Artillery—*contd.*		A cook-house containing—										
		1 kitchen . . .	10½	6	9½	...	158	......	...... But see remarks against item 54.	...	7 B	R. A.
		2 cooking chambers, each .	5	1½	16	...						
		(*iv*). *For the warrant officers and staff sergeants attached to royal artillery head-quarters.*	...	...	...	...	...	......	...... See item 43 (*iv, v, vi, and vii*).	...	7 A 7 B 17	R. A. B. I.
		(*v*). *For the institute.* Same as for royal horse artillery and light field artillery . . .	...	...	...	...	354	......	See item 43 (*viii*).	...	67	B. I.
		(*vi*). *For the sergeants' mess.* Same as for a battery of royal horse or light field artillery . .	...	...	...	...	354	......	...... See item 43 (*ix*).	...	67	B. I.
	123	FUEL STORE FOR THE INSTITUTE	...	...	...	...	...	......	This can be arranged for in the cook-house for the institute, or in a verandah room of the institute building.			
	124	LATRINES	...	...	...	...	...	......	See item 46.			
		(*i*). *For the single rank and file of a battery of garrison artillery.*	...	...	...	...	...	P. W. D. Cir. No. 16 of 1866.	Authorises the provision of 6 seats for a battery of garrison artillery.			
		One latrine with 6 seats—										
		Privy	16½	12	9	...	559	......	...... See item 46 (*i*).	...	4	R. A.
		Cart shed . . .	11	8	7	...						
		Sweeper's room . .	8	6	7½	...						
		Dry earth shed . .	5½	4	4½	...						
		(*ii*). *For the married rank and file of a battery of garrison artillery.*										
		(*a*) For the men—										
		One latrine with 1 seat .	6	6	7⅝	...	74	......	......	...	17	B. I.
		(*b*) For the women—										
		One latrine with 2 seats—										
		Privy	12	5¾	9	...	172	......	...... See item 46 (*ii*).	...	7A to 7G	B. I.
		Entrance lobby . .	5¾	5	9	...						

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.					
								Authority.	Particulars.		Standard plan.	Type plan.	
Garrison Artillery—*contd.*		(*c*) SUBSIDIARY BUILDINGS—*contd.*	Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.				No.	No.	Series.
	124	LATRINES—*contd.*											
		(*iii*). *For the block of quarters for the staff sergeants and sergeants of a garrison battery.*											
		A latrine with 1 seat	6	6	7⅝	...	74	......		......	...	17	B. I.
		(*iv*). *For the gymnasium* .	...	...	...	...	...	......	See item 46 (*iii*).				
		(*v*). *For the warrant officers and staff sergeants attached to royal artillery district headquarters.*	...	...	...	...	...	......	See item 46 (*vi*).				
		(*vi*). *For the quarter-guard of a battery of garrison artillery.*											
		Same as for a battery of royal horse or light field artillery.	...	...	...	...	184	......	See item 46 (*iv*).	......	...	64B	B. I.
		(*vii*). *For the school.*											
		(*a*) For a battery of garrison artillery.	Same as for a battery of royal horse or light field artillery.				257	......		......	...	71E	B. I.
		(*b*) For 2 batteries of garrison artillery.	Same as for one battery.				257						
		(*c*) For 3 batteries of garrison artillery.	Same as for 3 batteries of royal horse or light field artillery.				327	......	See item 46 (*vii*).				
		(*viii*). *For the sergeants' mess.*											
		Same as for a battery of royal horse or light field artillery.	...	...	...	...	105	......	See item 46 (*viii*).	......	...	67	B. I.
Garrison Artillery—*contd.*	125	LAVATORIES	...	...	...	...	...	...	See item 45.				
		(*i*). *For the single rank and file of a battery of garrison artillery.*											
		Two lavatories, each containing—											
		1 washing room for 12 basins.	18	16	9	...	654 each.	...	See item 45 (*i*).	......	...	4	R.A.
		4 private ablution rooms, each.	6½	5	9	...							
		(*ii*). *For the quarter-guard for a battery of garrison artillery*											
		One lavatory with—											
		1 washing room for 6 basins.	16	9	9	...	356	...	See item 45 (*ii*).	......	...	64B	B.I.
		2 private ablution rooms, each.	6½	5	9	...							
	126	URINARIES	...	...	...	...	...	...	See item 47.				
		(*i*). *For the single rank and file of a battery of garrison artillery.*											
		1 per barrack, 1 urinary of 2 compartments for each of the 2 barracks, each	6½	5	7	...	33 each.	...	See item 47 (*i*).				
		(*ii*). *For the married rank and file of a battery of garrison artillery.*											
		1 per barrack. 1 urinary of 1 compartment	6½	2½	7	...	16	...	See item 47 (*ii*).				
		(*iii*). *For the gymnasium.*											
		(*a*) For officers— 1 urinary of 1 compartment	6½	2½	7	...	16						
		(*b*) For men— 1 urinary of 1 compartment	6½	2½	7	...	16						
		(*iv*). *For the institute of a garrison battery.*											
		1 urinary of 3 compartments	6½	7½	7	...	49	...	See item 47 (*iii*).				

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Accommodation authorised for British Troops in the Plains—continued.

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.				
								Authority.	Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet			No.	No.	Series.
Garrison Artillery—*contd.*		(*c*) SUBSIDIARY BUILDINGS—*contd.*										
	126	URINARIES—*contd.*										
		(*v*). *For the plunge-bath of a garrison battery.*										
		1 urinary of 1 compartment	6½	2½	7	...	16	...	See item 47 (*v*).			
		(*vi*). *For the quarter-guard of a battery.*										
		1 urinary of 1 compartment	6½	2½	7	...	16					
		(*vii*). *For the school of a battery.*										
		1 urinary of 1 compartment	6½	2½	7	...	16		See item 47 (*vii*).			
		(*viii*). *For the workshops.*										
		None required.										
		(*ix*). *For the regimental offices, orderly-room, &c.*										
		1 urinary of 1 compartment	6½	2½	7	...	16	G. of I., M. D., Cir. No. 7 M.W., dated 4th December 1882.	Not to be provided if a latrine or urinary exists conveniently near.			
		(*x*). *For the quartermaster's or regimental store.*										
		1 urinary of 1 compartment	6½	2½	7	...	16	Ditto.	Ditto ditto.			
A Regiment of British Cavalry.								I. A. Cirs., Clause 144 of 1888.	The strength of a regiment of British cavalry is— *Warrant officers.* 1 Regimental sergeant-major. 1 Bandmaster. 1 Schoolmaster. 1 Schoolmistress. Total . 4 Warrant officers. *Staff sergeants and sergeants.* 1 Quartermaster sergeant, class A. 1 Sergeant insrtuctor of fencing, class B. 1 Sergeant trumpeter, class B. * 1 Paymaster sergeant, class B. 1 Armourer sergeant, class B. 1 Saddler sergeant, class B. 1 Farrier quartermaster sergeant, class B. 1 Orderly-room sergeant, class B. 8 Troop sergeant-majors, class B. 1 Troop sergeant-major rough-rider, class C. 23 Sergeants, class C. 8 Sergeant-farriers, class C. Total . 48 Staff sergeants and sergeants. *Rank and file.* 8 Trumpeters. 32 Corporals. 4 Shoeing smiths. 4 Assistant saddlers. 504 Privates. Total . 552 Rank and file. GRAND TOTAL . 604			
								Special I. A. Cir. of 15th July 1890.	* Paymaster sergeants will be gradually absorbed, an additional corporal being added to the establishment of each regiment to assist in pay duties.			
								G. of I., M. D., letter No. 2164 M. W. (Accommodation for Troops), dated 18th October 1887.	Forty per cent. of the staff sergeants and sergeants and 3 per cent. of the rank and file are allowed to marry.			

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Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.					
A Regiment of British Cavalry—contd.		(a) PRIMARY BUILDINGS.										
	127	BAND BARRACK	...	...	...	...	...	......	The band barrack of a British infantry battalion corresponds in size to a half-company barrack (P. W. D. Circular No. 85 of 1869). The band barrack for a British cavalry regiment should correspond in size to a half-troop barrack. With a band barrack of this size it is not necessary to provide a separate band practice room. See also item 145 on this point. All orders affecting barracks for single men apply equally to the band barrack.		{6 A to 6 I}	B. I.
		2 dormitories, each for 16 men, each	60	24	20	90	11,816, excluding steps.					
		1 day-room	40	24	20	30						
		Quarters for 2 sergeants, each comprising—										
		1 day-room	16	14	20	$483\frac{1}{2}$						
		1 bed-room	16	11	20							
		1 bath-room	$10\frac{7}{16}$	8	$9\frac{1}{2}$			P. W. D. Cir. No. 17 of 1866.	The band is to have its own distinct barrack.			
		Band store room	$10\frac{7}{16}$	8	$9\frac{1}{2}$	...		P. W. D. letter No. 421 of 1874.	The band consists of a sergeant and 15 privates.			
	128	BARRACKS FOR SINGLE RANK AND FILE.	...	...	...	...	...	......	Total numbers of rank and file in a British cavalry regiment= . . 552 *Deduct*— (i). Married rank and file at 3 per cent. . . . 17 (ii). 15 privates of the band and 8 trumpeters . . . 23 — 40 Strength per half-troop=$\frac{512}{16}$= 32 men.			
		Sixteen barracks, each for half a troop (2 sergeants and 32 rank and file), each containing—										
		2 dormitories, each for 16 men, each	60	24	20	90						
		1 day-room	40	24	20	30						
		Store room	$10\frac{7}{16}$	8	$9\frac{1}{2}$	...	11,815 each, excluding steps.					
		The quarter for each sergeant comprises—						......	......	...	{6 A to 6 I}	B. I.
		1 day-room	16	14	20	$483\frac{1}{2}$						
		1 bed-room	16	11	20							
		1 bath-room	$10\frac{7}{16}$	8	$9\frac{1}{2}$				The remarks made against item 2 are equally applicable to this case.			
	129	BARRACKS FOR MARRIED RANK AND FILE.	...	...	...	...	...	G. of I., M. D., letter No. 2164 M. W. (Accommodation for Troops), dated 18th October 1887.	Accommodation is required for $\frac{552\times3}{100}$=16·56, say 17 married rank and file.			
A Regiment of British Cavalry—contd.		(a) *One block of 7 quarters, 5 class I and 2 class III.*						P. W. D. Cir. No. 59 of 1874.	$\frac{17\times30}{100}$=5 of the quarters will be class I. $\frac{17\times60}{100}$=10 ditto class II. $\frac{17\times10}{100}$= 2 ditto class III. Total . 17 quarters.			
		Each class I quarter consists of—										
		1 day and bed-room	16	14	$18\frac{5}{6}$	271	6,804, exclusive of steps.				{6 A 6 B} {5 A 5 B} {7 A to 7 E}	B.C. R.A. B. I.
		1 bath-room	$7\frac{1}{2}$	$6\frac{1}{4}$	10							
		Each class III quarter consists of—										
		1 day-room	18	16	$18\frac{5}{6}$	495						
		1 bed-room	16	10	$18\frac{5}{6}$							
		1 bath-room	$7\frac{1}{2}$	$6\frac{1}{4}$	10							
		(b) *One block of 10 class II quarters.*										
		Each class II quarter consists of—										
		1 day-room	16	14	$18\frac{5}{6}$	411	9,393	......	......	...	5 B	R. A.
		1 bed-room	14	10	$18\frac{5}{6}$							
		1 bath-room	$7\frac{1}{2}$	$6\frac{1}{4}$	10							
	130	QUARTERS FOR WARRANT OFFICERS—							See remarks against item 3.			
		(i). *For the regimental sergeant-major.*										
		Same as for royal artillery, see item 5.	...	...	...	736	1,761	......	...... See item 5.	...	17	B. I.
		(ii). *For the bandmaster.*										
		Same as for the regimental sergeant-major.	...	...	...	736	1,761	......	...... See item 5.	...	17	B. I.
								P. W. D. Cir. No. 65 of 1867. Do. do. No. 73 of 1870. Do. do. No. 11 of 1871. G of I., P. W. D., letter No. 1050 of 1874.	Detached quarters, class A, as for a sergeant-major, are to be provided. Military bandmasters should always be provided with public quarters. Civil bandmasters are not to be provided with public quarters. The out-offices authorised for a sergeant-major are to be provided for the bandmaster.			
		(iii). *For the schoolmaster.*										
		Same as for the regimental sergeant-major.	...	...	...	736	1,761	......	...... See remarks against item 5.	...	17 21	B. I. B. C.

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Acts of the several Departments, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
		(a) PRIMARY BUILDINGS—*contd.*										
	130	QUARTERS FOR WARRANT OFFICERS—*contd.*										
		(iv). *For the schoolmistress.*										
		Same as for the regimental sergeant-major.	...	...	...	736	1,761	......	...... See remarks against item 5.	...	17 21	B. I. B. C.
	131	QUARTERS FOR THE STAFF SERGEANTS AND SERGEANTS.	...	...	...	...	...	......	For numbers and classes, see page 75. There are 34 quarters for sergeants at the ends of the single men's barracks and the band barrack, and a sergeant (class C) will probably be housed in each of the following buildings:— The institute, the canteen sergeant. The quarter-guard, the provost sergeant. The officers' mess, caterer. Provision is thus made for— (i) The 32 class C sergeants. (ii) The sergeant trumpeter, class B. (iii) Four other class B sergeants (troop sergeant-majors). There remain to be provided for— 1 class A staff sergeant. *10 class B staff sergeants. For these a special block of quarters should be built. See remarks against item 4.			
		A block of quarters for 1 class A and 10 class B staff sergeants.										
		Each class A quarters comprises—						Special I. A. Cir. of 15th July 1890.	* Paymaster sergeants will be gradually absorbed, an additional corporal being added to the establishment of each regiment to assist in pay duties.			
		1 sitting room . . .	16	16	18	676	11,368, excluding steps.					
		2 bed-rooms . . .	16	10	18							
		1 bath-room . . .	10	10	18							
		Each class B quarters comprises—						......	......	...	8 18 A	B. C. B. I.
		1 sitting room . . .	16	16	18	496			NOTE.—The sergeants' quarters at the ends of the single men's barracks and the band barrack provide 400 s. feet per sergeant, exclusive of the bath-room. The authorised area for class B and class C sergeants is 416 s. feet and 364 s. feet per man, respectively; hence these quarters are available for either class B or class C sergeants.			
		1 bed-room . . .	16	10	18							
		1 bath-room . . .	10	8	10							

Acts of the several Departments, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Authority.	Particulars.	Standard plan. No.	Type plan. No.	Series.
		(b) AUXILIARY BUILDINGS.										
	132	ARMOURER'S SHOP.										
		Work room	30	24	16½	...	2,189	...	......	...	41A 41B 41C	B. I.
		Forge room	24	9½	16½	...						
		Water and wood store . .	10	10	10	...						
		Drying room	10	10	10	...						
								P. W. D. Cir. No. 51 of 1874.	Bench is to be fixed to the north and the forge to the south. Roof may be either flat or ben, whichever is more suitable to the locality.			
	133	BLACKSMITH'S FORGE AND SHOEING SHED.										
		Forge room	50	20	16	...	2,592	...	......	80		
		Store room	20	8½	16	...						
		Shoeing shed	61	15	10	...						
								P. W. D. Cir. No. 36 of 1864.	Lays down scale of accommodation to be provided for British cavalry. Building is to be centrically situated as regards the stables.			
								P. W. D. letter No. 34, dated 6th January 1874.	Says a third forge may be provided where necessary.			
								M. D letter No. 654 M. W. of 1882.	Government refuse to sanction a 4th forge for a British cavalry regiment.			
									See item 6.			
	134	BLACKSMITH'S FORGE AND WORKSHOP, VOLUNTARY.										
		Forge	22	22 or 24	...	...	Approximate 900					
								P. W. D. Cir. No. 31 of 1866.	To be a detached building surrounded by a verandah and placed near the armourer sergeant's quarters.			
								P. W. D. Cir. No. 53 of 1868.	Bonnets, flues or other suitable means to be provided for carrying off smoke.			
								P. W. D. letter No. 864 M. W. of 28th October 1881.	Anvil blocks are to be supplied as fixtures by the Military Works Department.			
	135	BOILING HOUSE AND GRAIN STORE FOR THE VETERINARY HOSPITAL.										
		Boiling house	8	8	8¼	...	210	...	...... See item 7.	...	20	R. A.
		Grain store	8	8	8¼	...						
	136	BOWLING ALLEY.										
		Alley	66	18	7½	...	1,540	P. W. D. Cir. No. 11 of 1865.	Sanctions the conversion of one of the two authorized skittle alleys into a bowling alley.	30	...	...
	137	CRICKET GROUND	...	...	...	...	...	...	See item 10.			
	138	DRY EARTH STORE										
		2 sheds, each	...	...	...	...	...	...	See item 11.			

Arm of the service, Department, &c.	Item Number	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.: Authority.	Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
A Regiment of British Cavalry—*contd.*		(*b*) AUXILIARY BUILDINGS—*contd.*										
	139	DRY STORE ROOM.										
		1 room	15	15	12	...	443	...	...... See item 12. It is now usual to provide this in the same building as the regimental store, see item 157.	26		
	140	FENCING SCHOOLS.										
		1 room	50	24	...	...	...	P. W. D. Cir. No. 9 of 1871. P. W. D. Cir. No. 50 of 1871.	Boarded floors are to be provided in fencing schools. A room, 50' by 24' = 1,200 square feet, is to be provided for each regiment of British cavalry. When such accommodation cannot be arranged for in the gymnasium barrack, a separate building may be provided. But see item 145, the theatre room of the regimental institute can be used for fencing.			
	141	FIRE-ENGINE SHED . . .	...	...	...	...	...	B. B. Regns., Vol. I, para. 586.	Engine-sheds of British cavalry regiments should be built near quarter-guards or stables.			
		1 engine-shed . .	24	13	8	...	416	... I. A. Regns., Vol. III, Equipment, Part II, Sec. VII, Table V.	...... One fire-engine is allowed— (*i*). Per regiment of British cavalry. (*ii*). One extra per British regiment of cavalry having thatched stables. (*iii*). Per out-station when British troops are located in thatched barracks. (See also general orders.)	...	48	B. I.
	142	FIVES COURTS.										
		Two Courts, each containing—										
		2 ball courts, each . .	45	30	...	...	each 7,051	...... P. W. D. Cir. No. 7 of 1868. P. W. D. Cir. No. 11 of 1865.	...... Two sets of courts are to be given to each regiment of British cavalry and battalion of British infantry. See remarks against item 14.	32	...	...
		2 fives courts, each . .	45	42¼	...	...						

Arm of the service, Department, &c.	Item Number	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Authority.	Particulars.	Standard plan No.	Type plan No.	Series.
A Regiment of British Cavalry—*contd.*		Chowkidar's hut . .	10	10	...	...	179		See item 15.			
		Barrackmaster's office .	...	...	...	...	...					
	144	GYMNASIUM	...	...	...	...	...		See item 17.			
	145	INSTITUTE	...	...	...	...	...	Desp. from the S. of S. for India, No. 205 Mily., dated 31st October 1889.	The Secretary of State for India approves of the latest proposals put forward by Government as regards space to be given in an institute for a British cavalry regiment. The space authorised is— S. ft. (*a*) Liquor bar portion . . . 1,998 (*b*) Library „ . . . 1,374 (*c*) Recreation and refreshment portion . . . . . . 4,926 TOTAL . 8,298 This is exclusive of bath-rooms.	...	67	B. I. modified to suit.
		(*i*). *Liquor-bar.*										
		Private's room . .	28	24	20	...	6,090					
		Bar or issue room . .	10	24								
		Beer store . . .	16	24								
		Corporal's room . .	14	24								
		Sergeant's quarter. 1 sitting room	16	14								
		1 bed „	16	8⅞								
		1 bath „ in verandah	10	8	9½							
		(*ii*). *Library.*										
		Book-room . . .	12	24	20		4,568					
		Reading room . . .	30	24								
		Librarian's quarter .	16	14								
			16	8⅞								
			10	8	9½							
		(*iii*). *Recreation and refreshment rooms.*										
		Temperance room . .	28	24	20		12,653					
		Billiard room . . .	28	24								
		Games room . . .	28	24								
		Theatre	45	24*								
		Refreshment or supper room	45	24*								
		Refreshment, issue and store rooms . . .	16	24								
		Caterer's quarters .	16	14								
			16	8⅞								
			10	8	9½							

* The theatre and supper rooms might be thrown into one.

The scales do not include subsidiary buildings. These must be separately provided for.

No account is taken of accommodation which is usually or can be provided by enclosing portions of outer verandahs, *e.g.*, the small store room of a liquor bar.

Accommodation authorised for British Troops in the Plains—continued.

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
A Regiment of British Cavalry—*contd.*		(*b*) AUXILIARY BUILDINGS—*contd.*										
	145	INSTITUTE—*contd.*										
		(*iii*). *Recreation and refreshment rooms*—contd.						G. of I., M. D., letter No. 1927 M. W. (Accommodation for Troops), dated 23rd September 1889.	As regards the inner verandah space of barracks with double verandahs, Government say that "the inner verandah space shall usually be reckoned as a part of the area admitted; any special case might be considered on its own merits."			
								G. of I., M. D., letter No. 31 M. W. (Accommodation for Troops European), dated 6th January 1890.	Besides theatricals, the theatre room is also intended to be used for such regimental purposes as fencing, band-practice and lectures. In all cases of new construction the liquor-bar portion of the institute is to be provided for in a building by itself; this should, wherever practicable, be provided for in the case of re-appropriations. See also remarks against item 19.			
	146	LINES	...	...	...	...	...	P. W. D. Cir. No. 7 of 1868.	Forwards block plan of lines for a regiment of British cavalry.	69		
	147	LINES FOR FOLLOWERS	...	...	...	...	...	......	See item 21.			
	148	MAGAGINE	...	...	...	...	...	......	See item 22.			
		According to type plan—										
		Ammunition room	16	10	16⅛	...	451	......	......	...	60A to 60G	B. I.
		Powder room	8	6	16⅛							
		Lobby	7¼	6	16⅛							
		Enclosure wall	...	...	...	...	...	......	......	...	61	B. I.
								P. W. D. Cir. No. 48 of 1874.	Enclosure walls to be provided for all magazines for British troops.			
								P. W. D. Cir. No. 2 of 1879.	The service allotments (less to to 20 rounds in men's pouches) and practice ammunition of all corps at stations or garrisons other than single stations should be stored in a central magazine, or in a fort where one is at hand, under guard of British soldiers, the ammunition of each corps being in a separate compartment. At single stations the ammunition is to be stored in a fort, if available. In order to carry out the above, it may be necessary in some stations to build central magazines, in others to construct additional compartments unto existing magazines of British troops. See also paragraphs 227 to 280, 284, 293, 301 and 334 of India Army Regulations, Volume III: "The number of rounds per man to be kept in regimental magazines is to be regulated under orders issued by the Commander-in-Chief India." In designing magazine accommodation, it will not always be necessary to give compartments of the size shewn in type plans. The number of rounds to be stored for each corps having been decided in communication with the Adjutant General, the size of the compartments should be regulated accordingly. The trestle shewn in type plans can carry 68 boxes of Martini-Henri ammunition, each box containing 600 rounds. In the case of the central (or station) magazine for Sialkote, His Excellency the Commander-in-Chief decided that there was no objection to this magazine being built in an uncentral position. As a rule, it will only be necessary to provide storage room for the service and *half* the practice ammunition of each corps,—see paragraph 301 of India Army Regulations, Volume III.			
A Regiment of British Cavalry—*contd.*	149	NIGHT PICQUET GUARD-ROOMS FOR STABLES.	...	...	...	...	...	P. W. D. Cir. No. 70 of 1870.	Accommodation is to be provided for 12 men, including non-commissioned officers.			
		1 room	45	18	15	67·5	1,043	P. W. D. Cir. No. 42 of 1869.	Accommodation for night stable picquets to be in a separate building; each man to have 7½ running feet in a building 18 feet wide and 15 feet high to wall-plate, but without any verandahs.			
	150	ORDERLY AND COURT-MARTIAL ROOMS.										
		Orderly-room	24	20	20	...	5,373	......	See item 24.	38	45	B. I.
		Bath-room	11 11/16	11 11/16	9½							
		Court-martial room	36	20	20							
		Officers' room	20	18	20							
		Do. do.	20	12	20							
		Officers' bath-room	11 11/16	6	9½							

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Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Details of Orders, &c.				
								Authority.	Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
A Regiment of British Cavalry—*contd.*		(*b*) AUXILIARY BUILDINGS—*contd.*										
	151	PARADE-GROUND	...	...	...	...	...	......	See item 25.			
	152	PAY OFFICE										
		1 room	24	15	16	...	509		Note.—No scale laid down except for a regiment of British infantry in the hills. In the other cases in the plains, the details given are taken from the plans showing the area considered by Government sufficient for the purpose when allotting to auxiliary purposes the lower floors of double-storied barracks. Accommodation can be given under same roof as the orderly and court-martial rooms.			
	153	PLUNGE-BATH.										
		2 baths, each	66	20	10½	...	1,553 each.	......	...... See item 27. See also item 176 (*vi*)	35	63	B. I.
	154	QUARTER-GUARD AND CELLS.										
		Guard-room for 18 men	67½	24	20	90	7,505.	......	......	...	64 A to 64 D	B. I.
		Lock-up for 12 men	45	24	20	90						
		Provost sergeant's quarters—										
		1 day-room	16	14	20	467·5						
		1 bed-room	16	11	20							
		1 bath-room	8 5/16	8	9½							
		Six cells, each	13	10	16⅓	130	2,978	P. W. D. Cir. No. 70 of 1870.	Accommodation is to be provided in ordinary guard for 18 men, including non-commissioned officers, in lock-up for 12 men, and in cells for 6 men. See item 28.			
	155	RATION SHEDS	...	...	...	...	...	......	See item 29.			
	156	REAR GUARD	44	24	16	...	...	......	......			
A Regiment of British Cavalry—*contd.*	157	REGIMENTAL OR QUARTERMASTER'S STORES.										
		3 store rooms, each	41⅔	24	11	...	6,379	......	...... See item 31.	...	17	B. C.
		Tailor's workshop	24	15	11	...						
		Quartermaster's office	24	10	11 average	...						
		Dry store room	13	8½	9	...						
	158	REGIMENTAL WORKSHOPS, VOLUNTARY.										
		Carpenter's shop	50	22	16½	...	7,782	......	......	41	69	B. I.
		Carpenter's store room	41	12	9¼	...						
		Painter's shop	22	22	16½	...						
		Tinsmith's shop	22	14	16½	...						
		Shoe-maker's shop	22	22	16½	...						
		Book-binder's shop	14	10¼	16½	...						
		Watch-maker's shop	14	10¼	16½	...						
		Printer's shop	25	22	16½	...						
		Two water rooms, each	8	8	9¼	...						
	159	RELIGIOUS READING AND PRAYER ROOM.										
		For a regiment of British cavalry.										
		1 main room	24	18	20	...	1,685	......	...... See item 3.	44	...	...
		2 side rooms, each	14	8	12	...						
		Porch	10	10	12	...						
	160	RIDING SCHOOLS.										
		2 manéges, each	180	60	...	...	...	...... M. D. Cir. No. 3 M. W. of 1882. M. D. letter No. 16 M. W. of 10th January 1882.	...... Sanctions the provision and maintenance by the State of two enclosed riding schools for each regiment of British cavalry. Manége to be 180′ by 60′ inside, surrounded by a wall 4′ 6″ high. An 8′ gate to be given at one end and a platform 6′ by 6′ and 4′ 6″ high, with steps leading up to it, at the other.	...	37	R. A.
	161	RIFLE RANGE	...	...	...	...	...	The Indian Appendix to the British Musketry Regulations.	*Para. 170.*—Rules for selecting sites for ranges. *Para. 171.*—Documents required to accompany the estimate for a rifle range. *Para. 172.*—Work is to be done regimentally, if possible; the necessary materials being supplied by the Military Works Department and the cost of the labor paid by it (on the completion of the work) on a contingent bill duly vouched. *Para. 173.*—If troops cannot undertake the work, the Military Works Department is to do it.			

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.				
								Authority.	Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
A Regiment of British Cavalry—*contd.*		(*b*) AUXILIARY BUILDINGS—*contd.*										
	161	RIFLE RANGE—*contd.*							*Para. 175.*—At stations where there is little liability of danger to surrounding buildings or travellers on adjacent roads, the height of the stop butt may be reduced to 14 or 16 feet according to the discretion of the local authorities; but if there should be danger, it may in like manner be raised to 20 feet or more, if considered necessary for safety. The stop butt should have the same slope in rear as in front. *Para. 176.*—When soil is good clay and the rainfall small, the stop butt should be composed of solid mud well rammed with a base 12 to 20 feet wide according to description of soil used. *Para. 177.*—When the soil is not good clay and the rainfall great, the slopes of the stop butt are to be formed at an angle at which the soil will stand, and turfed if possible. *Para. 180.*—An additional mud wall or buttress of loose earth—*not part of the stop butt*—is to be built or thrown up behind the platforms where the targets are placed. This wall or buttress to be about 10 feet high and 4 feet thick. They are not required with butts composed of earth thrown up at an angle of 45° or less. *Para. 187.*—Firing points to be measured and marked off by means of distance-indicators. *Paras. 188 and 189.*—Firing platforms are to be given if necessary. *Para. 190.*—Minimum distance between parallel ranges is to be 90 yards. *Para. 196.*—Ranges to be extended beyond 800 yards under certain circumstances. *Paras. 197 to 219.*—Rules for maintenance and repair of ranges. For the latest approved plan of rifle range adopted for the use of canvas targets, see plan at page 193 of Regulations for conducting the musketry instruction of the Native army (edition, 1888).			
								M. W. D. Cir. No. 1B., dated 5th January 1889.	In altering existing ranges to adapt them to the canvas target system, Government sanction such work as cannot be carried out regimentally being charged to the military works grant. ——— The rails required for the targets are to be provided regimentally from the lead and cartridge case funds.			

A Regiment of British Cavalry—*contd.*	162	SADDLE AND STORE ROOMS.										
		(*a*) *If each troop has a separate building.*										
		Eight buildings, each—										
		Saddle room	30	24	16	...	3,317 each.					
		Store room	24	10	16	...						
		(*b*) *If each squadron (2 troops) has a separate building.*										
		Four buildings, each—										
		2 saddle rooms, each	30	24	16	...	5,038 each.	P. W. D. Cir. No. 46 of 1874.	Forwards standard plan of building for two troops. Separate buildings may be provided for each troop when such are rendered necessary by any peculiar circumstances connected with the disposition of barrack buildings or nature of ground. Sites of buildings should, if possible, be midway between barracks and stables. Verandah is to have either a flat roof supported on a masonry arcaded front, or a tiled roof supported on wooden or iron posts. Protection from the weather to be given to the men whilst at work in the verandahs by filling in every alternate space between the front supports with louvres or canvas purdahs. For each saddle room is to be provided— 3 longitudinal ranges of saddle racks—placed 6' from the wall and 7' apart centre to centre—total height not to exceed [illegible]9". 24 single saddle racks attached to walls of saddle rooms in two rows, the one 5' 6" and the other 3'6" above floor. Each saddle to have under its rack a peg or hook for the bridle. About 40 bridle pegs to be attached to external side of the main walls in the verandah, about 5' 6" from the floor.	88	19	B. C.
		2 store rooms, each	24	10	16	...						
								P. W. D. Cir. No. 20 of 1881.	No expense is to be incurred in specially providing saddle rooms at stations where they do not at present exist. Where such buildings have already been built there is no objection to their being used for the purpose for which constructed.			
	163	SADDLER'S AND SADDLE-TREE-MAKER'S WORKSHOP.										
		Saddler's shop—										
		1 room	30	20	16	...	3,975	P. W. D. Cir. No. 57 of 1871.	Forwards standard plan.		...	
		2 rooms, each	30	10	11½	...						
		Water room	10	10	11½	...						
		Saddle-tree-maker's shop—				...		...	...		20	B. C.
						...						
		1 room	30	20	16	...						
		2 rooms, each	30	10	11½	...						

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.				
								Authority.	Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
A Regiment of British Cavalry—*contd.*		(*b*). AUXILIARY BUILDINGS—*contd.*										
	164	SCHOOL ROOMS.										
		Class room for 64 men	48	24	20	...	6,530	...	...	...	21	B. C.
		Do. 36 children	22	24	20	...						
		2 water rooms, each	6	10	average 10½	... ...						
		Quarters for schoolmaster—				...						
		Sitting room	16	16	20	...						
		2 bed-rooms, each	16	10	20	...						
		Bath-room	10	10	20	...						
		Quarters for schoolmistress—				...						
		Sitting room	16	16	20	...						
		2 bed-rooms, each	16	10	20	...						
		Bath-room	10	10	20	...			See remarks against item 35.			
	165	SENTRY BOXES.										
		According to circumstances—each	3	3	...	...	...	...		115	...	...
								P. W. D. Cir. No. 86 of 1864.	Forwards standard plan. Sides to be of light boarding, the upper half being made to open or close at pleasure. The plan need not be considered as a *fixed* standard, but when it is desired to adopt another pattern, drawings of it are to be submitted to Government, after one box has been tried, together with reports on it by the military authorities.			
								P. W. D. Cir. No. 65 of 1865.	Sentry boxes are to be classified as "Fixtures."			
								P. W. D. Cir. No. 90 of 1865.	Authorises the provision of sentry boxes to regiments of British cavalry under the following circumstances, and to the extent specified :— *1st*—When the barrack buildings noted in the margin (Quarter-guard, Quartermaster's store, Canteen.) are unprovided with verandahs, a sentry box may be provided at each building. *2nd*—A sentry box may be provided for the magazine, as the standard plan for this building gives no verandah. *3rd*—When ranges of stables exist, a sentry box may be allowed for each range; but when the horses are picketted in open lines, only four sentry boxes, *viz.*, one per squadron, are authorised. *4th*—A sentry box is also required for the infirmary stable.			
A Regiment of British Cavalry.—*contd.*	166	SERGEANTS' MESS AND RECREATION ROOM.										
		Mess room	50	24	20	...	5,670	...	See item 37.	...	67	B. I.
		Recreation room	30	24	20	...						
		Beer store room	24¼	11$\frac{11}{16}$	average 11	... ...						
		Caterer's room	18	11$\frac{11}{16}$	11	...						
		Pantry room	11$\frac{11}{16}$	8	11	...						
								P. W. D. Cir. No. 6 of 1867.	At all stations at which it may be considered that fires would prove comfortable during the cold season, fire-places should be provided in sergeants' messes and recreation rooms.			
	167	SKITTLE ALLEY.										
		*2 skittle alleys, each	38	16	7½	...	802 each.	* P. W. D. Cir. No. 11 of 1865.	One of these may be converted into a bowling alley, see item 136.			
								P. W. D. letter No. 746 M. W., dated 16th December 1880.	Approves revised standard plan for the plains.	30	73	B. I.
	168	STABLES.	...	...	...	...	...	Clause 50 of I. A. Cirs. for 1886.	The strength of horses in British cavalry regiments serving in India is as follows :— One horse for each non-commissioned officer and trumpeter, and 85 per cent. of the strength of troopers; or 90 non-commissioned officers (sergeants, including sergeant trumpeters and farriers 50, trumpeters 8, and corporals 32) at one horse each . . 90 horses. 512 troopers at 85 per cent., *i.e.*, minus 77 . . . . 435 „ TOTAL . 525 „	90 118		
		Eight stables, each for 1 troop or 66 horses, each stable comprising—										
		6 compartments, each for 8 horses, each.	64	12	...	...	10,472 each.					
		2 compartments, each for 9 horses, each.	72	12								
		1 central passage	268½	7					The stables for a British cavalry regiment should be built in 8 blocks, each for 66 horses. See remarks against item 39.			

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Particulars.	Standard plan. No.	Type plan. No.	Series.
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.					
		(b) AUXILIARY BUILDINGS—*concld.*										
	169	VETERINARY HOSPITAL OR HORSE INFIRMARY.	...	...	...	...	...	......	See item 40, detailing stations at which chief and branch hospitals are to be formed, &c., &c.			
		2 compartments, each for 11 standings, each	88	13	15½	...	5,957	......	......	87		
		4 loose boxes, each	16	13½	15½	...						
		Casting shed	37	16	15½	...						
		Surgery	16	13	15½	...						
		Office	16	13	15½	...						
	170	WAGON, DUMMY, RAILWAY	...	...	...	...	...	......	...... See remarks against item 41.	...	38A 38B	R.A.
	171	WELLS	...	...	...	...	...	......	See remarks against item 42.			
		(c) SUBSIDIARY B...										
	172	COOK-HOUSES	...	...	...	...	...	......	...... See remarks against item 43.			
		(i). *For the single rank and file.*										
		Four cook-houses, each for 2 troops, each containing—										
		2 kitchens, each	23½	16	12	...	1,534 each.	.....	...... See item 43(i).	...	119A 119B	B. I.
		2 cooking places, each	16	5	24½							
		2 cook's rooms, each	10	10	8							
		(ii). *For the band barrack.*										
		One cook-house containing—										
		1 kitchen	23½	16	12	...	762					
		1 cooking place	16	5	24½	...						
		1 cook's room	10	10	8	...						
		(iii). *For the married rank and file.*	...	...	...	...	...	......	...... See remarks against item 43 (ii).	...	6A 6B	B. C.
		(a) A cook-house for the block for 5 class I and 2 class III quarters—										
		1 kitchen	29	6	9½	...	464					
		7 cooking chambers, each	3½	1½	16	...						
		(b) A cook-house for the block of 10 class II quarters—										
		5 kitchens, each	7¾	6	9½	...	826					
		10 cooking chambers, each	3½	1½	16	...						
		(iv). *For the regimental sergeant-major.*										
		1 kitchen	7¾	6	9½	...	117	......	......	...	17	B. I.
		1 cooking chamber	7¾	1½	16	...						
		(v). *For the band-master.*										
		Same as for the sergeant-major					117			...	17	B. I.
		(vi). *For the schoolmaster.*										
		Same as for the sergeant-major	...	...	...	...	117	......	......	...	17	B. I.

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Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Detail of Orders, &c. Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
A Regiment of British Cavalry—*contd.*		(*c*) SUBSIDIARY BUILDINGS—*contd.*										
	172	COOK-HOUSES—*contd.*										
		(*vii*). *For the schoolmistress.*										
		Same as for the sergeant-major	...	...	...	...	117	......	......	...	17	B. I.
		(*viii*). *For the block of quarters for 11 staff sergeants*	...	...	...	...	...	......	......	...	7A 7B	R. A.
		A cook-house affording the following space for each man :—							See item 131.		8	B. C.
		Kitchen	6	5⅔	9½	...	...					
		Cooking chamber	5	1½	16	...	...					
		(*ix*). *For the institute.*										
		1 kitchen	16	9½	10	...	354	......	...... See remarks against item 43 (*viii*).	...	67	B. I.
		1 cooking chamber	16	5	16	...						
		(*x*). *For the sergeants' mess.*										
		1 kitchen	16	9½	10	...	354	......	......	...	67	B. I.
		1 cooking chamber	16	5	16	...						
	173	FUEL STORE FOR THE INSTITUTE.	...	...	...	...	...	......	This can be arranged for in the cook-house for the institute, or in a verandah room of the institute building.			
	174	LAVATORIES.	...	...	...	...	...	......	See remarks against item 45.			
		(*i*). *For the single rank and file.*										
		8 lavatories, each—										
		Washing room for 14 basins	21	16	9	...	817	......	......	...	138	B. I.
		6 private ablution rooms, each	6½	5	9	...						
		(*ii*). *For the band barrack.*										
A Regiment of British Cavalry—*contd.*		asins on one side and 3 private ablution rooms (each 7′ × 5′) on the other	21	16	9	...	440	......				
		(*iii*). *For the quarter-guard*	...	...	...	...	...	P. W. D. Cir. No. 44 of 1889.	Authorises provision of lavatories for quarter-guards and lays down scale of accommodation to be provided therein. See item 45 (*ii*).			
		Washing room for 10 basins	15	16	9	...	598	......	......	...	64B	B. I.
		4 private ablution rooms, each	6½	5	9	...						
	175	LATRINES	...	...	...	...	...	......	See remarks against item 46.			
		(*i*). *For the single rank and file.*										
		Eight latrines (with 6 seats each), each—										
		Privy	16⅓	12	9	...	559	......	......	...	132	E. I.
		Cart shed	11	8	7	...						
		Sweeper's room	8	6	7½	...						
		Dry earth shed	5½	4	4½	...						
								P. W. D. Cir. No. 16 of 1866.	...... Six seats are to be provided for a troop of British cavalry. The cart-house attached to the flank privies only is to be roofed in; in the others the walls are to be built up to act as a screen while the carts are being loaded, but no roof is to be given.			
		(*ii*). *For the band barrack.*										
		One latrine with 4 seats	11	12	9	...	199	......	......	...	4	R. A.
		(*iii*). *For the married rank and file.*	...	...	...	...	...	P. W. D. Cir. No. 16 of 1866.	Fixes proportion of se[illegible] d in the latrines for marri[illegible]			
		(*a*) For the men— For the 2 blocks of quarters for married rank and file, a latrine of 4 seats	12	12	9	...	199	......	......	...	4	R. A.
		(*b*) For the women and children—	...	...	...	...	...	......	See remarks against item 46 (*ii*) (*b*).			
		For the 2 blocks of quarters for married rank and file, a latrine of 4 seats—										
		Privy	12	12	9	...	301	......	......	...	7A to 7G	B. I.
		Entrance lobby	12	5	9	...						

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Detail of Orders, &c. Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.					
		(c) SUBSIDIARY BUILDINGS—*contd.*										
	175	LATRINES—*contd.*										
		(iv). *For the gymnasium* . .	...	...	...		...	......	See item 46. (vii).			
		(v). *For the quarter-guard* .	...	...	...	...	...	P. W. D. Cir. No 41 of 1869.	Four seats are to be provided for the quarter-guard of a British cavalry regiment.			
		4 seats, 2 for guard and 2 for prisoners—										
		2 compartments, each .	12	5⅔	9	...	} 283					
		Covered passage for sentry.	7	5	9	...		......	......	...	64B	B. I.
		(vi). *For the regimental sergeant-major.*										
		A detached latrine . .	6	6	7⅝	...	74	...	......	...	17	B. I.
		(vii). *For the band-master.*										
		Same as for sergeant-major	...	...	...	...	74	... G. of I., P. W. D., letter No. 1050 of 1874.	...... The out-offices authorised for a sergeant-major are to be provided for a bandmaster.	...	17	B. I.
		(viii). *For the schoolmaster.*										
		Same as for sergeant-major	...	...	...	...	74	...	......	...	17	B. I.
		(ix). *For the schoolmistress.*										
		Same as for sergeant-major	...	...	...	...	74	...	......	...	17	B. I.
		(x). *For the block of quarters for 11 staff sergeants and sergeants.*										
		latrine of 3 seats . .	12	8½	9	...	160				18B	B. I.

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Detail of Orders, &c. Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
		(xi). *For the school.*										
		Privy for boys . .	10½	8⅓	9	} 327	...	...	......	...	71E	B. I.
		Do. for girls . .	10½	8⅓	9							
		Urinary for boys . .	4½	3⅜	...							
		Dry earth shed . .	4½	3⅜	...				See remark against item 46 (vii).			
		(xii). *For the sergeants' mess.*										
		A latrine of 2 seats .	10	5⅔	9	...	105	...	...... See remark against item 46 (viii).	...	67	B. I.
	176	URINARIES	...	...	...	...	...	...	See remarks against item 47.			
		(i). *For the band barrack.*										
		1 urinary of 2 compartments.	6½	5	7	...	33					
		(ii). *For the single men's barracks*	...	...	...	...	...	...	See remarks against item 47 (i).			
		16 urinaries, each of 2 compartments.	6½	5	7	...	33 each.		NOTE.—Government of India, Military Department, Circular No. 7M. W., dated 4th December 1882, allows only 10 urinaries for the single men's barracks of a British cavalry regiment, but since the issue of this circular the strength of a regiment has been enhanced from 3 to 4 squadrons.			
		(iii). *For the 2 blocks of married quarters.*										
		2 urinaries, each of 1 compartment.	6½	2½	7	...	16 each	...	See remarks against item 47 (ii).			
		(iv). *For the institute.*										
		4 compartments in 1 or more blocks as may be found convenient.	6½	10	7	...	65	...	No scale has been laid down by Government for urinaries for institutes. The circular quoted above allows 4 compartments for the liquor bar and library and reading rooms of a British cavalry regiment, and it is proposed to provide the same number of compartments for the institute.			
		(v). *For the gymnasium.*										
		(a) For officers—										
		1 of 1 compartment . .	6½	2½	7	...	16					
		(b) For men—										
		1 of 2 compartments .	6½	5	7	...	33					
		(vi). *For the plunge-baths.*										
		2 each of 1 compartment .	6½	2½	7	...	16 each		See remarks against item 47 (v).			

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Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.: Authority.	Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
A Regiment of British Cavalry—*concld.*		(*c*) SUBSIDIARY BUILDINGS —*contd.*										
	176	URINARIES—*contd.*										
		(*vii*). *For the quarter-guard.*										
		1 of 2 compartments .	6½	5	7	...	33					
		(*viii*). *For the school.*										
		1 of 2 compartments .	6½	5	7	...	33	...	This urinary is for the men attending school.			
		(*ix*). *For the stables.*										
		1 of 2 compartments .	6½	5	7	...	33	G. of I., M. D., Cir. No. 7 M.W., dated 4th December 1882.	One for each set of stables.			
		(*x.*) *For the workshops.*										
		1 of 1 compartment .	6½	2½	7	...	16					
		(*xi*). *For the regimental offices, orderly-room, pay office, &c.*										
		1 of 1 compartment . .	6½	2½	7	...	16	Do. do.	Not to be provided if a latrine or urinary exists conveniently near.			
		(*xii*). *For the regimental stores.*										
		1 of 1 compartment . .	6½	2½	7	...	16					

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Authority.	Particulars.	Standard plan.	Type plan.	
A Battalion of British Infantry.		(*a*) PRIMARY BUILDINGS.						I. A. Cirs., Clause 144 of 1888.	The authorised strength of a British infantry battalion is— *Warrant officers.* Sergeant-major . . . . . 1 Band-master . . . . . 1 Schoolmaster . . . . . 1 Schoolmistress . . . . . 1 — 4 *Class A sergeants.* These 5 are staff sergeants: Quartermaster sergeant . 1 — 1 *Class B sergeants.* Armourer sergeant . . . 1 Paymaster " . . . 1* Orderly-room " . . . 1 Band sergeant . . . 1 Color sergeants . . . . . 8 — 12 *Class C sergeants.* Company sergeants . . . . 32 Pioneer sergeant . . . . . 1 — 33 *Rank and file.* Drummers . . . . . 16† Corporals . . . . . 40 Privates . . . . . 880 — 936 TOTAL . 936			
								Special I. A. Cir. dated 15th July 1890.	* Paymaster sergeants will be gradually absorbed, an additional corporal being added to the establishment of each regiment to assist in pay duties. † Battalions of Highland regiments are allowed, in addition to above,— 1 Sergeant piper. 5 Pipers.			
								G. of I., M. D., letter No. 216 M. W. (Accommodation for [illegible]), dated 18th [illegible]	Of the staff sergeants and sergeants (46 men) 36 per cent. or 17 are allowed to marry. Of the rank and file (936 men) 1·25 per cent. or 12 are allowed to marry.			
	177	BAND BARRACK . .	...					P. [illegible] Cir. No. [illegible]59.	The band barrack is to correspond in size with a half-company barrack.			
								P. W. D. letter No. 421 of 1874.	The band consists, in addition to the bandmaster, of a sergeant and 20 rank and file, including a corporal.			
								P. W. D. Cir. No. 17 of 1866.	The band is to have its own distinct barrack.			

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.		Standard plan.	Type plan.	
								Authority.	Particulars.			
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
		(a) PRIMARY BUILDINGS—*contd.*										
	177	BAND BARRACK—*contd.*										
		A barrack for 2 sergeants and 56 rank and file—										
		4 dormitories for 14 beds, each.	52½	24	20	90	15,973, exclusive of steps.	......	......	...	6A to 6 I	B. I.
		2 day-rooms, each	35	24	20	30						
		Each quarter for a sergeant contains—										
		1 sitting room	16	14	20	483½						
		1 bed-room	16	11	20							
		1 bath-room	10$\frac{7}{16}$	8	9½							
		Band store room	10$\frac{7}{16}$	8	9½	...			All orders affecting barracks for single men (item 2) apply equally to the band barrack.			
	178	BARRACKS FOR SINGLE RANK AND FILE.	...	...	...	...	...	......	The strength of the rank and file of a battalion is 936 men. See page 97. The number of men to be accommodated in the barracks for single rank and file will be— Rank and file as above . . 936 *Deduct*— Married rank and file . 12 * Band . . . . 20 * Drummers . . . 16 — 48 888 The strength of a half-company in single rank and file is therefore— $\frac{888}{16}$=55·5, say 56 men. The 16 half-company barracks will accommodate (16×56=) 896 men, or 8 men in excess of the strength of a battalion. * These are provided for in band barrack.			
		Sixteen half-company barracks, each for 2 sergeants and 56 rank and file.										

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Authority.	Particulars.	Standard plan No.	Type plan No.	Series.
		Each barrack—										
		4 dormitories, each for 14 men, each	52½	24	20	90	15,973 each, exclusive of steps.	......	...... See remarks against item 2.	2 5 6 7 8	6A to 6 I	B. I.
		2 day-rooms, each	35	24	20	30						
		Each quarter for a sergeant contains—										
		1 sitting room	16	14	20	483½						
		1 bed-room	16	11	20							
		1 bath-room	10$\frac{7}{16}$	8	9½							
		1 store room	10$\frac{7}{16}$	8	9½							
	179	BARRACKS FOR MARRIED RANK AND FILE.	...	...	...	...	...	......	Accommodation is required for 12 families, see page 97— Of the 12 quarters— $\frac{12\times30}{100}$=3·60, say 4, are to be class I. $\frac{12\times60}{100}$=7·20, say 7, are to be class II. $\frac{12\times10}{100}$=1·20, say 1, are to be class III.			
		(a) A block containing 4 quarters, class I, and 1 quarter, class III.						P. W. D. Cirs. No. 33 of 1870 and No. 59 of 1874.				
		Each class I quarter consists of—										
		1 day and bed-room	16	14	18⅚	271	4,924 exclusive of steps.	......	......	...	7A to 7G	B. I.
		1 bath-room	7½	6¼	10							
		The class III quarter consists of—										
		1 day-room	18	16	18⅚	495						
		1 bed-room	16	10	18⅚							
		1 bath-room	7½	6¼	10							
		(b) A block containing 7 class II quarters.										
		Each quarter consists of—										
		1 day-room	16	14	18⅚	411	7,032, exclusive of steps.	......	...... See remarks against item 3.	...	7A to 7G	B. I.
		1 bed-room	14	10	18⅚							
		1 bath-room	7½	6¼	10							
	180	QUARTERS FOR WARRANT OFFICERS.										
		(a) Quarters for the sergeant-major.										
		1 sitting room	16	16	18	736	1,761	......	......	...	17	B. I.
		2 bed-rooms, each	16	10	18							
		2 bath-rooms, each	10	8	10							

Accommodation authorised for British Troops in the Plains—continued.

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.: Authority.	Detail of Orders, &c.: Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
		(a) PRIMARY BUILDINGS—*contd.*										
	180	QUARTERS FOR WARRANT OFFICERS—*contd.*										
		(b) For the Band-master. Same as for the sergeant-major.	...	...	...	736	1,761	......	......	...	17	B. I.
		(c) For the schoolmaster. Same as for the sergeant-major.	...	...	...	736	1,761	......	......	...	17 71A	B. I.
		(d) For the schoolmistress. Same as for the sergeant-major.	...	...	...	736	1,761	......	...... See remarks against items 5 and 130.	...	17 71A	B. I.
	181	QUARTERS FOR THE STAFF SERGEANTS AND SERGEANTS.	...	...	...	...	...	......	For strength see page 97. The 34 quarters at the ends of the single men's barracks and the band barrack will accommodate as many sergeants. Moreover, a sergeant will probably be accommodated in each of the following buildings:— I.—The institute—The canteen-sergeant. II.—The quarter-guard—The provost sergeant. III.—The officers' mess—The caterer. Thus 37 out of the 46 staff sergeants and sergeants may be said to be provided for. These 37 quarters will be occupied as follows:— 1 Band sergeant (in band barrack). 3 Color sergeants. 33 Class C sergeants. A special block of quarters should be built to accommodate the remaining 9 men, *viz.*:— 1 Quartermaster sergeant, class A. 1 Armourer sergeant . . } class B. * 1 Paymaster sergeant . . } class B. 1 Orderly-room sergeant . . } class B. 5 Color sergeants . . . } class B.			
								Special I. A. Cir. dated 15th July 1890.	* Paymaster sergeants will be gradually absorbed, an additional corporal being added to the establishment of each regiment to assist in pay duties. NOTE.—The sergeants' quarters at the ends of the single men's barracks and the band barrack provide 400 s. feet per sergeant, exclusive of the bath-room. The authorised area for class B and class C sergeants is 416 s. feet and 364 s. feet per man, respectively; hence these quarters are available for either class B or class C sergeants.			
		A block containing 1 quarter, class A, and 8 quarters, class B.										
		The class A quarter consists of—										
		1 sitting-room . .	16	16	18	676	9,053 exclusive of steps.	......	...... See remarks against item 4		18 A 18 B	B. I.
		2 bed-rooms, each . .	16	10	18							
		1 bath-room . .	10	10	10							
		Each class B quarter consists of—										
		1 sitting room . .	16	16	18	496						
		1 bed-room . .	16	10	18							
		1 bath-room . .	10	8	10							

Accommodation authorised for British Troops in the Plains—continued.

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.				
								Authority.	Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
		(b) AUXILIARY ACCOMMODATION.										
	182	ARMOURER'S SHOP.										
		Armourer's shop	30	24	16½	...	2,189	......	......	...	41A to 41C	B. I.
		Forge-room	24	9½	16½							
		Water and wood store	10	10	10							
		Drying room	10	10	10				See remarks against item 132.			
	183	BLACKSMITH'S FORGE AND WORKSHOP, VOLUNTARY.										
		Forge	22	22 or 24	...	...	900 approximate.	......	See remarks against item 134.			
	184	BOWLING ALLEY.										
		Alley	66	18	7½	...	1,540	P. W. D. Cir. No. 11 of 1865.	One of the two skittle alleys allowed for a British infantry battalion may be converted into a bowling alley.	31	...	...
	184½	CRICKET-GROUND	...	...	...	...	...	P. W. D. Cir. No. 11 of 1865.	Authorises the provision of a cricket-ground for a British infantry battalion. See remarks against item 10.			
	185	DRY-EARTH STORE.										
		2 sheds, each	...	...	...	...	...	......	See remarks against item 11.			
	186	DRY STORE ROOM.										
		1 room	15	15	12	443	...	......	...... See item 12. This is provided for under same roof as the regimental store rooms, see item 202.	26	...	...
	187	FIRE-ENGINE SHEDS		...	...	...	...	I. A. Regns., Vol. III, Part II, Section VII, Table V.	One fire-engine is allowed— (i) per battalion of British infantry; (ii) per out-station when troops are located in thatched barracks.			
		Each engine shed	24	13	8	...	416 each.	...... R. R. Regns., para. 586.	See also general orders. Shed is to be built near the quarter-guard.	...	48	B. I.

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Authority.	Particulars.	Standard plan No.	Type plan No.	Type plan Series.
	188	FIVES COURTS	...	...	...	...	...	P. W. D. Cir. No. 61 of 1866.	Block plan of lines shewing position of 1 fives court for each wing.	1	...	...
		Two courts, each containing—										
		2 ball-courts, each	45	30	...	...	7,051 each.	......	...... See remarks against item 14.	32	...	...
		2 fives courts, each	45	42½	...	...						
	189	FURNITURE STORE ROOM.										
		2 open sheds, each	50	15	...	...	2,248					
		1 store room	20	15								
		Chowkidar's hut	10	10	...	...	179					
		Barrackmaster's office	...	...	...	...	...	......	See item 15.			
	190	GYMNASIUM	...	...	...	...	...	......	See item 17.			
	191	INSTITUTE	...	...	...	...	...	......	...... See item 19.		67	B. I. modified to suit.
		(i) *For a battalion.*							The area authorised for a battalion of British infantry is— S. ft. (a) For liquor bar portion . . 2,838 (b) „ library „ . . . 2,094 (c) „ recreation and refreshment portion . . . 7,886 TOTAL . 12,818 This is exclusive of bath-room space.			
		(a) Liquor bar portion—										
		Private's room	50	24	20	...	8,004, exclusive of steps.					
		Bar or issue room	10	24								
		Beer store	19	24								
		Corporal's room	22	24								
		Sergeant's quarter. sitting room	16	14								
		Sergeant's quarter. bed „	16	8⅞								
		Sergeant's quarter. bath „ in verandah	10$\frac{7}{16}$	8	9½							
		(b) Library portion—										
		Book room	12	24	20	...	6,206, exclusive of steps.					
		Reading room	60	24								
		Librarian's quarter. sitting room	16	14								
		Librarian's quarter. bed „	16	8⅞								
		Librarian's quarter. bath „ in verandah	10$\frac{7}{16}$	8	9½							
		(c) Recreation and refreshment portion—										
		Temperance room	50	24	20	...	18,999, exclusive of steps.					
		Billiard room	28	24								
		Games „	40	24								
		Theatre	83⅓	24								
		Refreshment, or supper room.	90	24								
		Refreshment, issue and store rooms.	22	24								
		Caterer's quarter. sitting room	16	14								
		Caterer's quarter. bed „	16	8⅞								
		Caterer's quarter. bath „ in verandah.	10$\frac{7}{16}$	8	9½							

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Item in the Service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Authority.	Detail of [illegible], &c. Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
		(*b*) AUXILIARY ACCOMMODATION—*contd.*										
	191	INSTITUTE—*contd.*										
		(*ii*). *For the head-quarters and 6 companies of a battalion.*							The area authorised for the head-quarters and 6 companies of a battalion is— S. F. (*a*) For liquor bar portion . . 2,286 (*b*) For library „ . . 1,710 (*c*) For recreation and refreshment portion. 6,390 Total 10,386 This is exclusive of bath-room space.			
		(*a*) Liquor bar portion—										
		Private's room	37	24	20	...	6,788, exclusive of steps.					
		Bar or issue room	10	24								
		Beer store	19	24								
		Corporal's room	14	24								
		Sergeant's quarter. sitting room	16	14								
		Sergeant's quarter. bed „	16	$8\frac{7}{8}$								
		Sergeant's quarter. bath „ in verandah	$10\frac{7}{12}$	8	9½							
		(*b*) Library portion—										
		Book room	12	24	20	...	5,361, exclusive of steps.					
		Reading room	44	24								
		Librarian's quarter. sitting room	16	14								
		Librarian's quarter. bed „	16	$8\frac{7}{8}$								
		Librarian's quarter. bath „ in verandah	$10\frac{7}{12}$	8	9½							
		(*c*) Recreation and refreshment portion—										
		Temperance room	37	24	20	...	15,989, exclusive of steps.					
		Billiard room	28	24								
		Games „	30	24								
		Theatre	70	24								
		Refreshment or supper room.	70	24								
		Refreshment, issue and store rooms.	16	24								
		Caterer's quarter. sitting room	16	14								
		Caterer's quarter. bed „	16	$8\frac{7}{8}$								
		Caterer's quarter. bath „ in verandah.	$10\frac{7}{12}$	8	9½							
	192	LINES	...	...	...	...	...	P. W. D. Cir. No. 61 of 1866.	Forwards block plan of lines for a battalion of British infantry.	1 & 2	...	...
	193	LINES OF MUSTERED FOLLOWERS	...	...	...	...	...	......	See item 21.			
	194	MAGAZINE.										
		Type plan—										
		Ammunition room	16	16	$16\frac{1}{8}$	...	601	......	......	...	60 A to 60 G 61.	B. I.
		Powder room	8	6	$16\frac{1}{8}$							
		Lobby	$7\frac{1}{4}$	6	$16\frac{1}{8}$							
		Enclosure wall	...	...	...		...	......	See items 22 and 148.			
	195	ORDERLY AND COURT-MARTIAL ROOM.	...	...	...	...	...	P. W. D. Cir. No. 78 of 1866.	Forwards standard plan for British infantry and British cavalry.	38		
		Orderly-room	24	20	20	...	5,373	......	......	...	45	B. I.
		Bath „	$11\frac{11}{16}$	$11\frac{11}{16}$	$9\frac{1}{2}$	...						
		Court-martial room	36	20	20	...						
		Officer's room	20	18	20	...						
		„ „	20	12	20	...						
		„ bath-room	$11\frac{11}{16}$	6	$9\frac{1}{2}$	...			See item 24.			
	196	PARADE-GROUND	...	...	...	...	...	......	See item 25.			
	197	PAY OFFICE.										
		One room	24	$23\frac{1}{2}$	16	...	1,300	......	NOTE.—This can be given under same roof as the orderly-room (see item 195), walls being raised to 20′.			
	198	PLUNGE-BATH.										
		Two baths, each	66	20	$10\frac{1}{2}$	...	1553 each.	......	See remarks against item 27. NOTE.—See also item 214 (*ii*).	...	63	B. I.
	199	QUARTER-GUARD AND CELLS.										
		Guard-room for 18 men	$67\frac{1}{2}$	24	20	90	8,745, exclusive of steps.	......	......	...	64 A to 64D	B. I.
		Lock-up for 14 men	$52\frac{1}{2}$	24	20	90						
		Quarters for provost sergeant—										
		Day-room	16	14	20	$467\frac{1}{2}$						
		Bed „	16	11	20							
		Bath „	$8\frac{7}{18}$	8	$9\frac{1}{2}$							
		Ten cells, each	13	10	$16\frac{1}{4}$	130	4,510, exclusive of steps.	......	......	...	Do.	Do.
									See item 28.			
	200	RATION SHEDS	...	...	...	...	...	......	See item 29.			

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Accommodation authorised for British Troops in the Plains—continued.

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Particulars.	Standard plan.	Type plan.	
										No.	No.	Series.
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.					
A Battalion of British Infantry—*contd.*		(*b*) AUXILIARY ACCOMMODATION—*contd.*										
	201	REAR GUARDS	...	...	...	...	...	......	See item 30.			
	202	REGIMENTAL (OR QUARTERMASTER'S) STORE										
		Three store rooms, each	31¼	24	11	...	4,449	......	......	...	68	B. I.
		Tailor's workshop	24	15	11	...						
		Quartermaster's office	24	10	11	...						
		Dry store room	13	8½	average 9	...			See item 31.			
	203	REGIMENTAL WORKSHOPS, VOLUNTARY.										
		Carpenter's shop	50	22	16½	...	7,782	P. W. D. Cir. No. 94 of 1866.	Forwards standard plan for a regiment of British cavalry or a battalion of British infantry.	41	69	B. I.
		" store room	41	12	9¼	...						
		Painter's shop	22	22	16½	...						
		Tinsmith's shop	22	14	16½	...						
		Shoe-maker's shop	22	22	16½	...						
		Book-binder's shop	14	10¼	16½	...						
		Watch-maker's shop	14	10¼	16½	...						
		Printer's shop	25	22	16½	...						
		Two water rooms, each	8	8	9¼	...						
	204	RELIGIOUS READING AND PRAYER ROOM.										
		(*i*). *One battalion.*										
		1 main room	40	18	20	...	2,048	......		44	...	...
		2 side rooms, each	14	8	12	...						
		Porch	10	10	12	...						
		(*ii*). *Two battalions.*										
		1 main room	60	24	20	...	3,074	......	......	44	...	...
		2 side rooms each	14	8	12	...			See remarks against item 33.			
		Porch	10	10	12	...						
	205	RIFLE RANGE.										
A Battalion of British Infantry—*contd.*	206	SCHOOL.	...	...	...	...	...	......	See item 35.			
		(*i*). *For a battalion.*										
		Class room for 120 men	92	24	20	...	9,394	......	......	...	71A	B. I.
		Class room for 64 children	36	24	20	...						
		Two water rooms, each	6	10	10¾	...						
		Quarters for the schoolmaster and schoolmistress, each—										
		1 sitting room	16	16	20	...						
		2 bed-rooms, each	16	10	20	...						
		Bath-room	10	10	20	...						
		(*ii*). *For a battalion with 1 or 2 companies detached.*										
		Class room for 96 men	74	24	20		7,916	......	......		71B	B. I.
		Class room for 40 children	24	24	20							
		Two water rooms, each	6	10	10¾							
		Quarters for schoolmaster and schoolmistress as detailed above for a battalion.							See item 35.			
		(*iii*). ~~*For a battalion*~~ *with 3 companies detached.*										
		Class room for 80 men	66	24	20		7,424	......	......		71B	B. I.
		Class room for 36 children	22	24	20							
		Two water rooms, each	6	10	10¾							
		Quarters for a schoolmaster and schoolmistress as detailed above for a battalion.							See item 35.			
	207	SENTRY BOXES.										
		According to circumstances, each	3	3	...	...	...	...... P. W. D. Cir. No. 58 of 1876.	...... See item 36. Authorises provision of sentry boxes for battalions of British infantry under the following circumstances and to the extent specified, *viz.*,— *1st*—when the barrack buildings noted in the margin (Quarter-guard; Quarter-master's store; Canteen (now a portion of the institute)) are unprovided with verandahs, a sentry box may be provided at each building. *2nd*—A sentry box may also be provided for the magazine, as the standard plan for this building gives no verandah.	115		

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Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Detail of Orders, &c. Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
		(b) AUXILIARY ACCOMMODATION—contd.										
	208	SERGEANTS' MESS AND RECREATION ROOM.										
		Mess room	50	24	20	...	4,766	......	......	...	67	B. I.
		Recreation room	30	24	20	...						
		Beer store	24½	11 1/16	Average 11	...						
		Caterer's room	18	11 1/16	11	...						
		Pantry	11 11/16	8	11	...						
									See item 37. NOTE.—The library, reading room and librarian's quarter shewn in type plan No. 67 B. I. are now to be provided for in the institute.			
	209	SKITTLE ALLEY.										
		*Two skittle alleys, each	38	16	7½	...	802 each.	*P. W. D. Cir. No. 11 of 1865.	One of these may be converted into a bowling alley, see item 184.	30	73	B. I.
	210	Wells	...	...	...	...	...	......	See item 42.			

		(c) SUBSIDIARY BUILDINGS.										
	211	COOK-HOUSES	...	...	...	...	...	......	See item 43.			
		(i). *For the band barrack.*										
		One cook-house, containing—										
		1 kitchen	23½	16	12	...	762	......	......	...	119A 119B	B. I.
		1 cooking place	16	5	24½	...						
		1 cook's room	10	10	8	...						
		(ii). *For single men's barracks*	...	...	...	...	...	......	See item 43(i)			
		Four cook-houses, each for 2 companies, each containing—										
		2 kitchens, each	23½	16	12	...	1,534 each	......	......	...	119A 119B	B. I.
		2 cooking places, each	16	5	24½	...						
		2 cook's rooms, each	10	10	8	...						
		(iii). *For married men*	...	...	...	...	...	......	See item 43(ii)			
		(a) For the block of 4 quarters, class I, and 1 quarter, class III—										
		1 kitchen	20½	6	9½	...	399	......	......	...	7F	B. I.
		5 cooking chambers, each	3½	1½	16	...						
		(b) For the block of 7 quarters, class II—										
		1 kitchen	29	6	9½	...	464	......	......	...	7F	B. I.
		7 cooking chambers, each	3½	1½	16	...						
		(iv). *For the sergeant-major.*										
		1 kitchen	7¾	6	9½	...	117.	......	......	...	17	B. I.
		Cooking chamber	7¾	1½	16	...						
		(v). *For the bandmaster.*										
		Same as for sergeant-major	...	...	...	...	117	......	......	...	17	B. I.
		(vi). *For the schoolmaster.*										
		Same as for sergeant-major	...	...	...	...	117	......	......	...	17	B. I.
		(vii). *For the schoolmistress.*										
		Same as for sergeant-major	...	...	...	...	117	......	......	...	17	B. I.

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.				
								Authority.	Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.	Supl. ft	Supl. feet.			No.	No.	Series.
		(c) SUBSIDIARY BUILDINGS—*contd.*										
	211	COOK-HOUSES—*contd.*										
		(*viii*). *For the block of quarters for staff sergeants and sergeants.*							See item 181.			
		1 kitchen 9 cooking chambers, each	37½ 3½	6 1½	9½ 16	... ...	660	......	......	...	18B	B. I.
		(*ix*). *For the institute.*										
		1 kitchen 1 cooking chamber	16 16	9½ 5	10 16	... ...	354	......	No scale has been laid down; it is usual to give a cook-house of the same size as that allowed for a sergeant's mess.	...	67	B. I.
		(*x*). *For the sergeants' mess.*										
		1 kitchen 1 cooking chamber	16 16	9½ 5	10 16	... ...	354	......	......	...	67	B. I.
	211A	FUEL STORE FOR INSTITUTE	...	...	...	...	...	......	See item 43 (*ii*). See item 44.			
	212	LATRINES	...	...	...	...	...	......	See item 46.			
		(*i*). *For the band barrack.*										
		1 latrine of 4 seats	11	12	9	...	199	......	......	...	4	R. A.
		(*ii*). *For singlemen's barracks*	...	...	...	...	...	P. W. D. Cir. No. 16 of 1866.	Eight seats are to be provided for a company of British infantry.			
		8 latrines, each for 8 seats, each—										
		Privy Cart-shed Sweeper's room Dry earth shed	21½ 11 8 5½	12 8 6 4	9 7 7½ 4½	... ...	637 each.	......	...... See item 46 (*i*) and item 175 (*i*).	...	132	B. I.
		(*iii*). *For married men* For the 2 blocks of quarters for 12 married rank and file—	...	...	...	...	...	P. W. D. Cir. No. 16 of 1866.	Fixes proportion of seats to be provided in the latrines for married men's barracks.			
		(*a*) For men— 1 latrine for 3 seats									7G	B. I.
		(*b*) For women and children 1 latrine with 3 seats—	...	...	...	...	...	......	See item 46 (*ii*.)			
		Privy Entrance lobby	8⅓ 8⅓	12 5	9 9	... ...	227	......	......	...	7G	B. I.
		(*iv*). *For the sergeant-major.*										
		One seat	6	6	7⅝	...	74	......	......	...	17	B. I.
		(*v*). *For the bandmaster*	6	6	7⅝	...	74	......	......	...	17	B. I.
		(*vi*). *For the schoolmaster*	6	6	7⅝	...	74	......	......	...	17	B. I.
		(*vii*). *For the schoolmistress*	6	6	7⅝	...	74	......	......	...	17	B. I.
		(*viii*). *For the block of quarters for 9 staff sergeants and sergeants.*										
		1 latrine with 3 seats	8⅓	12	9	..	160	......	See item 181.	...	18B	B. I.
		(*ix*). *For the quarter-guard.*										
		1 latrine with 2 compartments, each for 3 seats, each Covered passage for sentry	8⅓ 8½	12 5	9 9	... ...	388	......	......	...	64B	B. I.
		(*x*). *For the school*	...	...	...	...	...	......	See item 46 (*vii*).			
		Privy for boys Do. for girls Urinary for boys Dry earth shed	10½ 10½ 4½ 4½	11 11 3⅜ 3⅜	9 9	... ...	397	......	......	...	71E	B. I.
		(*xi*). *For the sergeants' mess.*										
		1 latrine with 2 seats	10	5⅜	9	...	105	...... P. W. D. Cir. No. 74 of 1869.	...... Authorises provision of a latrine with 2 seats for every sergeant's mess being given *only* when the mess happens to be a long way from any of the barrack latrines.	...	67	B. I.
		(*xii*). *For the gymnasium*	...	...	...	...	...	......	See item 46 (*iii*).			
	213	LAVATORIES	...	...	...	...	...	......	See item 45			

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A Battalion of British Infantry—contd.

Arm of the service, Department, &c.	Item Number.	Details.	Length	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Particulars.	Standard plan. No.	Type plan. No.	Series.
		(c) SUBSIDIARY BUILDINGS—*contd.*	Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
	213	LAVATORIES—*contd.*										
		(i). *For the band barrack.*										
		1 lavatory with washing room for 10 basins.	15	16	9	...	598	......	......	...	4 138	R. A. B. I.
		4 private ablution rooms, each.	6½	5	9	...						
		(ii). *For the single men's barracks.*										
		8 lavatories, each containing—										
		1 washing room for 20 basins,	30	16	9		1,120 each.	... ...	... ...	...	138	B. I.
		8 private ablution rooms, each.	6½	5	9							
		(iii). *For the quarter-guard.*										
		Washing room for 10 basins	15	16	9		598	... ...	See item 45 (ii)	...	64B	B. I.
		4 private ablution rooms, each.	6½	5	9							
	214	URINARIES	...	...	...	...	...	... ...	See item 47.			
		(i). *For the band barrack.*										
		1 urinary of 2 compartments.	6½	5	7		33					
		(ii). *For the single men's barracks.*										
		8 urinaries, each of 4 compartments (or 16 of 2 compartments each).	6½	10	7		65 each.	M. D. Cir. No. 7 M. W., dated 4th December 1882.	If the barracks are in pairs, single urinaries may be arranged between them with double the number of compartments shewn.			
		(iii). *For the married men's barracks.*										
		2 urinaries, each of 1							Ditto. ditto.			

A Battalion of British Infantry—concld.

Arm of the service, Department, &c.	Item Number.	Details.	Length	Breadth.	Height.	Floor area per man.	Plinth area of building.	Authority.	Particulars.	Standard plan. No.	Type plan. No.	Series.
		(iv). *For the gymnasium.*										
		(a) For the officers—										
		1 urinary of 1 compartment	6½	2½	7	...	16					
		(b) For the men—										
		1 urinary of 2 compartments . . .	6½	5	7	...	33					
		(v). *For the institute*	...	...	...	...	...	......	No scale has been laid down for institutes. Military Department Circular No. 7 M. W., dated 4th December 1882, allows 6 compartments for the recreation and refreshment buildings (liquor bar and library and reading room) of a battalion, and it is proposed to give the same number of compartments for the institute.			
		6 compartments in one or more blocks as may be found convenient .	6½	15	7	...	98					
		(vi). *For the plunge-baths.*										
		1 of 1 compartment for each bath	6½	2½	7	...	16 each.	M. D. Cir. No. 7 M. W., dated 4th December 1882.	The plunge-bath urinal might be in one corner of the building, a trough through the wall conveying the water to a receptacle outside.			
		(vii). *For the quarter-guard*										
		1 urinary of 2 compartments	6½	5	7	...	33					
		(viii). *For the school.*										
		1 of 2 compartments .	6½	5	7	...	33	......	This is for the men attending school.			
		(ix). *For the workshops.*										
		1 of 2 compertments .	6½	5	7	...	33	M. D. Cir. No. 7 M. W., dated 4th December 1882.	Is not to be provided if a latrine or urinary exists conveniently near.			
		(x). *For the regimental offices, orderly-room, &c.*										
		1 of 1 compertment . .	6½	2½	7	...	16	Ditto . .	Ditto ditto.			
		(xi). *For the regimental (or quartermaster's) store.*										
		1 of 1 compartment . .	6½	2½	7	...	16	Ditto . .	Ditto ditto.			

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Accommodation authorised for British Troops in the Plains—continued.

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.		Standard plan.	Type plan.	
								Authority.	Particulars.	No.	No.	Series.
A Head-quarters Wing of a British Infantry Battalion.		(*a*) PRIMARY BUILDINGS.	Feet.	Feet.	Feet.	Supl. ft	Supl. feet.	Letter No. 4947 B. (Buildings, Barrack), dated 18th November 1885, from the Qr. Mr. Genl. in India, to the Inspr. Genl. of Military Works.	The strength of a head-quarters wing of a British infantry battalion is— WARRANT OFFICERS. Sergeant-major . . . . . . 1 Band master . . . . . . 1 Schoolmaster . . . . . . 1 Schoolmistress . . . . . . 1 —— 4 CLASS A. SERGEANTS. Quartermaster sergeant . . 1 —— 1 CLASS B SERGEANTS. Armourer sergeant . . . 1 Paymaster „ . . . . 1* Orderly-room sergeant . . 1 Band sergeant . . . . 1 Color sergeants . . . . 4 —— 8 (These five are staff sergeants.) CLASS C SERGEANTS. Company sergeants . . . . . 16 Pioneer sergeant . . . . . 1 —— 17 RANK AND FILE. Drummers . . . . . . 8 Corporals . . . . . . 20 Privates . . . . . . 496 —— 524 TOTAL . 554	No.	No.	Series.
								Special I. A. Cir. of 15th July 1890.	*Paymaster sergeants will be gradually absorbed, an additional corporal being added to the establishment of each regiment to assist in pay duties.			
								G. of I., M. D., letter No. 2164 M. W. (Accomodation for Troops), dated 18th October 1887.	Nine of the staff sergeants and sergeants are allowed to marry. Seven of the rank and file are allowed to marry.			
A Head-quarters Wing of a British Infantry Battalion—*contd.*	215	BAND BARRACK. Same as for a battalion . .	...	...	...	...	15973, excluding steps.	...	See item 177.			
	216	BARRACKS FOR SINGLE RANK AND FILE	...	...	...	...	...	...	The strength, in rank and file, of a head-quarters wing of a British infantry battalion is 524 men,—see page 114. The number of men to be accommodated in the barracks for single rank and file will be— Rank and file as above . . . 524 *Deduct*— Married rank and file . . . 7 * Band . . . . . 20 * Drummers . . . . . 8 —— 35 —— 489 *These are provided for in the band barrack. The strength of a half-company in single rank and file is therefore $\frac{489}{8}$=61·12. It will suffice if 8 half-company barracks, each for 60 men, are built. These will provide for 480 men: the deficient accommodation for 9 men may be neglected, as there will always be a certain number of absentees, sick, &c.			
		Eight half-company barracks, each for 2 sergeants and 60 rank and file.										
		Each barrack— 2 dormitories, each for 16 men, each	60	24	20	90	19,550 each, exclusive of steps.	...	......	...	6A to 6 I.	B. I.
		2 dormitories, each for 14 men, each	52½	24	20	90						
		2 day-rooms each . . .	37½	24	20	30						
		Each quarter for a sergeant contains—										
		1 sitting room	16	14	20	483½						
		1 bed-room	16	11	20							
		1 bath-room	$10\frac{7}{16}$	8	9½							
		1 store room	$10\frac{7}{16}$	8	9½	...			See remarks against item 2.			

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.: Authority.	Detail of Orders, &c.: Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
		(a) PRIMARY BUILDINGS—*concld.*										
	217	BARRACKS FOR MARRIED RANK AND FILE.	...	...	...	...	...	P. W. D. Cirs. No. 33 of 1870 and No. 59 of 1874.	Accommodation is required for 7 families (see page 114). Of the 7 quarters— $\frac{7 \times 30}{100}$ = 2·10, say 2, are to be class I. $\frac{7 \times 60}{100}$ = 4·20, „ 4, „ „ II. $\frac{7 \times 10}{100}$ = 0·70, „ 1, is to be „ III.			
		(a) *A block containing*— 2 quarters, class I. 1 quarter „ III.										
		Each class I quarter consists of— 1 day and bed-room . . 1 bath-room . . .	16 7½	14 6¼	18⅝ 10	271	3,623, exclusive of steps.	......	......	...	7A to 7G	B. I.
		The class III quarter consists of— 1 day-room . . . 1 bed-room . . . 1 bath-room . . .	18 16 7½	16 10 6¼	18⅝ 18⅝ 10	495						
		(b) *A block containing*— 4 class II quarters— Each quarter consisting of— 1 day-room . . . 1 bed-room . . . 1 bath-room . . .	16 14 7½	14 10 6¼	18¾ 18⅝ 10	411	4,539, exclusive of steps.	......	...... See remarks against item 3.	...	7A to 7G	B. I.
	218	QUARTERS FOR WARRANT OFFICERS.										
		(a) *Quarters for the sergeant-major*— 1 sitting room . . . 2 bed-rooms, each . . 2 bath-rooms, each . .	16 16 10	16 10 8	18 18 10	736	1,761	......	......	...	17	B. I.
		(b) *Quarters for the band-master*— Same as for the sergeant-major.	...	...	...	736	1,761	...			17	B. I.
		(c) *Quarters for the school-master*— Same as for the sergeant-major.	...	...	...	736	1,761	......	......	...	17 71A	B. I.
		(d) *Quarters for the school-mistress*— Same as for the sergeant-major.	...	...	...	736	1,761	......	...... See remarks against items 5 and 130.	...	17 71A	B. I.
	219	QUARTERS FOR THE STAFF SERGEANTS AND SERGEANTS.	...	...	...	...	...	......	For strength, see page 114. The 18 quarters at the ends of the single men's barracks and the band barrack will accommodate as many sergeants. Moreover, a sergeant will probably be accommodated in each of the following buildings— (i) The institute, the canteen sergeant. (ii) The quarter-guard, the provost sergeant. (iii) The officer's mess, the caterer. Thus 21 out of the 26 staff sergeants and sergeants may be said to be provided for. These 21 quarters will be occupied as follows:— 1 Band sergeant (in band barrack). 3 Color sergeants. 17 Class C sergeants. A special block of quarters should be built to accommodate the remaining 5 men, *viz.*:— 1 Quartermaster sergeant, class A. 1 Armourer sergeant } class B. * 1 Paymaster. „ } class B. 1 Orderly room „ } class B. 1 Color sergeant } class B. NOTE.—The sergeants' quarters at the ends of the single men's barracks and the band barrack afford a superficial area of 400 s. feet per sergeant, exclusive of the bath-room, whereas the authorised areas for classes B and C sergeants are 416 s. feet and 364 s. feet per man, respectively. Hence these quarters are available for either class B or C sergeants. * Paymaster sergeants will be gradually absorbed, an additional corporal being added to the establishment of each regiment to assist in pay duties.			
		A block containing 1 quarter, class A, and 4 quarters, class B—						Special I. A. Cir. of 15th July 1890.				
		The class A quarter consists of— 1 sitting room . . . 2 bed-rooms, each . . 1 bath-room . . .	16 16 10	16 10 10	18 18 10	676	5,563, exclusive of steps.	......	......	...	18A 18B	B. I.
		Each class B quarter consists of— 1 sitting room . . . 1 bed-room . . . 1 bath-room . . .	16 16 10	16 10 8	18 18 10	496			See remarks against item 4.			

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Particulars.	Standard plan. No.	Type plan. No.	Series.
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.					
A Head-quarters V [illegible] Infantry Battalion—contd.		(b) AUXILIARY BUILDINGS.										
	220	ARMOURER'S SHOP.										
		Same as for a battalion	...	...	...	...	2,189	...... P. W. D. Cir. No. 27 of 1871.	...... To be same as for a full battalion. See items 132 and 182.		{41A to 41C}	B. I.
	221	BLACKSMITH'S FORGE AND WORKSHOP, VOLUNTARY.										
		Forge	22	22 or 24	...	...	900 approximate.	......	See remarks against No. 134.			
	222	BOWLING ALLEY.										
		Not authorised.										
	223	CRICKET GROUND	...	...	...	...	...	......	See items 10 and 184.			
	224	DRY EARTH STORE.										
		1 shed	...	...	...	...	...	......	See item 11.			
	225	DRY STORE ROOM.										
		1 room	15	15	12	...	443	......	...... See item 12. This is provided for under the same roof as the regimental store rooms, see item 241.	2C	...	...
	226	FIRE-ENGINE SHED.										
		Each engine shed	24	13	8	...	416 each.	......	...... See item 187.	...	48	B. I.
	227	FIVES COURTS. One court containing—										
		2 ball courts, each	45	30			} 7,051	......	...... See item 14.	32		
		2 fives courts „	45	42½								
	228	FURNITURE STORE ROOM.										
		1 open shed	50	15	...	...}	1,295					
		1 store room	15	10	....	...}						
		Chowkidar's hut	10	10	...	...	179					
		Barrackmaster's office	..	...	...	...	...	...	See item 15.			

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Authority.	Particulars.	Standard plan. No.	Type plan. No.	Series.
A Head-quarters Wing of a British Infantry Battalion—contd.	229	GYMNASIUM	..	...	...	...	...	...	See item 17.	...	67	B. I. modified to suit.
	230	INSTITUTE	...	...	...	...	...	...	...... See item 19.			
		(a) Liquor bar portion—							The area authorised for a head-quarters wing of a British infantry battalion is— (a) Liquor bar portion . . . 1,050s. ft. (b) Library „ . . . 1,326s. ft. (c) Recreation and refreshment portion . . . 4,782s. ft. Total . 8,058s. ft This excludes bath-room space.			
		Private's room	28	24	} 20	...	} 5,985, excluding steps.					
		Bar or issue room	10	24								
		Beer store	16	24								
		Corporal's room	12	24								
		Sergeant's quarters { sitting room	16	14								
		Sergeant's quarters { bed „	16	8⅞								
		Sergeant's quarters { bath „ in verandah	10 7/16	8	9½							
		(b) Library portion—										
		Book room	12	24	} 20	...	4,163, exclusive of steps.					
		Reading room	18	24								
		Librarian's quarters { sitting room	16	14								
		Librarian's quarters { bed „	16	8⅞								
		Librarian's quarters { bath „ in verandah	10 7/16	8	9½							
		(c) Recreation and refreshment portion—										
		Temperance room	28	24	} 20	...	12,259, exclusive of steps.		* The theatre and supper rooms might be thrown into one.			
		Billiard „	28	24								
		Games „	24	24								
		Theatre	44	24*								
		Refreshment or supper room	44	24*								
		Refreshment, issue and store rooms.	16	24								
		Caterer's quarters { sitting room	16	14								
		Caterer's quarters { bed „	16	8⅞								
		Caterer's quarters { bath „ in verandah	10 7/16	8	9½							
	231	LINES	...	...	...	...	...	P. W. D. Cir. No. 56 of 1867.	Forwards block plan of lines for a head quarters wing of a British infantry battalion.	3 See also 4		
	232	LINES OF MUSTERED FOLLOWERS.	...	...	...	...	...	...	See item 21.			
	233	MAGAZINE.										
		Ammunition room	16	10	16⅛	...	} 451	...	...	...	60 A to 60 G	} B. I.
		Powder room	8	6	16⅛	...						
		Lobby	7¼	6	16⅛	...					61	B. I.
		Enclosure wall	...	...	...	...	...	...	...... See items 22 and 148.	...		

Accommodation authorised for British Troops in the Plains—continued.

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Detail of Orders, &c. Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
A Head-quarters Wing of a British Infantry Battalion—*contd.*			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
		(*b*) AUXILIARY BUILDINGS—*contd.*										
	234	ORDERLY AND COURT-MARTIAL ROOMS.										
		* { Orderly-room	18¼	24	16	...	...	...	......	...	45	B. I.
		Court-martial room	20	24	16	...						
		Room for officer on duty	22½	24	16	...						
		Above area given according to type plan.							See item 24. * Details given are taken from the plan (No. 4) issued with Public Works Department Circular No. 56 of 1867, showing what Government considered sufficient for the purpose when allotting the lower floors of double-storeyed barracks to auxiliary services.			
		Orderly-room	22	20	20	...	4,911					
		Court-martial room	35	20	20	...						
		Room for officer on duty	27	20	20	...						
		A bath room can be given in verandah.										
	235	PARADE-GROUND	...	...	...	...	...	...	See item 25.			
	236	PAY OFFICE.										
		1 room	13½	24	16	...	1,026	...	NOTE.—The room for the pay office can be given under the same roof as the orderly-room,—see item 234.			
	237	PLUNGE-BATH.										
		1 bath	66	20	10½	...	1,553	...	...... See item 27. NOTE.—See also item 253 (vi).	...	63	B. I.
	238	QUARTER-GUARD AND CELLS.										
		Guard-room for 12 men	45	24	20	90	6,720	...			{ 64A to 64D }	B. I.
		Lock-up for 10 men	37½	24	20	90						
		Provost sergeant's quarter—										
		1 day-room	16	14	20	467½						
		1 bed-room	16	11	20							
		Bath-room	$8\frac{7}{16}$	8	9½							
		6 cells, each	13	10	16½	130	2,978	...			Ditto	B. I.

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Authority.	Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
A Head-quarters Wing of a British Infantry Battalion—*contd.*								G. of I., M. D., letter No. 876 M. W., dated 28th August 1884.	For a head-quarters wing of a British infantry battalion accommodation is to be provided for— 12 men in guard-room. 10 ,, ,, lock-up. 6 ,, ,, in cells. See item 28.			
	239	RATION SHEDS.	...	...	...	...	...	...	See item 29.			
	240	REAR GUARDS.						...	See item 30.			
	241	REGIMENTAL (OR QUARTERMASTER'S) STORE.										
		2 store rooms, each	31¼	24	11	...	3,559	...	......		68	B. I.
		Tailor's workshop	24	15	11	...		P. W. D. Cir. No. 96 of 1867.	See item 31. Lays down accommodation to be provided for a head-quarters wing of a British infantry battalion.			
		Quartermaster's office	24	10	11	...						
		Dry store room	13	8½	9	...						
	242	REGIMENTAL WORKSHOPS, VOLUNTARY.										
		Carpenter's shop	33⅓	22	16½	...	5,886	......	......		69	B. I.
		Carpenter's store room	41	8	9¼	...						
		Painter's shop	14⅔	22	16½	...						
		Tinsmith's shop	9⅓	22	16½	...						
		Shoemaker's shop	14⅔	22	16½	...						
		Bookbinder's shop	9⅓	10¼	16½	...		P. W. D. Cir. No. 56 of 1867.	For a head-quarters wing of a British infantry battalion the accommodation is to be two-thirds of that authorised for a full battalion.			
		Watchmaker's shop	9⅓	10¼	16½	...						
		Printer's shop	16⅔	22	16½	...						
		2 water rooms, each	8	8	9¼	...						
	243	RELIGIOUS READING AND PRAYER ROOM.							......		44	
		1 main room	24	18	20	...	1,685	......	See item 33.			
		2 side rooms, each	14	8	12	...						
		Porch	10	10	12	...						
	244	RIFLE RANGE.						......	See items 161 and 205.			
		Same as for a battalion	...	...	...	...	...					

Arms of the service, Departments, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.				
								Authority.	Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
A Head-quarters Wing of a British Infantry Battalion—*contd.*		**(8) AUXILIARY BUILDINGS—** *concld.*										
	245	SCHOOL.										
		Class room for 80 men . .	66	24	20	...	7,424	......	......	...	71B	B. I.
		" " 36 children . .	22	24	20	...						
		2 water rooms, each . .	6	10	10¾	...						
		Quarters for schoolmaster and schoolmistress, each—							See item 35.			
		1 sitting room . . .	16	16	20	...						
		2 bed-rooms, each . . .	16	10	20	...						
		Bath-room	10	10	20	...						
	246	SENTRY BOXES.										
		According to circumstances, each	3	3	...	...	...	......	See items 36 and 207.	115		
	247	SERGEANTS' MESS AND RECREATION ROOM.										
		* Mess room	47½	24	16	...	...	......	......	...	67	B. I.
		* Recreation room . .	24 10	24 6½	16 16	... ...						
		* Beer store	20	12	16	...						
		* Caterer's room . . .	18	12	16	...						
		* Pantry	7½	12	16	...						
		In accordance with type plan—							See item 37			
		Mess room	30	24	20	...	4,559, exclusive of steps.					
		Recreation room . . .	28	24	20	...						
		Beer store	24¼	11$\frac{11}{16}$	average 11	...						
		Caterer's room . . .	18	11$\frac{11}{16}$	11	...						
		Pantry	11$\frac{11}{16}$	8	11	...						

* The detail given is based on the plans issued with Public Works Department Circular No. 56 of 1867, and shows the accommodation to be given in lower floors of double-storeyed barracks. This detail gives a superficial area of 2,327 feet; the authorised area (type plan) for a full battalion is 2,506 s. feet. The strength in warrant officers, staff sergeants and sergeants of a battalion and of a head-quarters wing of a battalion is 50 and 30 respectively. For the latter ⅗ths the accommodation authorised for the former might be given in the case of the mess room, and the recreation room made 28' × 24' (the smallest-sized room that can conveniently admit of a billiard table being used), the verandah rooms remaining of the same size as authorised for a battalion. This will give a superficial area of 1,978 feet for a head-quarters wing (⅗ths of 2,506=1,503).

Arms of the service, Departments, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Authority.	Particulars.	Standard plan No.	Type plan No.	Series.
A Head-quarters Wing of a British Infantry Battalion—*contd.*	248	SKITTLE ALLEY.										
		1 Skittle alley	38	16	7½	...	802	......	......	...	73	B. I.
	249	WELLS	...	...	...	...	...	......	See item 42.			

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A Head-quarters Wing of a British Infantry Battalion—contd.

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Particulars.	Standard plan.	Type plan.	
										No.	No.	Series.
		(c) SUBSIDIARY BUILDINGS.	Feet	Feet	Feet.	Supl. ft.	Supl. feet.					
	250	COOK-HOUSES	...	...	...	...	...	......	See item 43.			
		(i). For the band barrack.										
		A cook-house, containing— 1 kitchen 1 cooking place 1 cook's room	 23½ 16 10	 16 5 10	 12 24½ 8		762	......	......	...	119A 119B	B. I.
		(ii). For single men's barracks	...	...	...	...		......	See item 43 (i).			
		2 cook-houses, each for 2 companies, each containing— 2 kitchens, each 2 cooking places, each 2 cook's rooms, each	 23½ 16 10	 16 5 10	 12 24½ 3		1,534 each.	......	......	...	119A 119B	B. I.
		(iii). For married men	...	...	...	...	...	......	See item 43 (ii).			
		(a) For the block for 2 quarters, class I, and 1, class III— 1 kitchen 3 cooking chambers, each	 12 3½	 6 1½	 9½ 16		215	......	......	...	7F	B. I.
		(b) For the block of 4 class II quarters— 2 kitchens, each 4 cooking chambers, each	 7¾ 3½	 6 1½	 9½ 16		346	......	......	...	7F	B. I.
		(iv). For the sergeant-major.										
		1 kitchen 1 cooking chamber	7¾ 7¾	6 1½	9½ 16	... ...	117	......	......	...	17	B. I.
		(v). For the bandmaster.										
		Same as for sergeant-major	...	...	...	...	117	......	......	...	17	B. I.
		(vi). For the schoolmaster.										
		Same as for sergeant-major					117				17	B. I.

A Head-quarters Wing of a British Infantry Battalion—contd.

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Authority.	Particulars.	Standard plan No.	Type plan No.	Series.
		(vii). For the schoolmistress.										
		Same as for sergeant-major	...	...	...	...	117	......	......	...	17	B. I.
		(viii). For the block of quarters for staff sergeants and sergeants.										
		1 kitchen 5 cooking chambers, each	20½ 3½	6 1½	9½ 16	... ...	393	......	...... See item 219.	...	7F 18B	B. I.
		(ix). For the institute.										
		1 kitchen 1 cooking chamber	16 16	9½ 5	10 16	... ...	354	......	...... No scale has been laid down it is usual to give a cook-house of the same size as that allowed for a sergeants' mess.	...	67	B. I.
		(x). For the sergeants' mess.										
		1 kitchen 1 cooking chamber	16 16	9½ 5	10 16	... ...	354	......	See item 43 (ix).	...	67	B. I.
	250½	FUEL STORE FOR THE INSTITUTE	...	...	...	...	...	......	This can be arranged for in the cook-house for the institute, or in a verandah room of the institute building.			
	251	LATRINES	...	...	...	...	...	...	See item 46.			
		(i). For the band barrack.										
		1 latrine of 4 seats	11	12	9	...	199	......	......	...	4	R. A.
		(ii). For single men's barracks.										
		4 latrines, each for 8 seats, each— Privy Cart shed Sweeper's room Dry earth shed	 21⅝ 11 8 5¼	 12 8 6 4	 9 7 7 4½		637 each.	......	...... See items 175(i) and 212 (ii).	...	132	B. I.
		(iii). For married men	...	...	...	...	...	P. W. D. Cir. No. 16 of 1806.	Fixes proportion of seats to be provided in the latrines for married men's barracks.			
		For the 2 blocks of quarters for 7 married rank and file—								...	7G	B. I.
		(a) For men— 1 latrine with 2 seats	5⅔	12	9	...	121	......	......			
		(b) For women and children	...	...	...	...	...	......	See item 46(ii).			
		A latrine with 2 seats— Privy Entrance lobby	 5⅔ 5⅝	 12 5	 9 9		172	......	......	...	7G	B. I.

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Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. — Authority.	Detail of Orders, &c. — Particulars.	Standard plan.	Type plan.	
			Feet.	Feet	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
A Head-quarters Wing of a British Infantry Battalion—contd.		(c) SUBSIDIARY BUILDINGS—contd.										
	251	LATRINES—contd.										
		(iv). For the sergeant-major. 1 seat	6	6	7⅝	...	74					
		(v). For the bandmaster	6	6	7⅝	...	74	......	......	...	17	B. I.
		(vi). For the schoolmaster	6	6	7⅝	...	74					
		(vii). For the schoolmistress	6	6	7⅝	...	74					
		(viii). For the block of quarters for 5 staff sergeants and sergeants 1 latrine with 2 seats	5⅜	12	9	...	121		See item 29.	...	7G 18B	B. I.
		(ix). For the quarter-guard. 1 latrine with 2 compartments, each for 2 seats, each	5⅜	12	9	...	283	......	......	...	64B	B. I.
		Covered passage for sentry	7	5	9	...						
		(x). For the school	...	...	...	...	...	......	See item 46 (vii).			
		Privy for boys	8¾	8	7	...	177	......	......	...	71E	B. I.
		" for girls	8⅝	8	7	...						
		Urinary for boys	4½	3⅜	...	...						
		Dry earth shed	4½	3⅜	...	...						
		(xi). For the sergeants' mess	...	...	...	...	...	......	See item 46 (viii).			
		1 latrine with 2 seats	10	5⅜	9	...	105	......	......	...	67	B. I.
		(xii). For the gymnasium	...	...	...	...	...	......	See item 46 (iii).			
	252	LAVATORIES	...	...	...	...	...	......	See item 45.			
		(i). For band barrack.										
		1 lavatory with washing room for 10 basins	15	16	9	...	598				4 138	R. A. B. I.
		4 private ablution rooms, each	6½	8	9	...						

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Authority.	Particulars.	Standard plan No.	Type plan No.	Series.
A Head-quarters Wing of a British Infantry Battalion—contd.		(ii). For single men's barracks.										
		4 lavatories, each containing— 1 washing room for 20 basins	30	16	9	...	1,120 each.	......	......	...	138	B. I.
		8 private ablution rooms, each	6½	5	9	...						
		(iii). For the quater-guard	...	...	...	...	...	......	See item 45(ii).			
		Washing room for 8 basins	12	16	9	...	407	......	......	...	64 B	B. I.
		2 private ablution rooms, each	6½	5	9	...						
	253	URINARIES	...	...	...	...	...	......	See item 47.			
		(i). For the band barrack.										
		1 urinary of 2 compartments	6½	5	7	...	33					
		(ii). For the single men's barracks.										
		8 urinaries, each of 2 compartments	6½	5	7	...	33 each.	M. D. Cir. No. 7 M. W., dated 4th December 1882.	If the barracks are in pairs, single urinaries may be arranged between them with double the number of compartments shewn.			
		(iii). For the married men's barracks. 2 urinaries, each of 1 compartment	6½	2½	7	...	16 each.	Ditto.	Ditto. ditto.			
		(iv). For the gymnasium. (a) For officers— 1 urinary of 1 compartment	6½	2½	7	...	16					
		(b) For men— 1 urinary of 1 compartment	6½	2½	7	...	16					
		(v). For the institute	...	...	...	...	...		No scale has been laid down for institutes. Military Department Circular No. 7 M. W., dated 4th December 1882, allows 3 compartments for the recreation and refreshment buildings (liquor bar, library and reading room) of a head-quarters wing of a battalion, and it is proposed to give the same number of compartments for the institute.			
		3 compartments in 1 or more blocks as may be found convenient	6½	7½	7	...	49					
		(vi). For the plunge-bath.										
		1 urinary of 1 compartment	6	2½	7	...	16	M. D. Cir. No. 7 M. W., dated 4th December 1882.	The plunge-bath urinal might be in one corner of the building, a trough through the wall conveying the water to a receptacle outside.			
		(vii). For the quarter-guard.										
		1 urinary of 2 compartments	6½	5	7	...	33					

A Head-quarters Wing of a British Infantry Battalion—*contd.*

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Detail of Orders, &c. Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet					
		(*c*) SUBSIDIARY BUILDINGS—*contd.*										
	253	URINARIES—*contd.*										
		(*xiii*). *For the school.*										
		1 urinary of 2 compartments .	6½	5	7	...	33	......	This is for the men attending school.			
		(*ix*). *For the workshops.*										
		1 urinary of 1 compartment .	6½	2½	7	...	16	M. D. Cir. No. 7 M. W., dated 4th December 1882.	Not to be provided if a latrine or urinary exists conveniently near.			
		(*x*). *For the regimental offices, orderly-room, &c.*										
		1 urinary of 1 compartment .	6½	2½	7	...	16	Ditto	Ditto ditto			
		(*xi*). *For the regimental (or quartermaster's) store.*										
		1 urinary of 1 compartment .	6½	2½	7	...	16	Ditto	Ditto ditto			

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A detached Wing of a British Infantry Battalion.

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Detail of Orders, &c. Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
		(*a*) PRIMARY BUILDINGS.						Letter No. 4947B. (Buildings—Barrack), dated 18th November 1885, from the Qr. Mr. Genl. in India, to the Inspr. Genl. of Mily. Works.	The strength of a detached wing of a British infantry battalion is— *Class B sergeants.* Color sergeants . . . 4 — 4 *Class C sergeants.* Company sergeants . . 16 — 16 *Rank and file.* Drummers . . . 8 Corporals . . . 20 Privates . . . 384 — 412 GRAND TOTAL 432			
								G. of I., M. D., letter No. 2164 M.W. (Accommodation for Troops), dated 18th Octotber 1887.	Seven of the sergeants are allowed to marry. Five of the rank and file are allowed to marry.			
	254	BAND BARRACK. Not authorised.										
	255	BARRACKS FOR SINGLE RANK AND FILE.	...	...	...	...	...	......	The strength to be provided for is 407 (412 less 5 married men). The strength of a half-company is $\frac{407}{8}$ = say 51 men. As the dormitories must be built to contain an even number of men, each half-company barrack will provide for 52 single rank and file.			
		Eight half-company barracks, each for 2 sergeants and 52 rank and file—										
		Each barrack consists of—										
		2 dormitories, each for 14 men, each . . .	52½	24	20	90	17,307 each, exclusive of steps.	......	See remarks against item 2.	...	6 A to 6 I	B. I.
		2 dormitories, each for 12 men, each . . .	45	24	20	90						
		2 day-rooms each . . .	32½	24	20	30						
		Each quarter for a sergeant contains—										
		1 sitting room . . .	16	14	20	483½						
		1 bed-room . . .	16	11	20							
		1 bath-room . . .	$10\frac{7}{16}$	8	9½							
		1 store room . . .	$10\frac{3}{16}$	8	9½							

Accommodation authorised for British Troops in the Plains—continued.

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Detail of Orders, &c. Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
		(a) PRIMARY BUILDINGS—*contd.*										
	256	BARRACKS FOR MARRIED RANK AND FILE.	...	...	...	...	...	...... P. W. D. Cirs. No. 33 of 1870 and No. 59 of 1874.	Accommodation is required for 5 families,—see page 129. Of the 5 quarters— $\frac{5 \times 30}{100}$ = 1·50, say 1, should be class I. $\frac{5 \times 60}{100}$ = 3·00 „ 3 „ „ „ II. $\frac{5 \times 10}{100}$ = 0·50 „ 1 „ „ „ III. But to avoid the expense involved in the construction and maintenance of a number of small buildings, all 5 quarters might be constructed as class II, as approved by His Excellency the Commander-in-Chief and Government in the analogous case of family quarters for the royal artillery at Jhansi.			
		A block of 5 quarters, class II— Each quarter consists of— 1 day-room . . . . 1 bed „ . . . . 1 bath „	 16 14 7½	 14 10 6¼	 18⅚ 18⅚ 10	411	5,435, exclusive of steps.	......	...... See remarks against item 3.	...	7A to 7G	B. I.
	257	QUARTERS FOR SERGEANTS	...	...	...	...	...	......	For strength see page 129. The 16 quarters at the ends of the single men's barracks will accommodate as many sergeants. Moreover, a sergeant (the canteen sergeant) will probably be accommodated in the institute. Thus 17 out of the 20 sergeants may be said to be provided for. These 17 quarters will be occupied as follows:— 1 color sergeant, class B. 16 sergeants, class C. A special block of quarters should be built to accommodate the 3 remaining color sergeants. NOTE.—The sergeants' quarters at the ends of the single men's barracks afford a superficial area of 400 feet per sergeant, exclusive of the bath-room; whereas the authorised areas for class B and C sergeants is 416 superficial feet and 304 superficial feet per man, respectively. Hence these quarters are available for either class B or C sergeants.			
		A block of 3 class B quarters— Each quarter consists of— 1 sitting room . . . . 1 bed „ . . . . 1 bath „	 16 16 10	 16 10 8	 18 18 10	496	3,298, exclusive of steps.	......	...... See remarks against item 4.	...	18A 18B	B. I.

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6 ct

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Particulars.	Standard plan. No.	Type plan. No.	Series.
A detached Wing of a British Infantry Battalion—*contd.*		(*b*) AUXILIARY BUILDINGS.	Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
	258	ARMOURER'S SHOP.										
		Same as for a battalion . .	...	...	...	...	2,189	...... P. W. D. Cir. No. 27 of 1871.	...... To be same as for a full battalion. See items 132 and 182.	...	41A to 41C	B. I.
	259	BLACKSMITH'S FORGE AND WORKSHOP, VOLUNTARY.										
		Forge	22	22 or 24	...	...	900 approximate	......	See remarks against item 134.		—	
	260	BOWLING ALLEY.										
		(Not authorized)										
	261	CRICKET GROUND . . .	...	...	...	...	...	......	See items 10 and 184.			
	262	DRY EARTH STORE . . .	...	...	...	...	...	......	See item 11.			
		1 shed.										
	263	DRY STORE ROOM.										
		1 room	15	15	12	...	443	......	...... See item 12. This is provided for under the same roof as the regimental store rooms,—see item 279.	26	...	...
	264	FIRE-ENGINE SHED.										
		Each engine shed . . .	24	13	8	...	416 each.	......	...... See item 187.	...	48	B. I.
	265	FIVES COURT.										
		One court containing—										
		2 ball courts, each . . .	45	30	...	...	7,051	......		32	...	
		2 fives court, each . . .	45	$42\frac{1}{2}$	...	...						

A detached Wing of a British Infantry Battalion—*contd.*	266	FURNITURE STORE ROOM.										
		1 open shed	50	15	...	...	1,295					
		1 store room	15	10	...	...						
		Chowkidar's hut . . .	10	10	...	...	179					
		Barrackmaster's office . .	...	...	...	...	...		See item 15.			
	267	GYMNASIUM	...	...	...	...	...	......	See item 17.			
	268	INSTITUTE	...	...	...	...	...	......	See item 19. The area authorised for detached wing of a British infantry battalion is— S. ft. (*a*) Liquor bar portion . . 1,830 (*b*) Library ,, . . . 1,086 (*c*) Recreation and refreshment portion . . . . 3,822 TOTAL . 6,738 This excludes bath-room space.	...	67	B. I. modified to suit.
		(*a*) For a detached wing—										
		(*i*) *Liquor bar portion*—										
		Private's room . . .	25	24	20	...	5,723, excluding steps.					
		Bar or issue room . .	10	24								
		Beer store	14	24								
		Corporal's room . . .	12	24								
		Sergeant's quarter. Sitting room . .	16	14								
		Sergeant's quarter. Bed ,, . .	16	$8\frac{7}{8}$								
		Sergeant's quarter. Bath ,, in verandah	$10\frac{7}{16}$	8	$9\frac{1}{2}$							
		(*ii*) *Library portion*—										
		Book room	10	24	20	...	3,938, excluding steps.					
		Reading room	20	24								
		Librarian's quarter. Sitting room.	16	14								
		Librarian's quarter. Bed ,, .	16	$8\frac{7}{8}$								
		Librarian's quarter. Bath ,, in verandah .	$10\frac{7}{16}$	8	$9\frac{1}{2}$	...						
		(*iii*) *Recreation and refreshment portion*—										
		Temperance room . .	25	24	20	...	10,080, excluding steps.					
		Billiard room . . .	28	24								
		Games ,, . . .	24	24								
		Theatre . . . . Refreshment or supper room	55	24								
		Refreshment, issue and store rooms	12	24								
		Caterer's quarter. Sitting room .	16	14								
		Caterer's quarter. Bed ,, .	16	$8\frac{7}{8}$								
		Caterer's quarter. Bath ,, in verandah .	$10\frac{7}{16}$	8	$9\frac{1}{2}$	...						

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Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series
A detached Wing of a British Infantry Battalion—*contd.*		(*b*) AUXILIARY BUILDINGS—*contd.*	Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series
	268	INSTITUTE—*contd.*										
		(*b*) For a detachment of two companies of British infantry.							The area authorised for a detachment of 2 companies of British infantry is— S. ft. (*a*) Liquor bar portion . 930 (*b*) Library . . . . 749 (*c*) Recreation and refreshment portion . . 2,585 TOTAL . 4,264			
		(*i*) *Liquor bar portion*—										
		Private's room	20	24	20	...	3,544, exclusive of steps.					
		Bar or issue room Beer store	20	12								
		Corporal's room	20	10½								
		(*ii*) *Library portion*—							This excludes bath-room space.			
		Book room	17	10½	20	...	3,176, exclusive of steps.					
		Reading room	17	12								
		Librarian's quarter. Sitting room	16	14								
		Librarian's quarter. Bed "	16	8⅞								
		Librarian's quarter. Bath " in verandah	10 1/16	8	9½	...						
		(*iii*) *Recreation and refreshment portion*—										
		Temperance room	20	24	20	...	7,403, excluding steps.					
		Billiard room	28	24								
		Theatre Refreshment or supper room	36	24								
		Refreshment, issue and store rooms	9	12								
			9	10½								
		Caterer's quarter. Sitting room	16	14								
		Caterer's quarter. Bed "	16	8⅞								
		Caterer's quarter. Bath " in verandah	10 7/16	8	9½	...						
	269	LINES	...	...	...	...		P. W. D. Cir. No. 56 of 1867.	Forwards block plan of lines for a detached wing of British infantry.	3 See also 4	...	
	270	LINES FOR MUSTERED FOLLOWERS	...						See item 21.			

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Authority.	Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series
A detached Wing of a British Infantry Battalion—*contd.*	271	MAGAZINE.										
		Ammunition room	16	10	16⅛	...	451	......	......	...	60 A to 60G	B. I.
		Powder room	8	6	16⅛	...						
		Lobby	7¼	6	16⅛	...						
		Enclosure wall	...	...	...	...	...	......	...... See items 122 and 148.	...	61	B. I.
	272	ORDERLY AND COURT-MARTIAL ROOMS.										
		Same as for a head-quarters wing of a British infantry battalion	...	...	...	...	4,911	......	...... See items 24 and 234.	...	45	B. I.
	273	PARADE-GROUND	...	...	...	...	...	......	See item 25.			
	274	PAY OFFICE. Not authorised.										
	275	PLUNGE-BATH.										
		1 bath	66	20	10½	...	1,553	......	...... See item 27. See also item 291(*v*).	...	63	B. I.
	276	QUARTER-GUARD AND CELLS.										
		Guard-room for 12 men	45	24	20	90	5,125	...... G. of I. M. D., letter No. 876 M. W., dated 28th August 1884.	...... See item 28. For a detached wing of a British infantry battalion accommodation is to be provided for 12 men in guard-room, 8 men in lock-up, 4 men in cells.	...	64 A to 64D	B. I.
		Luck-up for 8 men	30	24	20	90						
		4 cells, each	13	10	16¼	130	2,189					
	277	RATION SHEDS	...	...	...	...	...	......	See item 29.			
	278	REAR GUARDS	...	...	...	...	...	......	See item 30.			
	279	REGIMENTAL (OR QUARTERMASTER'S) STORE.										
		1 store room	31¼	24	11		2,669	...... P. W. D. Cir. No. 96 of 1867.	...... See item 31. Lays down accommodation to be provided for a detached wing of a British infantry battalion.	...	68	B. I.
		Tailor's workshop	24	15	11							
		Quartermaster's office	24	10	11							
		Dry store room	13	8½	9							

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Arm of the service, Department, &c.	Item Number	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.		Standard plan.	Type plan.	
								Authority.	Particulars.	No.	No.	Series.
			Feet.	Feet.	Feet.	Supl. ft.	Supl. ft.					
		(b) AUXILIARY BUILDINGS—*contd.*										
	280	REGIMENTAL WORKSHOPS, VOLUNTARY.										
		Carpenter's shop	30	24	16		5,460	...	...... NOTE.—The accommodation shewn is that authorised for a detached wing in double-storeyed barracks,—P. W. Circular No. 56 of 1867.	...	69	B. I.
		Painter's shop	12	24	16							
		Tinsmith's shop	12	24	16							
		Shoemaker's shop	12½	24	16							
		Bookbinder's shop	12	12	16							
		Printer's shop	14	24	16							
		" "	10	6½	16							
	281	RELIGIOUS READING AND PRAYER ROOM.										
		1 main room	24	18	20		1,685	...	...... See item 33	44	...	...
		2 side rooms, each	14	8	12							
		Porch	10	10	12							
	282	RIFLE RANGE.										
		Same as for a battalion		...	...	...	...	...	See items 161 and 205.			
	283	SCHOOL.										
		(a) *For a detached wing—*										
		Class room for 64 men	48	24	20		3,449	...	......	...	71C	B. I.
		" " 36 children	32	24	20							
		2 water rooms, each	6	10	10¾							
		(b) *For three companies—*										
		Class room for 48 men	40	24	20		3,079	...	......	...	71C	B. I.
		" " 30 children	22	24	20							
		2 water rooms, each	6	10	10¾							
		(c) *For two companies—*										
		Class room for 32 men	26	24	20	...	2,246	......	......	...	71 C	B. I.
		" " 20 children	24	18	20							
		2 water rooms, each	6	10	10¾							
		(d) *For one company—*										
		Class room for 16 men	24	18	20	...	1,168	......	...... See item 35.	...	71 D	B. I.
		1 water room	6	10	10¾							
	284	SENTRY BOXES.										
		According to requirements, each	3	3	...	...	...	......	...... See items 36 and 207.	115	...	...
	285	SERGEANTS' MESS.										
		* Mess room	47½	24	16	...	...	......	...... * The detail given is based on the plans issued with Public Works Department Circular No. 56 of 1867, and shows the accommodation to be given in lower floors of double-storeyed barracks. This detail gives a superficial area of 2,346 feet; the authorised area (type plan) for a full battalion is 2,506 s. feet.	...	67	B. I.
		Recreation rooms	24 12	24 7	16 16							
		Beer store	20	12	16							
		Caterer's room	18	12	16							
		Pantry	7½	12	16							
		In accordance with type plan—										
		Mess room	30	24	20	...	4,559, exclusive of steps.	......	The accommodation proposed for a head-quarters wing (see item 247) might be given for a detached wing. The strength of these 2 bodies of troops (in warrant officers, staff sergeants and sergeants) is 30 and 20, respectively, but the rooms could not be further reduced in size without making them inconveniently small for billiards, dancing, &c. See item 37.			
		Recreation room	28	24	20							
		Beer store	24¼	$11\frac{11}{16}$	Average 11							
		Caterer's room	18	$11\frac{11}{16}$	11							
		Pantry	$11\frac{11}{16}$	8	11							
	286	SKITTLE ALLEY.										
		1 alley	38	16	7½	...	802	......	......	...	73	B. I.
	287	WELLS	...	...	...	...	...	......	See item 42.			

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Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Detail of Orders, &c. Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
		(c) SUBSIDIARY BUILDINGS.										
	288	COOK-HOUSES	...	...	...	...	...	......	See item 43.			
		(i). For the single men's barracks	...	...	...	...	...	......	See item 43(*i*).			
		Two cook-houses, each for 2 companies—										
		Each containing—										
		2 kitchens, each	23½	16	12	...	1,534 each.	......	......	...	119 A 119 B	B. I.
		2 cooking places, each	16	5	24½							
		2 cook's rooms, each	10	10	8							
		(ii). For married men	...	...	...	...	...	......	See item 43(*ii*).			
		For the block of 5 quarters—										
		1 kitchen	20½	6	9½	...	399	......	......	...	7 F	B. I.
		5 cooking chambers, each	3½	1½	16							
		(iii). For the block of quarters for 3 class B sergeants.										
		1 kitchen	12	6	9½	...	215	......	......	...	7 F	B. I.
		3 cooking chambers, each	3½	1½	16							
		(iv). For the institute.										
		1 kitchen	16	9½	10	...	354	......	......	...	67	B. I.
		1 cooking chamber	16	5	16							
		(v). For the sergeants' mess.							No scale has been laid down: it is usual to give a cook-house of the same size as that allowed for a sergeants' mess.			
		1 kitchen	16	9½	10	...	354	......	See item 43(*ix*).	...	67	B. I.
		1 cooking chamber	16	5	16							
	288½	FUEL STORE FOR THE INSTITUTE	...	...	...	...	...	......	This can be arranged for in the cook-house for the institute or in a verandah room of the institute building.			
	289	LATRINES	...	...	...	...	...		See item 46.			
		(i). For the single men's barracks.										
		Four latrines, each for 8 seats, each—										
		Privy	21	12	9	...	637 each.	......	...... See items 175(*i*). and 212.	...	132	B. I.
		Cart-shed	11	8	7							
		Sweeper's room	8	6	7½							
		Dry earth shed	5½	4	4½							
		(ii). For married men	...	...	...	...	...	P. W. D. Cir. No. 16 of 1866.	Fixes proportion of seats to be provided in latrines for married men's barracks.			
		For the block of 5 quarters—										
		(*a*) For men—										
		1 latrine with 1 seat	6	6	7⅝	...	74	......	......	...	7G	B. I.
		(*b*) For women and children	...	...	...	...	...	......	See item 46 (*ii*).			
		1 latrine with 2 seats—										
		Privy	5⅔	12	9	...	172	......	......	...	7G	B. I.
		Entrance lobby	5⅔	5	9							
		(iii). For the block of quaters for 3 class B sergeants.										
		1 latrine with 1 seat	6	6	7⅝	...	74	......	......	...	7G	B. I.
		(iv). For the quarter-guard.										
		1 latrine with 2 compartments, each for 2 seats, each	5⅔	12	9	...	283	......	......	...	64B	B. I.
		Covered passage for sentry	7	5	9							
		(v). For the school	...	...	...	...	...	......	See item 46 (*vii*).			
		Privy for boys	8⅚	8	7	...	177	......	......	...	71E	B. I.
		,, girls	8⅚	8	7							
		Urinary for boys	4½	3⅜								
		Dry earth shed	4½	3⅜								
		(vi). For the sergeants' mess	...	...	...	...	...	......	See item 46(*viii*).			
		1 latrine with 2 seats	10	5⅔	9	...	105	......	......	...	67	B. I.
		(vii). For the gymnasium	...	...	...	...	...	......	See item 46(*iii*).			
	290	LAVATORIES	...	...	...	...	...	......	See item 45.			

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Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.		Standard plan.	Type plan.	
								Authority.	Particulars.			
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
		(c) SUBSIDIARY BUILDINGS —*contd.*										
	290	LAVATORIES—*contd.*										
		(i). *For single men's barracks.*										
		Four lavatories, each containing—										
		1 washing room for 20 basins	30	16	9	... }	1,120 each.	......	......	...	138	B. I.
		8 private ablution rooms, each	6½	5	9							
		(ii). *For the quarter-guard.*	...	...	...	...	...	......	See item 45(ii).			
		Washing room for [illegible] basins .	12	16	9	... }	407	......	......	...	64B	B. I.
		2 private ablution rooms, each	6½	5	9							
	291	URINARIES	...	...	...	...	...	......	See item 47.			
		(i). *For the single men's barracks.*										
		8 urinaries, each of 2 compartments	6½	5	7	...	33 each.	M. D. Cir. No. 7 M. W., dated 4th December 1882.	If the barracks are in pairs, single urinaries may be arranged between them with double the number of compartments shewn.			
		(ii). *For the married men's barracks.*										
		1 urinary of 1 compartment	6½	2½	7	...	16					
		(iii). *For the gymnasium.*										
		(a) For officers—										
		1 urinary of 1 compartment .	6½	2½	7	...	16					
		(b) For men—										
		1 urinary of 1 compartment .	6½	2½	7	...	16					
		(iv). *For the institute.*	...	...	...	...	...	......	No scale has been laid down for institutes. Military Department Circular No. 7 M.W., dated 4th December 1882, allows three compartments for the recreation and refreshment buildings (liquor bar, library and reading room) of a detached wing of a battalion, and it is proposed to give the same number of compartments for the institute.			
		3 compartments in one or more blocks as may be found convenient . .	6½	7½	7	...	49					
		(v). *For the plunge-bath.*										
		1 urinary of 1 compartment .	6½	2½	7	...	16	M. D. Cir. No. 7 M. W., dated 4th December 1882.	The plunge-bath urinal might be in one corner of the building, a trough through the wall conveying the water to a receptacle outside.			
		(vi). *For the quarter-guard.*										
		1 urinary of 2 compartments	6½	5	7	...	33					
		(vii). *For the school.*										
		1 urinary of 2 compartments	6½	5	7	...	33	......	This is for the men attending school.			
		(viii). *For the workshops.*										
		1 urinary of 1 compartment .	6½	2½	7	...	16	M. D. Cir. No. 7 M. W., dated 4th December 1882.	Not to be provided if a latrine or urinary exists conveniently near.			
		(ix). *For the regimental offices, orderly-room, &c.*										
		1 urinary of 1 compartment .	6½	2½	7	...	16	Ditto	Ditto ditto.			
		(x). *For the regimental (or quartermaster's) store.*										
		1 urinary of 1 compartment .	6½	2½	7	...	16	Ditto	Ditto ditto.			

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PART II.

Accommodation authorised for British Troops in the Hills and in Hutted Camps.

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c., Authority.	Detail of Orders, &c., Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
			Feet	Feet	Feet	Supl. ft.	Supl. feet.					
A Battalion of British Infantry.		(a) PRIMARY BUILDINGS .	...	...	...	...	...	I. A. Cirs., clause 104 of 1887.	The authorised strength of a British infantry battalion is— *Warrant officers.* Sergeant-major . . . 1 Bandmaster . . . 1 Schoolmaster . . . 1 Schoolmistress . . . 1 — 4 *Class A sergeants.* Quartermaster sergeant . 1 — 1 *Class B sergeants.* Armourer sergeant . . . 1 Paymaster sergeant . . 1* Orderly-room sergeant . . 1 Band sergeant . . . 1 (These 5 are staff sergeants.) Color sergeants . . . 8 — 12 *Class C sergeants.* Company sergeants . . 32 Pioneer sergeant . . . 1 — 33 *Rank and file.* Drummers . . . . 16 Corporals . . . . 40 Privates . . . . 880 — 936 TOTAL . 986 Battalions of Highland regiments are allowed, in addition to above,— 1 sergeant piper. 5 pipers.			
								Special I. A. Cir. dated 15th July 1890.	*Paymaster sergeants will be gradually absorbed, an additional corporal being added to the establishment of each regiment to assist in pay duties.			
								G. of I., M. D., letter No. 2164 M. W. (Accommodation for Troops), dated 18th October 1887.	Of the staff sergeants and sergeants (46 men), 36 per cent., or 17, are allowed to marry.			

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Authority.	Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
A Battalion of British Infantry.—*contd.*									NOTE.—See Proceedings of a Special Committee assembled at Simla on 7th June 1887 and Government of India, Military Department, letter No. 1562 M. W. (Accommodation for Troops), dated 1st August 1887. Fire-places are to be supplied instead of stoves; iron stove pipes may be used above the chimney breast, if considered suitable by the Inspector General of Military Works.			
	292	BAND BARRACK	...	...	...	...	...	P. W. D. Cir. No. 17 of 1866.	The band is to have its own distinct barrack.			
								P. W. D. Cir. No. 85 of 1869.	The band barrack is to correspond in size with a half-company barrack.			
								P. W. D. letter No. 421 of 1874.	The band consists of a sergeant and 20 rank and file, including one corporal.			
									All orders affecting barracks for single men (item 293) apply equally to the band barrack.			
		(a) Type with enclosed verandah.										
		2 wards, each for 16 men, under *main* roof, each . . .	48	20	10	60	5,417	......	......	...	1 and 2	Hutted camps.
		1 ward for 14 men under *main* roof	42	20	10	60						
		2 day and dining rooms under *verandah* roof, each . . .	48	8½	Average 9	25½						
		1 day and dining room under *verandah* roof	42	8½	Average 9	25½						
		Quarters for band sergeant, class B—										
		1 room*	18	20	10	402			* If considered desirable, this room may be partitioned off into two by a longitudinal partition wall.			
		1 bath-room (to be added on at back)	6	7	Average 9				The verandah in front of the sergeant's quarter will be an open one.			
		(b) Type with open verandah.										
		2 wards, each for 16 men, each .	48	20	10	60	6,013	......	......	...	1 and 2	Hutted camps.
		1 ward for 14 men . . .	42	20	10	60						
		Day and dining room, 6 bays .	36	20	10	15'65						
		Quarters for band sergeant, class B—										
		1 room†	18	20	10	402			† If considered desirable, this room may be partitioned off into two by a longitudinal partition wall.			
		1 bath-room, added on at back .	6	7	Average 9				With a band barrack of the above size, it is not necessary to make any special provision for a band practice room. **See item 19 on this point.**			

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Arm of the Service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.		Standard plan.	Type plan.	
								Authority.	Particulars.	No.	No.	Series.
			Feet	Feet	Feet	Supl. ft.	Supl. feet.					
A Battalion of British Infantry—*contd.*		(*a*) PRIMARY BUILDINGS—*contd.*										
	203	BARRACKS FOR SINGLE RANK AND FILE.	...	...	...	...	...	Proceedings of a Special Committee assembled at Simla on 7th June 1887.	*Section 3.*—The constructional unit to be one bay, 20′×6′ interior space, under main roof. Accommodation is to be calculated by bays. *Section 4.—Accommodation for single men.*—"The unit for single men to be 1 bay, 20′×6′ interior space =120 square feet, providing accommodation for two men at 60 square feet per man. "Taking into consideration the dining room space, recommended in next paragraph, at the end of the dormitory, the Committee consider that 50 square feet per man is sufficient, and that in calculating the amount of accommodation to be provided for a regiment or battery, it will be sufficient to allow for $\frac{5}{6}$ths of the full strength for single men." *Section 5—Dining-room space.*—"Dining-room space should be provided by the addition of bays in prolongation of the dormitories and with or without partition between, as may be found desirable, on the scale of two bays to from 12 to 18 men."			
								G. of I., M. D., letter No. 1562 M. D. (Accommodation for Troops), dated 1st August 1887.	*Para. 3.*—"With reference, however, to section 4 of the Committee's Proceedings, I am to state that it is understood that the Committee do not propose to reduce the area per man actually in the barracks; but are of opinion that, as there is always a considerable proportion of absentees, it will suffice to provide accommodation in the huts for $\frac{5}{6}$ths of the nominal full strength of the troops occupying them. The proposal of the Committee is sanctioned in this sense only."			
								Proceedings of a Special Committee assembled at Simla on 7th June 1887.	Oxenden pattern arm-racks should be provided.			

Arm of the Service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Authority.	Particulars.	Standard plan No.	Type plan No.	Series.
A Battalion of British Infantry—*contd.*								Govt. of I., M. D., letter No. 484 M. W. (Accommodation for Troops), dated 11th March 1889.	Either type of hut—(*a*) or (*b*)—may be adopted. The local military authorities to decide in each particular case which of the two types should be followed. The size of the huts to depend on the sites available: the huts should, if possible, be built to house a whole, a half or a quarter-company per hut. The men of each company should be housed in one hut or set of huts. It is desirable, on disciplinary grounds, that men of different companies should not be accommodated under the same roof. Accommodation is required for $\frac{5}{6}$ths of 924=770 single rank and file. Deducting the band (20) and drums (16), this is reduced to (770—36) 734, and the strength in single rank and file of a half-company is $\frac{734}{16}$=45·87, say 46 men.			
		(*a*) *Type hut with enclosed verandah for 12 men.*										
		Dormitory under *main* roof .	36	20	10	60	1,264	......	......	...	1	Hutted camps.
		Day and dining room under *verandah* roof . . .	36	8½	Average 9	25½						
		(*b*) *Type hut with open verandah for 12 men.*										
		Dormitory under *main* roof .	36	20	10	60	1,519	......	......	...	1	Ditto.
		Day and dining room under *main* roof	12	20	10	20*						

* In the case of type (*b*), dining and day-room spaceis to be given by the addition of bays in prolongation of the dormitory (and with or without a partition between, as may be found desirable) on the scale of two bays for a hut for 12 to 18 men, *i.e.*, 13·3 to 20 square feet per man.

Accommodation authorised for British Troops in the Hills and in Hutted Camps—continued.

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
		(a) PRIMARY BUILDINGS—*contd.*										
	293	BARRACKS FOR SINGLE RANK AND FILE—*contd.*										
		(i). *A half-company hut with enclosed verandah.*										
		2 wards, each for 16 men, under *main* roof, each	48	20	10	60	4,624	......	......	...	I	Hutted camps.
		1 ward for 14 men under *main* roof	42	20	10	60						
		2 day and dining rooms under *verandah* roof, each	48	8½	Average 9	25½						
		1 day and dining room under *verandah* roof	42	8½	Average 9	25½						
		(ii). *A half-company hut with open verandah.*										
		2 wards, each for 16 men, under *main* roof, each	48	20	10	60	5,369				I	Ditto.
		1 ward for 14 men under *main* roof	42	20	10	60						
		Day and dining room under *main* roof, 6 bays	36	20	10	15·65						
								P. W. D. Cir. No. 28 of 1869.	In lieu of almirahs, cup-boards, with sliding shelves and folding doors, are to be provided in the walls of all barracks.			
								P. W. D. Cir. No. 63 of 1867.	Masonry jambs of doorways are not to be splayed.			
								P. W. D Cirs. Nos. 51 and 83 of 1879.	A small store room, about 10 × 8, is to be provided in each barrack occupied by British troops for deposit of troop or company stores, the arms of men in hospital, &c. Pegs, shelves and arm-racks are to be provided. These store-rooms are to be arranged for by cutting off a portion of the verandah, the exact position varying to suit the design of the barrack, but it is always to be placed so as to interfere as little as possible with the ventilation and lighting of the barrack rooms.			
								P. W. D. letter No. 508 M. W. of 26th July 1881.	Width of single men's barracks in the hills to be 20 feet; wall space per man 6 feet; floor area 60 s ft. and cubic space 600 c. ft. per man.			
									The question whether wooden or stone walls should be adopted is one which must be settled according to their relative cost and the capabilities of each locality; other things being equal, preference should be given to the more durable style of construction.			
									The height of the windows from the floor should be dependent on the altitude of the station; where necessary they should be enlarged and placed lower down so as to admit air.			
								P. W. D. Cir. No. 89 of 1864.	At hill stations when circumstances render it convenient to adopt buildings of more than one story, there is no objection to the occupation of the lower floors as dormitories.			
								P. W. D. Cir. No 21 of 1866.	The lower floors of barracks in the hills used as dormitories should be raised a few feet above the ground-level. Ventilation in the basement will not be invariably necessary, although it should be adopted whenever the foundations cannot otherwise be thoroughly well protected from damp. Whenever local circumstances admit of it, windows should be used instead of doors. In a barrack room for 24 men there should be two doors and four windowson each side. One fire-place in each room will be always necessary; but if the roomś be large or the situation either particularly high or much exposed, there should be two fire-places.			
								P. W. D. Cir. No. 5 of 1866.	In the hills the best sites for barracks are those which occupy the summit level of ground. Sites on terraces constructed on slopes should be avoided; but where such sites must be occupied, care should be taken that the drainage of the higher ground should be completely cut off from the site, and that no part of the barrack room be nearer the slope than 20 or 30 feet. Ends of rooms should face the slope, but never the sides.			
								P. W. D. Cir. No. 21 of 1866.	Barracks in the hills, specially such as are intended for winter occupation, should invariably have a southern aspect, if possible.			
		Quarters for sergeants at the ends of single men's huts.	...	...	...	...	...	Proceedings of a Special Committee assembled at Simla on 7th June 1887.	A sergeant's quarter will be attached to a hut if the number of men is in excess of eighteen, or one quarter to every two huts for twelve men each.			
								G. of I., M. D., letter No. 1562 M. W. (Accommodation for Troops), dated 1st August 1887.	The scale of quarters for sergeants is— Class A sergeants . 4 bays each, " B " . 3 " " C " . 2 " with a bath-room (6′×7′) added on at the back of each quarter.			

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Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Detail of Orders, &c. Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
A Battalion of British Infantry—*contd.*		(*a*) PRIMARY BUILDINGS—*contd.*	Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
	293	BARRACKS FOR SINGLE RANK AND FILE—*contd.*										
		Quarters for sergeants at the ends of single men's huts—contd.										
		(*a*) A class C quarter, 2 bays, on type with enclosed verandah—										
		1 room*	20	12	10	282	432	......	......	...	2	Hutted camps.
		1 bath-room . . .	6	7	Average 9							
		(*b*) A class C quarter, 2 bays, on type with open verandah—										
		1 room*	20	12	10	282	398	......	......	...	2	Ditto.
		1 bath-room . . .	6	7	Average 9							
		(*c*) A class B quarter, 3 bays, on type with enclosed verandah—										
		1 room*	20	18	10	402	624	......		...	2	Ditto.
		1 bath-room . . .	6	7	Average 9							
		(*d*) A class B quarter, 3 bays, on type with open verandah—										
		1 room*	20	18	10	402	575	......	......	...	2	Ditto.
		1 bath-room . . .	6	7	Average 9							
									* These rooms may be divided into two by a longitudinal partition wall, if considered desirable. Whichever type is selected, the verandah in front of the sergeant's quarter will remain an open one.			
A Battalion of British Infantry—*contd.*									Excluding the five staff sergeants (who are provided for otherwise), accommodation is required for— 8 Class B (color) sergeants, 3 married and 5 single. 33 Class C sergeants, 12 married and 21 single. The married sergeants are to be housed in special blocks; the single sergeants are to be provided for in quarters built on at the ends of the single men's barracks. There are 26 single sergeants to be provided for, but a sergeant will probably be accommodated in each of the following buildings:— (*i*) Institue—the canteen sergeant. (*ii*) Quarter-guard—the provost sergeant. (*iii*) The officers' mess—caterer. It will suffice if— 5 quarters class B and 19 " " C Total . 24 quarters are built on at the ends of the single men's huts.			
	294	BARRACKS FOR MARRIED RANK AND FILE AND FOR MARRIED CLASS C SERGEANTS.	...	...	...	...	...	Proceedings of a Special Committee assembled at Simla on 7th June 1887. G. of I., M. D., letter No. 1562 M. W. (Accommodation for Troops), dated 1st August 1887. G. of I., M. D., letter No. 907 M. W., (Accommodation for Troops), dated 16th May 1888. Qr. Mr. Genl.'s letter No. 3520 B. (Buildings—Sanitaria), dated 15th August 1888. G. of I., M. D., letter No. 1884 M. W. (Accommodation for Troops), dated 2nd October 1888.	Quarters are required for— 12 married rank and file. 12 " class C sergeants. Total 24 quarters. And in addition, spare quarters to extent of 25 per cent. are to be given in order to a low of men with large families being given two units if necessary. Thus the total number of quarters to be provided for a battalion is 30. Each quarter is to consist of two bays.			

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Detail of Orders, &c. Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
			Feet.	Feet.	Feet.	Supl. ft	Supl. feet.			No.	No.	Series.
		(*a*) PRIMARY BUILDINGS—*concld.*										
	294	BARRACKS FOR MARRIED RANK AND FILE AND FOR MARRIED CLASS C SERGEANTS—*contd.*										
								P. W. D. Cir. No 38½ of 1870.	A proper supply of water is to be ensured for the bath-rooms of married men's barracks, and suitable arrangements should be made for carrying off the waste water (see Public Works Department Circular No. 32 of 1870).			
								P. W. D. Cir. No. 89 of 1864.	As a rule, single-storeyed buildings are to be provided. The quarters are to be entirely separated from each other by partition walls running up to the roof. Covered passages are to be provided between the barracks and out-offices, the ends of the former being disconnected from the latter by a clear interval of 10'. The sides of these passages are not to be enclosed in any way.			
		Five blocks, each containing 6 quarters, each quarter consisting of—										
		1 room*	20	12	10 Average 9	282	3,198 each.	...	......	...	2	Hutted camps.
		1 bath-room (added on at the back)	6	7					* If considered desirable, this room may be divided into two by a longitudinal partition wall.			
								Proceedings of a Special Committee assembled at Simla on 7th June 1887. G. of I., M. D., letter No. 1562 M. W. (Accommodation for Troops), dated 1st August 1887.	Each quarter is to be provided with a Fitzwygram pattern cooking stove.			
	295	BLOCK OF QUARTERS FOR STAFF SERGEANTS AND FOR MARRIED CLASS B SERGEANTS.	...	...	...	...	...	......	The staff sergeants are (see page 142)— 1 Quartermaster sergeant, class A. 1 Armourer sergeant. ⎫ * 1 Paymaster " ⎬ class B. 1 Orderly-room " ⎪ 1 Band " ⎭ Of these the band sergeant is provided for in the band barrack. Quarters are also required for three married color sergeants, class B. * Paymaster sergeants will be gradually absorbed, an additional corporal being added to the establishment of each regiment to assist in pay duties.			
		To contain— 1 class A quarter, 4 bays. 6 " B " 3 " each.										

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Detail of Orders, &c. Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
		Each class A quarter consists of—										
		2 rooms* each	20	12	10 Average 9	522	5,393	...	......	...	2	Hutted camps.
		1 bath-room	6	7								
		Each class B quarter consists of—							* If considered desirable, this room may be divided into two by a longitudinal partition wall. See remarks against item 4.			
		1 room*	20	18	10 Average 9	402						
		1 bath-room	6	7								
	296	QUARTERS FOR WARRANT OFFICERS	...	...	...	...	...	Proceedings of a Special Committee assembled at Simla on 7th June 1887. G. of I., M. D., letter No. 1562 M. W. (Accommodation for Troops), dated 1st August 1887.	Each warrant officer is to receive four bays. See item 5.			
		(*i*). *For the sergeant-major.*										
		2 rooms* each	20	12	10 Average 9	522	1,048	...	...... * If considered desirable, these rooms may be divided into two by a longitudinal partition wall.	...	2	Hutted camps.
		1 bath-room	6	7								
		(*ii*). *For the band-master.*										
		Same as for sergeant-major	...	...	...	...	1,048	...	...... See item 130 (ii)	...	2	Ditto.
		(*iii*). *For the schoolmaster.*										
		Same as for the sergeant-major	...	...	...	...	1,048	......	......		2	Ditto.
		(*iv*.) *For the schoolmistress.*										
		Same as for the sergeant-major	...	...	...	...	1,048	......	......		2	Ditto.
									Each warrant officer need not necessarily have a detached quarter; two or more warrant officers can be provided for in one block.			
									If the sites will admit of it, the quarters for the schoolmaster and schoolmistress should be provided under the same roofs as their respective schools, otherwise on sites near the schools.			

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Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.			Type plan.	
								Authority.	Particulars.	Standard plan.		
			Feet.	Feet.	Feet.	Supl. ft	Supl. feet.			No.	No.	Series.
A Battalion of British Infantry—*contd.*		(*b*) AUXILIARY BUILDINGS	...	...	...	...	...	Proceedings of a Special Committee assembled at Simla on 7th June 1887. G. of I., M. D., letter No. 1562 M. W. (Accommodation for Troops), dated 1st August 1887.	"*Auxiliary accommodation.*—The sanctioned floor area will be adhered to as far as possible, the number of units (bays) nearest above the sanctioned area being allotted."			
	297	ARMOURER'S SHOP.							See note about fire-places, page 143.			
		Shop room	15	20	10		1,000	......	Hill hut type.			
		Forge ,,	12	20	10							
		Water and wood store	8¾	10	10							
		Drying room.	10	10	10							
		No verandah	...	...	...	...	...	P. W. D. Cir. No. 51 of 1874.	Bench is to be fixed to the north and the forge to the south.			
								P. W. D. Cir No 27 of 1871.	Standard and type plans for the plains to be generally followed, the dimensions being reduced as shewn and the style of building being modified to suit the hills.		41 A to 41 C	B. I.
								P. W. D. letter No. 1601 M. W., dated 14th September 1874.	Verandahs on east and west sides of the building are not necessary.			
	298	BLACKSMITH'S FORGE AND WORKSHOP, VOLUNTARY.										
		Forge	15	20	10	...	597	......	Hill hut type.			
								P. W. D. letter No. 1601 M. W., dated 14th September 1874.	In the hills a verandah, 8' wide, is to be given on one side.			
									To suit the hut type of construction this verandah can be made 9' wide as per back verandah of hospital hut,—see type plan No. 2, hutted camps series.			
A Battalion of British Infantry—*contd.*								P. W. D. Cir. No. 31 of 1866.	To be a detached building and placed near the armourer sergeant's quarters.			
								P. W. D. Cir. No. 53 of 1868.	Bonnets, flues, or other suitable means to be provided for carrying off smoke.			
								P. W. D. letter No. 864 M. W., dated 28th October 1881.	Anvil blocks are to be supplied as fixtures by the Military Works Department.			
	299	BOWLING ALLEY.										
		Alley	66	18	7½	...	1,540	...	......		30	...
								P. W. D. letter No. 1601 M. W., dated 14th September 1874.	To be the same as for the plains.			
								P. W. D. Cir. No 11 of 1865.	One of the two skittle alleys allowed for a British infantry battallion may be converted into a bowling alley.			
									See item 10.			
	300	CRICKET GROUND	...	...	...	...	...	P. W. D. Cir. No. 11 of 1865.	Authorises the provision of a cricket ground for a British infantry battalion.			
								P. W. D. letter No. 1601 M. W., dated 14th September 1874.	Cricket ground in the hills is to be 150 yards square with a piece of it, 50 yards square, covered with smooth level turf. It should be near the barracks; the drill ground is a good place.			
	301	DRY EARTH STORE	...	...	...	...	...	......	See remarks against item 11.			
		2 sheds, each.										
	302	DRY STORE ROOM	...	...	...	...	...	P. W. D. letter No. 1601 M. W., dated 14th September 1874.	The same accommodation is to be provided in the hills as in the plains.			
		1 room	15	15	12	...	443	......	See item 12.		26	...
									This is provided for under the same roof as the regimental store rooms,—see item 317.			
	303	FIRE-ENGINE SHED	...	...	...	...	...	P. W. D. letter No. No. 845 of 1875.	Fire-engine sheds are not necessary at hill stations. Reliance is to be placed on buckets, &c., for suppression of fires.			

Accommodation authorised for British Troops in the Hills and in Hutted Camps—continued.

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Detail of Orders, &c. Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
A Battalion of British Infantry—*contd.*			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.					
		(*e*) AUXILIARY BUILDINGS—*contd.*										
	304	FIVES COURT.										
		Fives court	50	30	25	}	1,932	……	……	33 & 34	…	
		Dressing room	11½	10	7⅔	}						
		Spectators' gallery	30	10	8	}						
								P. W. D. Cir. No. 63 of 1875.	Forwards revised standard plan of covered fives court for the hills.			
									See remarks against item 14.			
									His Excellency the Commander-in-Chief in India has decided that fives courts are not to be provided in hutted camps.			
	305	FURNITURE STORE ROOM	…	…	…	…	…	……	See item 15.			
		Two open sheds, each	37½	20	10	…}	1,331	……	Hill hut type, no verandahs.			
		One store room	15	20	10	…}						
		Chowkidar's hut	10	10	…	…	179					
		Barrackmaster's office	…	…	…	…	…					
								P. W. D. letter No. 1601 M. W., dated 14th September 1874.	To be the same in the hills as in the plains. Only one store for each station.			
	306	GYMNASIUM	…	…	…	…	…	……	See item 17.			
								P. W. D. Cir. No. 41 of 1876.	The standard plan issued with Public Works Department Circular No. 24 of 1875 is made applicable to the hills, but the height of school of arms is to be reduced to 14 feet, and that of the soldiers' dressing room to 12 feet. Arrangement of the apartments may be modified to suit the peculiarities of the site.	60	…	
	307	INSTITUTE										
		(*i*). *For a battalion*										
A Battalion of British Infantry—*contd.*		(*a*) Liquor bar portion—							S. ft. (*a*) For liquor bar portion . . 2,120 (*b*) „ library „ . . 1,560 (*c*) „ recreation and refreshment portion . . 5,936 TOTAL . 9,616 This is exclusive of bath-room space.			
		Private's room	45	20	10	…	4,824					
		Bar or issue room	10	20	10							
		Beer store	19	20	10							
		Corporal's room	20	20	10							
		Sergeant's quarter { 1 room	12	20*	10 Average							
		Sergeant's quarter { 1 bath-room	6	7	9							
		(*b*) Library portion—										
		Book room	10	20	10	…	3,570					
		Reading room	56	20	10							
		Librarian's quarter { 1 room	12	20*	10 Average							
		Librarian's quarter { 1 bath-room	6	7	9				* If considered desirable, these rooms may be divided into two by longitudinal partition walls.			
		(*c*) Recreation and refreshment portion—										
		Temperance room	45	20	10	…	13,133					
		Billiard room	28	20	10							
		Games „	36	20	10							
		Theatre	75	20	10							
		Refreshment or supper room	81	20	10							
		Refreshment, issue and store rooms	20	20	10							
		Caterer's quarter { 1 room	12	20*	10 Average							
		Caterer's quarter { 1 bath-room	6	7	9							
		(*ii*). *For the head-quarters and six companies of a battalion.*	…	…	…	…	…	…	The area authorised is— S. ft. (*a*) For liquor bar portion . . 1,700 (*b*) „ library „ . . 1,260 (*c*) „ recreation and refreshment portion . . 4,820 TOTAL . 7,780 This is exclusive of bath-room space.			
		(*a*) Liquor bar portion—										
		Private's room	33	20	10	…	3,995					
		Bar or issue room	10	20	10							
		Beer store	18	20	10							
		Corporal's room	12	20	10							
		Sergeant's quarter { 1 room	12	20*	10 Average							
		Sergeant's quarter { 1 bath-room	6	7	9							
		(*b*) Library portion—										
		Book room	10	20	10	…	2,933					
		Reading room	41	20	10							
		Librarian's quarter { 1 room	12	20*	10 Average							
		Librarian's quarter { 1 bath-room	6	7	9				* If considered desirable, these rooms may be divided into two by longitudinal partition walls.			

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Accommodation authorised for British Troops in the Hills and in Hutted Camps—continued.

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.: Authority.	Detail of Orders, &c.: Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
A Battalion of British Infantry—contd.		(*b*). AUXILIARY BUILDINGS—*contd.*										
	307	INSTITUTE—*contd.*										
		(*ii*). *For the head-quarters and six companies of a battalion*—contd.										
		(*c*) Recreation and refreshment portion—							* If considered desirable, this room may be divided into two by a longitudinal partition wall.			
		Temperance room	33	20	10	...	100,71					
		Billiard room	28	20	10							
		Games "	26	20	10							
		Theatre	63	20	10							
		Refreshment or supper room	63	20	10							
		Refreshment, issue and store rooms	16	20	10							
		Caterer's quarter { 1 room	12	20*	10							
		Caterer's quarter { 1 bath-room	6	7	Average 9							
									NOTE 1.—For recreation buildings the plan of hut approved for hospitals, namely, with broad verandahs, front and rear, may be adopted, but the verandahs should, as a rule, be *enclosed* (see note (X) on type plan No. I, hutted camps series). NOTE 2.—The scale of three-fourths the area allowed in the plains should be adhered to, wherever practicable, in institutes in the hills. Where, on account of the arrangement of existing buildings in regard to cross walls, &c., it is necessary to give larger rooms than those shown in the "details," the total area may, with the sanction of His Excellency the Commander-in-Chief, be increased up to a limit of five-sixths of the area authorised for the plains (Government of India, Military Department, letter No. 2249 M. W. (Accommodation for Troops), dated 31st October 1889).	...	2, figures 3 & 4	Hutted camps.
	308	LINES OF MUSTERED FOLLOWERS	...	...	...	...	...	...	See item 21.			
	309	MAGAZINE.										
A Battalion of British Infantry—contd.		Ammunition room	16	16	16⅛	...	601	...	......	...	60 A to 60 G	B. I.
		Powder room	8	6	16⅛							
		Lobby	7¼	6	16⅛							
		Enclosure wall	...	...	...	...	...	...	......	...	61	B. I.
									See items 22 and 148.			
								P. W. D. letter No. 1601 M. W., dated 14th September 1874.	Magazines in the hills to be the same as authorised for the plains.			
	310	ORDERLY AND COURT-MARTIAL ROOMS.										
		Orderly-room	18	20	10	...	3,128	...	Hill hut type, 9 feet wide verandah in front.			
		Court-martial room	24	20	10							
		Pay office	18	20	10							
		Room for officer on duty	12	20	10							
		Ditto	12	20	10							
		2 bath-rooms, each	6	7	Average 9							
								P. W. D. Cir. No. 76 of 1871.	Accommodation is to be provided on a reduced scale, calculated in the same proportion as the reduced superficial area allowed in barracks at hill stations bears to that allowed in the plains.			
								P. W. D. letter No. 1601 M. W., dated 12th September 1874.	Approves of the following accommodation for a battalion in the hills:— Orderly-room . . . 18 Ft. × 18 Ft. Court-martial room . . 27 × 18 Bath to court-martial room . 8 × 8 Pay office . . . 21 × 18 Room for officer on duty . 15½ × 18 Ditto . 10 × 18 Bath-room for officer on duty . 10 × 8 with verandahs, 8 feet wide, in front and rear. To suit the hill hut type of construction, the sizes of the rooms have been altered as shown in "details" and the width of verandah increased to 9 feet, only a front verandah being given. **See remarks against item 24.**			
	311	PARADE-GROUND	...	...	...	...	...	......	See item 25.			
	312	PAY OFFICE	...	...	...	...	...	......	Included in item 310.			
	313	PLUNGE-BATHS	...	...	...	...	...	P. W. D. letter No. 1601 M. W., dated 14th September 1874.	Rules that plunge-baths are not necessary at hill stations.			

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Area of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.				
								Authority.	Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No	Series.
		(*b*) AUXILIARY BUILDINGS—*contd.*										
	314	QUARTER-GUARD AND CELLS.										
		Guard-room for 18 men	54	20	10	60	3,790	......	Hill hut type, with a verandah, 9′ wide, along the front of the building. * If considered desirable, this room may be divided into two by a longitudinal partition wall.	...	See also 64A to 64D	B. I.
		Lock-up for 14 men	42	20	10	60						
		Quarters for provost sergeant—										
		1 room	12	20*	10 Average	282						
		1 bath-room	6	7	9	...						
								P. W. D. letter No. 1601 M. W., dated 14th September 1874.	Verandahs in front of guard-room and lock-up and at one end of the former are to be 7½′ wide. The verandah at the back of the guard-room and lock-up is to be 5′ wide. In order to suit the hill hut type of construction, a 9′ wide verandah is given to the front of the building and the remaining verandahs omitted.			
		10 cells, each	10	10	13	100	2,457	......	Hill hut type of construction is not suitable in this case.	...	64A to 64D	B. I.
								P. W. D. Cir. No. 22 of 1871.	Cells to be 10′×10′ with a height of 13′			
								P. W. D. letter No. 1601 M. W., dated 14th September 1874.	Verandah along front of cells is to be 7½′ wide. A verandah at the back of the cells seems unnecessary. Means should be provided for warming the cells in winter. See item 28.			
	315	RATION SHEDS	...	...	...	...	...	P. W. D. Cir. No. 67 of 1874.	Ration sheds for British troops are only allowable in exceptional instances, and when they are particularly required applications for them should be submitted for the orders of Government.			
								P. W. D. letter No. 940 of 1879.	The Government of India, while admitting the necessity for a covered place for issuing rations at all hill stations, consider that it will probably seldom be necessary to build a shed specially for the purpose, as some existing building can usually be made use of.			

Area of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Authority.	Particulars.	Standard plan No.	Type plan No.	Series.
	316	REAR GUARDS	...	...	...	...	...	......	See item 30.			
	317	REGIMENTAL (OR QUARTERMASTER'S) STORE.	...	...	...	...	...	......	See item 31.			
		Store room { 1 room	42	20	10	...	2,902	......	Hill hut type; no verandahs.			
		Store room { 1 ,,	36	20	10	...						
		Quartermaster's office	10	20	10	...						
		Tailor's workshop	14	20	10	...						
		Dry store	12	20	10	...						
								P. W. D. letter No. 1601 M. W., dated 14th September 1874.	Lays down the following accommodation to be provided for a battalion in the hills:— Store room . . . 75′×20′ Quartermaster's office . 10′×20′ Tailor's workshop . 14′×20′ No verandahs to be given.			
	318	REGIMENTAL WORKSHOPS, VOLUNTARY.										
		Carpenter's shop	37	20	10	...	3,554	......	Hill hut type, with a verandah, 6′ wide, in front of building.			
		Painter's ,,	16	20	10	...						
		Tinsmith's ,,	10	20	10	...						
		Shoemaker's ,,	16	20	10	...						
		Book-binder's ,,	12	9½	10	...						
		Watch-maker's ,,	12	9½	10	...						
		Printer's ,,	18	20	10	...						
								P. W. D. letter No. 1601 M. W., dated 14th September 1874.	Lays down accommodation to be provided for a battalion of British infantry in the hills, a verandah, 7½′ wide in the clear, to be given in front only. To suit the hill hut type of construction, the verandah may be made 6′ wide.			
	319	RELIGIOUS READING AND PRAYER ROOM.	...	...	...	...	...	......	See remarks against item 33.			
		1 main room	24	20	10	...	1,064	......	Hill hut type	44	...	
		1 side room	12	20	10 Average	...						
		Porch	10	10	9	...						
								P. W. D. Cir. No. 45 of 1871.	Lays down the following accommodation for a battalion of British infantry in the hills:— 1 main room . . . 30′×14′ 2 side rooms, each . . 14′×10′ 1 porch . . . 10′×10 Building is to be well ventilated.			

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.				
								Authority.	Particulars.	Standard plan.	Type plan.	
										No.	No.	Series.
A Battalion of British Infantry—*contd.*		(*b*) AUXILIARY BUILDINGS—*concld.*	Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.					
	320	RIFLE RANGE	...	...	...	...	...	......	See item 161.			
								Para. 185 of the Indian Appendix to the British Musketry Regulations.	"On hill ranges, there being no level space for the usual description of markers' butts, Bland's butts should always be used."			
								M. D letter No. 369 M. W., dated 23rd April 1883.	Approves a revised standard plan of Bland's markers' butt.			
	321	SCHOOL	...	...	...	...	...	......	See item 35.			
								P. W. D. Cir. No. 34 of 1879.	For the same units of the service, the same space is required for school accommodation in the hills as in the plains. In the case of a depôt or detachment quartered in the hills, the accommodation to be allowed is the same as that which would be allowed in the plains to a detachment of the same strength.			
		Class rooms for 120 men—										
		1 room	60	20	10	...	5,281	......	Hill hut type, with a 9' verandah in front.			
		1 "	54	20	10	...						
		Class room for 64 children—										
		1 room	42	20	10 Average	...						
		Two water rooms, in verandah, each	$7\frac{3}{4}$	8	9	...						
									The authorised accommodation is— 1 class room for 120 men . 92'×24' 1 class room for 64 children . 36'×24' 2 water rooms, each . . 6'×10'			
									See item 296 (iii and iv). If the site will admit of it, the quarters for schoolmaster and schoolmistress should be provided under the same roof as the school.			
									The hat pegs shown in type plan (No. 71B, B. 1. series) should be provided.			
	322	SENTRY BOXES.										
		According to circumstances, each							See items 36 and 207			
A Battalion of British Infantry—*contd.*	323	SERGEANTS' MESS AND RECREATION ROOM.	...	...	...	...	...	......	See item 37.			
		Mess room	40	20	10	...	2,990	......	Hill hut type, with a 9' verandah in front.			
		Recreation room*	24	20	10	...						
		Beer store	10	20	10	...						
		Caterer's room	10	20	10 Average	...						
		Pantry in verandah	$7\frac{3}{4}$	10	9	...			The authorised width of verandah is 7½'; this may be increased to 9' to suit the hill hut type of construction.			
								P. W. D. letter No. 1601 M. W., dated 14th September 1874.	Lays down scale for a battalion in the hills. * In order to allow of a billiard table being used, the length of the recreation room may be increased by 4', the mess room being reduced to 36' in length.			
	324	SKITTLE ALLEY.										
		2 skittle alleys, each	$33\frac{3}{4}$	10	7	...	497 each.	P. W. D. Cir. No. 11 of 1865.	One of these may be converted into a bowling alley,—see item 299.			
								M. D. letter No. 10-83 M. W., dated 31st October 1883.	Approves of revised standard plan for the hills.			

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Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. — Authority.	Detail of Orders, &c. — Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
A Battalion of British Infantry—*contd.*			Feet	Feet.	Feet.	Supl. ft.	Supl. feet.					
		(*c*) SUBSIDIARY BUILDINGS.	...	...	...	...	...	M. D. letter No. 900 M. W., dated 19th September 1883.	In the case of buildings not intended for occupation during the winter, Government do not consider it necessary to provide planking under the sheet-iron roof coverings of servants' quarters and similar subsidiary buildings at hill station. **See item 43.**			
	325	COOK-HOUSES	...	...	...	...	...					
		(*i*). *For the band barrack.*						P. W. D. letter No. 53 M. W., dated 22nd January 1880.	Approves of dimensions given as basis of type plan of cook-house for the hills.			
		1 kitchen 1 cooking place	13 4	12 12	8 18	...	341	...	......	...	119 A 119 B	B. I. modified.
		(*ii*). *For the single men's barracks.*						M. D. letter No. 23-63 M. W. (Accommodation for Troops), dated 12th November 1889.	Government accept, provisionally, a scale of cook-house accommodation for the single men of British infantry in hutted camps.			
		16 half-company cook-houses, each—										
		1 kitchen 1 cooking place	13 4	12 12	8 18	...	341 each	...	......	...	119 A 119 B	B I. modified.
		(*iii*). *For the barracks for married rank and file and married class C sergeants.*	...	...	...	...	...	G. of I., P. W. D., letter No. 218 M. W., dated 4th March 1881.	Cook-houses are not to be provided. Each quarter is to be fitted up with a Fitzwygram pattern cooking stove.			
								Proceedings of a Special Committee assembled at Simla on 7th June 1887.				
								G. of I., M. D., letter No. 1562 M. W. (Accommodation for Troops), dated 1st August 1887.				
		(*iv*). *For the block of quarters for four staff sergeants and three married color sergeants.*	...	...	...	...	...	...	Though the orders quoted above (item 325 (iii) refer only to married sergeants and married rank and file, they have, with the approval of His Excellency the Commander-in-Chief and Government, been extended in some cases so as to apply to the case of regimental warrant officers and staff sergeants. Hence it may be accepted that, as a rule, cook-houses should not be provided for regimental warrant officers and staff sergeants, a cooking range (Fitzwygram pattern) being provided in lieu in each quarter.			
A Battalion of British Infantry—*contd.*		A cook-house for the four staff sergeants— 1 kitchen 4 cooking places, each	$22\frac{1}{4}$ 5	6 $1\frac{1}{2}$	8 16	... ...	... 319	......	......	...	18 B.	B. I. modified.
		(*v*). *For the warrant officers*	...	...	...	...	...	......	See remarks against item 325 (iv).			
		(*a*) For the sergeant-major—										
		1 kitchen 1 cooking place	$7\frac{3}{4}$ $7\frac{3}{4}$	6 $1\frac{1}{2}$	8 16	... ...	117	......	......	...	17	B. I.
		(*b*) Fot the bandmaster—										
		Same as for sergeant-major	...	...	...	...	117	......	......	...	17	B. I.
		(*c*) For the schoolmaster—										
		Same as for sergeant-major	...	...	...	...	117	......	......	...	17	B. I.
		(*d*) For the schoolmistress—										
		Same as for sergeant-major	...	...	...	...	117	......	......	...	17	B. I.
		(*vi*). *For the institute.*										
		1 kitchen 1 coocking chamber	$9\frac{1}{2}$ 4	12 12	8 16	... ...	287	......	No scale has been laid down: it is usual to give a cook-house of the same size as is authorized for the sergeants' mess.	...	67	B. I. modified.
		(*vii*). *For the sergeants' mess.*										
		1 kitchen 1 cooking chamber	$9\frac{1}{2}$ 4	12 12	8 16	... ...	287	......	......	...	67	B. I. modified.
	$325\frac{1}{2}$	FUEL STORE FOR THE INSTITUTE	...	...	...	...	...	......	This can be arranged for in the cook-house for the institute or in a verandah room of the institute building.			
	326	LATRINES	...	...	...	...	...	......	**See item 46.**			
		(*i*). *For the band barrack.* 1 laterine for 5 seats Sweeper's room Dry earth bin	 $13\frac{1}{24}$ 8 5	 $8\frac{5}{6}$ 5 3	 7 7 ...		265	P. W. D. letter No. 53 M. W., dated 22nd January 1880.	Approves of dimensions given as basis of type plan of latrine for the hills.			
								......	......	...	132	B. I. modified.
								M. D. letter No. 2363 M.W. (Accommodation for Troops), dated 12th November 1889.	Government accept, provisionally, a scale of latrine accommodation for the single men of British infantry in hutted camps.			

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Accommodation authorised for British Troops in the Hills and in Hutted Camps—continued.

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.				
								Authority.	Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
		(*c*) SUBSIDIARY BUILDINGS—*contd.*										
	326	LATRINES—*contd.*										
		(*ii*). *For the single men's barracks.*										
		16 latrines, with 5 seats each—										
		Each latrine—										
		Privy	13¼	8⅝	7	...	265 each	......			132	B. I. modified.
		Sweeper's room . .	8	5	7	...						
		Dry earth bin . .	5	3	...	...						
		(*iii*). *For the 5 blocks, containing 6 quarters each, for married rank and file and married class C sergeants.*										
		(*a*) For men—										
		2 latrines each for 3 seats—Each latrine . . .	8	8⅝	7	...	132 each	......	If the blocks are very much scattered, the authorized number of seats may be given in three or more buildings.		7G	B. I. modified.
		(*b*) For women and children .	...	...	...	...	...	......	See item 46 (ii).		7G	B. I. modified.
		2 latrines each for 3 seats .	18½	8⅝	7	...	132 each		If the blocks are very much scattered, the authorised number of seats may be given in three or more buildings.			
		(*iv*). *For the block for 7* staff sergeants and married color sergeants.*										
		1 latrine of 3 seats . .	8 5/12	8⅝	7	...	132	......	* See item 295.		7G	B. I. modified.
		(*v*). *For the sergeant-major.*										
		1 latrine for 1 seat . .	6	4	7	...	62	......	......	...	17	B. I. modified.
		(*vi*). *For the bandmaster.*										
		Same as for the sergeant-major	6	4	7		62				17	B. I. modified.
		(*vii*). *For the schoolmaster.*										
		Same as for the sergeant-major	6	4	7		62	......			17	B. I. modified.
		(*viii*). *For the schoolmistress.*										
		Same as for the sergeant-major	6	4	7		62	......	......	...	17	B. I. modified.
		(*ix*). *For the gymnasium*	...	...	...	...	...	...	See item 46 (iii).			
		(*x*). *For the quarter-guard.*										
		1 latrine with 2 compartments, each for 3 seats, each	8	8⅝	7	...	283	...	......	...	64B	B. I. modified.
		Covered passage for sentry .	9¼	4½	7	...						
		(*xi*). *For the school*	...	...	...	...	...	...	See item 46 (vii).			
		Privy for boys . . .	10½	8⅝	7	...	299	...	......	...	71E	B. I. modified.
		,, for girls . . .	10½	8⅝	7	...						
		Urinary for boys . . .	4½	3⅜	...	...						
		Dry earth shed.	4½	3¾	...	...						
		(*xii*). *For the sergeants' mess.*							......		67	B. I. modified.
		1 latrine for 2 seats . .	5 5/12	8¾	7	...	103	... P. W. D. Cir. No. 74 of 1869.	Authorises provision of a latrine with two seats for every sergeant's mess being given only when the mess happens to be a long way from any of the barrack latrines.			
	327	LAVATORIES	...	...	...	...	...	...	See item 45.			
		(*i*). *For the band barrack.*										
		1 lavatory with a washing room for 10 basins . . .	13¾	14	8	...	385	... M.D. letter No. 2363 M. W. (Accommodation for Troops), dated 12th November 1889.	...... Government accept, provisionally, a scale of lavatory accommodation for the single men of British infantry in hutted camps.	...	138	B. I. modified.
		2 private ablution rooms, each	5½	4⅔	8	...						
		(*ii*). *For the single men's barracks.*										
		16 lavatories, each with—										
		1 washing room for 10 basins .	13¾	14	8	...	385 each.	...	......	...	138	B. I. modified.
		2 private ablution rooms, each .	5½	4⅔	8	...						
		(*iii*). *For the quarter-guard.*										
		1 lavatory of the same size as for a half-company.	...	...	...	...	385	...	......	...	64B	B. I. modified.

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Details of Orders, &c.				
								Authority.	Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
A Battalion of British Infantry—contd.		(c) SUBSIDIARY BUILDINGS—contd.										
	328	URINARIES	...	...	...	...	...	...	See item 47.			
		(i). *For the band barrack.*										
		1 urinary of 2 compartments	6½	5	7	...	33					
		(ii). *For the single men's barracks.* 16 urinaries, each of 2 compartments.	6½	5	7	...	33 each.	M. D. Cir. No. 7 M. W., dated 4th December 1882.	If the barracks are in pairs, single urinaries may be arranged between them with double the number of compartments shewn.			
		(iii). *For the 5 blocks of quarters for married class C sergeants and married rank and file.*										
		1 urinary for each block, each of 1 compartment.	6½	2½	7	...	16 each	Ditto . .	Ditto ditto.			
		(iv). *For the gymnasium.*										
		(a) For officers—										
		1 urinary of 1 compartment .	6½	2½	7	...	16					
		(b) For men—										
		1 urinary of 2 compartments	6½	5	7	...	33					
		(v). *For the institute* . . .	...	...	...	...	...	......	See remarks against item 214 (v).			
		6 compartments in 1 or more blocks as may be found convenient.	6½	15	7	...	98					
		For the quarter-guard.										
A Battalion of British Infantry—concld.		(vii). *For the school.*										
		1 of 2 compartments . .	6½	5	7	...	33	......	This is for the men attending school.			
		(viii). *For the workshops.*										
		1 of 2 compartments . .	6½	5	7	...	33	M. D. Cir. No. 7 M. W., dated 4th December 1882.	Is not to be provided if a latrine or urinary exists conveniently near.			
		(ix). *For the regimental offices, orderly-room, &c.*										
		1 of 1 compartment . .	6½	2½	7	...	16	Ditto . .	Ditto ditto.			
		(x). *For the regimental (or quartermaster's) store.*										
		1 of 1 compartment . .	6½	2½	7	...	16	Ditto . .	Ditto ditto.			

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Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.: Authority.	Detail of Orders, &c.: Particulars.	Standard plan.	Type plan.	
										No.	No.	Series.
A Head-quarters Wing of a British Infantry Battalion.			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.	I. A. Cirs., clause 104 of 1887. Qr. Mr. Genl.'s letter No. 4047B. (Buildings, Barrack), dated 18th November 1885.	The authorised strength of a head-quarters wing of a British infantry battalion is— *Warrant officers.* Sergeant-major . . . . 1 Bandmaster . . . . 1 Schoolmaster . . . . 1 Schoolmistress . . . . 1 —— 4 *Class A sergeants.* Quartermaster sergeant . . 1 —— 1 *Class B sergeants.* Armourer sergeant . . . 1 Paymaster „ . . . 1* Orderly-room „ . . . 1 Band „ . . . 1 (These 5 are staff sergeants.) Color sergeants . . . 4 —— 8 *Class C sergeants.* Company sergeants . . 16 Pioneer sergeant . . 1 —— 17 *Rank and file.* Drummers . . . . 8 Corporals . . . . 20 Privates . . . . 496 —— 524 Total . 554			
								Special I. A. Cirs., dated 15th July 1890.	* Paymaster-sergeants will be gradually absorbed, an additional corporal being added to the establishment of each regiment to assist in pay duties.			
								M. D. letter No. 2164 M.W. (Accommodation for Troops), dated 18th October 1887.	Of the staff sergeants and sergeants (26 men), 9 or 36 per cent. are allowed to marry. Of the rank and file (554 men), 7 or 1·25 per cent. are allowed to marry.			
		(*a*) PRIMARY BUILDINGS	...	...	...	...	...	......	NOTE.—See Proceedings of a Special Committee assembled at Simla on 7th June 1887, and Government of India, Military Department, letter No. 1562 M.W. (Accommodation for Troops), dated 1st August 1887. Fire-places are to be supplied instead of stoves; iron stove pipes may be used above the chimney-breast, if considered suitable by the Inspector-General of Military Works.			

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Authority.	Particulars.	Standard plan No.	Type plan No.	Type plan Series.
A Head-quarters Wing of a British Infantry Battalion—*contd.*	329	BAND BARRACK . . .	...	...	...	...	...	......	See item 292.			
		(*a*) *Type with enclosed verandah.*										
		Same as for a battalion (see item 292).	...	...	...	...	5,417	......	......	...	1 & 2	Hutted camps.
		(*b*) *Type with open verandah.*										
		Same as for a battalion (see item 292).	...	...	...	...	6,013	......	......	...	1 & 2	Ditto.
	330	BARRACKS FOR SINGLE RANK AND FILE.	...	...	...	...	...	......	See item 293. —— Accommodation is required for $\frac{5}{6}$ths of 517=431 single rank and file. Deducting the band (20) and drums (8), this is reduced to (431—28) 403, and the strength in single rank and file of a half-company is $\frac{403}{8}$=50·37, say, 50 men.			
		(*a*) *Type hut with enclosed verandah for 12 men.*										
		Dormitory under *main* roof .	36	20	10	60	1,264	......	......		1	Ditto.
		Day and dining room under *verandah* roof.	36	8½	Average 9	25½						
		(*b*) *Type with open verandah for 12 men.*										
		Dormitory under *main* roof	36	20	10	60	1,519	......	......	...	1	Ditto.
		Day and dining room under *main* roof.	12	20	10	20*			* In the case of type (*b*), dining and day room space is to be given by the addition of bays in prolongation of the dormitory (and with or without a partition between, as may be found desirable) on the scale of two bays for a hut for 12 to 18 men, *i.e.*, 13·3 to 20 square feet per man.			

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Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Detail of Orders, &c. Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet			No.	No.	Series.
		(a) PRIMARY BUILDINGS—*contd.*										
	330	BARRACKS FOR SINGLE RANK AND FILE—*contd.*										
		(i). A half-company hut with enclosed verandah.										
		2 wards, each for 16 men, under *main* roof, each.	48	20	10	60	5,008	......	......	...	1	Hutted camps.
		1 ward for 18 men under *main* roof.	54	20	10	60						
		2 day and dining rooms under *verandah* roof, each.	48	8½	Average 9	25½						
		1 day and dining room under *verandah* roof.	54	8½	Average 9	25½						
		(ii). A half-company hut with open verandah.										
		2 wards, each for 16 men, under *main* roof, each.	48	20	10	60	5.723	......	......	...	1	Ditto.
		1 ward for 18 men under *main* roof.	54	20	10	60						
		Day and dining room under *main* roof, 6 bays.	35	20	10	14·40						
		Quarters for sergeants at the ends of single men's huts.	...	...	...	...	...	Proceedings of a Special Committee assembled at Simla on 7th June 1887. G. of I., M. D., letter No. 1562 M. W. (Accommodation for Troops), dated 1st August 1887.	A sergeant's quarter will be attached to a hut if the number of men is in excess of 18, or one quarter to every two huts for 12 men each. The scale of quarters for sergeants is— Class A sergeants—4 bays each, " B " 3 " " C " 2 " with a bath-room (6′ × 7′) added on at the back of each quarter.			
		(a) A class C quarter, 2 bays, on type with enclosed verandah—										
		1 room*	12	20	10	282	432	......	...... * If considered desirable, this room may be divided into two by a longitudinal partition wall.	...		
		1 bath-room	6	7	Average 9							
		(b) A class C quarter, 2 bays, on type with open verandah—										
		1 room*	20	12	10	282	398	......	......	...	2	Hutted camps.
		1 bath-room	6	7	Average 9							
		(c) A class B quarter, 3 bays, on type with enclosed verandah—										
		1 room*	20	18	10	402	624	......	......	...	2	Ditto.
		1 bath-room	6	7	Average 9							
		(d) A class B quarter, 3 bays, on type with open verandah—										
		1 room*	20	18	10	402	575	......	...... * If considered desirable, these rooms may be divided into two by longitudinal partition walls. Whichever type is selected, the verandah in front of the sergeant's quarter will remain an open one. Excluding the five staff sergeants (who are provided for otherwise), accommodation is required for— 4 class B (color) sergeants, 2 married and 2 single. 17 class C sergeants, 6 married and 11 single. The married sergeants are to be housed in special blocks: the single sergeants are to be provided for in quarters built on at the ends of the single men's barracks. There are 13 single sergeants to be provided for, but a sergeant will probably be accommodated in each of the following buildings:— (i) Institute—the canteen sergeant. (ii) The quarter-guard—the provost sergeant. (iii) The officers' mess—Caterer. It will suffice if— 2 quarters, class B 8 " C are built on at the ends of the single men's huts.	...	2	Ditto.
		1 bath-room	6	7	Average 9							

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A Head-quarters Wing of a British Infantry Battalion—*contd.*

Arm of the service, Department, &c.	Item Number.	Detail.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. — Authority.	Detail of Orders, &c. — Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
		(a) PRIMARY BUILDINGS—*contd.*	Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
	331	BARRACKS FOR MARRIED RANK AND FILE AND FOR MARRIED CLASS C SERGEANTS.	...	...	...	...	...	......	See remarks against item 294. Quarters are required for— 7 married rank and file. 6 „ class C sergeants. Total 13 quarters; and, in addition, spare quarters to extent of 25 per cent. are to be given in order to allow of men with large families being given two units if necessary. Thus the total number of quarters to be provided will be (13+3) 16. Each quarter is to consist of two bays.			
		4 blocks, each containing 4 quarters, each quarter consisting of—										
		1 room*	20	12	10 Average	282	2,141 each.	......	...... * If considered desirable, this room may be divided into two by a longitudinal partition wall.	...	2	Hutted camps.
		1 bath-room added on at back	6	7	9							
	332	BLOCK OF QUARTERS FOR STAFF SERGEANTS AND FOR MARRIED CLASS B SERGEANTS.	...	...	...	...	...	......	The staff sergeants are (see page 168)— 1 Quartermaster sergeant, class A. 1 Armourer sergeant. } class B. * 1 Paymaster sergeant. } class B. 1 Orderly-room sergeant. } class B. 1 Band sergeant. } class B. Of these the band sergeant is provided for in the band barrack. Quarters are also required for two married color sergeants, class B.			
		A block containing— 1 class A quarter, 4 bays. 5 „ B quarter, 3 bays each. The class A quarter consists of—										
		2 rooms* each	20	12	10 Average	322	4,635	Special I. A. Circular dated 15th July 1890.	* Paymaster sergeants will be gradually absorbed, an additional corporal being added to the establishment of each regiment to assist in pay duties.			
		1 bath-room	6	7	9							
		Each class B quarter consists of— 1 room*	20	18	10 Average	402		......	See remarks against item 4. * If considered desirable, this room may be divided into two by a longitudinal partition wall.	...	2	Hutted camps.
		1 bath-room	6	7	9							
	333	QUARTERS FOR WARRANT OFFICERS	...	...					See remarks against item 296, also item 5.			

A Head-quarters Wing of a British Infantry Battalion—*contd.*

Arm of the service, Department, &c.	Item Number.	Detail.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. — Authority.	Detail of Orders, &c. — Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
		(i). *For the sergeant-major.*										
		2 rooms* each	20	12	10 Average	522	1,048	......	......	...	2	Hutted camps.
		1 bath-room	6	7	9							
		(ii). *For the band master.*										
		Same as for the sergeant-major	...	...	...	...	1,048	......	......	...	2	Ditto.
		(iii). *For the schoolmaster.*										
		Same as for the sergeant-major	...	...	...	...	1,048	......	......	...	2	Ditto.
		(iv). *For the schoolmistress.*										
		Same as for the sergeant-major	...	...	...	...	1,048	......	...... *If considered desirable, these rooms may be divided into two by a longitudinal partition wall.	...	2	Ditto.

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.				
								Authority.	Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
		(*b*) AUXILIARY BUILDINGS	...	...	...	...	...	Proceedings of a Special Committee assembled at Simla on 7th June 1887.	"*Auxiliary accommodation.*—The sanctioned floor area will be adhered to as far as possible, the number of units (bays) nearest above the sanctioned area being allotted."			
								G. of I., M. D., letter No. 1562 M. W. (Accommodation for Troops), dated 1st August 1887.	See note about fire-places, page 213.			
	334	ARMOURER'S SHOP	...	...	...	...	...	......	See item 297.			
		Shop room	15	20	10	...	1,000	......	Hill hut type	...	41 A to 41 C	B I.
		Forge room	12	20	10							
		Water and wood store	8¾	10	10							
		Drying room	10	10	10							
		No verandah.						P. W. D. Cir. No. 27 of 1871.	Is to be of the same size as for a full battalion.			
	335	BLACKSMITH'S FORGE AND WORKSHOP, VOLUNTARY.										
		Forge	15	20	10	...	597	......	Hill hut type. See item 298.			
	336	BOWLING ALLEY.										
		Not authorised.										
	337	CRICKET GROUND	...	...	...	...	...	......	See items 10 and 300.			
	338	DRY EARTH STORE.										
		1 shed	...	...	...	...	...	......	See item 11.			
	339	DRY STORE ROOM.							......			
		1 room	15	15	12	...	443	......	See item 12. This is provided for under the same roof as the regimental store rooms,—see item 354.	26	...	...
	340	FIRE-ENGINE SHED	...	...	...	...	...	......	See item 303.			
	341	FIVES COURT	...	...	...	...	...	......	See item 304.			
		Fives court	50	30	25	...	1,932	......	......	...	33 & 34	...
		Dressing room	11½	10	7⅔	...						
		Spectator's gallery	30	10	8	...						
	342	FURNITURE STORE ROOM	...	...	...	...	...	......	See items 15 and 305.			
		One open shed	36	20	...	...	1,113	......	Hill hut type; no verandah.			
		One store room	12	20	...	...						
		Chowkeedars' hut	10	10	...	...	159					
		Barrackmaster's office	...	...	...	...	...					
	343	GYMNASIUM	...	...	...	...	...	......	See items 17 and 306.			
	344	INSTITUTE	...	...	...	...	...	......	...... See items 19 and 307.	...	2, figures 3 & 4.	Hutted camps.
		(*a*) Liquor bar portion—										
		Private's room	25	20	10	...	3,511		The area authorised for a head-quarters wing of a British infantry battalion is— S. ft. (*a*) For liquor bar portion . . 1,460 (*b*) For library " . . 980 (*c*) For recreation and refreshment portion . . 3,580 TOTAL . 6,020			
		Bar or issue room	24	20	10	...						
		Beer store		20	10	...						
		Corporal's room	12	20	10	...						
		Sergeants' quarters { 1 room	12	20*	10	...						
		Sergeants' quarters { 1 bath-room	6	7	Average 9	...						
		(*b*) Library portion—							This is exclusive of bath-room space.			
		Book room	10	20	16	...	2,428					
		Reading room	27	20	10	...						
		Librarian's quarter { 1 room	12	20*	10	...						
		Librarian's quarter { 1 bath-room	6	7	Average 9	...						
		(*c*) Recreation and refreshment portion—										
		Temperance room	25	20	10	...	8,208					
		Billiard room	28	20	10	...						
		Games "	20	20	10	...						
		Theatre†	41	20	10	...						
		Refreshment or supper room†	41	20	10	...						
		Refreshment, issue and store rooms	12	20	10	...						
		Caterer's quarter { 1 room	12	20*	10	...						
		Caterer's quarter { 1 bath-room	6	7	Average 9	...						

* If considered desirable, these rooms may be divided into two by longitudinal partition walls.

† The theatre and supper rooms might be thrown into one.

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Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Detail of Orders, &c. Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet					
		(*b*) AUXILIARY BUILDINGS—*contd.*										
	345	LINES OF MUSTERED FOLLOWERS .	...	...	...	...	...	......	See item 21.			
	346	MAGAZINE	...	...	...	...	...	......	See items 22 and 148.			
		Ammunition room . . .	16	10	16¼	...	451					
		Powder room . . .	8	6	16¼	...						
		Lobby	7¼	6	16¼	...						
		Enclosure wall	...	...	...	...	...	......	......	...	60A to 60G	B. I.
								P. W. D. letter No. 1601 M. W., dated 14th September 1874.	Magazines in the hills are to be the same as authorised for the plains.		61	B. I.
	347	ORDERLY AND COURT-MARTIAL ROOMS.										
		Orderly room	15	20	10	...	2,635	......	Hill hut type; 9' wide verandah in front.			
		Court-martial room . . .	24	20	10							
		Pay office	12	20	10							
		Room for officer on duty . .	18	20	10							
		2 bath-rooms, each . . .	6	7	Average 9							
									NOTE.—No scale has been laid down for a head-quarters wing in the hills. In accordance with Public Works Department Circular No. 76 of 1871, the accommodation proposed is two-thirds of that authorised for a similar unit in the plains,—see item 234. See remarks against items 24 and 310.			
	348	PARADE-GROUND . . .	...	...	...	...	...	......	See item 25.			
	349	PAY OFFICE . . .	...	...	...	...	...	......	Included in item 347.			
	350	PLUNGE-BATH . .							Not authorised, see item 313.			
	351	QUARTER-GUARD AND CELLS .	...	...	...	...	...	...	See items 28 and 314.			
		Guard room for 12 men . .	36	20	10	60	2,815					
		Lock-up for 10 men . .	30	20	10	60						
		Quarters for provost sergeant— 1 room	12	20*	10	282		...	Hill hut type, with a verandah, 9' wide, along the front of the building.		See also 64 A to 64 D	B. I.
		1 bath-room	6	7	Average 9							
									* If considered desirable, this room may be divided into two by a longitudinal partition wall.			
		6 cells, each	10	10	13	100	1,491	M. D. letter No. 876 M. W. of 28th August 1884.	The following accommodation is to be provided:— Guard-room for 12 men. Lock-up for 10 „ Cells for 6 „			
	352	RATION SHEDS . . .	...	...	...	...	...	...	See item 315.			
	353	REAR GUARDS . . .	...	...	...	...	...	...	See item 30.			
	354	REGIMENTAL (OR QUARTERMASTER'S) STORE.	...	...	...	...	...	...	See item 31.			
		Store room	50	20	10	...	2,209	...	Hill hut type; no verandahs.			
		Quartermaster's office . .	10	20	10	...						
		Tailor's workshop . . .	14	20	10	...						
		Dry store	12	20	10	...						
									NOTE.—No scale has been laid down for a half-battalion in the hills. The details given bear same proportion to the area laid down for a full battalion in the hills as the accommodation authorised for the same units in the plains do.			
	355	REGIMENTAL WORKSHOPS, VOLUNTARY.										
		Carpenter's shop	24	20	10	...	2,626	......	Hill hut type, with a verandah, 6' wide, in front of the building. NOTE.—No scale has been laid down for a half-battalion in the hills. In accordance with Public Works Department Circular No. 30 of 1867, it is proposed to provide for a head-quarters wing, two-thirds the accommodation authorised for a full battalion.			
		Painter's „	10	20	10	...						
		Tinsmith's „	10	20	10	...						
		Shoe-maker's „	10	20	10	...						
		Book-binder's „	12	9¼	10	...						
		Watch-maker's „	12	9¼	10	...						
		Printer's „	12	20	10	...						

Accommodation authorised for British Troops in the Hills and in Hutted Camps—continued.

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.				
								Authority.	Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
A Head-quarters Wing of a British Infantry Battalion—*contd.*		(*b*) AUXILIARY BUILDINGS—*concld.*										
	356	RELIGIOUS READING AND PRAYER ROOM.	...	...	...	...	...	......	See remarks against item 33.			
		1 main room	15	20	10	...						
		1 side room	12	20	10	...						
		Porch	10	10	Average 9	... ...	852	......	Hill hut type	44	...	...
								M. D. letter No. 1589 M. W. (Accommodation for Troops), dated 2nd July 1890.	For a half-battalion the main room should be reduced to three-fifths the size allowed for a full battalion.			
	357	RIFLE RANGE	...	...	...	...	...	......	See items 61 and 320.			
	358	SCHOOL	...	...	...	...	...	......	See items 35 and 321.			
		Class rooms for 80 men—										
		1 room	42	20	10	...						
		1 room	36	20	10	...						
		Class room for 36 children . .	30	20	10	...	3,721	......	Hill but type, with a 9′ verandah in front.			
		2 water rooms, each . .	7¾	8	Average 9	... ...						
									The authorised accommodation is— 1 class room for 80 men . . 66′×24′ 1 class room for 36 children . 22′×24′ 2 water rooms, each . . 6′×10′			
	359	SENTRY BOXES.										
		According to circumstances, each	3	3	...	...	...	......	...... See items 36 and 207.	115	...	...
	360	SERGEANTS' MESS AND RECREATION ROOM.	...	...	...	...	...	......	See items 37 and 323.			
		Mess room	24	20	10	...						
		Recreation room	28	20	10	...						
		Beer store	10	20	10	...						
		Caterer's room	10	20	10	...	2,599	......				

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Authority.	Particulars.	Standard plan No.	Type plan No.	Series.
A Head-quarters Wing of a British Infantry Battalion—*contd.*									NOTE.—No scale has been laid down for the head-quarters wing of a British infantry battalion in the hills. The mess room has been reduced to give three-fifths the area authorised for a full battalion. The recreation room cannot be reduced without making it too small for a billiard table.			
									The strength in warrant officers and sergeants of a battalion and a head-quarters wing is 50 and 30, respectively, or as 5 is to 3.			
	361	SKITTLE ALLEY.										
		1 skittle alley	33¾	10	7	...	497					
								M. D. letter No. 1083 M. W. of 31st October 1883.	Approves of a revised standard plan for the hills.			

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Accommodation authorised for British Troops in the Hills and in Hutted Camps—continued.

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Detail of Orders, &c. Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
A Head-quarters Wing of a British Infantry Battalion—*contd.*			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.					
		(*c*) SUBSIDIARY BUILDINGS.	...	...	...	...	...	G. of I., M. D., letter No. 900 M. W., dated 10th September 1883.	In the case of buildings not intended for occupation during the winter, Government do not consider it necessary to provide planking under the sheet-iron roof coverings of servants' quarters and similar subsidiary buildings at hill stations.			
	362	COOK-HOUSES	...	...	...	...	...	......	See item 43.			
		(*i*). *For the band barrack.*										
		1 kitchen . . . . . 1 cooking place	13 4	12 12	8 18	... ...	341	......	......	...	119 A 119 B	B. I. modified.
								M. D. letter No. 2363 M. W. (Accommodation for Troops), dated 12th November 1889.	Government accept, provisionally, a scale of cook-house accommodation for the single men of British infantry in hutted camps.			
		(*ii*). *For the single men's barracks.*										
		8 half-company cook-houses, each— 1 kitchen . . . . . 1 cooking place	 13 4	 12 12	 8 18		341 each.	......	......	...	119 A 119 B	Ditto.
		(*iii*). *For the barracks for married rank and file and married class C sergeants.*	...	...	...	...	...	......	Are not to be provided. Each quarter is to be fitted up with a Fitzwygram pattern cooking stove.			
		(*iv*). *For the block of quarters for 4 staff sergeants and 2 married color sergeants.*							See item 325 (iii).			
		1 cook-house for the 4 staff sergeants— 1 kitchen . . . . . 4 cooking places, each . .	 22½ 5	 6 1½	 8 16		319	......	......	...	18 B	Ditto.
									But see item 325 (iv).			
		(*v*). *For the warrant officers* .	...	...	...	...	...	......	But see item 325 (iv).			
		(*a*) For the sergeant-major—										
		1 kitchen . . . . . 1 cooking place . . .	7¾ 7	6 1½	8 16	... ...	117	......	...			

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Authority.	Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
A Head-quarters Wing of a British Infantry Battalion—*contd.*		(*b*) For the bandmaster—										
		Same as for sergeant-major .	...	...	...	...	117	......	......	...	17	B. I.
		(*c*) For the schoolmaster—										
		Same as for sergeant-major .	...	...	...	...	117	......	......	...	17	B. I.
		(*d*) For the schoolmistress—										
		Same as for sergeant-major .	...	...	...	...	117	......	......	...	17	B. I.
		(*vi*). *For the institute.*										
		1 kitchen . . . . . 1 cooking chamber . .	9½ 4	12 12	8 16	... ...	287	......	......	...	67	B. I. modified.
									No scale has been laid down: it is usual to give a cook-house of the same size as is authorised for the sergeants' mess.			
		(*vii*). *For the sergeants' mess.*										
		1 kitchen . . . . . 1 cooking chamber . .	9½ 4	12 12	8 16	... ...	287	......	......	...	67	Ditto.
	362½	FUEL STORE FOR THE INSTITUTE .	...	...	...	...	...	......	This can be arranged for in the cook-house for the institute or in a verandah room of the institute building.			
	363	LATRINES	...	...	...	...	...	......	See item 46.			
		(*i*). *For the band barrack.*										
		1 latrine for 5 seats . . . Sweeper's room . . . Dry earth bin . . .	13$\frac{1}{24}$ 8 5	8⅚ 5 3	7 7 ...	265	...	......	......	...	132	Ditto.
								M. D. letter No. 2363 M. W. (Accommodation for Troops), dated 12th November 1889.	Government accept, provisionally, a scale of latrine accommodation for the single men of British infantry in hutted camps.			
		(*ii*). *For the single men's barracks.*										
		8 latrines, with 5 seats each— Each latrine— Privy . . . . . Sweeper's room . . . Dry earth bin . . .	 13$\frac{1}{24}$ 8 5	 8⅚ 5 3	 7 7 ...		265 each.	......	......	..	132	Ditto.

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Particulars.	Standard plan. No.	Type plan. No.	Series.
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.					
		(c) SUBSIDIARY BUILDINGS—*contd.*										
	363	LATRINES—*contd.*										
		(iii). For the 4 blocks, each for 4 quarters for married rank and file and for married class C sergeants.										
		(a) For men— 2 latrines, each for 2 seats— Each latrine	$5\frac{5}{12}$	$8\frac{5}{6}$	7	...	103 each.	......	......	...	7G	B I. modified.
									If the blocks are very much scattered, the authorised number of seats may be given in three or more buildings.			
		(b) For women and children	...	...	...	...	...	......	See item 46 (ii).			
		2 latrines, each for 2 seats	$5\frac{5}{12}$	$8\frac{5}{6}$	7	...	103 each.	......	......	...	7G	Ditto.
		(iv). For the block for 4 staff sergeants and 2 married color sergeants.*							If the blocks are very much scattered, the authorised number of seats may be given in three or more buildings.			
		1 latrine of 2 seats	$5\frac{5}{12}$	$8\frac{5}{6}$	7	...	103	......	* See item 332.			
		(v). For the sergeant-major.							......	...	7G	Ditto.
		1 latrine for 1 seat	6	4	7	...	62					
		(vi). For the bandmaster.										
		1 latrine for 1 seat	6	4	7	...	62	......	......	...	17	Ditto.
		(vii). For the schoolmaster.										
		1 latrine for 1 seat	6	4	7	...	62					

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Particulars.	Standard plan. No.	Type plan. No.	Series.
		(viii). For the schoolmistress.										
		1 latrine for 1 seat	6	4	7	...	62	......	......	...	17	B. I. modified.
		(ix). For the gymnasium	...	...	...	...	...	......	See item 46 (iii).			
		(x). For the quarter-guard.										
		1 latrine with 2 compartments, each for 2 seats, each	$5\frac{5}{12}$	$8\frac{5}{6}$	7	...	202	......	......	...	64B	B. I. modified.
		Covered passage for sentry	$6\frac{1}{2}$	$4\frac{1}{2}$	7	...						
		(xi). For the school	...	...	...	...	...	......	See item 46 (vii).			
		Privy for boys	8	$8\frac{5}{6}$	7	...	177	......	......	...	71E	Ditto.
		" for girls	8	$8\frac{5}{6}$	7	...						
		Urinary for boys	$4\frac{1}{2}$	$3\frac{5}{6}$	...	...						
		Dry earth shed	$4\frac{1}{2}$	$3\frac{3}{5}$	...	...						
		(xii). For the sergeants' mess.										
		1 latrine for 2 seats	$5\frac{5}{12}$	$8\frac{5}{6}$	7	...	103	......	......	...	67	Ditto.
								P. W. D. Cir. No. 74 of 1869.	Authorises provision of a latrine, with two seats, for every sergeant's mess being given only when the mess happens to be a long way from any of the barrack latrines.			
	364	LAVATORIES	...	...	...	...	...	...	See item 45.			
		(i). For the band barrack.										
		1 lavatory with a washing room for 10 basins	$13\frac{3}{4}$	14	8	...	385	...	......	...	138	Ditto.
		2 private ablution rooms, each	$5\frac{1}{2}$	$4\frac{2}{3}$	8	...						
								M. D. letter No. 2363 M. W. (Accommodation for Troops), dated 12th November 1889.	Government accept, provisionally, a scale of lavatory accommodation for single men of British infantry in hutted camps.			
		(ii). For the single men's barracks.										
		8 lavatories, each with a washing room for 10 basins	$13\frac{3}{4}$	14	8	...	385 each.	...	......	...	138	Ditto.
		2 private ablution rooms, each	$5\frac{1}{2}$	$4\frac{2}{3}$	8	...						

Accommodation authorised for British Troops in the Hls and in Hutted Camps—continued.

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.		Standard plan.	Type plan.	
								Authority.	Particulars.			
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
A Head-quarters Wing of a British Infantry Battalion—*contd.*		(*c*) SUBSIDIARY PUILDINGS—*contd.*										
	364	LAVATORIES—*contd.*										
		(*iii*). *For the quarter-guard.*										
		1 lavatory with a washing room for 8 basins . .	11	14	8	...	316	...		...	64B	B. I. modified.
		2 private ablution rooms, each	5½	4¾	8	...						
	365	URINARIES	...	...	...	...	...	...	See item 47.			
		(*i*). *For the band barrack.*										
		1 urinary of 2 compartments	6½	5	7	...	33					
		(*ii*). *For the single men's barracks.*										
		8 urinaries, each of 2 compartments . . .	6½	5	7	...	33 each.	M. D. Cir. No. 7 M. W., dated 4th December 1882.	If the barracks are in pairs, single urinaries may be arranged between them with double the number of compartments shown.			
		(*iii*). *For the 4 blocks of quarters for married rank and file and married class C sergeants.*										
		1 urinary of 1 compartment for each block . . .	6½	2½	7	...	15 each.	Ditto ditto	Ditto ditto ditto.			
		(*iv*). *For the gymnasium.*										
		(*a*) For officers— 1 urinary of 1 compartment .	6½	2½	7	...	16					
		(*b*) For men— 1 urinary of 1 compartment .	6½	2½	7	...	16					
		(*v*). *For the institute* . . .	...						See remarks against item 253 (v).			
		3 compartments in one or										

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Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Authority.	Particulars.	Standard plan No.	Type plan No.	Series.
A Head-quarters Wing of a British Infantry Battalion—*contd.*		more blocks as may be found convenient . .	6½	7½	7	...	49					
		(*vi*). *For the quarter-guard.*										
		1 urinary of 2 compartments	6½	5	7	...	33					
		(*vii*). *For the school.*										
		1 urinary of 2 compartments	6½	5	7	...	33	...	This is for the men attending school.			
		(*viii*). *For the workshops.*										
		1 urinary of 1 compartment .	6½	2½	7	...	16	M. D. Cir. No. 7 M. W., dated 4th December 1882.	Not to be provided if a latrine or urinary exists conveniently near.			
		(*ix*). *For the regimental offices, orderly-room, &c.*										
		1 urinary of 1 compartment .	6½	2½	7	...	16					
		(*x*). *For the regimental or quartermaster's store.*										
		1 urinary of 1 compartment .	6½	2½	7	...	16					

Accommodation authorised for British Troops in the Hills and in Hutted Camps—continued.

Area of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.		Standard plan.	Type plan.	
								Authority.	Particulars.	No.	No.	Series.
			Feet.	Feet.	Feet.	Supl. ft	Supl. feet.					
A detached Wing of a British Infantry Battalion.								I. A. Cirs. of 1887, clause 101. Qr. Mr. Genl.'s letter No. 4947 B. (Buildings, Barrack), dated 18th November 1885.	The authorized strength of a detached wing of a British infantry battalion is— *Class B sergeants.* Color sergeants . . 4 — 4 *Class C sergeants.* Company sergeants . . 16 — 16 *Rank and file.* Drummers . . . 8 Corporals . . . 20 Privates . . . 384 — 412 Total 432			
		(a) PRIMARY BUILDINGS .	...	...	...	...	...	M. D. letter No. 2164 M. W. (Accommodation for Troops), dated 18th October 1887.	Of the sergeants, 36 per cent. or 7 are allowed to marry. Of the rank and file, 1·25 per cent. or 5 are allowed to marry. Note.—See Proceedings of a Special Committee assembled at Simla on 7th June 1887, and Government of India, Military Department, letter No. 1562 M. W. (Accommodation for Troops), dated 1st August 1887. Fire-places are to be supplied instead of stoves; iron stove pipes may be used above the chimney-breast, if considered suitable by the Inspector-General of Military Works.			
	366	Barracks for single rank and file.	...	...	...	...	...	......	See item 29. Accommodation is required for five-sixths of 407 =339 single rank and file. The strength of a half-company will be $\frac{339}{8}$=42·37, say 42 men.			

Area of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Authority.	Particulars.	Standard plan No.	Type plan No.	Type plan Series.
A detached Wing of a British Infantry Battalion—*contd.*		*(a) Type hut with enclosed verandah for 12 men.*										
		Dormitory under *main* roof .	36	20	10	60	1,264	......	......	...	1	Hutted camps.
		Day and dining room under *verandah* roof.	36	8½	Average 9	25½						
		(b) Type with open verandah for 12 men.										
		Dormitory under *main* roof .	36	20	10	60	1,519		...... * In the case of type (b), dining and day-room space is to be given by the addition of bays in prolongation of the dormitory (and with or without a partition between, as may be found desirable) on the scale of two bays for a hut for 12 to 18 men, i. e., 13·3 to 20 square feet per man.	...	1	Ditto.
		Day and dining room under *main* roof.	12	20	10	20*						
		(i). A half-company hut with enclosed verandah.										
		3 wards, each for 14 men, under *main* roof, each . .	42	20	10	60	4,240	......	......	...	1	Ditto.
		3 day and dining rooms under *verandah* roof, each . .	42	8½	Average 9	25½						
		(ii). A half-company hut with open verandah.										
		3 wards, each for 14 men, under *main* roof, each . .	42	20	10	60	4,838	......	......	...	1	Ditto.
		A day and dining room under *main* roof, 5 bays . .	30	20	10	14·28						
		Quarters for sergeants at the end of single men's huts.	...	...	...	...	...	Proceedings of a Special Committee assembled at Simla on 7th June 1887. G. of I., M. D., letter No. 1562 M. W. (Accommodation for Troops), dated 1st August 1887.	A sergeant's quarter will be attached to a hut if the number of men is in excess of 18, or one quarter to every two huts for 12 men each. The scale of quarters for sergeants is— Class A sergeants, 4 bays each, " B " 3 " " C " 2 " with a bath-room (6'×7') added on at the back of each quarter.			
		(a) A class C quarter, 2 bays, on type with enclosed verandah—										
		1 room	12	20*	10	282	432	......	......	...	2	Ditto.
		1 bath-room . . .	6	7	Average 9							

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A detached Wing of a British Infantry Battalion—*contd.*

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Details of Orders, &c.		Standard Plan.	Type plan.	
								Authority.	Particulars.	No.	No.	Series.
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.					
		(*a*) PRIMARY BUILDINGS—*contd.*										
	366	BARRACKS FOR SINGLE RANK AND FILE—*contd.*										
		Quarters for sergeants at the end of single men's huts—contd.										
		(*b*) A class C quarter, 2 bays, on type with open verandah—										
		1 room	12	20*	10 Average	282						
		1 bath-room . . .	6	7	9		398	......	......	...	2	Hutted camps.
		(*c*) A class B quarter, 3 bays, on type with enclosed verandah—										
		1 room	18	20*	10 Average	402						
		1 bath-room . . .	6	7	9		624	......	......	...	2	Ditto.
		(*d*) A class B quarter, 3 bays, on type with open verandah—										
		1 room	18	20*	10 Average	402						
		1 bath-room . . .	6	7	9		575	......	...... * If considered desirable, these rooms may be divided into two by longitudinal partition walls. Whichever type is selected, the verandah in front of the sergeant's quarter will remain an open one. Accommodation is required for— 4 color (class B) sergeants, 2 married and 2 single. 16 class C sergeants, 5 married and 11 single. The married sergeants are to be housed in special blocks; the single sergeants are to be provided for in quarters built on at the ends of the single men's barracks.	...	2	Ditto.
	367	BARRACKS FOR MARRIED RANK AND FILE AND FOR MARRIED CLASS C SERGEANTS	...	...	...	...	...	......	See remarks against item 294. Quarters are required for— 5 married rank and file. 5 „ class C sergeants. Total 10 quarters; and, in addition, spare quarters to the extent of 25 per cent. are to be given in order to allow of men with large families being given two units if necessary. Thus the total number of quarters to be provided will be (10 + 2·5, say) 13. Each quarter is to consist of two bays.			
		(*a*) Two blocks, each containing 4 quarters, each quarter consisting of—										
		1 room	12	20*	10 Average	282						
		1 bath-room (added on at back)	6	7	9		2,141 each.	......	......	...	2	Hutted camps.
		(*b*) One block containing 5 quarters, each quarter consisting of—										
		1 room	12	20*	10 Average	282						
		1 bath room (added on at back)	6	7	9		2,662	......	...... *If considered desirable, these rooms may be divided into two by longitudinal partition walls.	...	2	Ditto.
	368	BLOCK OF QUARTERS FOR 2 MARRIED COLOR SERGEANTS, CLASS B.										
		Each quarter consisting of—										
		1 room	18	20*	10 Average	402						
		1 bath-room	6	7			1,506	......	...... *If considered desirable, this room may be divided into two by a longitudinal partition wall.	...	616/94 1	Ditto.

Accommodation authorised for British Troops in the Hills and in Hutted Camps—continued.

Area of the service, Department, &c.	Item Number.	Details.	Length. Feet.	Breadth. Feet.	Height. Feet.	Floor area per man. Supl. ft.	Plinth area of building. Supl. feet.	Detail of Orders, &c. Authority.	Detail of Orders, &c. Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
A detached Wing of a British Infantry Battalion—*contd.*		(*b*) AUXILIARY BUILDINGS	...	...	...	...	...	Proceedings of a Special Committee assembled at Simla on 7th June 1887. M. D. letter No. 1362 M. W. (Accommodation for Troops), dated 1st August 1887.	"*Auxiliary accommodation.*—The sanctioned floor area will be adhered to as far as possible, the number of units (bays) nearest above the sanctioned area being allotted." See note about fire-places, page 213.			
	369	ARMOURER'S SHOP	...	...	...	...	...	......	See item 297.			
		Shop room	15	20	10	...	1,000	......	Hill hut type	...	41A to 41 C	B. I.
		Forge	12	20	10	...						
		Water and wood store	8½	10	10	...						
		Dry room	10	10	10	...						
		No verandah.										
	370	BLACKSMITH'S FORGE AND WORKSHOP, VOLUNTARY.						P. W. D. Cir. No. 27 of 1871.	Is to be of the same size as for a full battalion.			
		Forge	15	20	10	...	597	......	Hill hut type. See item 298.			
	371	BOWLING ALLEY. Not authorized.										
	372	CRICKET GROUND	...	...	...	...	...	......	See items 10 and 300.			
	373	DRY EARTH STORE. 1 shed	...	...	...	...	...	......	See item 11.			
	374	DRY STORE ROOM. 1 room	15	15	12	...		......	See item 12. This is provided for under the same roof as the regimental store rooms,—see item 389.	26		
	375	FIRE-ENGINE SHED Not required										
A detached Wing of a British Infantry Battalion—*contd.*	376	FIVES COURT	...	...	...	...	...	...	See item 304.			
		Fives court	50	30	25	...	1,932	...	...	33 & 34	...	...
		Dressing room	11½	10	7⅜	...						
		Spectators' gallery	30	10	8	...						
	377	FURNITURE STORE ROOM	...	...	...	...	...	...	See items 15 and 305.			
		1 open shed	36	20	...	...	1,113	...	Hill hut type; no verandahs.			
		1 store room	12	20	...			...				
		Chowkeedar's hut	10	10	...	...	179	...				
		Barrackmaster's office	...	...	...	...	...	...				
	378	GYMNASIUM	...	...	...	...	...	...	See items 17 and 306.			
	379	INSTITUTE	...	...	...	...	...	...	See items 19 and 307.	...	2, figures 3 & 4.	Hutted camps.
		(*i*). *For a detached wing.*										
		(*a*) Liquor bar portion—										
		Private's room	23	20	10	...	3,380	...	The area authorised for a detached wing of a British infantry battalion is— S. ft. (*a*) For liquor bar portion . . 1,380 (*b*) For library " . . 800 (*c*) For recreation and refreshment portion . . . 2,860 Total . 5,040 This is exclusive of bath-room space.			
		Bar or issue room	22	20	10	...						
		Beer store										
		Corporal's room	12	20	10	...						
		Sergeant's quarter. 1 room	12	20*	10 Average	...						
		Sergeant's quarter. 1 bath-room	6	7	9	...						
		(*b*) Library portion—										
		Book room	10	20	10	...	2,068					
		Reading room	18	20	10	...						
		Librarian's quarter 1 room	12	20*	10 Average	...						
		Librarian's quarter 1 bath-room	6	7	9	...						

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Arm of the service, Department, &c.	Item Number.	Details.	Length	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
A detached Wing of a British Infantry Battalion—*contd.*			Feet.	Feet.	Feet.	Supl. ft	Supl. feet.					
		(*b*) AUXILIARY BUILDINGS—*contd.*										
	379	INSTITUTE—*contd.*										
		(*i*). *For a detached wing*—contd.										
		(*c*) Recreation and refreshment portion—										
		Temperance room	23	20	10		6,691					
		Billiard room	28	20	10							
		Games ,,	20	20	10							
		Theatre Refreshment or supper room	50	20								
		Refreshment, issue and store rooms.	10	20								
		Caterer's quarter { 1 room	12	20*	Average							
		Caterer's quarter { 1 bath-room	6	7	9				* If considered desirable, these rooms may be divided into two by longitudinal partition walls.			
		(*ii*). *For a British infantry detachment of 2 companies.*							The area authorised for a British infantry detachment of 2 companies is— S. ft. (*a*) For liquor bar portion . . 690 (*b*) For library ,, . . . 560 (*c*) For recreation and refreshment portion . . 1,949 TOTAL . . 3,199 This is exclusive of bath-room space.			
		(*a*) Liquor bar portion—										
		Private's room	18	20	10	...	1,763					
		Bar or issue room Beer store	18	10	10	...						
		Corporal's room	18	8¾	10	...						
		(*b*) Library portion—										
		Book room Reading room	16	20	10	...						
		Librarian's quarter { 1 room	12	20*	10	...	1,488					
		Librarian's quarter { 1 bath room	6	7	Average 9							

Arm of the service, Department, &c.	Item Number.	Details.	Length	Breadth.	Height.	Floor area per man.	Plinth area of building.	Authority.	Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
A detached Wing of a British Infantry Battalion—*contd.*		(*c*) Recreation and refreshment portion—										
		Temperance room	18	20	10	...	4,691					
		Billiard room	28	20	10	...						
		Theatre ,, Refreshment or supper room	31	20	10	...						
		Refreshment, issue and store rooms	9 9	10 8¾	10 10	... ...						
		Caterer's quarter { 1 room	12	20*	10	..						
		Caterer's quarter { 1 bath-room	6	7	Average 9	...			* If considered desirable, these rooms may be divided into two by longitudinal partition walls.			
	380	LINES OF MUSTERED FOLLOWERS	...	...	...	...	...		See item 21.			
	381	MAGAZINE	...	...	...	...	...	......	See items 22 and 148.			
		Ammunition room	16	10	16⅛	...	451	......	......	...	60A to 60G	B. I.
		Powder room	8	6	16⅛	...						
		Lobby	7¼	*6	16⅛							
		Enclosure wall	...	...	...	...	...	......	......	...	61	B. I.
								P. W. D. letter No. 1601 M. W., dated 14th September 1874.	Magazines in the hills are to be the same as authorized for the plains.			
	382	ORDERLY AND COURT-MARTIAL ROOMS.										
		Orderly-room	15	20	10	...	2.196					
		Court-martial room	24	20	10	...						
		Rooms for officer on duty	18	20	10	...		...	Hill hut type; 9' wide verandah in front.			
		2 bath-rooms, each	6	7	Average 9	...			NOTE.—No scale has been laid down for a detached wing in the hills. In accordance with Public Works Department Circular No. 76 of 1871, the accommodation proposed is two-thirds of that authorised for a similar unit in the plains,—see item 272. See remarks against items 24 and 310.			
	383	PARADE-GROUND	...	...	...	...	...	...	See item 25.			
	384	PAY OFFICE										
		Not authorised.										
	385	PLUNGE-BATH.										
		Not authorised	...	...	...	...	...	...	See item 313.			

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Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Details of Orders, &c. Authority.	Particulars.	Standard plan. No.	Type plan. No.	Series.
A detached Wing of a British Infantry Battalion—*contd.*		(*b*) AUXILIARY BUILDINGS—*concld.*	Feet.	Feet.	Feet.	Supl. ft.	Supl. feet					
	386	QUARTER-GUARD AND CELLS	...	...	...	...	...	...	See items 28 and 314.			
		Guard-room for 12 men Lock-up for 8 men	36 24	20 20	10 10	60 60	2,113	...	Hill hut type, with a verandah, 9′ wide, along the front of the building.	...	See also 64A to 64D	B. I.
		4 Cells, each	10	10	13	100	1,008	M. D. letter, No. 876 M. W. of 28th August 1884.	The following accommodation is to be provided:— Guard-room for 12 men. Lock-up for 8 men. Cells for 4 men.			
	387	RATION SHEDS	...	...	...	...	...	...	See item 315.			
	388	REAR GUARDS	...	...	...	...	...	...	See item 30.			
	389	REGIMENTAL (OR QUARTERMASTER'S) STORES.	...	...	...	...	...	...	See item 31.			
		Store room Quartermaster's office Tailor's workshop Dry store room	25 10 14 12	20 20 20 20	10 10 10 10	...	1,622	...	Hill hut type; no verandahs. NOTE.—No scale has been laid down for a half-battalion in the hills. The details given bear same proportion to the area laid down for a full battalion in the hills as the accommodation authorised for the same units in the plains do.			
	390	REGIMENTAL WORKSHOPS, VOLUNTARY.										
		Carpenter's shop Painter's „ Tinsmith's „ Shoe-maker's „ Book-binder's „ Watch-maker's „ Printer's „	24 10 10 10 12 12 12	20 20 20 20 9½ 9½ 20	10 10 10 10 10 10 10	... ...	2,626	......	Hill hut type, with a verandah, 6′ wide, in front of the building. NOTE.—No scale has been laid down: it is proposed to give the accommodation allowed for a head-quarters wing,—see item 355.			

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Authority.	Particulars.	Standard plan. No.	Type plan. No.	Series.
A detached Wing of a British Infantry Battalion—*contd.*	391	RELIGIOUS READING AND PRAYER ROOM.	...	...	...	...	...	......	See remarks against item 33.			
		1 main room 1 side „	15 12	20 20	10 10	... ...	852	......	Hill hut type	44	...	
		Porch	10	10	Average	...		M. D. letter No. 1589 M. W. (Accommodation for Troops), dated 2nd July 1890.	For a half-battalion the main room should be reduced to three-fifths the size allowed for a full battalion.			
	392	RIFLE RANGE	...	...	...	...	...	......	See items 161 and 320.			
	393	SCHOOL	...	...	...	...	...	......	See items 35 and 321.			
		Class room for 64 men „ „ for 36 children	60 30	20 20	10 10	... ...	3,088	......	Hill hut type, with a 9′ verandah in front.			
		2 water rooms, each	7¾	8	Average 9	...			The authorised accommodation is— 1 class room for 64 men 48′×24′ „ „ 36 children 22′×24′ 2 water rooms, each 6′×10′			
	394	SENTRY BOXES.										
		According to circumstances, each	3	3	...	...	...	......	See items 36 and 207.			
	395	SERGEANTS' MESS AND RECREATION ROOM.	...	...	...	...	...	......	See items 37 and 323.			
		Mess room Recreation room Beer store Caterer's room	24 28 10 10	20 20 20 20	10 10 10 10	... ...	2,599	......	Hill hut type, with a 9′ verandah in front.			
		Pantry in verandah	7¾	10	Average 9	...			NOTE.—No scale has been laid down for a detached wing in the hills. It is proposed to give the same accommodation as is shown for a head-quarters wing (item 360). If the main rooms are reduced any further, they will become useless for dancing, &c.			
	396	SKITTLE ALLEY.										
		1 skittle alley	33¾	10	7	...	497	M. D. letter No. 1083 M. W., dated 31st October 1883.	Approves of a revised standard plan for the hills.			

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Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Particulars.	Standard plan. No.	Type plan. No.	Series.
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.					
A detached Wing of a British Infantry Battalion—*contd.*		(c) SUBSIDIARY BUILDINGS	...	...	...	...	...	M. D. letter No. 900 M. W., dated 19th September 1883.	In the case of buildings not intended for occupation during the winter, Government do not consider it necessary to provide planking under the sheet-iron roof coverings of servants' quarters and similar subsidiary buildings at hill stations.			
	397	COOK-HOUSES .	...	...	...	...	...	......	See item43.			
		(i). *For the single men's barracks.*										
		Eight half-company cook-houses, each—										
		1 kitchen . . .	13	12	8	...	341 each.	......	......	...	119 A	B. I. modified.
		1 cooking place .	4	12	18	...		M. D. letter No. 2363 M. W. (Accommodation for Troops), dated 12th November 1889.	Government accept, provisionally, a scale of cook-house accommodation for the single men of British infantry in hutted camps.		119 B	
		(ii). *For married rank and file and married class C sergeants.*	...	...	...	...	...	......	Are not to be provided. Each quarter is to be fitted up with a Fitzwygram pattern cooking stove,—see item 325 (iii).			
		(iii). *For 2 married class B (color) sergeants.*	...	...	...	...	...	......	Not to be provided. Each quarter is to be fitted up with a Fitzwygram pattern cooking stove,—see item 325 (iii).			
		(iv). *For the institute.*										
		1 kitchen . . .	9½	12	8	...	287	......	...... No scale has been laid down; it is usual to give a cook-house of the same size as is authorised for the sergeants' mess.	...	67	Ditto.
		1 cooking chamber .	4	12	15	...						
		(v). *For the sergeants' mess.*										
		1 kitchen . . .	9½	12	8	...	287	......	......	...	67	Ditto.
		1 cooking chamber .	4	12	16	...						
	398	FUEL STORE FOR THE INSTITUTE .	...	...	...	...	...	......	This can be arranged for in the cook-house for the institute or in a verandah room of the institute building.			

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Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Authority.	Particulars.	Standard plan. No.	Type plan. No.	Series.
A detached Wing of a British Infantry Battalion—*contd.*	399	LATRINES	...	...	...	...	...	......	See item 46.			
		(i). *For the single mens' barracks* .	...	...	...	...	...	M. D. letter No. 2363 M. W. (Accommodation for Troops), dated 12th November 1889.	Government accept, provisionally, a scale of latrine accommodation for the single men of British infantry in hutted camps.			
		8 latrines, with 5 seats each—										
		Each latrine—										
		Privy	$13\frac{1}{24}$	$8\frac{5}{6}$	7	...	265 each.	......	......	...	132	B. I. modified.
		Sweeper's room . . .	8	5	7	...						
		Dry earth bin . . .	5	3	...	...						
		(ii). *For the 3 blocks containing 13 quarters for married rank and file and married class C sergeants.*										
		(a) For men—										
		2 latrines, each for 2 seats—										
		Each latrine . . .	$5\frac{5}{12}$	$8\frac{5}{6}$	7	...	103 each.	......	...... If the blocks are very much scattered, the authorised number of seats may be given in three or more buildings.	...	7G	Ditto.
		(b). For women and children .	...	...	...	...	...		See item 46 (ii).			
		2 latrines, each for 2 seats .	$5\frac{5}{12}$	$8\frac{5}{6}$	7	...	103 each.	...	...... If the blocks are very much scattered, the authorised number of seats may be given in three or more buildings.	...	7G.	Ditto.
		(iii). *For the block for 2 class B sergeants.*							......	...	17	Ditto.
		1 latrine for 1 seat . .	6	4	7	...	62	...	See item 46 (iii).			
		(iv). *For the gymnasium* . .	...	...	...	...	...	...				
		(v). *For the quarter-guard.*										
		1 latrine with 2 compartments, each for 2 seats, each . .	$5\frac{5}{12}$	$8\frac{5}{6}$	7	...	202	...	......	...	64B	Ditto.
		Covered passage for sentry .	$6\frac{1}{2}$	$4\frac{1}{2}$	7	...			See item 46 (vii).			
		(vi). *For the school* . . .	...	...	...	...	...	...				
		(a) For a detached wing—										
		Privy for boys . .	8	$8\frac{5}{6}$	7	...	177	...	......	...	71E	Ditt
		" for girls . . .	8	$8\frac{5}{6}$	7	...						
		Urinary for boys . .	$4\frac{1}{2}$	$3\frac{3}{8}$	...	...						
		Dry earth shed . .	$4\frac{1}{2}$	$3\frac{3}{8}$	...	...						

Accommodation authorised for British Troops in the Hills and in Hutted Camp—continued.

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.		Standard plan.	Type plan.	
								Authority.	Particulars.			
			Feet.	Feet.	Feet.	Sup. ft.	Sup. feet.			No.	No.	Series.
		(c) SUBSIDIARY BUILDINGS—*contd.*										
	399	LATRINES—*contd.*										
		(vi). *For the school*—contd.										
		(b) For two or three companies—										
		Privy for boys . . .	$5\frac{5}{12}$	$8\frac{5}{8}$	7	...	135	...	......	...	71E	B. I. modified.
		" for girls . . .	$5\frac{5}{12}$	$8\frac{5}{8}$	7	...						
		Urinary for boys . .	$4\frac{1}{2}$	$3\frac{3}{8}$	...	...						
		Dry earth shed . .	$4\frac{1}{2}$	$3\frac{3}{8}$	...	...						
		(vii). *For sergeants' mess.*										
		1 latrine for 2 seats . .	$5\frac{5}{12}$	$8\frac{5}{8}$	7	...	103	... P. W. D. Cir. No. 74 of 1869.	...... Authorises the provision of a latrine, with two seats, for every sergeant's mess being given *only* when the mess happens to be a long way from any of the barrack latrines.	...	67	Ditto.
	400	LAVATORIES	...	...	...	...	...	...	See item 45.			
		(i). *For the single men's barracks.*										
		8 lavatories, each with—										
		1 washing room for 10 basins	$13\frac{3}{4}$	14	8	...	385 each.	... M.D. letter No. 2363 M.W.(Accommodation for Troops), dated 12th November 1889.	...... Government accept, provisionally, a scale of lavatory accommodation for single men of British infantry in hutted camps.	...	138	Ditto.
		2 private ablution rooms, each	$5\frac{1}{4}$	$4\frac{3}{8}$	8	...						
		(ii). *For the quarter-guard.*						...	......			
		A lavatory with—										
		1 washing room for 8 basins	11	14	8	...					64B.	
		2 private ablution rooms, each . . .	$5\frac{1}{4}$	$4\frac{3}{8}$	8	...						
		URINARIES	...	...	...	...	...	......	See item 47.			
		(i). *For the single men's barracks.*										
		8 urinaries, each of 2 compartments	$6\frac{1}{2}$	5	7	...	33 each	M. D. Cir. No. 7 M. W., dated 4th December 1882.	If the barracks are in pairs, single urinaries may be arranged between them with double the number of compartments shewn.			
		(ii). *For the 3 blocks of quarters for married rank and file and married class C sergeants.*										
		1 urinary of 1 compartment for each block	$6\frac{1}{2}$	$2\frac{1}{2}$	7	...	16 each	Ditto	Ditto ditto.			
		(iii). *For the gymnasium.*										
		(a) *For officers*—										
		1 urinary of 1 compartment .	$6\frac{1}{2}$	$2\frac{1}{2}$	7	...	16					
		(b) *For men*—										
		1 urinary of 1 compartment .	$6\frac{1}{2}$	$2\frac{1}{2}$	7	...	16					
		(iv). *For the institute* . . .	...	...	...	...	...	......	See remarks against item 291 (iv).			
		3 compartments in one or more blocks as may be found convenient	$6\frac{1}{2}$	$7\frac{1}{2}$	7	...	49					
		(v). *For the quarter-guard.*										
		1 urinary of 2 compartments. .	$6\frac{1}{2}$	5	7	...	33					
		(vi). *For the school.* .										
		1 urinary of 2 compartments .	$6\frac{1}{2}$	5	7	...	33	... ...	This is for the men attending school.			
		(vii). *For the workshops.* .										
		1 urinary of 1 compartment .	$6\frac{1}{2}$	$2\frac{1}{2}$	7	...	16	M. D. Cir. No. 7 M. W., dated 4th December 1882.	Not to be provided if a latrine or urinary exists conveniently near.			
		(viii). *For the regimental offices, orderly-room, &c.*										
		1 urinary of 1 compartment .	$6\frac{1}{2}$	$2\frac{1}{2}$	7	...	16					
		(ix). *For the regimental or quartermaster's store.*										
		1 urinary of 1 compartment .	$6\frac{1}{2}$	$2\frac{1}{2}$	7	...	16					

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Arms of the service, Department, &c.	Item Number.	Details.		Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Detail of Orders, &c. Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
			Feet.	Feet.	Feet.	Supl. ft	Sup. feet.					
A Battery of British Mountain Artillery.								Clause 170 of I. A. Cirs. for 1883.	The authorised strength of a British mountain battery is— *Class B sergeants.* Staff sergeants. { Battery sergeant-major . 1 „ quartermaster sergeant 1 — 2 *Class C sergeants.* Farrier sergeants . . . . 1 Sergeants . . . . . 6 — 7 *Rank and file.* Corporals . . . . . 6 Bombardiers . . . . . 0 *Collar-maker . . . . . 1 Gunners . . . . . 82 Trumpeters . . . . . 2 — 97 TOTAL . 106			
								M. D. letter No. 2164 M. W. (Accommodation for Troops), dated 18th October 1887.	* If the collar-maker happens to be a sergeant (see pages 1 and 2), he should be provided for in one of the spare family quarters. Of the staff sergeants and sergeants—9 men, 56 per cent. or 5 men are allowed to marry. Of the rank and file—97 men, 4 per cent. or 4 men are allowed to marry.			
		(a) PRIMARY BUILDINGS	......	...	...	...	...	Proceedings of a Special Committee assembled at Simla on 7th June 1887 and M. D. letter No. 1562 M. W. (Accommodation for Troops), dated 1st August 1887.	Fire-places are to be supplied instead of stoves. Iron stove pipes may be used above the chimney-breast if considered suitable by the Inspector-General of Military Works.			
	402	BARRACKS FOR SINGLE RANK AND FILE	...	...	...	...	...	......	See remarks against item 293. Accommodation is required for ⅚ths of 93=78 single rank and file.			
A Battery of British Mountain Artillery—*contd.*		Three divisional barracks, each for—							The men of each division (there are three divisions in the battery) should be hutted separately, if possible, *i.e.*, men of different divisions should not be placed under the same roof. The strength to be provided for a division is $\frac{78}{3}$ = 26 single rank and file.			
		1 sergeant, class C . . 26 single rank and file . .										
		Each barrack will contain—										
		(a) *On type with enclosed verandah.*										
		1 ward for 14 men under *main* roof	42	20	10	60	3,157 each.	......	......	...	1 and 2	Hutted camps.
		1 ward for 12 men under *main* roof	36	20	10	60						
		1 day and dining room under *verandah* roof . .	42	8½	Average 9	25½						
		1 day and dining room under *verandah* roof . .	36	8½	Average 9	25½						
		The quarters for the sergeant will consist of—										
		1 room	12	20*	10	282						
		1 bath-room, added on at back	6	7	Average 9							
		(b) *On type with open verandah.*										
		1 ward for 14 men under *main* roof	42	20	10	60	3,668 each.	......	......	...	1 and 2	Hutted camps.
		1 ward for 12 men under *main* roof	36	20	10	60						
		1 day and dining room under *main* roof, 4 bays .	24	20	10	18·46						

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Accommodation authorised for British Troops in the Hills and in Hutted Camps—continued.

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.: Authority.	Detail of Orders, &c.: Particulars.	Standard plan.	Type plan.	
A Battery of British Mountain Artillery—*contd.*			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
		(*a*) PRIMARY BUILDINGS—*contd.*										
	402	BARRACKS FOR SINGLE RANK AND FILE—*contd.*								—		
		The quarters for the sergeant will consist of—										
		1 room	12	20*	10 Average	282	3,668 each.		*If considered desirable, these rooms may be divided into 2 by longitudinal partition walls.			
	403	1 bath-room, added on at back	6	7	9							
		BARRACKS FOR MARRIED RANK AND FILE AND MARRIED CLASS C SERGEANTS.	...	...	...	...	...	......	See remarks against item 294. Accommodation is required for (see page 200)— 4 married rank and file. 4 do. class C sergeants. Total . 8 quarters. And, in addition, spare quarters to extent of 25 per cent. are to be provided in order to allow of men with large families being given 2 units if necessary. Thus the total number of quarters to be provided will be (8+2) 10. Each quarter is to consist of 2 bays, with a bath-room added on at the back.			
		Two blocks, each containing 5 quarters—										
		Each quarter will consist of—										
		1 room	12	20*	10 Average	282	2,679 each.	......	......	...	2	Hutted camps.
		1 bath room	6	7	9							
									*If considered desirable, this room may be divided into 2 by a longitudinal partition wall.			
	404	A BLOCK OF QUARTERS FOR 2 CLASS B STAFF SERGEANTS.										
		Each quarter will consist of—										
		1 room	18	20*	10 Average	402	1,516					
		1 bath-room, added on at back	6	7	9							

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.: Authority.	Detail of Orders, &c.: Particulars.	Standard plan.	Type plan.	
A Battery of British Mountain Artillery—*contd.*	405	QUARTERS FOR THE DRIVERS' ESTABLISHMENT AND FOR THE NATIVE ARTIFICERS AND FOLLOWERS	...	...	...	...	...	I. A. Cirs., Clause 170 of 1883. I. A. Cirs., Clause 24 of 1884.	The establishment to be provided for is— *Drivers' establishment.* Havildar-major . . . . . 1 Havildars . . . . . 3 Naicks . . . . . 6 Drivers . . . . . 138 Saiutri . . . . . 1 TOTAL . 149 *Native artificers and followers.* Munshi . . . . . 1 Head smith . . . . . 1 Smiths . . . . . 3 Head carpenter . . . . . 1 Carpenters . . . . . 2 Cooks . . . . . 2 Native shoeing-smith . . . . 1 Native saddlers . . . . . 3 Puckallies . . . . . 3 Bhistie . . . . . 1 Sweepers . . . . . 3 Total . 21 *Baggage drivers' establishment.* Jemadar . . . . . 1 Duffadars . . . . . 3 Drivers . . . . . 28 Total . 32 GRAND TOTAL . 202 The mountain battery, stationed in Burma, is allowed in addition— 1 tindal. 6 store lascars. 6 syces.			
		Each married man	8	10	9	80	...	M. D. letter No. 633 M. W. (Accommodation for Troops), dated 24th June 1884.	Government decide that accommodation should be provided at the expense of the State for the native establishments attached to British mountain batteries of artillery. This accommodation is to be constructed and maintained by the Military Works Department. The accommodation is to be of a very inexpensive nature and is not to cost more than R10,000 per battery. Each single man is to receive 45 s. ft. Do. married man is to receive 80 s. ft.			
		Each single man	4½	10	9	45						

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Detail of Orders, &c. Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
A Battery of British Mountain Artillery—*contd.*		(*a*) PRIMARY BUILDINGS—*contd.*	Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.					
								M. D. letter No. 1034 M. W. (Accommodation for Troops), dated 13th July 1886.	The percentage of married men for whom accommodation should be provided is to be reduced so as to admit of the cost of construction being kept within the sanctioned limit of R10,000.			
								M. D. letter No. 31 M. W. (Accommodation for Troops), dated 7th January 1887.	The limit of R10,000 laid down by Government is to include the cost of levelling and clearing sites.			
								M. D. letter No. 2181 D. (Medical Dept.—Regulations), dated 27th May 1889.	Walls should be 9' high.			
								M. D. letter No. 900 M. W. (Accommodation for Troops), dated 19th September 1883.	It is not necessary to provide planking under the sheet-iron roof in the case of such buildings in the hills when they are not intended for occupation in the winter.			
									The hill hut type of construction will probably be found too expensive in this case.			
		(*b*) AUXILIARY BUILDINGS	...	...	...	...	...					
	406	BLACKSMITH'S FORGE AND SHOEING SHED.						Proceedings of a Special Committee assembled at Simla on 7th June 1887, and M. D. letter No. 1562 M. W. (Accommodation for Troops), dated 1st August 1887.	"*Auxiliary accommodation.*—The sanctioned floor area will be adhered to as far as possible, the number of units (bays) nearest above the sanctioned area being allotted."			
		Forge	20	20	10				See remarks about fire-places, page 200.			
		Store	8	20	10							
		Shoeing shed	33	9	Average 9		1,073	......	Hill hut type, with a 9' wide verandah in front.			
								P. W. D. Cr. No. 44 of 1876.	Forwards standard plan	86	...	
									The standard plan shows a verandah (the shoeing shed), 8' wide; to suit the hill hut type of construction a verandah, 9' wide, is provided for.			
								P. W. D. Cir. No. 36 of 1864.	Building to be centrically situated as regards the stables.			
A Battery of British Mountain Artillery—*contd.*								P. W. D. Cir. No. 53 of 1868	Bonnets, flues or other suitable means to be provided for carrying off smoke.			
								P. W. D. letter No. 864 M. W., dated 28th October 1881.	Military Works Department are to provide anvil blocks as fixtures.			
	407	BOILING HOUSE AND GRAM STORE FOR THE VETERINARY HOSPITAL.										
		Boiling house . . .	8	8	8¼		210	......	......			
		Gram store . . .	8	8	8¼							
								P. W. D. Cir. No. 98 of 1866.	To be a detached building constructed near the surgery of the veterinary hospital.	...	20	R. A.
									See item 437.			
	408	BOWLING ALLEY.										
		Not authorised . . .	...	...	...	...		M. D. letter No. 1039 M. W., dated 27th October 1882.	Is not to be provided for a battery of artillery.			
	409	CARPENTER'S AND COLLAR-MAKER'S SHOPS.										
		Carpenter's shop . . .	20	20	10	...	1,463	......	Hill hut type with a 9' verandah in front of the building.			
		Collar-maker's shop . .	20	20	20	...						
								P. W. D Cir. No. 44 of 1876.	Forwards standard plan	85		
	410	CRICKET GROUND . . .	...	...	...	...	...	......	See items 10 and 300.			
	411	DRY EARTH STORE.										
		One shed	10	10	8	...	182	......	NOTE.—No scale laid down. Detail given is what was sanctioned by Government for a British mountain battery at Jullapahar, and is calculated to hold a supply for five months.			
									See item 11.			

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Particulars.	Standard plan.	Type plan.	
A Battery of British Mountain Artillery—*contd.*		(*b*) AUXILIARY BUILDINGS—*contd.*	Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.			No.	No.	Series.
	412	Dry store room	...	...	...	...	...					
		One room	12	12	12	240	...	......	See item 12.			
								......	......			
								P. W. D. letter No. 1601 M. W., dated 14th September 1874.	The accommodation for the hills is to be the same as that sanctioned for the plains.	26		
	413	Fire-engine sheds.										
		Not authorised	...	...	...	...	...		This is provided for under the same roof as the quartermaster's store,—see item 429.			
	414	Fives court.						......	See item 303.			
		Not required	...	...	...	...	...					
	415	Furniture store	...	...	...	...	...	......	See item 304.			
		One open shed	...	...	...	...	...	......	See items 15 and 305.			
		One store room	15	20	10	}	682	......	Hill hut type. No verandahs.			
		Chowkidar's hut	12	20	10							
		Barrackmaster's office	10	10	10	...	179					
			...	...	...	...	...					
	416	Gunshed	48	24	10¼	...	1,963	......	......			
								M. D. letter No. 54 M. W., dated 21st January 188.	Lays down dimensions of gunshed to be provided for a mountain battery. Verandah, 10′ wide (inside), to be given in front, to be not lower than 6′ 8″ [illegible]where. Store room not to be provided. Low wooden frames to be provided for ammunition boxes to rest on—these frames to be moveable. Racks for side arms, entrenching tools, &c., to be fixed to the rear and side walls. Sliding doors to be provided. Small ground ventilators to be given in the walls.	...	24 A and 24 B	R. A.
	417	Gymnasium							See items 17 and 306.			

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Authority.	Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
A Battery of British Mountain Artillery—*contd.*	418	Harness rooms.										
		3 harness rooms, each	35	20	10	...	4,063	......	Hill hut type with a 9′ verandah in front of the building.			
		1 store room	12	20	10	...						
								P. W. D. Cir. No. 44 of 1876.	Forwards standard plan for a mountain battery.	85	...	...
									If the site will admit of it, the harness rooms should be given under the same roof as the carpenter's and collar-maker's shops,—see item 409.			
	419	Institute	...	...	...	...	...	......	See items 19 and 307	...	2, figures 3 and 4	Hutted camps.
		(*a*) *Liquor bar portion.*										
		Private's room	12	20	10	...	1,505	......	The areas authorised for a British mountain battery are— S. ft. (*a*) Liquor bar portion . . 570 (*b*) Library „ . . 500 (*c*) Recreation and refreshment portion . . . . 1,709 Total 2,779			
		Bar or issue room Beer store	18	10	10	...						
		Corporal's room	18	8¾	10	...						
		(*b*) *Library portion.*							This is exclusive of bath-room space.			
		Book room Reading room	13	20	10	...	1,290					
		Librarian's quarters 1 room	12	20*	10	...						
		Librarian's quarters 1 bath-room	6	7	Average 9	...						
		(*c*) *Recreation and refreshment portion.*										
		Temperance room	12	20	10	...	4,107					
		Billiard room	28	20	10	...						
		Theatre „ Refreshment or supper room	25	20	10	...						
		Refreshment, issue and store rooms.	9 9	10 8¾	10 10	... ...						
		Caterer's quarters 1 room	12	20*	10	...			* If considered desirable, these rooms may be divided into two by longitudinal partition walls.			
		Caterer's quarters 1 bath-room	6	7	Average 9	...						
	420	Lines of mustered followers	...	...	...	...	...	......	See item 21.			

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03

Accommodation authorised for British Troops in the Hills and in Hutted Camps—continued.

Arm of the service, Department, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Details of Orders, &c.				
								Authority.	Particulars.	Standard plan.	Type plan.	
										No.	No.	Series.
		(*b*) AUXILIARY BUILDINGS—*contd.*	Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.					
	421	MAGAZINE	...	...	...	...	...	......	See items 22, 148, and 309.			
		A magazine	14	14	14	...	400	......	......	...	60 A to 60 G	B. I.
		Enclosure wall	...	...	...	...	...	......	......	...	61	B. I.
	422	ORDERLY AND COURT-MARTIAL ROOM	...	...	...	...	...	......	See item 24. No scale has been laid down. For a British mountain battery at Jullapahar, Government sanctioned— S. ft. 1 room 18 × 17 } 540 1 ,, 18 × 13 } The same area is allowed in— 1 room 15 × 20 } 540 1 room 12 + 20 }			
		1 room	15	20	10	...	1,040	......	Hill hut type, with a 9' verandah in front of the building.			
		1 ,,	12	20	10	...						
	423	PARADE-GROUND	...	...	...	...	...	......	See item 25			
	424	PAY OFFICE. Not authorised.										
	425	PLUNGE-BATH. Not authorised	...	...	...	...	...	......	See item 313.			
	426	QUARTER-GUARD AND CELLS	...	...	...	...	...	......	See items 28 and 314.			
		Guard-room for 7 men	24	20	10	64 57	1,528		Hill hut type, with a 9' verandah in front of the building.			
		Lock-up for 6 men	18	20	10	60						
		Three cells, each	10	10	13	100	767					

								M. D. letter No. 680 M. W. (Accommodation for Troops), dated 10th May 1886.	"Cells or prisoners' room for the native establishments attached to * * mountain batteries are not authorised."			
	427	RATION SHEDS	...	...	...	...	...	......	See item 315.			
	428	REAR GUARD	...	...	...	...	...	......	See item 30.			
	429	REGIMENTAL (OR QUARTERMASTER'S) STORE	...	...	...	...	...	......	See item 31.			
		1 store room	24	20	10	...	2,491	......	Hill hut type; no verandah.			
		1 ,, ,,	21	20	10	...						
		Tent store	20	20	10	...						
		Quartermasters' office	10	20	10	...						
		Tailor's shop	10	20	10	...						
		Dry store room	10	20	10	...						
								M. D. letter No. 1163 M. W., dated 8th December 1882.	Approves of scale of accommodation for a mountain battery.			
									The authorised accommodation, as shewn in type plan No. 54, R. A. series, is— 2 store rooms, each . . 28' × 16' 1 tent store . . 24' × 10' 1 quartermaster's office . . 20' × 10' 1 tailors' shop . . 16' × 10' And, in addition to above, a dry store room, 12' × 12', is authorised,—see item 412.			
	430	REGIMENTAL WORKSHOPS, VOLUNTARY. Not authorised	...	...	...	...	...	P. W. D. Cir. No. 101 of 1867.	No voluntary workshops are necessary for batteries of artillery, in addition to the regular workshops authorised for that arm of the service.			
	431	RELIGIOUS READING AND PRAYER ROOM	...	...	...	...	...	......	See items 33 and 319.			
		For one battery the length of the main room of the building is to be increased by ¼th, and for each additional battery at the same station by ⅛th.										

Arm of the Service, Department, &c.	Item Number.	Details.					Plinth area of building.	Detail of Orders, &c.				
								Authority.	Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.		Supl. feet.			No.	No.	Series.
		(b) AUXILIARY BUILDINGS—*contd.*										
	432	SCHOOL		...	...	...		......	See items 35 and 321.			
		Class room for 20 men	27	20	10	...	1,723	......	Hill hut type, with a 9' verandah in front of the building. The authorised space is— A class room for 20 men . 22' × 24' " " " 20 children . 18' × 24' Two water rooms, each . 6' × 10'			
		" " " 20 children	24	20	10	Average						
		Two water rooms, each	7½	8	9	...						
	433	SENTRY BOXES				...	...	......	See item 39.			
		Two for each battery, each	3	3	...	...	...					
	434	SERGEANTS' MESS				...	...	......	See items 37 and 323.			
		Mess room	24	20	10	...	1,641		Hill hut type, with a 9' verandah in front.			
		Beer store	11	9½	10	...						
		Store room	10	9½	10	...						
		Caterer's quarters	12	11½	10	...						
		* Pantry	10	7	10	...						
								M. D. letter No. 18 M.W. (Accommodation for Troops), dated 11th January 1882.	"A separate recreation room for the sergeants of a single battery, in addition to the mess room, appears to the Government of India unnecessary."			
								M. D. letter No. 689 M.W. (Accommodation for Troops), dated 1st August 1882.	Government approve a proposed type plan of reading room, library and sergeants' mess for a mountain battery of royal artillery. This plan provides for the sergeants' mess— A mess room . 25' × 18' Pantry . 10' × 7' Beer store . 10' × 7½' Store room . 10' × 7½' Caterer's room . 15' × 10' with a verandah, 7' wide, in front of the building.			
	435	SKITTLE ALLEY.										
		One skittle alley	33½	10	7	...	497					
								M. D. letter No. 1083 M. W., dated 31st October 1883.	Approves a revised standard plan for the hills.			
	436	STABLES.	..	...	...	...	...	I. A. Cirs., Clauses 170 of 1883 and 24 of 1889.	Accommodation is required for— 6 yaboos (ponies). 138 ordnance mules. 76 baggage mules. TOTAL . 220			
		(a) *Two stables, each for 74 mules or ponies.*										
		Each stable to contain—										
		4 compartments, each for 12 mules, each	84	12	7½	...	8,496 each.					
		2 compartments, each for 13 mules, each	91	12	7½	...						
		Central passage	262	5	...	...						
		(b) *One stable for 72 mules or ponies.*										
		6 compartments, each for 12 mules, each	84	12	7½	...	8,272	......	NOTE.—No scale has been laid down. Detail given is what Government sanctioned for a battery of British mountain artillery at Jullapahar.			
		Central passage	255	5	...	...						
								in ... letter No. ... (Accommo... for Troops—European), dated 17th July 1889.	His Excellency the Commander-in-Chief has decided that in the plains stables are not required for the mules of mountain batteries. See item 39.			
	437	VETERINARY HOSPITAL OR MULE INFIRMARY	...	...	...	...	...	......	See item 40.			
		1 compartment with 4 standings	34	13	8	...	2,014		NOTE.—No scale has been laid down. Detail given is what Government sanctioned for a battery of British mountain artillery at Jullapahar. The plan sanctioned by Government shows doors in the outer walls of the standings and loose boxes. * One of these is to be fitted up as a casting shed and should be provided with slinging			
		* 3 loose boxes, each	11½	13	8	...						
		Surgery	12	13	8	...						
		Office	12	13	8	...						
		Central passage	47½	6	...	...						

[illegible]	Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c.				
								Authority.	Particulars.	Standard plan.	Type plan.	
			Feet.	Feet.	Feet.	Supl. ft.	Supl.			No.	No	Series.
		(b) SUBSIDIARY BUILDINGS	...	...	...	...		D. letter No. 900 W. (Accommo- on for Troops), ed 19th Septem- 1883.	In the case of buildings not intended for occupation during the winter, Government do not consider it necessary to provide planking under the sheet-iron roof coverings of servants' quarters and similar subsidiary buildings at hill stations.			
	438	COOK-HOUSES	...		...		...	......	See items 43 and 325.			
		(i). *For the single men's barracks.*										
		Two cook-houses, each same as that authorised for a half-company of British infantry.										
		Each cook-house contains—										
		1 kitchen 1 cooking place	13 4	12 12	8 18	... ...	341 each	... P. W. D. letter No. 53 M. W., dated 22nd January 1880.	...... Approves of dimensions given as basis of type plan of cook-house for the hills.	...	119A 119B	Modified.
		(ii). *For married rank and file and married class C sergeants.*	...	...	...	...	...	......	Not to be given, see item 325 (iii). A Fitzygram pattern cooking range is to be fitted up in each quarter.			
		(iii). *For two class B staff sergeants.*										
		1 kitchen 2 cooking chambers, each	10¾ 5	6 1½	8 16	... ...	178	......	But see item 325 (iv).	...	7B	R. A. mo
		(iv). *For the institute.*										
		1 kitchen 1 cooking chamber	9 9	6 1½	8 16	... ...	141	......	...... No scale has been laid down for institutes: it is usual to give a cook-house of the same size as that allowed for the sergeants' mess.	...	67	B. I. mo
		(v). *For the sergeants' mess.*										
		1 kitchen 1 cooking chamber	9 9	6 1½	8 16	... ...	141	...	...... NOTE.—Detail given is what Government sanctioned for the British mountain battery at Jullapahar.	...	67	Ditto.
	439	COOKING SHEDS FOR THE NATIVE ESTABLISHMENTS	...	...	...	...	...	M. D. letter No. 575 M. W. (Accommodation for Troops, Native), dated 28th February 1890.	Government "prefer not to sanction cooking sheds for mountain batteries in the hills as 'authorised works,' but will be prepared to consider each case on its own merits." It is usual to give the accommodation in sheds, more or less open, each man receiving 9 s. ft. of space.			
	440	FUEL STORE FOR THE INSTITUTE	...	...	...	...	...	......	This can be arranged for in the cook-house for the institute, or in a verandah room of the institute building.			
	441	LATRINES	...	...	...	...	...	......	See item 46.			
		(i). *For the single men's barracks.*						P. W. D. letter No. 53 M. W., dated 22nd January 1880.	Approves of dimensions given as basis of type plan of latrine for the hills.			
		3 latrines with 3 seats each—										
		Each privy	9	8¾	7	...	154 Each.	......	......	...	4	R. A. modified.
		(ii.) *For the 2 blocks of 10 quarters for married rank and file and married class C sergeants.*										
		(a) For the men—										
		1 latrine with 2 seats	$5\frac{5}{12}$	8⅝	7	...	103	......	......	...	7 G	B. I. modified.
		(b) For the women—										
		1 latrine with 3 seats	8	8⅝					See item 46 (ii).		7 G	Ditto.

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Arm of the service, regiment, &c.	Item Number.	Details.	Length.	Breadth.	Height.	Floor area per man.	Plinth area of building.	Detail of Orders, &c. Authority.	Particulars.	Standard plan. No.	Type plan. No.	Type plan. Series.
			Feet.	Feet.	Feet.	Supl. ft.	Supl. feet.					
		(c) SUBSIDIARY BUILDINGS—*contd.*										
	441	LATRINES—*contd.*										
		(iii). For the two staff sergeants.										
		1 latrine with 1 seat	6	4	7	...	62	......	......	...	17	B. I. modified.
		(iv). For the gymnasium	...	...	...	...	...	......	See item 46 (iii)			
		(v). For the quarter-guard.										
		1 latrine of 2 compartments, each with 1 seat, each	$2\frac{5}{8}$	$8\frac{5}{6}$	7	...	134	......	......	...	64 B	Ditto.
		Covered passage for entry	4	$4\frac{1}{2}$	7	...						
		(vi). For the school	...	...	...	...	...	......	See item 46, vii.			
		Privy for boys	$5\frac{5}{12}$	$8\frac{5}{8}$	7	...	125	......	......	...	71 E	Ditto.
		Do. for girls	$5\frac{5}{12}$	$8\frac{5}{8}$	7	...						
		Urinary for boys	$4\frac{1}{8}$	$3\frac{5}{8}$	...	...						
		Dry earth shed	$4\frac{1}{8}$	$3\frac{5}{8}$	...	...						
		(vii). For the sergeants' mess.										
		1 latrine with 2 seats	$5\frac{5}{12}$	$8\frac{5}{8}$	7	...	103	......	See item 46 (viii)	...	67	Ditto.
	442	LAVATORIES	...	...	...	...	...	......	See item 45.			
		(i). For the single men's barracks.										
		3 lavatories, each containing—										
		1 washing room for 6 basins	$8\frac{1}{2}$	14	8	...	227	......	......	...	138	Ditto.
		1 private ablution room	$5\frac{1}{2}$	$4\frac{3}{4}$	8							
								M. D. letter No. 2363 M. W. (Accommodation for Troops), dated 12th November 1889.	Government accept, provisionally, a scale of lavatory accommodation for the single rank and file of a mountain battery.			
		1 lavatory, containing—										
		1 washing room for 4 basins	$5\frac{1}{2}$	14	8	...	182	......	...... No scale has been laid down. The accommodation proposed is in proportion to that authorised for a division of a mountain battery.	...	64 B	Ditto.
		1 private ablution room	$5\frac{1}{2}$	$4\frac{3}{4}$	8							
	443	URINARIES	...	...	...	...	...	......	See item 47.			
		(i). For the single men's barracks. 3 urinaries, each of 2 compartments, each	$6\frac{1}{2}$	5	7	...	33 each	M. D. Cir. No. 7 M. W., dated 4th December 1882.	If the barracks are in pairs, single urinaries may be arranged between them with double the number of compartments shewn.			
		(ii). For the 2 blocks for married rank and file and married class C sergeants. 1 urinary of 1 compartment for each block	$6\frac{1}{2}$	$2\frac{1}{2}$	7	...	16 each	Ditto	Ditto ditto ditto.			
		(iii). For the gymnasium.										
		(a) For officers— 1 urinary for 1 compartment	$6\frac{1}{2}$	$2\frac{1}{2}$	7		16					
		(b) For men— 1 urinary of 1 compartment	[illegible]	[illegible]	[illegible]		[illegible]					
		(iv). For the institute.	...	...	...			......	No scale has been laid down for institutes. Military Department Circular No. 7 M. W., dated 4th December 1882, gives 3 compartments for the liquor bar, library and reading room of a mountain battery, and it is proposed to provide the same number of compartments for the institute.			
		3 compartments in one or more blocks as may be found convenient.	$6\frac{1}{2}$	$7\frac{1}{2}$	7		49					
		(v). For the quarter-guard. 1 urinary of 1 compartment	$6\frac{1}{2}$	$2\frac{1}{2}$	7	...	6					
		(vi). For the school. 1 urinary of 1 compartment	$6\frac{1}{2}$	$2\frac{1}{2}$	7	...	16	......	This is for the men attending school.			
		(vii). For the stables. 1 urinary of 2 compartments	$6\frac{1}{2}$	5	7	...	33	M. D. Cir. No. 7 M. W., dated 4th December 1882.	One of each set of stables.			
		(viii). For the workshops. 1 urinary of 1 compartment	$6\frac{1}{2}$	$2\frac{1}{2}$	7	...	16	Ditto.	Not to be provided if a latrine or urinary exists conveniently near.			
		(ix). Regimental offices, orderly room, &c. 1 urinary of 1 compartment	$6\frac{1}{2}$	$2\frac{1}{2}$	7	...	16	Ditto.	Ditto ditto ditto.			
		(x). Quartermaster's store. 1 urinary of 1 compartment	$6\frac{1}{2}$	$2\frac{1}{2}$			16	Ditto.	Ditto ditto ditto.			

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No. 854
B

Military Works Department.

Simla, 23 February 1891.

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