



SUPPLEMENT  
TO THE  
**NEW ZEALAND GAZETTE**  
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WELLINGTON, THURSDAY, JUNE 14, 1917.

*Making Regulations relating to the Equipment of the New Zealand Military Forces.*

LIVERPOOL, Governor.

IN pursuance and exercise of the powers and authority conferred on me by the Defence Act, 1909, and its amendments, I, Arthur William de Brito Savile, Earl of Liverpool, Governor of the Dominion of New Zealand, do hereby make the following regulations relating to the equipment of the New Zealand Military Forces, and I do hereby declare that the regulations hereby made shall take effect as from the date of publication thereof in the *Gazette*.

SCHEDULE.

**REGULATIONS FOR THE EQUIPMENT OF NEW ZEALAND MILITARY FORCES.**

PART I.—GENERAL REGULATIONS.

SECTION I.—DUTIES OF OFFICERS.

*A. Introductory.*

1. THE following regulations for the equipment of the Forces and for the maintenance of the armaments of works are promulgated for the information and guidance of officers concerned. The proportions of ammunition and stores, materials for repair, tables of duration, and other details of equipment contained therein will be strictly adhered to. No details of equipment for Defence electric light, permanent telegraph, telephone, and signal stations are given, special scales being authorized for each station concerned; but the general procedure as regards demand, supply, and disposal of such equipment will be as herein laid down.

2. In describing stores in Equipment Ledgers, indents, &c., the designation and sections of the Vocabulary of Stores will be strictly followed. Articles not included in the Vocabulary will be headed "Not in Vocabulary" and grouped under the several sections to which, from the nature of the articles or their intended use, they would properly apply. They will also be described by drawings or otherwise, where requisite, in order to obviate the necessity of making further reference. In giving dimensions, feet and inches are always to be expressed in words.

3. All communications connected with the supply of stores or equipment, whether by or in excess of regulations, will be addressed to the D. of E. & O.S., who will, if necessary, take the orders of the Q.M.G. on the subject.

*B. Duties of District Commanders.*

4. Officers Commanding Districts will keep themselves informed as to the condition of armaments and equipments, and will satisfy themselves that the articles which would be issued to or taken into use by units on mobilization are at all times maintained in a serviceable and complete condition.

5. They are responsible for the custody and maintenance of the mobilization equipment which is held in their commands, both in regimental and Ordnance charge, and should take such steps as will ensure that where such mobilization equipment is incomplete the officer in immediate charge shall be able at any time to furnish a satisfactory and explicit reason.

Equipment stored for mobilization will be inspected approximately every six months alternately by the D. of E. & O.S. and by the Ordnance Officer.

6. The officer commanding a district or command will be responsible that equipment of all kinds is issued to the troops for service purposes in accordance with the authorized proportions, but in cases in which it is found necessary that these should be exceeded he will obtain authority in writing to provide for the requirements of the service according to circumstances.

7. All indents, demands, &c., on Ordnance Department will be dealt with by the A.Q.M.G., who will, if necessary, take orders of Officer Commanding District on the subject. He will satisfy himself before transmission to Ordnance Department that all demands are strictly in accordance with regulation, or, if the service has not been scheduled, that demands are essential, and will certify in body of indent accordingly.

For forms of indents see Appendices 1 and 1A.

8. In all cases where articles of equipment, clothing, games, and musical instruments are donated to the troops for use in camps, barracks, or on board ship the receipt will be acknowledged in garrison, camp, or ship orders of the day, a copy of which, with a covering letter, will be sent to the donor.

The articles will be taken on charge in the accounts of the unit by a certificate voucher, a copy of garrison, camp, or ship order being attached thereto.

9. In any instance in which stores or equipment, other than ammunition, are drawn in excess of the authorized proportions without the written authority required by paragraph 6 the case will be submitted without delay to the G.O.C., who will deal with it as a matter of discipline, and when consumable stores are concerned the excess issues should be treated as losses and dealt with under the King's Regulations.

*C. Duties of Commanders, Coast Defence.*

10. Commanders of Coast Defence Troops will be held directly responsible that the equipments on issue to the several units and detachments under their command are in a satisfactory condition, complete in all their details, and in the authorized proportions unless otherwise specially ordered. They will make frequent inspection of the whole of the equipments of the men and horses, and ensure that the equipment is accounted for as laid down in these regulations.

*D. Duties of Commanding Officers.*

11. Commanding Officers will be held directly responsible that their equipments are in a serviceable condition, in proper working-order, complete in all their details, and in the authorized proportions unless otherwise specially ordered; that the arms on issue to their units are kept clean and in thorough repair. Camp Commandants and Commandants of Schools of Instruction will be regarded as C.O.s for all purposes to which these regulations apply.

12. Alterations of articles of equipment involving any departure from the sealed patterns, either for experiment or any other purpose, are strictly forbidden without the previous sanction of the G.O.C.

13. On a change of command a Board will be assembled to take stock of the equipment and verify the ledger balance. Both the incoming and outgoing officers or their representatives will be present and sign the proceedings, which will be certified in the form laid down in Appendix 2, and will accompany the Regimental Equipment Ledger on transmission of the latter as laid down in that appendix.

14. In a case where the officer taking over command does not arrive until departure of outgoing C.O., the Board will assemble prior to the departure of the outgoing officer, and the senior officer remaining with the unit will take over and be responsible for the equipment until it is handed over by him to the officer assuming command.

15. Accountants will furnish with their periodical accounts a certificate that the list or catalogue alluded to in paragraph 103 has been verified and corrected to date, that the deficiencies through loss or otherwise have been reported to the D. of E. & O.S., and the authority for striking such deficiencies off the list has been noted thereon.

16. On changes of Heads of Departments, Staff Officers, or Commanding Officers, the officer assuming charge will verify the lists and report any deficiencies.

17. The stocktaking Board may be dispensed with if the officer taking over charge considers it unnecessary, but he will then be held responsible, and will himself sign the form of certificate in para. 5, Appendix 2, and dispose of it as therein directed.

18. In the case of a transfer of charge of the equipment in an Artillery subdistrict, the verification of the stores in connection with the armaments by a Board of officers need not be carried out unless at the request of either of the officers concerned. Should such a request be made by either of the officers handing over or the one taking over charge, the O.C. will appoint a Board of officers for the purpose.

Should no Board be assembled, the officer taking over charge will be held responsible for the correctness of the stores taken over by him, as shown by the balance on the 31st of the previous May, subject to the variations caused by subsequent duly vouchered store transactions.

19. When deficiencies or damages are discovered on a transfer of the equipment and stores, the value of the articles deficient, or the cost of making good the damages, will be recovered from the officer giving over the command, unless he has been relieved of the responsibility by authority of the G.O.C.

20. Where any loss, injury, or deterioration of equipment, other than personal, is clearly traceable to the neglect of a subordinate, the C.O. who is liable may apply through the Officer Commanding District to the G.O.C. to be relieved of the cost of replacing or repairing such equipment. In the case of personal equipment the usual steps will be taken to recover the cost of replacing or repairing.

21. The C.O. will bring to the notice of the Ordnance Officer any undue delay in the supply of any articles of equipment. The C.O. will at all times furnish the Ordnance Officer with such information as he may require regarding the state of equipment in his charge.

22. All indents and demands for stores on Ordnance Department ledgers and vouchers for audit will be forwarded through District Headquarters.

SECTION II.—GENERAL SUPPLY OF EQUIPMENT.

A. Supply of Equipment.

23. Stores, however trifling in value, will not be issued without a properly prepared indent being submitted as laid down in the regulations.

Indents will, however, in case of necessity be accepted in the form of any written or telegraphic communication, but must be immediately confirmed by a properly prepared indent on the body of which reference to above written or telegraphic communication will be made. Under no circumstances will stores be issued by telephonic communication.

24. Indents for stores required for the maintenance of authorized equipments will be rendered to the Ordnance Officer on the dates provided in para. 25 by officers who are accountants. They will be prepared in triplicate on the authorized forms, which will be completed where necessary to show the paragraph or table of the regulations authorizing the issue, the establishment of men, animals, or equipment, the quantities of equipment on charge, and, in the case of those articles for which a period of duration has been assigned, the time the articles to be replaced have been in use.

A separate sheet (or division of such forms as are divided by perforation) will be used for each group of sections, and will bear the regimental or corps office stamp.

Indents for ammunition and stores required on payment will be surcharged to that effect in red ink.

25. Except in the case of emergency, indents will be rendered on the following dates:—

Stores required to complete equipment or to replace unserviceable articles	} G 10 {	Quarterly—	
Materials for repair of bicycles in camps ..			1st January.
Materials for repair and maintenance of mechanical transport vehicles and workshop equipment			1st April.
Expense stores .. .. .			1st July.
Materials for repair of harness and saddlery ..		1st October.	
Materials for repair of wagons, &c. .. .. .			
Materials for cleaning and oiling arms .. .. .			
Artificers' tools .. .. .			
Paper targets for use with portable subtargets ..			
Stable necessaries .. .. .			
Camp equipment .. .. .		G 8 When required.	
Gun ammunition .. .. .		G 10 ..	
Small-arm ammunition .. .. .		G10 See paras. 80,126.	

26. When small quantities of camp equipment or material for repair are required form G 10 will be used in lieu of the special forms. (Vide Appendix 1A.)

27. When indents are rendered on dates other than those laid down in para. 25 a statement will be forwarded for the information of the G.O.C., showing why the requirements were not foreseen and why the supply could not wait until the next periodical indent is rendered.

28. On notification of a change of pattern involving the immediate withdrawal of that in use, indents will be forwarded for the new equipment, but a C.O. will not demand any articles from store on account of a preference which he may have for a particular pattern.

29. Until a C.O. has satisfied himself that articles are thoroughly unserviceable and cannot be repaired by the means at his disposal he will not forward indents for their replacement, notwithstanding that such articles may have been in use for the period of duration assigned to them under these regulations.

Special authority will be required for the exchange of serviceable equipment or of equipment which can be repaired regimentally.

30. Indents and vouchers for equipment for the use of troops detached from Headquarters will be signed by the O.C. the unit. To obviate the necessity for intermediate indents, the C.O. will cause an inspection of the equipment to be made before the quarterly indents are prepared.

31. When accoutrements are lost, or arms are damaged to such an extent that they cannot be repaired, the wants may be temporarily met by using the equipment of men who are for the time non-effective. Small-arm ammunition, arms and service-pattern articles which form part of an officer's regulation kit (but which are not authorized as public equipment) as shown in the Field Service Manuals, also surveying and drawing instruments necessary for carrying out the military training and education, and which he may acquire for his own personal use, may be issued on prepayment.

Carbines and rifles may be issued under the conditions laid down in Appendix 3.

Other articles will not be issuable on payment to officers except by order of the D. of E. & O.S.

32. The value of stores issued on repayment, and of ammunition issued on payment, will be recovered by the Command Paymaster in whose area the issuing

officer is stationed, priced vouchers being furnished by the Ordnance Officer making the issue as follows:—

- (a.) One copy to Command Paymaster.
- (b.) Two copies to units.

As regards (b), one copy will be retained by unit to support entry in Equipment Ledger. The other copy will be forwarded to the Command Paymaster. The Command Paymaster will endorse voucher showing where the value is credited before returning same to the Ordnance Officer.

33. Indents for stores issuable on prepayment will be rendered to the Ordnance Officer of the district on form G 10 in the case of districts, and to the Camp Quartermaster in the case of Expeditionary Force camps. All such indents will be endorsed in red ink with the words "On payment."

Articles issuable on prepayment are set out in Appendix 3.

34. When tools are required to replace similar unserviceable articles which form part of complete tool-chests they will be demanded in detail.

35. Stores for maintaining equipments or for special services are not to be appropriated to other purposes without special authority obtained from the D. of E. & O.S.

36. When stores have been reported as ready for issue the troops will, if within a reasonable distance from the Ordnance depot, arrange for their conveyance.

For instructions governing the rendering of indents for clothing and equipment on Ordnance stores see Appendix 4.

#### *B. Receipt and Inspection of Equipment.*

37. When equipment is received by the troops, the officers or others receiving it will, before giving a receipt to the carrier, ascertain that the various packages are in good order and condition. Should any appear to have been damaged in transit or tampered with, the circumstances will be recorded on the bill of lading or carrier's note, and pointed out to the person conveying the stores, the package being opened, if necessary, in his presence (see also King's Regulations).

38. The stores will be examined as soon as possible after receipt by the officer responsible for the equipment, or an officer deputed by him.

All packages will be weighed before being opened, and the ascertained weight compared with that marked on the outside. Should these weights differ in any instance, the contents will be at once counted and compared with the numbers given on the packing-note which each package must contain.

39. The equipment will be carefully inspected to determine that the articles delivered agree with the particulars in the vouchers and that they are correct. Stores received by number and weight will be both counted and weighed.

Serviceable articles are not to be objected to on account of their being part worn.

40. The hermetically closed cases in which fuzes, tubes, and certain other articles are issued will not be opened until the contents are required for use. These cases with their contents, as well as packages containing small-arm ammunition and gunpowder, will be taken on charge unopened. Any defects or discrepancies which may be discovered when the stores are subsequently inspected or used will be at once reported, and all details upon the cases will be quoted.

41. Should the precautions in the preceding paragraphs be omitted the officer receiving the stores will render himself liable for any discrepancies.

42. Vouchers for the receipt of stores will be signed and returned without delay. Should any discrepancies be discovered, or any articles be found damaged, the C.O., after endeavouring to ascertain the cause of the loss or damage, will bring the matter to the notice of the Ordnance Officer by whom the issue was made.

43. In reporting any discrepancy the fullest information will be given, all numbers and weights, and any marks upon the packages giving evidence of their having been tampered with, being carefully recorded. The packages, with their notes and all wrappers, will be retained until the inquiry closes. Form G 74, "Discrepancy Report," will be used for this purpose.

44. A C.O. in receipt of articles of equipment which are not brought on charge will, pending the result of a report on their condition, be held responsible for their safe custody until a decision has been given as to their disposal, when he will either take them on charge or return them to store, as may be ordered. He will also be held responsible for the immediate return to store of any equipment issued to him which in cases of emergency he may be unable to take on charge. Should he fail to carry out these instructions he will be liable for any loss that may ensue.

#### *C. Return of Equipment.*

45. Whenever it becomes necessary or advisable to return equipment into store, except empty packages and such articles as have been replaced on indent, C.O.s will make application to the Ordnance Officer to receive them, stating their description, number, the time they have been in use, and the reasons and authority (if any) for returning them to store. The Ordnance Officer will add his instructions and return the document to the unit, by whom it will be attached to the voucher on which the stores are charged to the Ordnance Department.

46. Unserviceable and obsolete stores on charge to a unit may, under superior authority obtained through the D. of E. & O.S., be disposed of locally, to save the expense involved in transporting them to the nearest Ordnance depot for survey and condemnation. In giving effect to this arrangement the general rules to be observed in the condemnation of equipment are as follows:—

- (a.) The condemnation of stores will not be effected by the unit on whose charge they are held.
- (b.) Whenever possible, the condemning authority should be either an Ordnance Officer of District Staff or a Board of officers of other than the unit in whose charge the stores are held.
- (c.) At remote stations where there are insufficient officers to form a Board it may be undesirable, in the interests of economy, to adopt either alternative mentioned in subparagraph (b). In such cases the superior authority may instruct a competent military officer to examine the

stores and, after consideration of his report, authorize their condemnation and local disposal. Officers should not be specially detailed for this duty if, within a reasonable time, a qualified officer will visit the station in connection with other military duties.

(d.) All instructions for the disposal of stores will be given by the D. of E. & O.S.

47. Haversacks and mess-tin covers condemned under para. 46 will be disposed of under the contracts for the sale of worn-out clothing.

48. When stores are returned to the Ordnance Department, vouchers will be prepared in triplicate by carbon process on N.Z. form G 1. A separate sheet will be used for each section, and each sheet will bear the regimental or corps office stamp. The vouchers will be signed by the consignor, and one copy, duly signed by the consignee, will be returned as soon as practicable after the stores have been received. When stores are passed to other accountants the vouchers will be prepared in duplicate only.

49. When stores are returned from a distance, vouchers will be sent by post on the same day that the stores are dispatched to the consignee to whom they are consigned. The date and number of the order directing the return of the stores will be inserted in the headings of the vouchers, and a corresponding date and number will be conspicuously marked on the outside of each case or package, so as to enable the consignee to identify it immediately on receipt. Each case, bale, or package will be weighed, and the weight marked upon it. (See King's Regulations, para. 472.)

50. C.O.s will make their own arrangements for conveyance, as in the case of issues (see para. 36) in the return of unserviceable and surplus equipments into store in camp and garrison.

51. When a unit is quartered at a station where there is an Ordnance depot, issues of equipment such as arms, accoutrements, harness and saddlery, and parts of bicycles, to replace similar unserviceable articles, will not be made until the unserviceable articles have been returned to the Ordnance Department, inspected, and condemned. The day and hour for return of unserviceable equipment and for issue of new equipment will be arranged by communication between the Ordnance Officer and the Commanding Officer.

52. When no Ordnance depot exists at the station the unserviceable articles will be returned to store as soon as possible after receipt of the new equipment. Corps marks will not be placed upon the new equipment until a notification is received from the Ordnance Officer that the articles returned are considered to be in a state for condemnation. The inspection and notification by the Ordnance Department will be carried out immediately the stores are received. Should any of the equipment so returned be found to be still serviceable, or capable of repair by regimental artificers, the Ordnance Officer will call upon the Commanding Officer to furnish an explanation for the information of the superior authority, who will decide whether the troops should be held liable, or a Board of officers be assembled to investigate the matter. If it is decided that the articles have been improperly returned they will be sent back to the unit and the new articles will be returned back to the Ordnance Department, the cost of carriage unnecessarily incurred being defrayed by the C.O.

53. Should it be considered that any articles returned as unserviceable have become so from unfair usage while in possession of the troops, the Ordnance Officer will bring the same to the notice of the superior authority, who will determine, by means of investigation by a Board of officers or otherwise, whether the troops are liable.

54. No reduction in any authorized equipment will be made without the sanction of the superior authority, but if owing to an authorized reduction accountants have on charge surplus stores or equipments not likely to be required within a short period, the superior authority will decide whether they shall be retained or returned to store.

55. When stores are issued on loan from Ordnance Department (as, for instance, moving heavy ordnance) the C.O. to whom they are lent will be held responsible for returning them as soon as the object for which they have been issued has been accomplished.

56. Commanding Officers and other accountants are responsible that all chests, cases, barrels, and other packages received with equipment of any kind are handed over as soon as they can be dispensed with to Ordnance Department, and if possible without cost to public. The consignment-note for packages received by rail will be endorsed by a certificate signed by officer who received the packages, "These packages were previously received over rail, filled, on [Date to be inserted.]"

*D. Ammunition-cases, Fired, Accounting for.*

57. The fired cases of small-arm ball and blank cartridges supplied gratuitously will be brought on Equipment Ledger charge by certificate-receipt voucher in the following proportions, and returned to the Ordnance Department. The cases will be brought on charge by weight and not by numbers:—

Nature of Ammunition.	Weight to be brought to Account per 1,000 Rounds expended.
·303 in. ball .. .. .	.. 20 lb.
·303 in. blank .. .. .	.. 10 lb.
Pistol, Webley, ball and blank .. .. .	.. 9 lb.

58. The rates to be charged for any deficiencies of ammunition supplied will be governed by the rates which will be notified in Command Orders.

59. Cases will be returned in the empty ammunition-packages once a quarter to such place or places as may be directed from time to time by the D. of E. & O.S. The C.O.s will not return a less weight than that representing 1,000 cases, except in the last quarter of the accounting year, when the outstanding balance, whatever it may be, will be sent in. Cases must be in good condition when returned, care being taken that grit and dirt are removed, and that no live cartridges are included in them.

60. Each package will contain a packing-note showing the rank, name, and unit of—

(a.) The person by whom the cartridge-cases were sorted and packed :

(b.) The responsible individual supervising the sorting and packing operations. If live cartridges are found in any of the packages the matter will be reported to the G.O.C. for such disciplinary action as he considers necessary.

61. The foregoing general instructions apply equally to chargers and bandoliers issued with ball ammunition. Charges will be written off charge by numbers at the same time as the expended ammunition, and brought on charge by weight by certificate-receipt voucher with the fired cases; the weight to be brought to account in respect of each 1,000 chargers will be 25 lb.

Bandoliers will not be written off charge when ammunition is expended.

Vocabulary rates will be employed in calculating charges for deficiencies.

Cardboard boxes employed for charger-packed ammunition will be disposed of locally.

Bandoliers, cotton, 50 rounds, may be permanently retained by each unit of Mounted Rifles and Infantry for the purpose of practising the supply of small-arm ammunition in the field.

62. As at out-stations a consignment of cases, &c., from a single unit might be insufficient to obtain the lower rate of freight, C.O.s will arrange, if necessary, for all empty packages, smaller packed in larger, to be sent in one consignment to the Ordnance depot concerned. Each package will have clearly marked upon it the name of the unit returning.

#### *E. Annual Inspections.*

63. The D. of E. & O.S., the C.R.E., and D. of A. will, at least once a year, or whenever necessary, make a joint inspection of magazine stores, workshops, &c., of all their departments, in order that each officer may have an opportunity of calling special attention to his requirements on the spot. When circumstances make it appear advisable, the officer or officers in local command or charge may be delegated to carry out this inspection. Advantage should be taken of this inspection to consider and discuss on the spot the requirements and the manner in which they should be met.

#### *F. Boards of Survey and Courts of Inquiry.*

64. Before a Board of Survey is convened on equipment and Ordnance stores a list showing reasons why they are to be brought before a Board must be forwarded to the D. of E. & O.S. •

65. Condemnation of stores must be supported by Proceedings of Boards of Inquiry or Survey, where Boards are requisite.

66. Articles of equipment which may become unserviceable before the expiration of the period fixed for their duration are not to be written off charge, nor is the loss to be borne by the public, unless the reason for the articles having become unserviceable is fully set forth.

67. When stores or equipment of any kind are lost, damaged, or injured, and it is a matter for consideration (owing to responsibility not being clear, or the charge being demurred to by the person held responsible, or for other reasons) on whom the expense of replacing or repairing them should fall, the course laid down in the King's Regulations will be followed.

68. All reports of loss, destruction, &c., of Ordnance stores will be sent to the D. of E. & O.S. accompanied by form G 117 in duplicate, completed in strict accordance with instructions contained thereon. (See Appendix 35.)

69. After a decision has been given the D. of E. & O.S. will forward a copy of same to the O.C. District concerned, to serve as authority to write off the stores, and to indent for new ones to replace. The registry number and date of decision will be quoted on indents.

70. In cases where a Court of Inquiry is ordered by the G.O.C., an officer of the Ordnance Department will, if available, be detailed to serve as a member of the Court. The Proceedings of such Court will be transmitted in duplicate by the President direct to the D. of E. & O.S.

71. When a damaged arm or barrel is sent to Ordnance Department, Wellington, for special report, a label stating the circumstances, and giving the reference to number of Headquarters Orders or Proceedings of Courts of Inquiry, will be attached to the arm or barrel for identification.

72. If the loss or damage has occurred when the R.N.Z.A. or N.Z.E. have been employed in moving heavy stores, the officer in charge of the operation will, in giving evidence, produce a statement showing distinctly the materials used, their actual dimensions, the strain calculated to be borne by them, the actual weight lifted, the distance through which the stores were to be lifted, vertically or horizontally, and in the case of shears the angle of inclination.

73. When stores forming the subject of inquiry are of a special or technical nature, or peculiar to Artillery or Engineers, or any particular service, the D. of E. & O.S. will, when necessary, call for the written opinion of the local head of the Department concerned, before finally dealing with the matter.

74. Such opinion will form part of the Proceedings forwarded to G.O.C. in cases where this is necessary in accordance with instructions laid down in the King's Regulations dealing with these subjects.

#### *G. Equipment Accounts and Claims against Corps.*

75. Every officer receiving equipment, ammunition, or money for the purchase of equipment will keep and render accurate accounts thereof, and until these accounts have been examined and allowed he will not cease to be responsible.

He will obtain receipts in the proper forms for all articles leaving his charge.

The accounts will be closed and balanced every half-year, on the 31st May and 30th November.

76. Accountants will record in Equipment Ledgers all transactions connected with ammunition and stores, except as provided for in paragraph 77. Detailed instructions for keeping these ledgers are given in Appendix 2.

77. Materials for repair (see para. 218—Book G. 77) and other consumable articles (except explosives and ammunition) drawn upon regulated scale will not be taken on charge in the Equipment Ledgers, but any quantity remaining unused at the end of the year will be shown as in possession in the indent for the next year's supply.

78. Packages, including those from the Stationery Office, will be brought on charge by certificate voucher in the current account by the unit receiving them.

79. An annual indent for gun ammunition for R.N.Z.A. and Territorial Artillery units will be rendered to the D.E.O.S. by the O.O. of district on the 1st July in each year, and is to include a two-years supply of practice ammunition.

80. All gun ammunition for R.N.Z.A. and Territorial Artillery units (unless issued on payment) will be held on charge of Equipment Ledgers of R.N.Z.A. of the district.

(a.) All issues for practice to R.N.Z.A. and Territorial Artillery units will be made by the Permanent unit (R.N.Z.A.) from that held on their charge, and quantities expended will be written off charge by expense voucher by O.C. R.N.Z.A. Detachment. Vouchers will be prepared on form G 73 quarterly, showing expenditure by R.N.Z.A. and Territorial Artillery units separately.

(b.) The above also refers to blank ammunition of all guns.

(c.) Small-arm ammunition other than that referred to in subpara. (d) : This ammunition, unless issued on payment, will be taken on charge in Equipment Ledgers. Quantities expended will be written off charge by vouchers signed by the C.O. as follows :—

(i.) One voucher rendered by both R.N.Z.A. and Territorial units at end of musketry course. This voucher will contain particulars of numbers exercised during the musketry course, as follows :—

•303 in. : The number of officers and men ; the number of recruits, officers and men ; the number of recruits who have also fired the course for trained soldiers ; the number of machine guns from which practice has been carried out.

Aiming-tube : The number of trained soldiers, R. and F. only ; the number of recruits, officers and men.

Pistol : The number of officers, first year and subsequent years, being shown separately.

References will be given to authorized scale or other authority covering the issue.

81. A copy of the authority of the Commander of Coast Defences will be attached in support of expenditure under para. 132 (2).

(ii.) One voucher on 31st May, when equipment account is closed.

(iii.) The quantities shown in these vouchers must accord with the expenditure recorded in the unit's musketry returns, and its diaries of ammunition expended (M.S. book), which must be produced for audit when required.

(d.) •303 blank, except that allowed for machine guns : Vouchers will be prepared on 31st May, the number and date of order allotting the ammunition being quoted.

82. Articles required to replace stores lost or rendered unserviceable, and chargeable against the troops, will be demanded quarterly in accordance with para. 25. The unserviceable articles will be returned to the Ordnance Department and the deficiencies written off charge at the end of each month.

The value of lost or unserviceable stores (see paras. 89 to 100) will be credited to the public in the pay-list on form M 19.

The equipment-issue voucher for the stores struck off charge will give a direct reference to this credit, and the indent for stores in replacement will quote the equipment-issue voucher.

83. Should any deficient article for which a charge has been made be subsequently recovered, a refund of the amount paid may be made if authorized by the G.O.C.

The refund will be supported by a reference to the cash credit, and to the voucher and account by which the returned article has been brought on store charge.

84. When stores on Equipment Ledger charge are condemned by proper authority as unfit for further service, or are lost or damaged through no fault of the troops, the reports of the Board of Survey or other authority will be attached to the voucher by which the articles are written off charge.

Any stores required to be replaced will be obtained as laid down in para. 25.

85. All stores disposed of locally will be written off charge in equipment accounts by certificate voucher.

86. No articles of equipment will be transferred from one Equipment Ledger charge to another, except as allowed by regulations or under authority of the G.O.C. obtained through D. of E. & O.S. Such transfers will be supported in the accounts by vouchers upon which the authority for the transfer will be quoted.

When either of the officers concerned desires that an Ordnance Officer should be present at the transfer one will be directed to attend if available on application.

The above does not refer to transfer of equipment from one C.O. to another on a change of command, which is governed by para. 13.

87. On the formation of a detachment a new account will be opened, and the equipment taken on charge by voucher from the unit or units furnishing the men. The D. of E. & O.S. will report to the G.O.C. the circumstances rendering the opening of a fresh account necessary.

88. The following deductions may be made from the ordinary pay due to an officer : The sum required to make good any loss, damage, or destruction of public property which, after due investigation, appears to the G.O.C. to have been occasioned by any wrongful act or negligence on the part of the officer.

89. A soldier who by neglect or culpable mismanagement loses or damages any article of his personal equipment will, unless he elects to be dealt with (a) by Court-martial (if embodied), or (b) under section 55, Defence Act, 1909 (if not embodied), be charged as follows :—

(a.) Repairable damage : Actual cost of repair, including both wages and materials or components.

(b.) Loss or damage beyond repair : The proportionate value of the articles : Provided that—

(i.) The maximum charge for any one article shall not exceed the proportionate value of the unexpired period of duration.

(ii.) The minimum charge shall not in any case be reduced below one-quarter of its full value even though it has been in use the full period of duration.

90. Twelve years will be taken as the period of duration for any article for which no period has been laid down; and the unexpired period will be calculated in half-years, any period of less than six months being charged against the soldier as a full half-year.

The rates from which the calculations will be made are those laid down in the priced Vocabulary of Stores, except for rifles, when the date of fitting last new barrel will be taken as date of issue.

91. Culpable repairable damage to equipment, other than personal equipment in possession of a soldier, will be charged for as in para. 89 (a). Charges for such equipment when culpably lost or damaged beyond repair will be made as in para. 89 (b) if the proportionate value can be estimated or ascertained; if not, the full value will be charged. Any evidence as to the proportionate value will be recorded in the Proceedings of the Court of Inquiry or other authority which investigates the loss.

92. Losses by theft or malicious damage to articles of equipment in possession of soldiers will not be admitted as a charge against the public unless some person is convicted of the offence.

93. The authority of the D. of E & O.S. will be sufficient for any charge in the pay-list on account of equipment. When officers against whom claims are made have no cash account, payment will be made by them to the Command Paymaster.

94. When articles are ascertained to have been lost by desertion they will be struck off charge by a certified copy of the Proceedings of the Court of Inquiry (held under section 72, Army Act).

95. If on rejoining a deserter is in possession of any of the articles found deficient on his desertion, these articles will be taken on charge in the Equipment Ledger.

96. A deserter rejoining will, by sentence of a Court-martial, or award of competent military authority dispensing with his trial, be liable to be placed under stoppages in order to make good the cost of replacing any article found deficient or damaged on his desertion.

97. Return of charges (form M 19) against units, corps, or individuals in respect of deficiencies, losses, or damages will be rendered as follows:—

- (1.) By O.C. units or corps: When articles are on unit or corps charge and on issue within the unit or corps.
- (2.) By District Ordnance Officer: When articles are on unit or corps charge—
  - (a.) Not returned, or returned damaged upon completion of service:
  - (b.) Not returned when demanded or returned damaged:
  - (c.) Losses or damages discovered during audit.
- (3.) By Camp Quartermaster: In permanent Expeditionary Force camps.

98. When returns of charges are rendered to Paymasters against units, corps, pay of officers or other ranks in respect of deficiencies, loss or damage of ordnance, barrack stores, clothing or equipment of any description, the write-off ledger charge will not be made until a copy of the return of charges (form M 19) has been received from Paymaster stating that debit has been effected and where credit will be found.

99. Return of charges will be rendered to Paymasters in triplicate. The original will be retained by Paymaster; the duplicate, in the case of para. 1, will be forwarded by Paymaster to O.O. District; 2, will be forwarded by Paymaster to D.E.O.S.; 3, will be forwarded by Paymaster to D.E.O.S.

The triplicate copy will be forwarded by Paymaster, in the case of para. 1, to the O.C. unit or corps; 2, to O.O. of district; 3, to Camp Quartermaster, Expeditionary Force camps.

100. A copy of return of charges mentioned in para. 99 will be attached to monthly return of vouchers sent to D.E.O.S. by Ordnance Officers of districts.

101. The order sanctioning the shooting of a glandered horse will be quoted as the authority for striking off charge portions of harness or saddlery destroyed in order to prevent infection.

102. The undermentioned articles will not be brought on charge in Equipment Ledgers of groups, units, or Artillery Store Accounts:—

- (a.) Articles supplied to the District or Headquarters Staff for local use, which will be accounted for as laid down in "Camp and Barrack Services."
- (b.) Camp equipment, which will be accounted for to the Ordnance Department as laid down in paras. 151–167.
- (c.) Barrack stores not forming part of the fixed equipment of units.
- (d.) Candles, oil and wick for lamps and lanterns, safety matches, disinfectants (these are A.S.C. supplies).

103. Official books, printed records, and maps obtained from the Ordnance Department will not be brought on charge on the Artillery Store Accounts or Equipment Ledgers, but accurate lists will be kept.

### SECTION III.—ARMS, ACCOUTREMENTS, AND ARM-CHESTS.

#### A. General Supply of Arms and Accoutrements.

104. The arms and accoutrements supplied by the Defence Department to the Forces consist of the articles given in the details for the respective services.

Arms and accoutrements will not be transferred from one unit to another except under authority of the D. of E. & O.S.

105. Officers, W.O.s, N.C.O.s, and men for whom rifles are not issuable as personal equipment will, when required to perform musketry courses, be supplied temporarily with arms taken from those issued for the rank and file.

The same course will be followed when arms are required by such rank for use at voluntary practice or at authorized rifle meetings.



106. O.C.s will be responsible that suitable regimental or local arrangements are made to govern these temporary loans, and that divided responsibility for any damage that may occur to the arms be prevented.

107. In all reports relating to rifles, the number of the arm, which will be found stamped on the butt, must be stated.

*B. Arms, Accoutrements, Ammunition, and Stores for Troops and Animals on Board Ship.*

108. When the D. of M. & Q. is notified by the superior authority of the numbers of men and animals to be embarked for service abroad in a vessel from a port in the Dominion, he will cause full details to be immediately furnished to the D. of E. & O.S.

109. The Ordnance Officer will, on indent from permanent Ship's Quartermaster, cause arms, accoutrements, ammunition, and the stores in accordance with instructions issued in para. 108 (also Appendix 5, Schedules 1, 2, and 3) to be placed on board for the whole of the troops and animals to be embarked, regardless of whether they all join the vessel at the port from which it commences its voyage or are subsequently embarked at other ports, and irrespective of the stations at which they may be located when detailed for embarkation.

110. Before the vessel leaves the initial port of embarkation the O.C. Troops will satisfy himself that the authorized proportions of ammunition, arms, equipment, clothing, and stores have been placed on board, and that the ammunition has been properly secured in the magazine.

111. The permanent Ship's Quartermaster will be responsible for the care and custody of such stores during the voyage, and will ensure that they are duly accounted for in accordance with the following:—

(a.) When a Quartermaster or Acting-Quartermaster is appointed to the ship, the stores, ammunition, clothing, and other equipment will be under his charge, and be entered by him in ledger (150 folio) in the form of an Equipment Ledger.

On the termination of the voyage the ledger will be balanced and forwarded to the D. of E. & O.S., who will issue instructions as to the disposal of stores remaining on charge, issue vouchers being passed.

(b.) When an Acting-Quartermaster is not appointed, the O.O. at the issuing station will forward a list of stores issued to the O.C. Troops on board, who will in all cases give a receipt to the issuing officer for the articles, and will account for stores on the termination of the voyage.

(c.) In either (a) or (b) case the O.C. will, when ammunition or other stores has been expended during the voyage, give a certificate that such expenditure has been necessary, detailing the circumstances.

Deficiencies will be dealt with as laid down in the King's Regulations.

Certificates relating to expended stores, and correspondence respecting deficiencies, will be attached to the voucher, bringing the remainder of the stores on charge in the Ordnance store accounts.

If any stores are disposed of *en route* at intermediate ports the O.C. will obtain temporary receipts and attach them to the original vouchers.

(d.) Replacement of clothing and necessaries: The Ship's Quartermaster will be guided by section 12, "Clothing, &c.," of Standing Orders, H.M.N.Z. Transports, 1917.

*C. Supply of Articles for Musketry Instruction.*

112. Articles for musketry instruction will be supplied as hereafter laid down in the several schedules (*vide* Appendices 6, 6A, and 6B). They will be accounted for as equipment in permanent camps; and for drill-halls, groups, and areas, under para. 70 *et seq.* of Regulations, Camp and Barrack Services, 1916.

*D. Supply of Arm-chests.*

113. Arm chests or cases with hinges or locks suitable for the packing of articles of musketry equipment are issued by Ordnance Department as ordinary equipment, at the rate of one chest or two cases for each company of Garrison Artillery, Engineer unit, or Infantry company, and two chests or four cases for each squadron of Mounted Rifles, battery of Field Artillery, or company A.S.C.

SECTION IV.—MACHINE GUNS.

114. Machine guns will be issued to units in proportions to be decided upon by the superior authority.

115. Machine guns in possession of units as part of their regimental equipments will be provided with one drill-purpose barrel for drill purposes or for firing blank only.

116. To ensure that machine guns are kept in readiness for immediate service they will be examined periodically by the armourer or armament artificer who has been through a machine-gun course, and any necessary repairs which can be done locally will be carried out.

117. A memorandum of examination, or history-sheet, will be issued with each gun.

118. It will be carefully preserved, and will be handed over with the gun to which it relates whenever the latter is transferred from the charge of one officer to that of another.

An immediate record will be made thereon of any accident which may occur to the gun, and the result of each official examination which it may undergo.

On every occasion on which the gun is fired the number of rounds will be inserted, the number of barrel being shown.

119. Spare parts and tools are issued (in a box) with each gun. The parts issued with the gun will be used until actually unserviceable, when the spare articles will be taken into use and the unserviceable returned to store, demands being at once put forward to replace them.

120. Materials for cleaning and oiling machine guns and their mountings will be supplied in the following proportions :—

Description.	Per Maxim Gun and Mounting (Peace) per Annum.	
	For Guns in Use.	For Guns in Store.
Composition, preserving, arms (lb.) .. .. .	..	1½
Dubbing (lb.) .. .. .	½	..
Flannelette (yds.) .. .. .	11	6
Linen or cotton, old (lb.) .. .. .	3	..
Oil, mineral, burning (pints) .. .. .	½	..
„ petroleum, lubricating (pints) .. .. .	8	..
Soap, yellow (bars) .. .. .	4	..
Turpentine (pints) .. .. .	1	..

#### SECTION V.—AMMUNITION.

##### A. Small-arm Ammunition for Practice and Exercise.

121. Service small-arm ammunition will be issued in the proportions as laid down in musketry course for the period.

122. The place of storage and any detailed arrangements for supply of troops on mobilization will be laid down in local mobilization orders and Defence schemes.

All units will be kept informed of these arrangements so far as they are concerned.

123. In case of emergency the ordinary supply of service ammunition can be increased to such additional quantity as the superior authority may consider necessary.

124. Extra issues of ammunition remaining unexpended will be returned to Ordnance Department on the termination of the service that necessitated the supply.

125. Ammunition for Rifle Clubs will be issued under paras. 635 to 641, Regulations for Military Forces, Dominion of New Zealand, 1913.

126. On the 1st June in each year all units will render to the Ordnance Officer of district a return showing the actual strength of warrant officers and N.C.O.s and men on that date, also the number of rounds of blank .303 in. ammunition (except that authorized under para. 132) actually in possession of the unit. The Ordnance Officer will forward these returns to the D. of E. & O.S. in consolidated form.

127. From these returns the D. of E. & O.S. will compile a statement in duplicate showing the quantities in possession of each unit, and the quantities issuable for the year, the latter being calculated as laid down in Musketry Regulations. This consolidated statement will be passed to the C.G.S. for the decision of the G.O.C. as to whether the quantities shown in possession of units are to be allowed in whole or in part in addition to the quantities issuable for the year, or whether they are to be taken in diminution thereof.

128. The decision will be recorded on the forms, one copy of which will be retained by the C.G.S. and the other returned to the D. of E. & O.S., and will be the authority for the total amount of blank .303 in. ammunition to be issued in the command during the year.

129. The quantities to be allotted to the several units in the districts will be communicated from time to time by the C.G.S. to the D. of E. & O.S., who will issue the necessary instructions to Ordnance Officers of districts, at the same time notifying the C.G.S. what balance, if any, remains for allotment.

130. Any part of the annual allowance of ammunition authorized under this paragraph not drawn from Ordnance Department by the 31st May in each year will lapse. Quantities so forfeited may not be added to the allowance for the following year.

131. C.O.s may obtain on repayment from the Ordnance Department such quantities of small-arm ammunition as may be required for regimental purposes.

Pistol ammunition will only be issued on repayment for the use of those ranks who are armed with pistols on service.

Bandoliers and chargers issued with .303 in. ammunition will be charged for at Vocabulary rates.

##### B. Machine-gun Ammunition.

132. The annual proportion of ammunition for practice and exercise will be as detailed below :—

	Cartridges, Ball.	Small-arm, Blank.
(1.) Each unit having machine gun in possession .. .. .	10,000	1,000
(2.) For each machine gun forming part of approved armament .. .. .	500	200

##### C. Conveyance of Ammunition.

133. Neither gunpowder nor ammunition of any kind will be forwarded to an Ordnance depot until the officer forwarding the same is satisfied that the consignee is ready to receive it.

134. Whenever ammunition is conveyed in military vehicles the loading will, if possible, be performed by the troops, who will be held responsible for its correctness.

135. When explosives are issued from an Ordnance depot and coverings are considered necessary they will be supplied by the Ordnance Department. They will be returned to store immediately on completion of the service.

136. In the event of the orders existing in the district rendering a military escort necessary, the consignor will apply to O.C. District for the escort, stating the day and hour when it will be required, and, unless the transport is provided by the troops, the number of wagons or carts to be escorted,

137. Should the ammunition be forwarded by railway or water carriage and the escort not accompany it, the consignee will make arrangements for the attendance of an escort, if required, to meet the ammunition on arrival and conduct it to its destination.

138. Officers in command of escorts will prohibit smoking near the wagons, and will see that none of the party have matches in their possession.

SECTION VI.—HARNESS, SADDLERY, STABLE NECESSARIES, AND EQUITATION ARTICLES.

139. When units proceeding by sea are directed to take their harness and saddlery with them it will be packed for shipment in corn or other suitable sacks (a 4-bushel corn-sack will hold one single set of harness and two sets of saddlery). Each sack will be marked in such a manner as will enable its contents to be easily identified on disembarkation.

140. Two sets of saddlery will be packed in the 4-bushel corn-sack in the following manner: Detach numnah and stirrup-irons; fold numnah in four, and place it in hollow of seat between pommel and cantle; wrap surcingle and strapping round; lower the saddle-front arch downwards into sack; pack stirrup-irons and bridle complete into saddle, together with traces in the case of R.A. and A.S.C. saddlery; place blanket on top.

The second set will be packed in a similar manner, except that the saddle-seat will be on opposite side of sack to first one.

141. Stable necessities (including nose-bags, corn-sacks, and corn-bags) will be supplied in the proportions laid down in the appendices for all horses the property of the public. Officers entitled to the free issue of one or more public horses, but permitted under regulations to provide their own horses for military duty in lieu, may also be supplied with the foregoing articles for each horse as provided. For hired horses when employed on the public service there may be issued one horse-brush and one curry-comb for every two horses, one horse-rubber, and one nose-bag.

142. In the event of stable necessities becoming unserviceable before the expiration of the period of duration prescribed for them they must be replaced at the expense of the troops.

143. Where issue of saddle-panels are authorized they are, as a rule, issued stuffed, but should it be advisable at any time to issue empty cases they will be converted into panels by the regimental artificers without charge, and 2 lb. of horsehair will be supplied for stuffing each pair.

144. The following proportions of hair and flock in addition will be issued with each pair of new stuffed panels authorized in para. 143: Panels, luggage,  $\frac{1}{2}$  lb. horsehair; panels, officers' Yeomanry pattern,  $\frac{1}{2}$  lb. flock; panels, pack-saddlery,  $1\frac{1}{2}$  lb. horsehair.

SECTION VII.—HORSESHOES.

*General Instructions for Supply of Shoes and Nails.*

145. Shoes and nails will be demanded quarterly as follows:—

Shoes: Mounted Rifles, Field Artillery, Field Engineers, A.S.C., Military Mounted Police.—Not more at any one time than three sets for 50 per cent. of the horses on the strength of the unit.

Nails: All units.—Not more at any one time than three sets for each horse on strength of unit, plus (as spare) 10 per cent. of the number demanded as sets.

146. These numbers are regarded as normally sufficient for three months, and no additional issues will be made without a certificate from the Veterinary Officer, countersigned by the Commanding Officer, explaining the circumstances which render the additional supplies necessary.

147. A spare set of shoes ready fitted for immediate use, and with the proper complement of nails, will be held by units, for every public horse. These shoes will be used every quarter and replaced by new ones.

148. Horses supplied free to officers entitled to them under the Allowance Regulations, and used solely for military purposes, will be shod at the public expense.

149. All horses the property of the public for which a hiring charge is paid by officers under the provisions of the Allowance Regulations, and all horses the private property of officers, must be shod at the officer's expense.

150. Monthly returns will be rendered by farriers in permanent camps to Camp Quartermasters through their Officer Commanding, and other camps to O.C. unit, in order that the necessary credit may be given in the accounts of the Command Paymaster, for the number of officers' horses shod under the provisions of the preceding paragraph.

SECTION VIII.—CAMP EQUIPMENT.

151. The proportions of camp equipment for manœuvres and in standing camps are contained in Appendix 7. The scale for standing camps will guide issues to troops placed under canvas for any purpose other than manœuvres.

152. Indents for camp equipment will be prepared by units or individuals to whom issues are authorized by regulations, and transmitted to the Ordnance Officer of the district in which the encampment is to take place.

153. Officers authorized to indent for camp equipment will ensure that the whole of the information required by the forms is fully detailed upon them, that the quantities of equipment included are in accord with the authorized scales for the number of officers and men to be in camp, and that the indents are transmitted in ample time to allow the Ordnance Officer to arrange for delivery of the equipment by the date desired.

154. Camp equipment will not be brought on charge in Equipment Ledgers.

155. All issues for temporary use of units, which will be regarded as a temporary loan, will be accounted for in book G 59 by the Commanding Officer of the unit, or the individual officer to whom the issue is made.

156. At the termination of the encampment the accounts, with the whole of their supporting vouchers, will be transmitted to the Ordnance Officer of the district in which the issues were made, irrespective of the locality of the Ordnance depot to which the stores have been returned.

157. Ammunition received or expended during periods of encampment will not be entered in camp equipment accounts.

158. Charges for deficient camp equipment will be assessed in accordance with the instructions contained in paras. 161 and 162, except that a reduction from full Vocabulary rates will only be made upon the certificate of the Ordnance Officer who made the issue, that the rates charged are the actual or fair proportionate value of the articles deficient.

For adjustment of charges see Regulations, Army Ordnance Department, and paras. 82, 164, Regulations, Camp and Barrack Services.

159. When the O.C. District finds it necessary to increase the regulated proportions of stores supplied in camp he will proceed as directed in para. 6 of these regulations.

160. In all issues for camps, manœuvres, or flying columns the G.O.C. may reduce the proportions in view of the requirements of the particular service and the strength of the troops and companies, and so diminish the weights to be transported.

161. Prior to leaving the camp, or at the termination of the service, accounting officers will ensure that all the articles taken on charge are duly accounted for on G 59 as either returned into store or deficient. (See para. 166, Regulations, Camp and Barrack Services.)

162. Any deficiencies will be charged against the unit or individual officer to whom the equipment has been issued, except in the case of wooden tent-pins, of which 5 per cent. may be written off charge as expended by fair wear, as laid down in Regulations, Camp and Barrack Services.

163. In the event of lost stores being subsequently found, the procedure laid down in para. 83 will be followed.

164. Wood bottoms, or circular tents for officers and men, or for marquees used for hospital purposes, will be issued when, owing to the dampness of the ground or to other causes, their use is certified to be necessary by the Director of Medical Services. They will not be supplied for the store, office, or workshop tents of units.

165. To prevent the injury caused by damp and mildew, all tents, blankets, nosebags, canvas and leather buckets, and other canvas, linen, cotton, woollen, or leather articles which have become wet while in use will be thoroughly dried and cleaned as far as possible by the troops before being returned into store.

166. The D. of E. and O.S. will bring to the notice of the O.C. District any instance in which the camp equipment is not returned into store in a proper state, due allowance being made for fair wear-and-tear.

167. In case of nails or nail-holes being found in tent-poles, a charge of 6d. will be made for each hole. No marking of any kind is allowed to be made on tents or other articles. These cases will be dealt with by the G.O.C. as a disciplinary matter.

#### SECTION IX.—SIGNALLING AND RANGE-FINDING EQUIPMENT.

##### *A. Signalling Equipment.*

168. Supplies will be issued in accordance with Appendices 8 and 9.

##### *B. Field Range-finders.*

169. Field range-finders will be supplied as shown in the several sections of Equipment Regulations.

Instructions for the repair of these instruments will be found in Appendix 10.

##### *C. Inspection of Telescopes and Binoculars.*

170. Telescopes and binoculars held on charge for signalling and reconnaissance work under Equipment Regulations, Appendix 11, will be inspected annually by Instructors in Musketry or by Signalling Officers.

171. The report of inspection is to be made for the information of the D. of E. & O.S., and no reference need be made to the G.O.C. unless the inspection shows that equipments appear to be defective in design, in which case proposals to remedy defects will be submitted in the usual way.

#### SECTION X.—ARMOURERS, ARTIFICERS, AND WORKSHOP TOOLS.

172. Armourers' boxes, with tools and materials detailed in Appendix 29, will be supplied to permanent camps and Ordnance depots to which Armourers are attached.

173. They will be held—by permanent camps, on Equipment Ledger charge; by Ordnance depots, on charge in Articles-in-use Ledgers. When worn out by fair wear-and-tear, or expended in the repair of service arms or bicycles, they will be replaced at the public expense.

174. Should an armourer require for service purposes tools not included in this set he must, as far as possible, make or improvise them locally.

175. Material for such small services will usually be available in workshops, but failing that source of supply an indent for necessary material, accompanied by an explanation of the circumstances under which it is required, should be submitted to the O.O. of the district.

#### SECTION XI.—MISCELLANEOUS STORES.

176. One foot of wick will be issued by the Ordnance Department with each oil-burning lamp or lantern, except those issued for barrack services.

177. Slings, horse, sea transport, for the instruction of troops in slinging horses for embarkation, will be held on charge at Ordnance depots in districts. The distribution of these slings will be left to the O.C. District.

178. Consumable stores for veterinary purposes will be issued on the indent of the A.D. of Veterinary Services. The issue voucher upon which they are charged will be signed by the Veterinary Officer.

##### *Bicycles.*

179. Government bicycles are only to be used on military duty or service connected with military requirements. O.C. District will ensure that bicycles are at all times maintained in a serviceable and complete condition.

Material for cleaning and browning bicycles; see Appendix 12.

180. In order to fix the responsibility for loss or damage, transfers of machines between individuals will be witnessed by an officer, who will furnish a report to Ordnance Officer of district giving number of bicycle so transferred and name of transferee.

Should he fail to immediately report any loss or damage he will be liable for any charges that may ensue.

181. Tools for repair of bicycles (Appendix 29, Tables 4 and 5) will be held at Ordnance depots. Material for repair of bicycles: See Appendix 13.

#### *Mechanical Transport.*

182. Outfits and consumable material for the care and preservation of mechanical transport vehicles are detailed in materials for the repair and maintenance of mechanical transport vehicles, and A.S.C. workshop equipment enumerated in the priced Vocabulary of Stores will be demanded in such quantities as may be necessary by O.C. mechanical transport, quarterly requisitions being rendered. (*Vide* Appendix 14.)

183. The stores demanded will be limited to the actual estimated requirements for a period of three months, and any unnecessary accumulation will be reported by the D. of E. & O.S.

184. Instructions as to care and maintenance: See Appendix 15.

#### SECTION XII.—STORES FOR THE INSTRUCTION OF TROOPS IN MILITARY ENGINEERING.

185. Tools and stores for the instruction of units in military engineering will be supplied on indent in proportions as laid down in training-manuals.

186. The whole of the stores will, upon receipt, be brought upon Equipment Ledger charge by the unit. Quantities expended in training will be written off by expense voucher upon the certificate of the C.O. that the expenditure has actually taken place. Any unexpended balance remaining at the end of the training season will, except in the case of sand-bags, be returned to the nearest Ordnance depot. Sand-bags may be accumulated up to but not exceeding treble the quantity allowed as the annual supply. The quantity in hand will be shown on the annual indent submitted to the Ordnance Officer of the district. All articles returned to store must be thoroughly cleaned by unit by which they have been used for instruction, and metal portion of articles greased.

#### SECTION XIII.—MARKING OF EQUIPMENT.

##### *A. General Instructions.*

187. Stamps are supplied to the various services requiring them for marking arms, accoutrements, harness, and saddlery. The adoption of an unauthorized method of marking, or the employment of stamps differing from the standard patterns, will render a unit liable to charges for damages.

188. With the exception of articles of equipment for man and horse, stores issued for the service of the troops are not to receive any indelible corps marks which would render them unfit for reissue. Should it be found, on such articles being returned into store, that they have been so defaced, the cost of the articles will be charged against the unit for whose use they were issued.

189. Articles of equipment supplied from time to time for temporary purposes will not receive unit marks, with the exception of extra service accoutrements supplied to units in excess of their establishment.

190. The expense of marking equipment and stores, including labour and paint, will be borne by the maintenance grant.

##### *B. Marking Artillery Stores.*

191. All side-arms, handspikes, levers, as well as the handles of all intrenching-tools, and other articles required for manual labour, will be left unpainted. When it is necessary to mark these articles they will be lettered in paint with the distinguishing marks of the unit to which they respectively belong.

192. The marks and numbers on stores of all natures, and every kind of projectile and fuse, on guns and artillery carriages, as also on all carriages forming the equipment of units, will be noted in all reports relating to the repair, alteration, and condemnation of such stores, in order that the date of manufacture may be readily ascertained.

##### *C. Marking Arms.*

193. All arms will be issued to the troops marked on body of the arm on short rifles, on tang of heel-plate on long rifles, with number of arm and year of issue—*i.e.*, 1/1916 *et seq.* Care should be taken that the marks on the arms are not too deeply stamped. Arms issued to replace others condemned will be given the numbers of the articles replaced.

##### *D. Marking Accoutrements.*

194. All accoutrements will be marked by the Ordnance Department before issue with the month and last two figures of the year of issue, beneath the "N.Z. Ordnance Department," thus "200/3/01," &c. When received by the troops they will be further marked before being taken into use, to correspond with the arms. Upon return to store of part-worn accoutrements the original marking will be obliterated by the Ordnance Department, and on reissue to the troops such articles will be remarked with the date of reissue.

195. Accoutrements will be marked as follows:—

Buff and web accoutrements, haversacks, and mess-tin covers:  $\frac{1}{4}$  in. copper inlaid stamps and black marking-paint,  $\frac{1}{4}$  in. brass or metal stamps being used for regimental terminals.

Brown or black accoutrements:  $\frac{1}{4}$  in. steel stamps (care being taken that the leather is not cut, but merely indented).

Enamelled iron water-bottle covers:  $\frac{1}{4}$  in. copper inlaid stamps and "ink marking woollens" in centre of that portion of cover not exposed to view when bottle is worn. (Bottles should be worn with buff strip or chain securing cork towards rear).

Mess-tins:  $\frac{1}{4}$  in. steel stamps. Tins should be well supported by a smooth surface during process of marking. Judgment must be used in delivering blows so as not to cut the metal through.

Branding accoutrements is strictly prohibited.

In all cases when marking black and brown accoutrements the stoutest parts should be chosen. Bandoliers should be marked on the bodies, and the pockets on the back loops.

196. The whistles of Infantry will be marked on one side of the acorn with the Territorial letters, and on the other side with the number of the whistle, from 1 upwards. The battalion numeral will be dispensed with. The whistles of sergeants of R.E. will be marked in the same manner as their arms. For the purpose of marking, the steel stamps for metal in possession of armourers for marking small-arms will be employed.

197. Stamps will not be supplied specially to Mounted services for marking accoutrements, some of the stamps issued for marking the saddlery and harness being suitable for this purpose also.

#### E. Marking Musical Instruments.

198. Musical instruments will be marked in consecutive numbers, from 1 upwards, in the manner approved for marking arms.

The service will be performed in the following manner: Bugles, drums, and trumpets will be marked with the stamps in possession of units for marking metal articles.

#### F. Marking Harness and Saddlery.

199. All new articles of harness and saddlery of  $\frac{3}{4}$  in. or more in width will be marked by the Ordnance Department, before issue to the troops, with the month and last two figures of the year of issue, beneath the N.Z. and the broad arrow, thus: 2/16, 3/16, &c. Articles that have been in use will, when issued for a further period of wear, be again marked by the Ordnance Department with the month and year of issue as above, and with the letter "W," showing that they have been in wear before, the date being stamped close under the part-worn mark.

200. Harness and saddlery when received by the troops for use will be stamped with the distinguishing marks of the corps. The sets will be numbered consecutively, harness and saddlery being given different series of numbers. As articles common to both harness and saddlery will be distinguished only by the position of the set-number, care must be taken to place the number correctly.

In batteries of Artillery the numbering will be by subsections, and in the M.R. by squadrons, as in the specimens given below.

In other units there will be, for the entire establishment, one series of numbers for sets of universal saddlery, another for sets of officers' saddlery, and a third for single sets of harness.

The numbers will be placed on saddlery vertically under the corps marks, and on harness in the same line with and following corps or subsectional marks, as in the specimens given below.

201. In every case the head and neck-collars will be marked with the number of the horse instead of that of the set.

#### N.Z. Field Artillery:—

N.Z.F.A.	..	..	New Zealand Field Artillery.
A	..	..	A Battery, N.Z.F.A.
B	..	..	Subsection.
1	..	..	No. 1 set saddlery.

#### Mounted Rifles:—

N.Z.M.R.	..	..	New Zealand Mounted Rifles.
1 N.Z.M.R.	..	..	1st New Zealand Mounted Rifles.
A	..	..	Squadron.
2	..	..	No. 2 set saddlery.

#### Engineers:—

1 S. Company N.Z.E.	..	..	1st Signal Company, N.Z. Engineers.
4	..	..	No. 4 set of harness.
1 S. Company N.Z.E.	..	..	1st Signal Company, N.Z. Engineers.
0.2	..	..	No. 2 set officers' saddlery.
1 F. Company N.Z.E.	..	..	1st Field Company, N.Z. Engineers.
1	..	..	No. 1 set universal saddlery.

#### N.Z.A.S.C.:—

10 N.Z.A.S.C.	..	..	No. 10 Company, N.Z.A.S.C.
4	..	..	No. 4 set single harness.
10 N.Z.A.S.C.	..	..	No. 10 Company, N.Z.A.S.C.
2	..	..	No. 2 set saddlery.

202. The leather-work will be marked with  $\frac{3}{16}$  in. steel stamps.

203. The ironwork will be worked with  $\frac{1}{8}$  in. steel stamps for metal—the port-mouth-bit in front of the port, the bridoon bit on top of the mouthpiece, and the stirrup-irons on the bottom.

204. If, on a transfer of harness or saddlery, any of the sets received are found to bear numbers already on the harness or saddlery on charge the articles will be renumbered either with the numbers of sets transferred from charge or as additions to the establishment.

205. Sheepskins, nosebags, corn-sacks, and corn-bags will be marked with marking-ink; saddle-blankets and horse-rugs with "ink stamping woollens." Stamps, copper, inlaid,  $\frac{1}{16}$  in., will be used, and the marking will be placed immediately under the Ordnance Department store mark.

#### G. Marking Vehicles and Bicycles.

206. Instructions for marking vehicles and bicycles are given in Appendix 27.  
SECTION XIV—REPAIR AND PRESERVATION OF EQUIPMENT.

##### A. General Instructions.

207. C.O.s will not allow or pay for the performance of any work connected with equipments or armaments for which there is no regulated provision, without previous authority obtained from the G.O.C.

208. Except when otherwise specified in these regulations, the repair and painting of all stores that can be performed by the regimental artificers will be executed by them as part of their training. The necessary tools and materials will be supplied by the public.

209. The following parts of vehicles will be kept free from paint and rust:—  
Gun-carriages, ammunition-wagons, and limbers: Bearing surfaces, working parts, metal hand-wheels, and the brass parts of gun-carriages which are frequently handled.

Other articles: Frictional surfaces and working parts of gears, end of poles and of axles, drag-washers, brake-wheels, and all brasswork.

In cleaning brass parts care is to be taken to avoid the use of coarse grinding-materials such as sand, emery, Bath brick, files, &c., which wear the surface.

210. Straps and other leatherwork on vehicles will be periodically dressed with dubbing.

211. The services of the regimental artificers will, when the duties of their own unit permit, and at the discretion of the G.O.C., be made generally available for performing any work which they may be called upon to execute within the limits of their trades and during ordinary hours, for other units or detachments unprovided with artificers, or requiring the assistance of additional artificers in exceptional circumstances.

212. Repairs which cannot be executed by the regimental artificers will be performed under the direction of the Ordnance Department.

213. When repairs to stores, including armament and artillery material other than those mentioned in para. 214, but exclusive of small-arms, cannot be carried out by unit, the C.O. will apply to the Ordnance Officer of the district stating what repairs are necessary, what procedure is recommended to effect the repairs, whether repairs are urgent, and date when completion is desirable.

214. Whenever any service in connection with the mountings, machinery, engines, or gear used exclusively by the R.A., R.E., and A.O.D. is beyond the resource of the corps or department named, application will be made to the G.O.C. for assistance.

215. Whenever repairs, painting, or other services involving the expenditure of working-pay, or payments to contractors, are required in connection with the equipment of a unit, an indent will be made by the C.O. on the Ordnance Office, stating the nature of the work required and the cost at which it could be carried out by military tradesmen receiving the authorized rates of working-pay or by local contract.

216. The officer making the indent will then be informed of the manner in which the service will be performed; and if it be decided to employ military tradesmen he will, on the completion of the service, certify on the original indent that the work has been efficiently carried out. The indent so certified will then be attached to the pay-list as a voucher in support of payment.

217. Materials supplied for the repair and preservation of equipment will not be sold, or exchanged, or used for any equipments but those for which they were demanded; nor will any purchase of materials by C.O.s be sanctioned by the G.O.C.

218. In order to regulate the expenditure of material for repair, books G. 77 will be carefully kept by the units concerned, the ledgers being balanced on the 31st May.

Stock will be taken every six months by an officer deputed by the C.O., and compared with the quantity received and the amount expended. The result will be reported to the C.O., who, if satisfied, will sign the store and shop books. Any deficiencies will be charged against the individuals responsible, and recovered on M. 19.

Book G. 77 will be examined once in two years by the D. of E. & O.S., or by officers deputed by him to act on his behalf, not with a view of detailed audit being made, but with a view of determining whether the regulations have been properly carried out.

The unit Quartermaster will examine book G. 77 weekly, and satisfy himself that the materials have been expended in work on the public service.

219. Materials supplied for repairing equipment will not, except under special authority, be used for the manufacture of new articles. Materials supplied for repairs will be struck off charge by conversion voucher. (See Appendix 25.)

220. In making indents for materials for repairing equipment, C.O.s will certify on the indents that credit has been given therein for any material remaining on hand, and that the quantities demanded, together with these, do not exceed the authorized proportion.

#### *B. Arms, Accoutrements, Musical Instruments, Harness and Saddlery.*

221. Armourers (W.O.s and N.C.O.s) of the Armourer Section O.C. are posted to the districts for duty at Ordnance depots or for employment as circuit armourers. These armourers are under the immediate orders of the Ordnance Officer of the district in which they are stationed.

222. The stripping or removal of any part of an arm, except by an armourer, is strictly forbidden. Testing weapons of any kind in charge of troops is strictly forbidden. This does not apply to local firing tests for accuracy, authorized by the Musketry Regulations.

223. Should a C.O. doubt whether arms of any description under his charge are serviceable he will report the matter, stating the reasons for his opinion. The question will be dealt with by the D. of E. & O.S.

224. Oil and material for the preservation and cleaning of arms are supplied to all units in possession of arms, as laid down in Appendix 16.

225. When a unit requires components in excess of the authorized allowance the O.C. will furnish an explanation of the cause. The matter will be dealt with by the O.C. District under para. 6, who, in submitting the case, will take into account whether the annual allowance has been drawn periodically in full. If the components are required in connection with a viewer's inspection the Ordnance Officer of the district will enumerate the excess components on his inspection report to the D. of E. & O.S., and will also state, when necessary, if there appears to be reason for charging the unit with the cost of such components.

226. Units will have their arms and bicycles inspected annually by a circuit armourer detailed by the Ordnance Officer of the district. This arrangement does not relieve C.O.s from responsibility as to the care and repair of the arms and bicycles, and arrangements will be made by them for such general supervision of the work of the armourers as will ensure its being properly carried out. They will also arrange for the bicycles on charge to be inspected weekly by an officer.

227. Armourers will be supplied in advance by the Ordnance Officer with the components, including "barrels with bodies," estimated to be required for repairing the various descriptions of arms. Such supplies will be written off charge in the Ordnance accounts by expense voucher. On completion of the tour the circuit armourer will produce lists of the components expended on the arms of each unit, supported by the certificate of the C.O. that he is satisfied that the quantities affecting his arms are correct.

228. The Ordnance Officer, after satisfying himself that the components, if any, brought back by the circuit armourers are the correct balance, will bring them on charge by certificate voucher.

229. If on examination of the arms the armourer should meet with an arm which he considers unserviceable, or which may require more extensive repairs than he is able to execute on the spot, he will report the circumstance to the O.C., who will communicate with the Ordnance Officer with a view to the arm being returned to store.

230. The circuit armourer will forward a report on form G 22, showing the result of his inspection, to the Ordnance Officer, and a copy of this report will be forwarded to the O.C. the unit concerned.

231. When components expended in the repair of the arms of a unit are in excess of those allowed by the scale in Appendices 17 and 18, the Ordnance Officer will call on the O.C. the unit for an explanation, and the matter will then be dealt with in the manner indicated in para. 225.

232. The circuit of such armourers and the dates of their visit to units in circuit will be arranged by Ordnance Officer in conjunction with A.Q.M.G., and published in District Orders in ample time to admit of concentration of arms by dates arranged for visit.

233. The arms in possession of units will be concentrated as follows: Units in towns, at Headquarters; units in country districts, at Headquarters; units in sparsely populated districts, at headquarters of companies.

234. In cases of injury to barrels, the barrel and body together will be exchanged, but the price of the barrel or cost of repair only will be charged, provided the body is in a serviceable condition.

235. After every inspection of arms, machine guns, and bicycles by viewers of the Inspection Department, copies of the viewer's rolls and reports, showing the repairs, &c., necessary to put the arms, machine guns, and bicycles in a serviceable condition, will be forwarded to the O.C. District.

236. No charge will be made against the troops for browning their arms, when the service is rendered necessary by fair wear.

237. Barrels of rifles found by circuit armourers at their inspection to be rusty will be cleaned by armourer and marked with the letter "R." The mark will in each case be placed on the "knox form," so that the barrels may not again be reported for rust at subsequent inspections, except when allowed to become so bad as to necessitate cleaning in the Ordnance depot.

238. Barrels of rifles and carbines found by circuit armourers to be cord-worn will, if they are not thereby rendered unserviceable, be marked "W"; those returned to Ordnance depots for store or repair and found in similar condition will be marked "W." No charge will be made against the troops at subsequent inspections on account of cord-wear.

The mark will be placed on the left side of the "knox form," at the rear end of the reinforce if the wear is at the breech, and at the front end if the wear is at the muzzle.

239. When brown-leather accoutrements require to be cleansed from dust and dirt they will be washed with yellow bar soap and water, and dried in the shade. Two bars of soap per month per company will be found ample.

240. To preserve and polish brown-leather accoutrements a dubbing composed of: 10 oz. of clean mutton tallow, 6 oz. of pure beeswax, and 3 drams of camphor, melted and mixed over a slow fire, will be used. These ingredients will make 1 lb. of the composition, which should be rubbed on to the grain or smooth side of the accoutrements with a piece of coarse cloth, using as much friction as possible to enable the fatty substance to penetrate. A portion of the wax will then remain on the surface, and dry rubbing will always bring on a polish. An application of this composition once a month will, in ordinary circumstances, be found sufficient, and an allowance of 2 oz. per man per month will be found ample; but whenever it is necessary to clean the accoutrements with soap and water an application of the composition should always be made before the leather is quite dry. When accoutrements get stained with mildew or perspiration, or otherwise, a slight application of lime-juice will remove the stains.

#### *C. Harness and Saddlery.*

241. The authorized proportions of materials for repair of harness and saddlery, as detailed in Appendix 28, are based upon the average quantities required for the repair of articles which have been some years in use. With new equipments the same amount of materials will not be required, and in making indents C.O.s will demand only what is actually requisite. Needles for the repair of harness and saddlery may be drawn annually, at the rate of one sewing-needle to five sets of saddlery or single sets of harness, and one harness-needle to four sets of saddlery or single sets of harness.

242. Repairs to saddle-blankets carried out by regimental saddlers should be done with grey worsted and with a herring-bone stitch, about five to the inch. The edges should be drawn together and not overlapped. The stitching in all cases should be so executed that the rent or patch, when repaired, may lie flat.

Torn blankets can generally be repaired without patching; but when material is used it should, as far as possible, match the blanket.

243. All cuttings from the undermentioned materials supplied for repairing harness and saddlery, as well as the unserviceable parts and material named, will be returned to store as opportunity offers:—



- Cuttings from—
- Canvas—Flaps, saddle.
- Cloth—Hair, old, horse.
- Leather—Junk, old.
- Numnahs—Seats, saddle.
- Serge.
- Sheep-skins.

- Metal-work—
- Brass bosses—Bits, cruppers, and breastplates.
- Copper rivets, saddles, universal.
- Iron from saddles generally.

244. Detailed instructions for the care and preservation of the leather of harness and saddlery are contained in Appendix 19.

Materials for preservation of harness and saddlery: See Appendix 26.

*D. Surveying, Drawing, and other Delicate Instruments.*

245. Surveying, mathematical, drawing, telegraph and telephone instruments are not to be smeared with oil or mineral jelly. These instruments are mainly constructed of gun-metal or brass, and are lacquered or otherwise protected; it is therefore only necessary to wipe them over carefully with a slightly oiled soft rag, finally removing all oil. No great amount of force should be used.

SECTION XV.—DURATION OF EQUIPMENT.

246. Under ordinary circumstances of continuous use, equipment should remain serviceable for the following periods. The period of duration for articles issued part-worn is to be taken as half that for new articles.

Description.	Duration in Years.	Remarks.
All articles except those detailed below and those stores which are issued periodically	12	
<i>Weedon Section.</i>		
Scabbards—Sword-bayonet .. ..	8	
Sword, Cavalry .. ..	10	
Bottles, oil .. ..	8	
Pull-throughs—Cords .. ..	1	In all cases.
Weights .. ..	8	
Reflectors, mirror, S.A., .303 in. ..	8	
Tubes, aiming .. ..	5	
Flags, lance .. ..	2	
Stamps, steel, for metal and for wood—		
Figures, $\frac{5}{8}$ in. .. ..	5	
Letters, $\frac{5}{8}$ in. .. ..	10	
Dash lines, $\frac{1}{2}$ in. .. ..	10	
Scabbards, sword, Staff sergeants "Sam Browne"	8	
<i>Section No. 1a.</i>		
Aprons, leg .. ..	10	
Bags, ammunition, canvas .. ..	4	
Belts—Pouch, buff, G.S. .. ..	8	
Waist, brown, sword, "Sam Browne"	7	
Waist, buff, M.S. .. ..	9	
Bottles, water, enamelled .. ..	..	Replaced when condemned by Board of Survey.
Carriers, water-bottle, with shoulder-strap ..	6	
Cases, brown, pistol .. ..	9	
Covers, mess-tin, drab, duck .. ..	3	
Frogs—Black, bayonet, G.S. .. ..	8*	
Brown, wire-cutter .. ..	10	
Brown or buff, bayonet, G.S. .. ..	12†	
Haversacks—G.S. .. ..	6	
Other services .. ..	9	
Knots, sword, all patterns .. ..	8	
Lanyards—Pistol, khaki .. ..	3	
Whistle .. ..	3	
Pouches—		
Ammunition—Black .. ..	7	
Brown, pistol .. ..	10	
Buff, rifle, 20 rounds in chargers	10	
Writing-materials .. ..	7	
Slings—Carbine or rifle, buff .. ..	8	
Rifle, web .. ..	4	
Straps—Black, water-bottle .. ..	4	
Brown or buff, water-bottle .. ..	5	
Web, water-bottle .. ..	3	
Mess-tin, Mounted services .. ..	6	
Tins, mess .. ..	3	
Web equipment pattern—		
Belts, waist .. ..	9	
Braces, with buckle .. ..	9	
Carriers—Cartridges, 75 rounds .. ..	9	
Intrenching-tool—Head .. ..	5	
Helve .. ..	9	
Water-bottle .. ..	5	
Frogs .. ..	5	
Haversacks .. ..	9	
Packs .. ..	9	
Straps, supporting .. ..	9	

\* Sixteen years for units in possession of Mills web equipment.

† Twenty years for units in possession of Mills web equipment.

Description.	Duration in Years.	Remarks.
<b>Bandolier equipment—</b>		
Bandoliers .. .. .	6	
Belts, waist .. .. .	6	
Carriers, greatcoat .. .. .	3	
Covers, mess-tin, D.S. .. .. .	4	
Pockets, cartridge .. .. .	6	
Straps, greatcoat .. .. .	6	
<b>Valise equipment, pattern 1888 or 1882—</b>		
Belts, waist, G.S. .. .. .	16	
Braces .. .. .	12	
Pouches, ammunition .. .. .	10	
Straps—Greatcoat .. .. .	9	
Mess-tin .. .. .	9	
<i>Section No. 1b.</i>		
Bugles .. .. .	6	Mounted units.
	8	Dismounted units.
Cases—Drum .. .. .	10	
Flute or piccolo .. .. .	6	
Strings, bugle and trumpet .. .. .	6	
Trumpets .. .. .	6	Mounted units.
	8	Dismounted units.
<i>Section No. 2a.</i>		
Ropes—Head, hemp, with ring .. .. .	6	
Heel .. .. .	6	
Sacks, corn .. .. .	7	
<i>Section No. 2b.</i>		
Implements, intrenching, pattern 1908 .. .. .	7	
<i>Section No. 5a.</i>		
Harness, pole, draught, G.S. .. .. .	..	
Attachments, hame supporting pole-bar .. .. .	5	
Breechings .. .. .	7	
Cases, horseshoe .. .. .	7	
Chains, hame, with ring .. .. .	6	
Collars—Breast .. .. .	6	
Neck .. .. .	7	
Cruppers (and dockpieces) .. .. .	7	
Hames .. .. .	16	
Leggings, drivers .. .. .	7	
Neck-pieces, pole-bar .. .. .	5	
Pads, collar .. .. .	3	
Panels, numnah, drivers .. .. .	7	
Pieces, buckling .. .. .	7	
Reins—Bearing .. .. .	5	
Driving, long .. .. .	6	
Leading .. .. .	5	
Saddles, S.A. drivers .. .. .	..	See Section 6.
Straps—Hip, long, wheel .. .. .	4	
Kicking .. .. .	10	
All other kinds .. .. .	5	
Traces—Chain, hame attachment .. .. .	6	
Rope (or wire) .. .. .	7	
Tugs—Hip or loin straps .. .. .	7	
Neckpiece .. .. .	5	
Whips, drivers and driving .. .. .	3	
<i>Harness, Staff Draught.</i>		
Bands, back .. .. .	7	
Girths, luggage .. .. .	7	
Numnahs, felt, luggage .. .. .	3	
Pannels, numnah, luggage .. .. .	7	
Reins, side .. .. .	5	
Straps, girth .. .. .	5	
Tugs, backband .. .. .	7	
<i>Harness, A.S.C.</i>		
Collars, head .. .. .	4	
Pads, back .. .. .	6	
Traces, converted .. .. .	7	
Attachments, releasable, with ring .. .. .	5	
Chains, with hook and link .. .. .	5	
Pieces, leather .. .. .	5	
Ropes .. .. .	2	
All other articles as for corresponding parts of P.D.G.S.		
<i>Harness, G.S.O.P.</i>		
Hooks, pole-bar .. .. .	10	
Traces, hooks .. .. .	5	
All other articles as for corresponding parts of P.D.G.S. harness		

Description.	Duration in Years.	Remarks.
<i>Miscellaneous Articles.</i>		
Bags—Corn .. .. .	8	
Nose, G.S. .. .. .	3	
Bridles, snaffle .. .. .	3	
Scissors, trimming .. .. .	4	
Straps—All kinds except kicking .. .. .	5	
Kicking .. .. .	10	
Whips—Driving .. .. .	3	
Hand .. .. .	1	
Longeing .. .. .	2	
Covers, horse .. .. .	4	
<i>Section No. 6a.—Saddlery, Universal.</i>		
Bits, portmouth, reversible heads, bridle .. .. .	5	
Blankets, saddle .. .. .	4	
Breastpieces .. .. .	7	
Breastplates .. .. .	5	
Cases, horseshoe .. .. .	7	
Collars, head .. .. .	4	
Cruppers, saddlery .. .. .	7	
Frogs, sword, saddle .. .. .	5	
Girths—Cord .. .. .	3	
Leather, pattern 1884 .. .. .	7	
Leathers, stirrup .. .. .	5	
Martingale, breastplate .. .. .	5	
Numnahs .. .. .	3	
Panels, numnah .. .. .	8	
Protectors, cape or cloak .. .. .	8	
Reins, bit .. .. .	5	
Saddles, steel arch, flaps, seats, and V girth attachments .. .. .	6	
Stirrups .. .. .	16	
Straps, all kinds .. .. .	5	
Surcingle .. .. .	5	
Traces, saddlery, and tugs .. .. .	7	
Wallets .. .. .	7	
<i>Section No. 8c.</i>		
Flags, signal—3 ft. square .. .. .	2	
2 ft. square .. .. .	1½	
Poles—5 ft. 6 in. .. .. .	4	
3 ft. 6 in. .. .. .	3	
<i>Section No. 11.</i>		
Brushes, water, carriage .. .. .	1	
<i>Section No. 12.</i>		
Matchets .. .. .	6	
<i>Section No. 15b.</i>		
Binoculars (and cases) .. .. .	7	When in constant use.
Telescopes (and cases) .. .. .	7	
<i>Section No. 21b.</i>		
Bicycles .. .. .	6	When in constant use.

247. The periods of duration laid down in the preceding paragraph are not intended in any way to govern the time for exchanging the stores. (See para. 29.)

248. In Territorial units where equipment is not in constant use add 50 per cent. on to the period of duration laid down.

Should it appear that articles are becoming unserviceable before they have been in use the prescribed periods, inquiry should be made into the cause thereof. In the absence of sufficient reason to explain the premature unserviceability of stores, the troops are liable to be charged under para. 89.

249. On active service the periods of duration are liable to vary according to the nature of the service and the climate, but the prescribed periods will be adhered to as far as possible.

SECTION XVI.—DUTIES OF ARMOURERS.

250. Armourers will perform the following duties :—

- (a.) Execute all repairs required to the arms (including lances, pistols, swords, and scabbards) in possession of their respective units, and perform any other work within their capabilities.
- (b.) Inspect annually all rifles, pistols, sword-bayonets, and scabbards in use, and all bicycles on charge.  
Examine and clean all arms and bicycles issued from store before they are placed in the hands of the troops, removing any excess of lubricant from the barrels and actions of the arms.
- (c.) Within working-hours, the services of armourers will be generally available for the performance of any of the above duties for other units or departments without extra remuneration.
- (d.) Execute repairs necessitated by carelessness or wilful damage, without addition to pay.

251. Armourers will, in addition to the duties laid down in para. 250, execute any trifling repairs, and also such other work within their capabilities as, under special authority, they may be called upon to perform.

252. It is the duty of an armourer not merely to carry out any particular repair to an arm for which it may have been sent to him, but to ensure that the arm is serviceable in every respect before it leaves his hands.

SECTION XVII.—NEW ZEALAND VETERINARY CORPS.

253. The work of this corps will be carried out under two headings — (1) Veterinary Hospital; (2) Veterinary Mobile Section.

(1.) A veterinary hospital will be established at all camps of a permanent formation where the number of animals upon the strength is 600 and over. The schedule covering their equipment will be Schedule No. 1 (Appendix 20).

(2.) A Veterinary Mobile Section will attend all camps where 100 to 300 horses are in camp. The schedule for this will be No. 2 (Appendix 21).

(3.) For camps having 300 to 600 horses two Veterinary Mobile Sections will attend, and act under the Senior Veterinary Officer.

(4.) For camps having under 100 horses the Director of Veterinary Services will decide proportions of No. 2 Schedule required.

(5.) Tools for farriers: See Appendices 22 and 23.

APPENDICES.

APPENDIX 1

(Referred to in para. 7).

NEW ZEALAND MILITARY FORCES.

[Form G 10.

Quarterly Indent.

Requisitioning Officer's No.: A.S.C., Auckland, 2/17.

Numbers on which requisition based: Harness—10 sets double, 10 sets saddling, 100 rifles.

REQUISITION for the undermentioned articles for the use of A.S.C. Cadre, Auckland, 1st January, 1917.

I hereby certify that the stores demanded on this requisition ( sheets) are actually required for the purpose shown in the "Remarks" column, and that the quantity shown as on hand is correct.

[Signature and official designation.]

Recommended.

Approved.

.....  
O.C. District or Camp.

.....  
Quartermaster-General.

[Date.]

Remarks.	Description of Article.	On Hand.		Quantity or Number now required.	These columns for use in Defence Stores Office only.
		Serviceable.	Unserviceable.		
Quarterly supply ending 31/3/17	<i>Section 9a.</i>				
	Dubbing (lb.) .. ..	Nil	..	5½	
	Oil, whale (pints) .. ..	8	..	17	
	Soap—Soft (lb.) .. ..	..	..	18½	
	Yellow (lb.) .. ..	..	..	22½	
For cleaning arms ..	Mineral jelly (lb.) .. ..	..	..	1½	
	Oil, lubricating (gal.) .. ..	..	..	20¼	

APPENDIX 1A

(Referred to in para. 7).

NEW ZEALAND MILITARY FORCES.

[Form G 10.

Requisitioning officer's No.: 4/Wkto, 3/17.

Numbers on which requisition based: I.F.O., 6 officers; 1 W.O., 100 men.

REQUISITION for the undermentioned articles for the use of 4th Waikato Regiment, Cambridge, 1st January, 1917.

I hereby certify that the stores demanded on this requisition ( sheets) are actually required for the purpose shown in the "Remarks" column, and that the quantity shown as on hand is correct.

[Signature and official designation.]

Recommended.

Approved.

.....  
O.C. District or Camp.

.....  
Quartermaster-General.

[Date.]

APPENDIX 1A—continued.

Remarks.	Description of Article.	On Hand.		Quantity or Number now required.	These columns for use in Defence Stores Office only.
		Serviceable.	Unserviceable.		
Required for musketry camp, to be delivered at Cambridge Railway-station, 9 a.m., 16th instant, for a one-night camp	<i>Section 2a.</i>				
	Axes, felling, helved ..	..	..	1	
	Kettles, camp, oval, 12 qt. (50 per cent. extra required)	..	..	19	
	Racks, arm, tent ..	..	..	13	
	Screens, latrine—Large ..	..	..	1	
	Small ..	..	..	1	
	Tents, c.s.l., complete ..	..	..	20	
	<i>Section 12.</i>				
	Basins, washhand ..	..	..	49	
	Pails, I.G. ..	..	..	19	

APPENDIX 2

(Referred to in paras. 13-17, 75-76).

INSTRUCTIONS FOR KEEPING EQUIPMENT LEDGERS.

1. The ledgers will contain a record of all permanent equipment received or issued. They will be balanced up to the 31st May in each year, and will be forwarded with the vouchers in support of the Ordnance Officer of the district before the 1st July. The vouchers will be laid flat in Equipment Ledgers.

2. Copies will be kept of all Equipment Ledgers sent for examination. Should any queries arise on the examination of the ledgers, copies of such queries and of the replies thereto will be retained by the Accountant, who will correct his copy of the ledger accordingly.

3. When equipment is transferred from one accountant to another, stock will be taken by the Board referred to in para. 13 of these regulations. Any stores found to be surplus will be brought on ledger charge by certificate receipt voucher, which will be signed by the officers who sign the certificate referred to in paras. 13 and 17. Deficiencies will be struck off charge and dealt with as laid down in King's Regulations.

4. A balance will then be struck as directed in para. 15 of this appendix, which will show the total of each article of equipment for which the officer who takes over command is responsible.

5. The following certificate will then be furnished, and will accompany the equipment ledger when rendered for audit:—

“ We certify, in accordance with para. 13 of the Equipment Regulations, that on the transfer of the equipment of the \_\_\_\_\_ on the \_\_\_\_\_ day of \_\_\_\_\_, the whole, in full or in part, was inspected by us, and has been found to be properly appropriated in good condition, and to agree, in the quantities and numbers of the several articles actually in possession, with those shown in the Equipment Ledger.

“ President: .....

“ Members: .....

“ ....., Officer giving over Charge.

“ ....., Officer taking over Charge.

6. O.C. detachments referred to in para. 87 of these regulations will render equipment accounts in accordance with these regulations, so long as they remain independently detached.

7. When a detachment of Infantry is attached to a unit (as in Coast Defence) the equipment will be transferred by voucher to the O.C. the unit, but will be accounted for by him in a separate ledger.

8. Upon such a detachment returning to its own unit, or being transferred to another unit, the Detachment Ledger will be closed and rendered for audit, together with its vouchers, to the Ordnance Officer of the district.

9. Stores supplied in sets, or as complete articles, for which a single heading is provided in the printed Equipment Ledger, will be so accounted for: thus, chests with tools will be shown as “ Chests, tool, filled.” A certificate will be given at the end of the ledger by the C.O. that the sets and tool-chests are complete, and contain the articles that should be comprised in them as detailed in the regulations. When articles charged in detail are taken on in the Equipment Ledger as sets, reference will be given to the paragraph or table of the regulations which give the detail of the set. Articles drawn from the Ordnance Department to replace losses, &c., in these sets will be taken on charge in the ledger, and the corresponding articles paid for or returned to store will be written off under the same heading.

Transactions in complete parts of complete articles will be recorded in the ledgers in the same way (but see para. 77).

If the two transactions do not occur in the same period of account, explanatory cross-references will be given on each of the vouchers concerned.

10. All transactions of receipt and issue that should be recorded in the ledgers will be posted therein as soon as possible after they occur, and will be supported by vouchers.

11. Vouchers for stores issued are called “ issue vouchers,” and are posted on the right-hand or credit side. Vouchers for stores received are called “ receipt vouchers,” and are entered on the left-hand or debit side of the ledger.

12. Both receipt and issue vouchers will be filled in by the insertion of the total numbers only, in the column of the voucher headed "Total number or quantity," the columns S, R, U, and D being left for use of the A.O.D.

13. The ledger folios on which entries are made should invariably be recorded on the vouchers supporting the account in the column headed "Ledger folio."

14. Receipt vouchers and issue vouchers will be kept distinct from each other, arranged consecutively according to date, and numbered on the face of the voucher in two distinct series from 1 upwards for the whole period of the account. The total number of each series will be stated on the inside cover of the ledger.

15. The ledger is balanced by adding up the receipts on the left-hand side and the issues on the right-hand side of the ledger. The total issues are then brought over to the left-hand side and written immediately under the total receipts, the quantities left becoming the ledger balance or "remain." The "remain" when carried forward as the commencing line of the next account is called the "state."

16. In forwarding the Equipment Ledgers the O.C. will certify that it has been carefully checked by an officer appointed by him for that purpose, who will sign the ledger in evidence of such examination.

17. Officers will take care that ledgers and vouchers are not ticked or altered with coloured pencil or coloured ink, that no correspondence is carried on upon them, and that no erasures are made. No entries in black-lead pencil should be made, either in the ledgers or on the vouchers. Any necessary corrections will be made in black ink or indelible pencil, and will be duly initialled, in the case of vouchers by the person who signs the vouchers, and in the case of ledgers by the responsible accounting officer; but the original entries should remain legible.

18. In order to assist C.O.s in accounting for equipment distributed to detachments, form G 1 will be rendered monthly to the O.C., who will then compare the totals of the stores shown in these returns with the numbers or quantities shown in the Equipment Ledger.

19. The attention of equipment accountants is specially directed to the provisions in the regulations in regard to the following:—

Stores, &c., in excess of authorized proportions, para. 6.

Dispensing with stock-taking Board, para 17.

Indents and authority for issue, paras. 23, 24, 30.

Issues to units on repayment, paras. 24, 32, 33.

Condemned haversacks, mess-tins, and mess-tin covers, para. 47.

Vouchering of stores returned to the O.D., paras. 48, 49.

Accounting for fired ammunition-cases, paras. 57-60.

Condemnation of stores, paras. 64, 84.

Loss, injury, or destruction of stores or equipment, paras. 67, 82, 84.

Consumable articles and materials for repair, paras. 77, 217, 218.

Accounting for ammunition, paras. 79-80.

Stores condemned locally, paras. 46, 85.

Loss by desertion, para. 94.

Verification of list of official books, &c., 15, 103.

Stores for cleaning, preservation, and repair of mobilization equipment,

Appendices 13, 14, 17, 18, 26, 28.

Officers' saddlery,

Stores for instruction in field-training, para. 185.

#### ACCOUNTANTS AND LEDGER-KEEPERS.

##### *Qualifications.*

A master gunner should be appointed in each of the four Garrison Artillery districts. His duties are defined in section 8, Chapter 1, "Notes on Artillery Store Accounts and the Supervision of Royal Garrison Artillery Sub-districts, 1914."

Before appointment he will pass an examination based on the Ordnance College syllabus for that rank. He should be in possession of the equivalent to a first-class Army School certificate, and have at least five years' exemplary service.

Ledger-keepers to field batteries must have at least two years' service, and an exemplary character: they must have passed the Sixth Standard of education, and have an intimate knowledge of equipment and harness.

##### *Course of Instruction.*

A syllabus of subjects for courses of instruction for master gunners and ledger-keepers will be arranged by the Quartermaster-General, and the examination supervised by an authorized Ordnance Store accountant.

##### *Transfer of Accountants and Ledger-keepers.*

No change of accountants will be made in any unit without notification being made to the Director of Equipment and Ordnance Stores; and no master gunner or ledger-keeper will be appointed who has not passed the examination referred to in the preceding paragraph.

#### APPENDIX 3

(Referred to in paras. 24, 32, 33).

##### ARTICLES ISSUABLE ON PREPAYMENT.

Ammunition	..	..	..	For Rifle Clubs.
Arms	..	..	..	"
Officers' equipment	..	..	..	As laid down in Field Service Manual.
Badges of rank	..	..	..	All services.
Clothing	..	..	..	"
Furnishings	..	..	..	"
Decoration ribbons	..	..	..	"

## APPENDIX 4

(Referred to in paras. 23, 24, 30).

## INSTRUCTIONS GOVERNING RENDERING OF INDENTS FOR CLOTHING, STORES, AND EQUIPMENT OR ORDNANCE STORES.

1. All indents for clothing, stores, and equipment (except as hereunder mentioned) will be rendered to Ordnance Officers on the prescribed form G 10 (new). This form is printed on thin paper in pads. The indent will specify the purpose for which stores are demanded, and the regulations (if any) which govern their supply. Forms G 12, G 13, and G 25 will, however, continue to be used for demands for Territorial, Cadet, and officers' clothing respectively, and Form F and S I, for stationery.

2. Indents will be made out in triplicate by carbon process. The indenting officer retains one copy and forwards two copies to the Ordnance Officer. Three copies are, however, retained by the D. of E. & O.S. of all indents for stores under group A. (See attached schedule.)

3. Every indent must bear the indenting officer's distinctive number. This facilitates reference in any subsequent correspondence or inquiry *re* same.

4. The various stores demanded will be grouped together on separate sheets, under Vocabulary sections, according to the groups from which the issue will be made. A schedule showing the grouping of the articles and the distinctive group-letters is shown in Vocabulary.

Where an indent is made out on two or more separate sheets, one number only will be given to the indent, and the number of the sheets contained will be inserted in the space provided on the certificate.

5. The numbers on which the indent is based must be inserted in the columns provided for that purpose. Thus, where clothing and accoutrements are required the number of men must be shown; where leather, rivets, &c., for repairs are required, the number of sets of harness, saddles, &c.; where wagon-repair articles are required, the number of wagons; component parts of rifles, machine guns, flannelette, rifle-oil, the number of rifles, machine guns, &c., on hand.

6. The number on hand (serviceable or unserviceable) of the articles demanded on the indent must be shown in the columns provided for the purpose. Where articles are shown in "Unserviceable" column, a statement will appear in the "Remarks" column showing whether the articles (a) are awaiting Board of Survey, or (b) have been condemned by Board of Survey.

7. In demanding stores, care must be taken to insert specified quantities. Indents are received for articles such as "One case of lamp-glasses," "One drum of paint," &c. The actual number of lamp-glasses and the number of pounds of paint, &c., must be stated. If paint is required in special-size tins the requisition will be worded as follows: "28 lb. of brown paint in 7 lb. tins." In the event of oils and paints demanded not being stocked in the quantities asked for, the nearest size of drum or tin stocked will be sent.

8. Full description of articles required, and dimensions where necessary, must be shown on the indent. Vaguely worded indents for stores, such as "One voltmeter," "One motor despatch," "Three flue-brushes" (no size given, although these brushes vary from 3 ft. to 12 ft. in length), "Two vices, 6 in. jaw" (kind not stated), 1 dozen lamp-glasses (size and description not given), &c., will not be accepted.

Where the provisions of paragraphs 7 and 8 are not complied with the items will be struck off the indent and the indenting officer notified to indent again, inserting full particulars. Form G 92 (in duplicate) will be used for this purpose. The indenting officer will be held responsible for any inconvenience or delay caused through neglect of these instructions.

9. Indents for stores required by units or groups will be forwarded to the Ordnance Officer of the district. On no account must such indents be forwarded direct to the Director of Equipment and Ordnance Stores.

10. *Repair Indents.*—Repair indents will be rendered on form G 10 marked in red ink "Repairs." The columns "Serviceable," "Repairable," and "Unserviceable" will be completed in Ordnance Department. If articles are condemned in Ordnance Department the unit will, on notification, forward receipt and delivery voucher for same, and, if article is to be replaced at same time, submit indent for article.

*Schedule.*

SCHEDULE showing grouping of articles under group headings referred to in para. 4 of Instructions governing Rendering of Indents for Clothing, Stores, and Equipment or Ordnance Stores :—

Group A : Sections 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 28, and 29 of N.Z. Vocabulary of Stores.

Group B : All books and forms.

Group C : All uniform clothing, chevrons, titles, worsted badges, under-clothing, jerseys, socks, blankets, towels, palliasses, hospital clothing, knives, forks, spoons, plates, mugs, identity-discs.

Group E : All small-arms, S.A. parts, machine guns and parts, and other armourer's appurtenances.

Group F : Boots and shoes.

Group G : Cadet and officers' clothing.

Group H : Ammunition—Section 22, 23, 24, 25, 26, and 27.

## APPENDIX 5

(Referred to in para. 108).

EQUIPMENT SUPPLIED TO PERMANENT TRANSPORTS ON FIRST COMMISSION.  
[Subsequent Supplies to be indented for.]

Articles.	No.	Remarks.
<i>Section 1a.</i>		
Bandoliers, 150 rounds .. .. .	100	For guards on ships.
Haversacks .. .. .	50	For use of pickets at ports of call.
<i>Section 1b.</i>		
Bugles .. .. .	1	
Strings, trumpet or bugle .. .. .	1	
<i>Section 7.</i>		
Hammers—Claw, No. 5 .. .. .	1	Opening cases.
Riveting, 4 oz. .. .. .	2	For use with figures and letters.
Puller, nail .. .. .	1	Opening cases.
<i>Section 8c.</i>		
Flags, signal, Army—		
Blue—2 ft. square .. .. .	24	
3 ft. square .. .. .	24	
White, with stripe—2 ft. square .. .. .	24	
3 ft. square .. .. .	24	
Poles—5 ft. 6 in. .. .. .	48	
3 ft. 6 in. .. .. .	48	
Lamps, signalling, electric .. .. .	2	
<i>Section 9a.</i>		
Chalk-boxes .. .. .	2	Musketry stores.
Mineral jelly (lb.) .. .. .	16	
Paint prepared for use, black (lb.) .. .. .	2	Stamping blankets.
Oil, rifle (gal.) .. .. .	8	
<i>Section 10a.</i>		
Nails, wire, assorted (lb.) .. .. .	4	
<i>Section 11 (Barrack Hospital).</i>		
Bags, hot-water, covered .. .. .	3	For hospital.
Cups, feeding .. .. .	3	"
Pans, bed .. .. .	3	"
Urinals, male .. .. .	3	"
Boards, black .. .. .	4	Instructional purposes
Easels, M.I. .. .. .	4	"
Targets, landscape, N.Z. .. .. .	10	"
<i>Section 12.</i>		
Discs, aiming .. .. .	50	
Hooks, butchers' .. .. .	8	For hospital.
Kettles, electric .. .. .	1	"
Irons, electric .. .. .	1	"
Machines, hair-cutting (pairs) .. .. .	6	
Safes, iron .. .. .	2	If required.
Stamps, steel, $\frac{1}{8}$ in. sets—Fig. 0 to 8 .. .. .	1	For stamping discs, identity.
"    "    "    Letters A to Z .. .. .	1	Ditto.
Stamps, wood, N. $\wedge$ Z. .. .. .	1	For stamping blankets.
<i>Section 13a.</i>		
Mattresses, flax .. .. .	..	Or hammocks—102 per cent. of number of troops embarked.
Pillows, flax .. .. .	..	Ditto.
<i>Section 13c.</i>		
Dressings, field .. .. .	1	Per man; 5 per cent. spare.
Flannelette, 4 in. by 2 in. (yards) .. .. .	840	Cleaning arms.
Stretchers, ambulance, complete .. .. .	1	
<i>Section 15.</i>		
Binoculars, with case and strap .. .. .	2	For use of signallers.
<i>Section 27.</i>		
Cartridges—S.A., ball, '303 .. .. .	30,000	
Dummy, drill, '303 .. .. .	1,000	
Chargers, '303 cartridges .. .. .	2	Per charger-loading rifle.
<i>Weedon Section.</i>		
Rifles, M.L.M. .. .. .	210	
Sword-bayonets .. .. .	6	Use of sentries at ports of call.
Scabbards, bayonets .. .. .	6	Ditto.
Bottles, oil, M.L.M. .. .. .	210	
Pull-throughs .. .. .	420	



APPENDIX 5—continued.

EQUIPMENT SUPPLIED TO PERMANENT TRANSPORTS ON FIRST COMMISSION—contd.

Articles.	No.	Remarks.
<i>Weedon Section—continued.</i>		
Tools, cleaning and oiling 303 arms—		
Bits, screw .. .. .	1	Cleaning arms.
Bushes, bit-screw .. .. .	1	„
Rods, No. 2 .. .. .	1	„
Wire, brass, hard, No. 26 W.G. (oz.) .. .. .	4	
Hospital bedding will be placed on board in the following proportions per bunk available in hospital—		
Blankets .. .. .	3	33½ per cent. spare.
Cases, slip, pillow .. .. .	1	„
Counterpanes .. .. .	1	„
Jackets, sleeping .. .. .	1	„
Sheets .. .. .	2	„
Trousers, pyjama .. .. .	1	„
Towels .. .. .	2	„
Mattresses, flax .. .. .	..	102 per cent. of troops embarking.
Pillows, bed, flax .. .. .	..	
<i>Stationery Section.</i>		
Stamps, rubber (passed by Censor) .. .. .	2	
Machines, typewriting .. .. .	1	Permanent troopships. Troop freight-ships.

APPENDIX 5A.

Articles.	No.	Remarks.
EQUIPMENT OF VESSELS CARRYING HORSES.		
<i>Schedule 1.</i>		
Bars, crow, 5 ft. 6 in. .. .. .	1	
Cordage, N.Z. manila (coils) .. .. .	2	
Iron, round, ¾ in. (lb.) .. .. .	28	
Pliers, wire-cutting (pairs) .. .. .	1	
<i>Schedule 2.</i>		
Baskets, manure—Large .. .. .	3	Per 100 horses.
Small .. .. .	12	„
Box, feed-mixing .. .. .	1	For each hold.
Brooms, bass—Cane-faced, handled .. .. .	9	Per 100 horses.
Handles, spare .. .. .	5	„
Brushes, dandy .. .. .	27	„
Chains, head .. .. .	110	„
Collars, head, stable .. .. .	106	„
Chloride of lime (cwt.) .. .. .	1	„
Combs, curry .. .. .	14	„
Covers, horse .. .. .	..	As required, according to season.
Cloths, sponge .. .. .	44	Per 100 horses.
Hoes, handled .. .. .	19	„
Measures, tin—½ peck .. .. .	5	„
Quart .. .. .	5	„
Matting, coconut (yards) .. .. .	..	As necessary.
Mops, common, complete .. .. .	4	Per 100 horses.
Nails, horseshoe .. .. .	..	For 100 sets, plus 10 per cent. spare. Shoes, size as required.
Pumps, spray, with foot-rest, tap and tube .. .. .	1	Per 100 horses.
Slings, horse .. .. .	1	„
Shoes, horse (of sizes) (sets) .. .. .	100	Per 100 horses; 10 per cent. spare additional.
Shovels—Iron, small .. .. .	36	Per 100 horses.
Square mouth, D handle .. .. .	4	„
Syringes, garden .. .. .	1	„
Thermometer .. .. .	1	„
Torches, electric .. .. .	1	„
Disinfectants—Sheep-dip (gal.) .. .. .	5	Per 100 horses per week.

## APPENDIX 5A—continued.

Articles.	No.	Remarks.
SADDLERS' AND FARRIERS' EQUIPMENT.		
<i>Schedule 3.</i>		
Anvil .. .. .	1	Per 100 horses.
Aprons, basil .. .. .	1	"
Buffers, farriers' .. .. .	1	"
Cutters, anvil, $\frac{1}{2}$ -round .. .. .	1	"
Forge, field .. .. .	1	"
Hammers, handled—Catshead .. .. .	1	"
Shoeing .. .. .	1	"
Turning .. .. .	1	"
Riveting .. .. .	1	"
Knives—Drawing, farriers' .. .. .	2	"
Half-round .. .. .	1	"
Searching, farriers' .. .. .	2	"
Leather (sides) .. .. .	2	"
Pritchels .. .. .	2	"
Punches, oval, n.e. 26 .. .. .	1	Per 200 horses.
Pincers, horn, cutting .. .. .	1	Per 100 horses.
Poker .. .. .	1	"
Rasps, farriers' .. .. .	2	"
Rivets, copper (lb.) .. .. .	3	"
Sets, riveting .. .. .	1	"
Scraper .. .. .	1	"
Slice, farriers' .. .. .	1	"
Stone, rag or rub .. .. .	1	"
Tongs, farriers' .. .. .	2	"

## APPENDIX 6

(Referred to in para. 112).

## MUSKETRY STORES AND EQUIPMENT.—SET A.

Articles.	No.	Remarks.
Aim-correctors .. .. .	2	
Glasses .. .. .	2	Spare, per instructor.
Aim-teachers .. .. .	1	
Bags, sand, filled with sawdust .. .. .	30	
Boards—Aiming and triangle, 12 in. by 12 in.	1	
Black .. .. .	1	Cloth mounted on rollers.
Bottles, tin, oil, screw top, 1-gallon .. .. .	1	
Cartridges, S.A., blank .. .. .	..	On demand.
Chalk (boxes) .. .. .	$\frac{1}{4}$	Per annum.
Chest with padlock and key .. .. .	1	
Discs—Aiming .. .. .	1	
Marking, small .. .. .	1	
Dusters .. .. .	1	Per annum.
Figures, aiming, No. 1 small .. .. .	1	
Flags—Red, 3 ft. by 3 ft. .. .. .	1	
Poles, 10 ft. .. .. .	1	
Signal, 2 ft. by 2 ft.—Blue .. .. .	1	
Blue and white .. .. .	1	
Poles, 3 ft. 6 in. .. .. .	2	
Funnels .. .. .	1	For rifle-cleaning.
Mineral jelly (lb.) .. .. .	1	Per annum.
Nails, assorted (lb.) .. .. .	2	"
Oil, rifle (gal.) .. .. .	1	"
Paint prepared for use—Black .. .. .	1	"
White .. .. .	1	"
Paper, white, common, blocks .. .. .	1	"
Rests, aiming—Kneeling .. .. .	2	
Prone .. .. .	2	
Ring-grouping, 4 in., 8 in., 12 in. .. .. .	1	
Targets—Landscape (sets) .. .. .	1	Three pictures mounted on rollers.
Minature (sets) .. .. .	1	Three pictures mounted on boards.
Battle practice .. .. .	100	Assorted.
Second-class, fig. No. 2 .. .. .	1	Mounted on rollers.
Tacks, tinned (lb.) .. .. .	$\frac{1}{2}$	Per annum.
Turpentine (pints) .. .. .	1	"
Twine, middling (ball) .. .. .	1	"
Wire, rectangle .. .. .	1	"



## APPENDIX 7—continued.

## SCALE OF EQUIPMENT FOR MANŒUVRES OR TEMPORARY CAMP—continued.

	All Units.	Headquarters.	Mounted Rifles.	Field Artillery.	Garrison Artillery and Field Engineers.	Army Service Corps.	Infantry.	Medical Corps.
<i>Section 2a—continued.</i>								
Screens, latrine, set .. ..	1 for officers, .. 1 for N.C.O.s, ..	..	..	..	..	..	1 for officers, 1 for N.C.O.s, 2 per company	..
.. ..	1 per squadron or company ex- cept Infantry	..	..	..	..	..	..	..
Sheets, ground .. ..	1 per officer, W.O., N.C.O., and man	..	..	..	..	..	..	..
Stools, camp .. ..	1 per office ..	1 per office ..	..	..	..	..	..	..
Tables, camp .. ..	1 per office ..	1 per Genl. O.C. (personal) 1 per office (tent) 2 office, marquee	..	..	..	..	..	..
Tables, portable .. ..	1 per unit ..	..	..	..	..	..	..	..
Tanks, iron, 400 gal., with fittings and 300 bricks	..	..	..	..	..	..	..	..
Tents, circular, single, linen, or tents, Indian pattern, general service	..	1 per F.O. .. 1 per 2 other officers, 1 per 6 other ranks, to in- clude tents required for guards and offices	1 for C.O., .. 1 for M.O., 1 for F.O., 1 for 2 other officers, 1 for guard, 1 per office per regiment, 1 for W.O.s, 1 for 8 N.C.O.s and men, 1 vet. stores	1 per C.O. bri- gade, 1 per O.C. bat- tery, 1 per 2 other officers, 1 per W.O., 1 per 8 N.C.O.s and men, 1 for office, 1 for guard if guard is fur- nished	Same as Field Artillery	1 per O.C. unit, 1 per 2 other officers, 1 per W.O., 1 per 6 other ranks, to in- clude office	1 per C.O., 1 per F.O., 1 for M.O., 1 for 2 other officers, 1 for guard per battn., 1 for office, 1 for W.O.s, 1 for 8 N.C.O.s and men	1 per F.O., 1 per 2 other officers, 1 per W.O.s, 1 for 8 N.C.O.s and men.
Tents, Indian pattern, general service	1 officers' mess	..	..	..	..	..	..	..
Tents, marquee, small .. ..	..	1 officers' mess	2 officers' mess	1 officers' mess	1 officers' mess	1 officers' mess	2 officers' mess	1 officers' mess.
<i>Section 2b, Tools, Entrenching.</i>								
Axes, pick, helved .. ..	..	1	2	3	2	2	2	..
Shovels, G.S. .. ..	..	1	2	2	2	2	2	..
Spades, Universal .. ..	..	1	2	2	2	2	2	..
<i>Section 5a, Harness and Saddlery.</i>								
Bags, nose .. ..	1 per horse ..	..	..	..	..	..	..	..
<i>Section 5b, Saddlery.</i>								
Forges, pack-saddle, or forges, field (see Section 7)	..	..	2 per camp ..	*1 per camp ..	1 per camp ..	*1 per camp ..	..	..
<i>Section 7, Tools, Artificers'.</i>								
Anvils—1 cwt. .. ..	..	..	1 per forge G.S.	1 per forge G.S.	..	1 per forge G.S.	..	..
.. ..	..	..	1 per forge pack-saddle	1 per forge pack-saddle	..	1 per forge pack-saddle	..	..
.. ..	..	..	1 per forge G.S.	1 per forge G.S.	..	1 per forge G.S.	..	..
.. ..	..	..	1 per forge pack-saddle	1 per forge pack-saddle	..	1 per forge pack-saddle	..	..
Blocks, anvil—1 cwt. .. ..	..	..	..	..	..	..	..	..
.. ..	..	..	..	..	..	..	..	..
Forges, field (see Section 5b) ..	..	..	..	..	..	..	..	..
<i>Section 11, Barrack and Hospital: Glass, Earthen, and Woodware Articles.</i>								
Brooms, bass .. ..	..	1 per 20 horses or less	1 per 20 horses or less	1 per 20 horses or less	2 per 100 men or 1 per 20 horses or less	1 per 20 horses or less	2 per 100 men	2 per 100 men.
Blocks, chopping .. ..	1 where meat is issued in car- case	..	..	..	..	..	..	..
Forms, soldiers', 12 ft. ..	As necessary ..	..	..	..	..	..	..	..
Tables, soldiers', 12 ft., with trestles	If specially sanc- tioned by G.O.C.	..	..	..	..	..	..	..
<i>Section 12, Barrack and Hospital: Copper, Tin, and Metal Articles.</i>								
Basins, wash-hand .. ..	1 per W.O. tent, 4 per tent N.C.O. and men.	..	..	..	..	..	..	..
<i>Section 13a.</i>								
Blankets, G.S. .. ..	If specially sanc- tioned, 2 per W.O., N.C.O., and man ..	..	..	..	..	..	..	..
Stretchers, ambulance .. ..	1 for each unit ..	..	..	..	..	..	..	..
<i>Section 21a.</i>								
Carts, water, tank .. ..	1 per unit except Infantry	..	..	..	..	..	2 per unit ..	..

\* If no other Mounted unit in camp.

APPENDIX 8

(Referred to in para. 168).

DETAILS OF EQUIPMENT, SIGNAL COMPANY WITH DIVISION OF NEW ZEALAND FORCES.

(1.) Section of Vocabulary.	(2.) Description of Stores.	(3.) Number or Quantity of Stores required in Peace or War.						(4.) Total required per Company.
		Hd. Qrs. Signallers and Despatch Riders.	Cable Wagon Detach- ments.	Signalling and Telephone Detachments.	Per Company.			
					For Instruction.	Annually consum- able.	Camp and Miscel- laneous.	
7	Aprons, basil, brown .. .. .	3	..	..	..	..	3	
2A	Axes, hammer-headed .. .. .	2	..	..	..	..	2	
29A	Bolts, telegraph-pole, 5/8 in. ..	..	..	12	..	..	12	
29A	Barrows, drum, universal .. ..	3	..	..	..	..	3	
28E	Batteries, dry, "O," 6-cell .. ..	9	..	..	..	..	9	
28C	Binoculars, prismatic, No. 3 ..	2	3	8	..	..	13	
29A	Boxes, tin, plain stationery, C ..	4	9	4	..	20	37	
29A	Bars carrying reel-cable, No. 1 ..	..	..	4	..	..	4	
29A	Bells, electric battery, Mk. IV ..	..	..	4	..	..	4	
	Blocks, tackle, G.S., 1 1/2 in. cordage—							
8A	Double .. .. .	3	..	..	..	..	3	
8A	Snatch .. .. .	3	..	..	..	..	3	
9B	Bottles, stone, covered, 1/2-pint ..	3	3	..	..	..	6	
29A	Binders, 17 in. .. .. .	..	..	50	..	..	50	
28B	Cable, electric, D 5 (miles) .. ..	30	..	20	..	..	50	
28B	Cables, electric, D 1 (miles) .. ..	..	16	10	..	..	26	
28B	Cells, electric, inert, S .. .. .	36	80	..	..	..	116	
29A	Cases, telephone, hand, C .. .. .	6	..	..	..	..	6	
29A	Cases, vibrating, sets, canvas .. ..	6	..	..	..	..	6	
29A	Commutators, telegraph, 6-line .. ..	..	2	..	..	..	2	
8C	Cases, message-book .. .. .	6	..	20	..	..	26	
29A	Commutators, telegraph, 6-line, cases ..	..	2	..	..	..	2	
29A	Cases, pin, earth, large .. .. .	..	4	..	..	..	4	
8D	Cords, telephone, D, Mk. II .. .. .	..	20	..	..	..	20	
8D	Compasses, prismatic .. .. .	1	3	8	..	..	12	
8D	Compasses, prismatic, cases .. ..	1	3	8	..	..	12	
29A	Compasses, magnetic, pocket .. ..	..	8	..	..	..	8	
29A	Carriers, cable-reel, No. 1 .. .. .	..	4	..	..	..	4	
8A	Cordage, hemp, hawser, 3-strand, tarred, 1 1/2 in. (fathoms)	..	60	..	..	..	60	
8A	Cordage, spun yarn, hemp, tarred, 1-thread (lb.)	42	120	..	200	..	362	
7	Chests, tool, filled, carpenters' ..	..	..	..	..	1	1	
9A	Cloth, emery (quires) .. .. .	..	..	..	2	..	2	
N.I.V.	Candles, composite (lb.) .. .. .	12	..	..	6	..	18	
28B	Coils, resistance, 10,000 ohms .. ..	..	..	1	..	..	1	
13C	Cotton-waste, white (lb.) .. .. .	4	14	6	..	24	48	
28B	Climbers, pole (pairs) .. .. .	..	..	2	..	..	2	
28B	Drums, cart, cable, Mk. III .. ..	18	..	10	..	..	28	
9A	Dubbing (lb.) .. .. .	..	..	2	..	..	2	
29A	Ear-cushions, telephone, C .. .. .	6	..	..	..	..	6	
2A	Flags, distinguishing telegraph-office	9	..	..	..	..	9	
	Flags, signal, Army—							
8C	Blue, 2 ft. square .. .. .	12	3	16	..	..	31	
8C	Blue, 3 ft. square .. .. .	3	3	8	..	..	14	
8C	White, with stripe, 2 ft. square ..	12	3	16	..	..	31	
8C	White, with stripe, 3 ft. square ..	3	3	8	..	..	14	
8C	Poles, 3 ft. 6 in. .. .. .	30	8	48	..	..	86	
8C	Poles 5 ft. 6 in. .. .. .	10	8	24	..	..	42	
28B	Galvanometers, detector, Q and 1 ..	9	2	..	..	..	11	
28B	Galvanometers, detector, Q and 1 (cases)	9	2	..	..	..	11	
29A	Guards, hand, telegraph equipment (pairs)	3	..	..	..	..	3	
29A	Guys, telegraph-pole, Mk. II .. ..	78	..	50	..	..	128	
13C	Gloves, hedging (pairs) .. .. .	..	6	..	..	..	6	
9A	Grease, lubricating, yellow (lb.) ..	3	..	6	..	..	9	
28B	Galvanometers, horizontal, 800 ohms ..	..	..	1	..	..	1	
29A	Galvanometers, horizontal (cases) ..	..	..	1	..	..	1	
29A	Hammers, R.E., telegraph, sledge, Mk. III	6	..	..	..	..	6	
29A	Hammers, R.E., telegraph, handles (spare)	12	..	..	..	..	12	
7	Hammers, claw, 24 oz. .. .. .	3	..	..	..	..	3	
8C	Heliographs, 5 in., Mk. V .. .. .	4	..	6	..	..	10	
29A	Insulators, porcelain, 5/8 in. complete ..	..	..	12	..	..	12	
7	Irons, soldering, tinman's small ..	3	..	..	..	..	3	
7	Irons, soldering, telegraph mechanics ..	..	4	..	..	..	4	
29A	Instruments, telegraph, Morse, recording	..	..	1	..	..	1	
29A	Insulators, shackle, double .. .. .	..	..	6	..	..	6	
20	Jacks, lifting, G.S. .. .. .	1	..	..	..	..	1	
29A	Jumpers, steel .. .. .	6	..	..	..	..	6	

## APPENDIX 8—continued.

## DETAILS OF EQUIPMENT, SIGNAL COMPANY WITH DIVISION OF NEW ZEALAND FORCES—continued.

(1.) Section of Vocabulary.	(2.) Description of Stores.	(3.) Number or Quantity of Stores required in Peace or War.					(4.) Total required per Company.	
		Hd. Qrs. Signallers and Despatch Riders.	Cable Wagon Detachments.	Signalling and Telephone Detachments.	Per Company.			
					For Instruction.	Annually consum- able.		Miscel- laneous.
N.I.V.	Knives, clasp, with marlin spike and tin-opener	..	..	..	100	..	100	
8C	Keys, dummy, signallers', Mk. II	..	..	..	4	..	4	
29A	Keys, single, current, T.E.	..	..	..	4	..	4	
29A	Ladders, field, telegraph	..	3	..	..	..	3	
29A	Lamps, bull's-eye, F.T.	..	3	..	..	..	3	
29A	Lanterns, F.T.	..	9	12	..	..	21	
8C	Lamps, signalling, B	..	4	8	..	..	12	
8C	Lamps, signalling, chimneys	..	8	12	..	..	20	
13C	Leathers, chamois	..	1	3	1	..	5	
2A	Mallets, heel, peg	..	9	..	..	..	9	
29A	Mattocks, telegraph equipment	..	15	4	..	..	19	
29A	Mattocks, telegraph (cases)	..	9	4	..	..	13	
9A	Methylated spirits, industrial (pints)	..	8	8	..	20	36	
N.I.V.	Matches, safety (boxes)	..	50	..	..	12	62	
9A	Oxygen mixture (lb.)	..	24	24	..	48	96	
29A	Pickets, guy, telegraph, light	..	150	..	50	..	200	
29A	Pipes, earth, Mk. II	..	9	..	..	..	9	
29A	Pipes, hose, I.R., ¼ in. (yards)	..	18	50	..	16	84	
29A	Poles, telegraph, wood, 17 ft.	..	72	..	60	..	132	
8C	Panniers, signalling	..	4	6	..	..	10	
7	Pliers, sidecutting, 8 in. (pairs)	..	..	..	100	..	100	
7	Pliers, sidecutting, 8 in. cutters, spare	..	..	..	50	..	50	
7	Pots, fire, telegraph mechanics'	..	..	..	2	..	2	
29A	Pins, earth	..	..	32	..	..	32	
29A	Relays, telegraph, with cases	..	..	..	2	..	2	
29A	Reels, cable, No. 1	..	..	36	..	..	36	
9A	Resin, black (lb.)	..	..	2	..	2	4	
29A	Ratchets, telegraph, small	..	..	..	3	..	3	
2B	Spades, Mk. III	..	6	..	..	..	6	
29A	Sticks, crook, short	..	18	..	..	..	18	
29A	Sticks, crook, jointed	..	..	8	..	..	8	
29A	Sticks, crook, jointed, straps securing	..	..	8	..	..	8	
7	Screwdrivers, G.S., 9 in.	..	3	..	..	..	3	
7	Spanners, adjustable, 11 in.	..	3	..	..	..	3	
29A	Stamps, army, dating, telegraph	..	9	..	..	..	9	
28B	Solution, I.R., 3 oz. tubes (tubes)	..	6	36	..	50	92	
8C	Stands, lamp or helio, A, Mk. III	..	4	6	..	..	10	
15B	Stands, signalling, telescope, Mk. V	..	6	8	..	..	14	
	Saddlery, universal—							
6A	Buckets, signalling-flag	..	4	..	..	..	4	
6A	Buckets, tripod stand	..	2	..	..	..	2	
3	Solder, tinman's soft (lb.)	..	24	8	..	16	48	
9A	Salammoniac in lumps (lb.)	..	2	..	..	4	6	
29A	Saddles, insulators	..	..	..	3	..	3	
15B	Telescopes, signalling	..	6	8	..	..	14	
29A	Telegraph sets, vibrating, R.E., Mk. II	..	9	..	..	..	9	
29A	Telephones, hand, C, Mk. II (spare)	..	6	..	..	..	6	
29A	Telephones, hand, C, microcapsule	..	6	6	..	..	12	
29A	Telephones, portable, D, Mk. II	..	9	20	..	..	29	
29A	Telephones, portable, armatures (spare)	..	2	4	..	..	6	
29A	Telephones, portable, diaphragms (spare)	..	4	6	..	..	10	
29A	Tools, electricians' (sets)	..	9	2	..	..	11	
29A	Tongs, draw, heavy	..	6	..	..	..	6	
2A	Tents, shelter, complete	..	9	8	..	..	17	
28B	Tape, I.R. (lb.)	..	1	4	..	8	13	
28B	Tubing, I.R., ¾ in. (yards)	..	5	7	..	16	28	
29A	Tapes, telegraph, Mk. II	..	..	..	50	..	50	
29A	Vices, draw, Mk. II	..	3	..	..	..	3	
28B	Wire, jointing and binding, A.A. 17(lb.)	..	..	..	20	..	20	
8D	Watches	..	6	9	20	..	35	
29A	Wallets, telephone equipment	..	..	8	..	..	8	
28B	Wire, electric, S 11, Mk. III (yards)	..	45	30	..	150	225	
28B	Wire, jointing and binding, A.A. 21(lb.)	..	..	..	50	..	50	
9A	Xinc, chloride of, solution (pints)	..	2	..	..	2	4	
	Apparatus, limelight—							
8C	Lamps, small	..	2	2	..	..	4	
8C	Bags, gas	..	8	8	..	..	16	
8C	Bags, pressure	..	2	2	..	..	4	
8C	Cases, loose, pencils	..	2	2	..	..	4	
8C	Cases, small, lamp, filled	..	2	2	..	..	4	
8C	Cylinders, small, pencil, filled	..	2	2	..	..	4	

APPENDIX 8—continued.

DETAILS OF EQUIPMENT, SIGNAL COMPANY WITH DIVISION OF NEW ZEALAND FORCES—continued.

(1.) Section of Vocabulary.	(2.) Description of Stores.	(3.) Number or Quantity of Stores required in Peace or War.					(4.) Total required per Company.
		Hd. Qrs. Signalers and Dispatch Riders.	Cable Wagon Detachments.	Signalling and Telephone Detachments.	Per Company.		
					For Instruction.	Annually consumable. Camp and Miscellaneous.	
	Generators, oxygen, Mk. II—						
8C	Bottles, cleansing, gas	2		2			4
8C	Cans, tin	2		2			4
8C	Retorts	4		4			8
8C	Spanners, retort	2		2			4
9A	Oil for instruments (pints)				1		1
9A	Oil, sperm (pints)				3		3
9A	Varnish, black, Brunswick (gallons)				1		1
29A	Ink, Morse recording instruments (¼ lb. bottles)				2		2
29A	Paper, Morse, ¾ in. (rolls)				4		4
10A	Nails, iron, assorted sizes (lb.)				10		10
10A	Screws, iron, assorted sizes (gross)				2		2
5A	Scissors, trimming (pairs)				20		20
	Wire, electric—						
29A	Z 21 (lb.)				200		200
29A	Z 17 (lb.)				100		100
	Arms, telegraph-pole—						
29A	Ordinary, 24 in.				6		6
29A	Ordinary, 48 in.				4		4
29A	Terminal, 48 in.				2		2
29A	Poles, telegraph, wood, medium, 30 ft.				3		3
	CAMP EQUIPMENT.						
2A	Axes, felling, curved helve					3	3
2A	Hooks, bill					2	2
2A	Hooks, reaping, large					3	3
2A	Mauls, G.S. heads					2	2
2A	Mauls, G.S. helves					2	2
12	Balances, spring, 80 lb.					1	1
	Implements, butchers'—						
12	Balance, spring, 4 lb.					3	3
12	Choppers, meat					1	1
12	Knives, cutting					1	1
12	Knives, flaying, large					1	1
12	Saws, tenon, 14 in.					1	1
12	Sheets, ground, old					1	1
12	Steels					1	1
12	Knives, opening, tin					4	4
2A	Bags, line, gear					4	4
2A	Kettles, camp, oval, 12 quarts					11	11
2A	Pegs, picketing, with rope loop					3	3
2A	Ropes, heel, Mk. IV					16	16
2A	Ropes, picketing, 66 ft.					16	16
2A	Sheets, ground					135	135
13A	Blankets, G.S.					135	135
13C	Stretchers, ambulance					1	1
	VEHICLES, ETC.						
21	Carts, cook	1					1
21	Carts, forage	1					1
21	Carts, water-tank, II A	1					1
21	Wagons, cable		3				3
21	Wagons, light, spring	1	3	2			6
21	Bicycles	8		16			24
21	Motor-cycles	9					9
21	Poles, draught, No. 8		1				1
14	Poles, draught, No. 18, Mk. II (spare)		1				1
21	Chains, draught-pole, No. 2 (spare)		1				1
21	Terminals, wagon, cable		42				42
	HARNES AND SADDLERY.						
	Harness, A.S.C., converted—						
5	Near (sets)	2					2
5	Off (sets)	2					2
	Harness, pole, draught, G.S.—						
5	Lead (sets)	7	6				13
5	Wheel (sets)	6	12	4			22
5	Pack-saddlery, G.S.			4			4
6	Saddlery, officers'	1	1	3			5
6	Saddlery, universal, R.A.	7	16				23

APPENDIX 9  
(Referred to in para. 168).

DETAILS OF EQUIPMENT, SIGNAL TROOP WITH MOUNTED BRIGADE OF NEW ZEALAND FORCES.

(1.) Section of Vocabulary.	(2.) Description of Stores.	(3.) Number or Quantity required for Peace and War.						(4.) Total required per Troop.
		Signalers and Despatch Riders.	Telephone Detachments.	Wireless Detachments.	Per Troop.			
					For Instruction.	Annually consumable.	Camp Equipment.	
	<b>Apparatus, limelight—</b>							
8C	Lamps, small .. .. .	1	..	..	1	..	2	
8C	Bags, gas .. .. .	4	..	..	2	..	6	
8C	Bags, pressure .. .. .	1	..	..	1	..	2	
8C	Cases, loose, pencils .. .. .	1	..	..	1	..	2	
8C	Cases, small, lamp, spare, filled .. .. .	1	..	..	..	..	1	
8C	Cylinders, small, pencil, filled .. .. .	1	..	..	1	..	2	
	<b>Generators, oxygen, Mk. II—</b>							
8C	Bottles, cleaning, gas .. .. .	1	..	..	1	..	2	
8C	Cans, tin .. .. .	1	..	..	1	..	2	
8C	Retorts .. .. .	2	..	..	1	..	3	
8C	Spanners, retort .. .. .	1	..	..	1	..	2	
29A	Belts, reel, cable, No. 2, waist .. .. .	..	8	..	..	..	8	
29A	Belts, reel, cable, sockets (spare) .. .. .	..	2	..	..	..	2	
29A	Buckets, reel, cable, No. 2 .. .. .	..	10	..	..	..	10	
15B	Binoculars, prismatic, No. 3 .. .. .	..	6	..	..	..	6	
29A	Boxes, tin, stationery, unit, C, filled .. .. .	..	4	..	..	4	8	
29A	Cases, pin, earth, small .. .. .	..	6	..	..	..	6	
8C	Cases, message-book .. .. .	..	6	..	3	..	9	
8A	Cordage spun-yarn, hemp, 3-thread (lb.) .. .. .	..	10	..	..	10	20	
8D	Compasses, prismatic .. .. .	..	4	..	..	..	4	
8D	Compasses, prismatic, cases .. .. .	..	4	..	..	..	4	
29A	Cords, telephone, field .. .. .	..	16	..	..	..	16	
29A	Couplers, cable (spare) .. .. .	..	4	..	4	..	8	
28B	Cable, electric, D 1 (miles) .. .. .	..	7 $\frac{3}{8}$	..	7 $\frac{3}{8}$	..	15 $\frac{3}{4}$	
28B	Cells, electric, inert, S .. .. .	..	16	..	..	..	16	
28B	Cells, electric, inert, S (spare) .. .. .	..	16	..	..	..	16	
13C	Cotton-waste, white (lb.) .. .. .	..	4	..	..	4	8	
9A	Cloth, emery, No. F (sheets) .. .. .	..	4	..	..	6	10	
	<b>Flags, signal, Army—</b>							
8C	Blue, 3 ft. square .. .. .	..	6	..	..	..	6	
8C	Blue, 2 ft. square .. .. .	..	12	..	..	..	12	
8C	White, with stripe, 3 ft. square .. .. .	..	6	..	..	..	6	
8C	White, with stripe, 2 ft. square .. .. .	..	12	..	..	..	12	
8C	Poles, 5 ft. 6 in. .. .. .	..	18	..	..	..	18	
8C	Poles, 3 ft. 6 in. .. .. .	..	24	..	..	..	24	
28B	Galvanometers, detector, Q and I .. .. .	..	1	..	..	..	1	
28B	Galvanometers, detector, Q and I (cases) .. .. .	..	1	..	..	..	1	
29A	Hooks, clamp, cable .. .. .	..	16	..	..	..	16	
8C	Heliographs, 5 in., Mk. II .. .. .	..	4	..	..	..	4	
8C	Keys, dummy, signallers, Mk. II .. .. .	..	..	..	2	..	2	
29A	Ladders, field, telegraph .. .. .	..	1	..	..	..	1	
8C	Lamps, signalling, B .. .. .	..	4	..	..	..	4	
8C	Lamps, signalling, B, chimneys .. .. .	..	4	..	..	..	4	
9A	Methylated spirits (pints) .. .. .	..	8	..	..	8	16	
9A	Oxygen mixture (lb.) .. .. .	..	24	..	..	24	48	
7	Panniers, tool, saddlers', empty .. .. .	..	4	..	..	..	4	
29A	Pins, earth .. .. .	..	6	..	..	..	6	
29A	Pliers, side-cutting, 5 in. (pairs) .. .. .	..	8	..	..	..	8	
29A	Pouches, telephone, equipment .. .. .	..	4	..	..	..	4	
29A	Pouches, telephone, equipment (spare) .. .. .	..	2	..	..	..	2	
8C	Panniers, signalling .. .. .	..	4	..	..	..	4	
	<b>Saddlery, universal—</b>							
6A	Buckets, signalling-flag .. .. .	..	10	..	..	..	10	
6A	Buckets, tripod stand .. .. .	..	4	..	..	..	4	
29A	Reels, cable, No. 2 .. .. .	..	20	..	..	..	20	
29A	Reels, cable, No. 2, spindles .. .. .	..	10	..	..	..	10	
29A	Reels, cable, No. 2, rivets (doz.) .. .. .	..	2	..	..	..	2	
29A	Reels, cable, No. 2, springs (doz.) .. .. .	..	2	..	..	..	2	
8C	Stands, lamp, or helio A, Mk. III .. .. .	..	4	..	..	..	4	
15B	Stands, signalling, telescope .. .. .	..	6	..	..	..	6	
28B	Solution, I.R., 3 oz. tubes (tubes) .. .. .	..	4	..	..	4	8	
28B	Tape, I.R. (oz.) .. .. .	..	4	..	..	4	8	
28B	Tubing, I.R., $\frac{3}{8}$ in. (yards) .. .. .	..	5	..	..	5	10	
28B	Terminals, electrical instruments, nuts, O, (spare) .. .. .	..	4	..	..	..	4	
29A	Tags, telephone, cord, spare .. .. .	..	4	..	..	..	4	
29A	Telephone sets, portable, D, Mk. II .. .. .	..	8	..	..	..	8	
15B	Telescopes, signalling .. .. .	..	6	..	..	..	6	
8D	Watches .. .. .	..	6	..	..	..	6	
28B	Wire, electric, S 11, Mk. II (yards) .. .. .	..	24	..	..	24	48	



APPENDIX 9—continued.

DETAILS OF EQUIPMENT, SIGNAL TROOP WITH MOUNTED BRIGADE OF NEW ZEALAND FORCES—continued.

(1.) Section of Vocabulary.	(2.) Description of Stores.	(3.) Number or Quantity required for Peace and War.					(4.) Total required per Troop.
		Signalers and Despatch Riders.	Telephone Detachments.	Wireless Detachments.	Per Troop.		
					For Instruction.	Annually consumable.	
N.I.V.	Wireless telegraph sets, pack .. .. .	2					2
	<i>Details of the Two Sets.</i>						
N.I.V.	Ammeters, H.F., 3 amperes .. .. .	2					2
	Boxes—						
N.I.V.	Closed circuit, with transmitter and spark gap .. .. .	2					2
N.I.V.	Receiving, complete .. .. .	2					2
N.I.V.	With L.F. transformer .. .. .	2					2
	Cases, leather—						
N.I.V.	Aerial stores .. .. .	2					2
N.I.V.	C.C. box and C. .. .. .	2					2
N.I.V.	Cases for spare parts .. .. .	2					2
	Covers, canvas—						
N.I.V.	Instrument-boxes .. .. .	2					2
N.I.V.	Engine and generator .. .. .	2					2
N.I.V.	Limber, G.S. .. .. .	2					2
	Condensers, transmitting, '01 m/f—						
N.I.V.	Jars .. .. .	8					8
N.I.V.	Rings .. .. .	16					16
N.I.V.	Detectors, crystal .. .. .	4					4
N.I.V.	Drums, aerial .. .. .	4					4
N.I.V.	Engine and generating set complete .. .. .	2					2
N.I.V.	Cable, power, with plugs .. .. .	2					2
N.I.V.	Galvanometers, Q and I .. .. .	2					2
N.I.V.	Galvanometers, Q and I (cases) .. .. .	2					2
N.I.V.	Handles, starting .. .. .	2					2
N.I.V.	Tachometers .. .. .	2					2
N.I.V.	Insulators, guy .. .. .	4					4
N.I.V.	Jiggers, secondary .. .. .	2					2
N.I.V.	Lead, H.T. (ft.) .. .. .	4					4
N.I.V.	Mast, wood, 5 sections (sections) .. .. .	24					24
	Stays, mast—						
N.I.V.	Upper .. .. .	12					12
N.I.V.	Lower .. .. .	12					12
N.I.V.	Mats, earth, with bridle and plug .. .. .	2					2
N.I.V.	Pickets, W.T., small .. .. .	16					16
N.I.V.	Station tester, pack set .. .. .	2					2
N.I.V.	Telephone receiver with cords and plugs .. .. .	4					4
	Wires, aerial—						
N.I.V.	Spreaders .. .. .	4					4
N.I.V.	Halyards .. .. .	4					4
	SPARE PARTS.						
	Condensers, transmitting, '01 m/f—						
N.I.V.	Jars .. .. .	4					4
	Engines, petrol—						
N.I.V.	Lubricators, cylinders .. .. .	4					4
N.I.V.	Magneto brushes .. .. .	4					4
N.I.V.	Magneto carbon holders .. .. .	4					4
N.I.V.	Pins, split .. .. .	12					12
N.I.V.	Plugs, sparking .. .. .	8					8
N.I.V.	Plugs, sparking, washers .. .. .	8					8
N.I.V.	Valves, exhaust .. .. .	2					2
N.I.V.	Valves, inlet .. .. .	2					2
N.I.V.	Washers, asbestos .. .. .	8					8
	Generators, electric, A.C.—						
N.I.V.	Brushes .. .. .	4					4
N.I.V.	Insulators, guy .. .. .	4					4
N.I.V.	Pickets, W.T., small .. .. .	4					4
N.I.V.	Spokes, aerial, plug .. .. .	2					2
N.I.V.	Stays, mast, upper .. .. .	2					2
N.I.V.	Stays, mast, lower .. .. .	2					2
	ACCESSORIES, WIRELESS SETS.						
2A	Axes, felling, curved helve .. .. .	2					2
2A	Axes, felling, helves (spare) .. .. .	2					2
2A	Flags, distinguishing telegraph-office .. .. .	2					2
2A	Flags, distinguishing, poles, 16 ft. .. .. .	2					2
2A	Hooks, reaping, large .. .. .	2					2
2A	Tents, complete, shelter .. .. .	2					2
2B	Axes, pick, heads, 4½ lb. .. .. .	2					2

## APPENDIX 9—continued.

## DETAILS OF EQUIPMENT, SIGNAL TROOP WITH MOUNTED BRIGADE OF NEW ZEALAND FORCES—continued.

(1.) Section of Vocabulary.	(2.) Description of Stores.	(3.) Number or Quantity required for Peace and War.						(4.) Total required per Troop.
		Signalers and Despatch Riders.	Telephone Detachments.	Wireless Detachments.	Per Troop.			
					For Instruction.	Annually consum- able.	Camp Equipment.	
2B	Axes, pick, helves .. .. .	..	..	2	..	..	2	
2B	Spades, Mk. III .. .. .	..	..	2	..	..	2	
3	Solder, tinman's soft (lb.) ..	..	..	2	..	2	4	
6B	Felt, brown (pieces) .. .. .	..	..	4	..	..	4	
7	Brushes, hair, flat, 3 in. ..	..	..	2	..	..	2	
7	Brushes, plate .. .. .	..	..	2	..	..	2	
7	Chisels, hand, cold, ½ in. by 4½ in.	..	..	2	..	..	2	
7	Files, fine, cut, ½ rd., 8 in. ..	..	..	2	..	..	2	
7	Files, regular cut, flat, 8 in. ..	..	..	2	..	..	2	
7	File, second cut, square, 6 in. ..	..	..	2	..	..	2	
7	Hammers, riveting, 8 oz. ..	..	..	2	..	..	2	
7	Handles, file, small .. .. .	..	..	2	..	..	2	
7	Irons, soldering, telegraph mechanics'	..	..	2	..	..	2	
7	Pliers, sidecutting, 8 in. (pairs)	..	..	15	..	..	15	
7	Pliers, sidecutting, 8 in. cutters	..	..	7	..	..	7	
7	Screwdrivers, R.E., 6 in. ..	..	..	2	..	..	2	
7	Vices, hand, 16 oz. .. .. .	..	..	2	..	..	2	
N.I.V.	Holdalls, engine-drivers' ..	..	..	2	..	..	2	
N.I.V.	Spanners, swan neck, ½ in. ..	..	..	2	..	..	2	
N.I.V.	Spanners, swan neck, ¾ in. ..	..	..	2	..	..	2	
N.I.V.	Spanners, swan neck, 1 in. ..	..	..	2	..	..	2	
N.I.V.	Spanners, swan neck, 1½ in. ..	..	..	2	..	..	2	
N.I.V.	Wallets, tool .. .. .	..	..	2	..	..	2	
8D	Watches .. .. .	..	..	2	..	..	2	
9A	Cloth, emery, No. O (sheets)	..	..	12	..	12	24	
9A	Oil, lubricating, heavy (gallons)	..	..	8	..	8	16	
9A	Polish, metal (tins) .. .. .	..	..	16	..	8	24	
10A	Bolts with nuts, assorted (doz.)	..	..	2	..	..	2	
10A	Padlocks, iron, 2 in. .. .. .	..	..	2	..	..	2	
10A	Screws brass, of sizes (doz.) ..	..	..	2	..	2	4	
N.I.V.	Carbon, bisulphide, in 4 oz. bottles (bottles)	..	..	2	..	2	4	
N.I.V.	Candles, composite (lb.) .. ..	..	..	4	..	4	8	
N.I.V.	Petrol (gallons) .. .. .	..	..	16	..	16	32	
N.I.V.	Paraffin (gallons) .. .. .	..	..	2	..	2	4	
N.I.V.	Funnels, petrol .. .. .	..	..	2	..	..	2	
13C	Bunting, red (yards) .. .. .	..	..	2	..	2	4	
13C	Cloths, sponge .. .. .	..	..	4	..	2	6	
13C	Cotton-waste, white (lb.) .. ..	..	..	8	..	8	16	
28B	Cells, electric, inert, P .. .. .	..	..	4	..	..	4	
28B	Lamps, blow, spirit .. .. .	..	..	2	..	..	2	
28B	Solution, I.R., 3 oz. tubes (tubes)	..	..	4	..	4	8	
28B	Tape, I.R. (oz.) .. .. .	..	..	4	..	4	8	
29D	Hammers, miners' loading (4 lb.)	..	..	4	..	..	4	
29A	Boxes, tin, japanned, stationery, unit B, filled	..	..	2	..	2	4	
29A	Lanterns, field, telegraph .. ..	..	..	2	..	..	2	
29A	Lamps, bull's-eye, field, telegraph	..	..	2	..	..	2	
29A	Stamps, army, telegraph, dating	..	..	2	..	..	2	
29A	Tools, electricians' (sets) .. ..	..	..	2	..	..	2	
N.I.V.	Handbook for wireless procedure ..	..	..	2	..	..	2	
N.I.V.	List of International W.T. stations ..	..	..	2	..	..	2	
N.I.V.	Operators' diary (A.B. 129) .. ..	..	..	2	..	..	2	
N.I.V.	Knives, clasp, with marlinespike and tin-opener (spare)	..	..	4	..	..	4	
HARNES AND SADDLERY.—WIRELESS PACK.								
N.I.V.	Pack-saddlery, special pattern (sets)	..	..	8	..	..	8	
N.I.V.	Bars, leading, with spring hooks ..	..	..	8	..	..	8	
N.I.V.	Girths, web .. .. .	..	..	8	..	..	8	
N.I.V.	Pannels for engine loads (pairs) ..	..	..	2	..	..	2	
N.I.V.	Pannels for mast loads (pairs) ..	..	..	2	..	..	2	
N.I.V.	Pannels for instruments and aerial loads (pairs) .. .. .	..	..	4	..	..	4	
N.I.V.	Straps, bracer .. .. .	..	..	4	..	..	4	
5	Harness, pole-draught, G.S. wheel (sets)	..	..	4	..	..	4	
CARRIAGES, ETC.—WIRELESS PACK.								
21A	Wagons, limbered, G.S., fore .. ..	..	..	2	..	..	2	
21A	Wagons, limbered, G.S., hind .. ..	..	..	2	..	..	2	

APPENDIX 9—continued.

DETAILS OF EQUIPMENT, SIGNAL TROOP WITH MOUNTED BRIGADE OF NEW ZEALAND FORCES—continued.

(1.) Section of Vocabulary.	(2.) Description of Stores.	(3.) Number or Quantity required for Peace and War.					(4.) Total required per Troop.
		Signalers and Despatch Riders.	Telephone Detachments.	Wireless Detachments.	Per Troop.		
					For Instruction.	Annually consumable.	
CAMP EQUIPMENT.							
2A	Axes, felling, curved helves, Mk. III	..	..	..	..	1	1
2A	Axes, hand, Mk. II	..	..	..	..	1	1
2A	Hooks, bill	..	..	..	..	1	1
2A	Hooks, reaping	..	..	..	..	1	1
2A	Bags, line, gear	..	..	..	..	8	8
2A	Boxes, stationery, field, filled	..	..	..	..	1	1
2A	Kettles, camp, oval, 12-quarts	..	..	..	..	3	3
2A	Pegs, picketing, with rope loop	..	..	..	..	12	12
2A	Ropes, heel, Mk. IV	..	..	..	..	12	12
2A	Ropes, picketing, 66 ft.	..	..	..	..	3	3
2A	Sheets, ground	..	..	..	..	42	42
13A	Blankets, G.S.	..	..	..	..	42	42
13C	Stretchers, ambulance	..	..	..	..	1	1
	Implements, butchers'—						
12	Balance, spring, 4 lb.	..	..	..	..	1	1
12	Choppers, meat	..	..	..	..	1	1
12	Knives, cutting	..	..	..	..	1	1
12	Knives, flaying, large	..	..	..	..	1	1
7	Saws, tenon, 14 in.	..	..	..	..	1	1
2A	Sheets, ground, old	..	..	..	..	1	1
12	Steels	..	..	..	..	1	1
12	Knives, opening, tin	..	..	..	..	2	2
CARRIAGES, ETC.							
21A	Wagons, light, spring, R.E.	..	1	..	..	..	1
21B	Bicycles	..	6	..	..	..	6
N.I.V.	Motor-cycles	..	3	..	..	..	3
HARNES AND SADDLERY.							
5	Harness, pole-draught, G.S., wheel (sets)	..	2	..	..	..	2
6A	Saddlery—						
	Officers'	..	..	..	..	..	1
	Universal R.A.	..	..	..	..	..	27
FARRIERS' AND SADDLERS' TOOLS.							
7	Bags, tool, farriers', filled	..	..	..	..	..	1
7	Holdalls, tool, saddlers', filled	..	..	..	..	..	1

APPENDIX 10

(Referred to in para. 169).

REPAIR OF FIELD RANGE-FINDERS.

1. FIELD range-finders in possession of units will be periodically tested in accordance with Musketry Regulations, Part I, and Regulations for Ordnance Services, Part I.

2. When instruments are found to require repairs or adjustments which cannot be carried out by the unit (see handbook of the instrument), an indent on G 10, showing the nature of the repairs required, will be forwarded to the D. of E. & O.S., who will, if possible, arrange for the work to be carried out locally. The registered numbers of instruments will be quoted on all vouchers and demands.

3. Instruments despatched either to or from an Ordnance depot will be very carefully packed. The instruments in their cases will be packed with tow, hay, or other suitable material, in a wooden box. The box should be marked conspicuously "Glass with care," and should contain a packing-note (F G 70) duly completed.

APPENDIX 11

(Referred to in paras. 170, 171).

CARE AND PRESERVATION OF MEKOMETERS, TELEMETERS, RANGE AND POSITION FINDERS, APPARATUS OBSERVATION OF FIRE, TELEPHONES, TELESCOPES, AND BINOCULARS.

General Instructions.—For cleaning the metal parts only soft-soap free from grit and oil may be used. Unless specifically ordered, no material of a gritty or cutting nature may be used on any pretence.

*Mekometers and Telemeters.*—It is not advisable that these instruments should be cleaned by any but qualified range-takers, who, however, should on no account tamper with any of the screws. When not in use they must be kept in their cases in a dry place. Great care must be taken not to allow any oil, grease, or paraffin to get upon the mirrors or telescope glasses.

*To clean the Mirrors.*—To a small piece of stick or lead-pencil about 4 in. long tie a clean piece of chamois-leather or soft rag around one end to form a small knob; put this end through the opening in the side of the frame and clean each mirror, special care being taken not to injure the silvered portion of horizon mirror. Great care must be taken that the chamois-leather or rag is quite free from grease, and also that the mirrors are not rubbed too hard.

*To clean Object-glass of Telescope.*—Unscrew the object-glass by turning it to the left, and clean both sides of the glass with a clean piece of soft rag or chamois-leather. Holding the telescope in the left hand, object-glass towards the right hand, screw in the object-glass by gently turning it to the right, care being taken that it is in the correct thread, which will be known by its working smoothly. It should be screwed as tightly home as can be done with the fingers. The eye-piece of a telescope seldom requires cleaning, and it is not advisable to take it to pieces. When cleaning the object-glass of a high-power telescope the lenses should never be removed from their cell.

*Flap or Cover (Mekometers only).*—Should the flap or cover become too tight, put a few drops of oil into the joint and at each end of spindle on which the flap turns. Work the flap backwards and forwards until oil has found its way into the joint.

*Filling of Telescope.*—The telescope may become tight in entering or withdrawing it from the tube. For cleaning, put a few drops of paraffin oil upon a piece of rag and rub inside tube until clean. Do the same with part of telescope that fits into the tube; then, providing the tube is not damaged, it will move more easily.

*Range-finders.*—The range-finder Artillery No. 1 (Zeiss) is not to be taken to pieces on any account. The range-finder Artillery No. 2 (Barr and Stroud) may be taken to pieces by a qualified officer or armament artificer, as laid down in Handbook of Artillery Instruments. Range-finder Infantry No. 1 (Marindin) is on no account to be taken to pieces. The end caps may be removed and minor repairs carried out by a qualified officer or armourer, as laid down in handbook. Range-finder Infantry No. 2 (Barr and Stroud) may be taken to pieces for cleaning or adjustment by a qualified officer or armourer, as laid down in the handbook.

The instruments and their cases, covers, and leather baskets must be kept in a dry place. If they get wet in use they should be carefully dried on return to barracks or camp. Should any moisture get into the interior of the instruments, causing a misty appearance, this will be removed as directed in the handbooks of the instruments.

APPENDIX 12

(Referred to in para. 180).

MATERIALS FOR CLEANING, PRESERVATION, AND BROWNING OF BICYCLES.—  
ANNUAL SUPPLY (PEACE ONLY).

Description.	Number or Quantity per Bicycle.
<b>MATERIALS FOR CLEANING AND PRESERVATION.</b>	
<i>Section No. 9a.</i>	
Oil, petroleum, lubricating (pints) .. .. .	1
Tallow (lb.) .. .. .	1
<i>Section No. 21b.</i>	
Brushes, bicycle .. .. .	1
<i>Not in Vocabulary</i>	
Linen or cotton, old (lb.) .. .. .	1½
Oil, paraffin(a) (quarts) .. .. .	1
<b>MATERIALS FOR BROWNING BICYCLES.</b>	
<i>Section No. 7.</i>	
Card, scratch (ft.) .. .. .	½
<i>Section No. 9a.</i>	
Cloth, emery, No. 2 (quiros) .. .. .	¼
Oil, petroleum, lubricating (pints) .. .. .	½
Soda, crystals (lb.) .. .. .	18(b)
<i>Section 130.</i>	
Flannel, coarse (yards) .. .. .	1
<i>Not in Vocabulary.</i>	
Mixture, browning (gills) .. .. .	½

(a) To be drawn from A.S.C.  
(b) 12 gallons of water are required to cover a handle-bar in the service browning-trough, and 1¼ lb. of soda to each gallon of water will be sufficient for any number of bicycles up to 100.

APPENDIX 13

(Referred to in para. 181).

ANNUAL ALLOWANCE FOR REPAIRS OF BICYCLES, ON SCALE OF 25 BICYCLES IN POSSESSION OF UNIT.

Articles.	No.	Remarks.
Ball, head, clips, handle-bar—		
Nuts .. .. .	2	
Screws .. .. .	2	
Balls, antifriction— $\frac{1}{4}$ in. (doz.) .. .. .	5	
$\frac{3}{16}$ in. (doz.) .. .. .	7	
$\frac{1}{8}$ in. (doz.) .. .. .	6	
Bottom brackets—		
Cotters .. .. .	7	
Cups .. .. .	4	
Nuts—Cotter .. .. .	7	
Pin, locking .. .. .	4	
Pins, locking .. .. .	4	
Screws, chain-wheel .. .. .	8	
Washers, cotter .. .. .	7	
Brakes, front—Nuts .. .. .	7	
Pads .. .. .	12	
Springs .. .. .	2	
Chains, bicycle—Bolts .. .. .	7	
Couplings .. .. .	4	
Links .. .. .	4	
Nuts .. .. .	7	
Chains, adjustment—Adjusters .. .. .	30	
Nuts .. .. .	50	
Frames, bicycle—Nuts, seat, lug .. .. .	2	
Washers .. .. .	2	
Free-wheels .. .. .	3	
Hubs—Nuts, spindle .. .. .	8	
Washers .. .. .	8	
Coaster, No. 1 .. .. .	7	
Cages, No. 2 .. .. .	4	
Hubs, back, coaster—		
Clutches, brake .. .. .	3	
Cones, adjustable .. .. .	3	
Levers, brake .. .. .	3	
Nuts—Clip .. .. .	4	
Clutch .. .. .	3	
Screws, clip .. .. .	3	
Spindles .. .. .	3	
Hubs, back, plain—		
Cones—Adjustable .. .. .	2	
Fixed .. .. .	2	
Spindles .. .. .	2	
Hubs, front—		
Cones—Adjustable .. .. .	2	
Fixed .. .. .	2	
Nuts .. .. .	3	
Spindles .. .. .	2	
Washers .. .. .	3	
Lubricators, spring lid, $\frac{3}{16}$ in. .. .. .	4	
Pedals—Caps .. .. .	4	
Cones .. .. .	4	
Nuts, locking .. .. .	4	
Pins—Left .. .. .	4	
Right .. .. .	4	
Rings .. .. .	4	
Pumps, bicycle—Connections .. .. .	4	
Caps .. .. .	4	
Tyres, bicycle—Covers, outer .. .. .	2	
Tubes, inner .. .. .	3	
Wheels, bicycle—Nipples .. .. .	15	
Spokes .. .. .	15	
Washers, spoke .. .. .	15	
Brushes, bicycle .. .. .	1	
Clamps, bicycle .. .. .	1	
Injectors .. .. .	1	
Punches, bicycle .. .. .	1	
Scissors, bicycle .. .. .	1	
Spanners, bicycle—Box—Hexagon .. .. .	1	
Square .. .. .	1	
Nipple .. .. .	1	
Thick .. .. .	1	
Thin .. .. .	1	
Valve .. .. .	..	

If owing to variety of patterns component parts are not included in this list, such necessary additional articles may be authorized.

## APPENDIX 14

(Referred to in para. 182).

## CONSUMABLE MATERIALS FOR MECHANICAL TRANSPORT VEHICLES.—ANNUAL ALLOWANCES.

NOTE.—The scale of material detailed should be regarded as the maximum annual allowances. Demands should only be made for the quantities actually required (see para. 97).

Description.	Tractors.		Motor-cars.		
	Internal Combustion.	Ambulances, I.C.	4-seater.	Motor-bicycles.	
<i>Section 3.</i>					
Wire, ordinary copper(a) (oz.) .. ..	1	..	..	..	
<i>Section 8a.</i>					
Asbestos, yarn(a) (lb.) .. ..	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	
Cordage, spun yarn, hemp, tarred(a) (lb.) ..	4	3	..	..	
<i>Section 9a.</i>					
Blacklead, dry (lb.) .. ..	3	2(b)	2(b)	..	
Chalk, French (lb.) .. ..	..	..	6	2	
Cloth, emery, No. 1 (sheets) .. ..	52	26	6	3	
Grease, lubricating, yellow (lb.) .. ..	112	112	112	..	
Methylated spirit, industrial (gal.) .. ..	..	..	$1\frac{1}{2}$ (c)	..	
Oil—Castor(d) (gal.) .. ..	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	..	
Lubricating(e), heavy or light (gal.) ..	100	80	60	..	
Paint—Black or white (lb.) .. ..	$1\frac{1}{2}$	..	..	..	
Service colour (lb.) .. ..	15	..	..	..	
Polish, metal (tins) .. ..	..	12	12	4	
Powder, emery, flour (lb.) .. ..	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	
Soap, soft (lb.) .. ..	6	6	6	..	
Soda, caustic (76–80 per cent., sodium hydrate (lb.) .. ..	56	56	56	..	
Tallow (lb.) .. ..	14	7	7	..	
Turpentine (gal.) .. ..	2	..	..	..	
<i>Section 11.</i>					
Brushes, water, carriage.. ..	2	..	..	..	
Sponges, bath .. ..	..	6	6	2	
<i>Section 13c.</i>					
Cloths, sponge .. ..	48	48	48	16	
Cotton-waste, coloured (cwt.) .. ..	2	2	1	$\frac{1}{4}$	
Leathers, chamois .. ..	..	4	4	2	
Worsted, blue-grey (oz.) .. ..	$\frac{1}{4}$	..	..	..	
<i>Section 19.</i>					
Brushes, breech, screw .. ..	..	3	3	1	
<i>Section 28b.</i>					
Tape, rubber—Primed (lb.) .. ..	..	$\frac{1}{2}$	$\frac{1}{2}$	..	
Pure (lb.).. ..	..	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{4}$	
<i>Old Stores.</i>					
Linen or cotton, old (lb.).. ..	3	3	3	3	

- (a) Size required to be stated on indents.  
 (b) For chain-driven vehicles only.  
 (c) For use with small vulcanizer.  
 (d) If fitted with leather clutch.  
 (e) In lieu of 9 lb. grease, lubricating is required.

## APPENDIX 15

(Referred to in para. 184).

## EXTRACT FROM CIRCULAR MEMORANDA REGARDING MOTOR TRANSPORT.

*Sparkling-plugs.*—Great care should be taken to see that there is no unnecessary waste of plugs. All plugs which have become unserviceable must be returned to store, otherwise a charge will be made against unit concerned.

*Speed.*—Excessive engine-speed is the cause of many big-end bearings running out. The vehicle speed must be kept down at all times to such a speed that the number of revolutions made by the engine is not excessive for that particular

type of engine. The governors on such lorries as are provided with these fittings must be kept in working-order, and are not to be disconnected or tampered with.

*Lubrication and Lubricants.*—Care must be taken before starting on a day's run, and at intervals during the day, to see that the proper level of oil is maintained in the crank-chamber of engine. If too much oil is left in the crank-chamber the engine is liable to smoke badly: this may cause the sooting-up of the plugs. On the other hand, an insufficient quantity of oil will cause the engine to overheat, and will cause the bearings to run out.

*Oil-tins and Water-tins.*—The petrol-tin carrier on left of lorry should be reserved for carrying tins of petrol only; the right of the vehicle for oil, grease, and water when necessary only.

*Cleaning Base Chambers.*—After motor vehicles have run 1,000 miles in case of a lorry, 2,000 miles in case of a car, and in any case not less frequently than once in two months, the crank-chamber of the engine should be taken down and thoroughly cleaned with paraffin. Date to be recorded in running-book. At the same time precautions must be taken to ensure that all oil-passages and oil-pipes are thoroughly cleaned, and cleared of all obstruction, and not reduced in size. Neglect to carry out this cleaning has led to a number of cases of overheating of ends and bearings.

*Pumps and Packing.*—Special attention must be paid to packing of water-pumps where there is any possibility of water leaking into crank-chamber, and the oil of the crank-case must be examined from time to time to see if water is present.

*Oil-leakages.*—The oil-leakages from engine or base chamber must be reduced to a minimum by renewing packings where necessary, not merely to prevent waste of oil, but in order to prevent oil escaping so as to reduce oil in base chamber below safe working limit.

*Marking Motor-cars and Lorries.*—All motor-cars and motor-lorries must have their official registration number painted on bonnet and also on back of vehicle. This number is to be painted on both sides of the bonnet in white paint, and in a conspicuous position at back, where it is not likely to be obscured by the tires, tarpaulins, or other obstructions. Size of figures to be as under: *Motor-cars*, 4 in. high,  $\frac{1}{2}$  in. wide; *motor-lorries*, 6 in. high,  $\frac{3}{8}$  in. wide. A broad arrow to be placed on top or on one side of the numbers, according to shape of bonnet, as may be most convenient. No numbers or letters are to be painted on bonnets or on backs of vehicles except official registration number.

*Economy as regards Spare Parts, Stores, Equipment, &c.*—In the interests of economy it is absolutely essential that very careful supervision should be exercised over demands for spare parts, stores, equipment, and accessories, and officers in charge should never lose sight of the fact that they are personally responsible for the correctness and necessity for such demands. The drivers should be made personally responsible for the equipment of their vehicles, and being placed in charge a receipt should be obtained from them for all tools, lamps, accessories, &c., and they should be held responsible that these are forthcoming when vehicles are transferred from their charge to another driver or returned to store.

*Pyrenes, Care of.*—These are to be carried in proper brackets, not thrown about or carried loose in tool-boxes.

APPENDIX 16

(Referred to in para. 224).

MATERIALS FOR CLEANING AND PRESERVATION OF ARMS.

*Annual Supply of Oil, &c., for the Cleaning, Oiling, and Preservation of Arms.—Peace only.*

No oil, &c., except that supplied by the Ordnance Department will be applied to the arms under any circumstances.

- Oil, petroleum, lubricating—
  - 100 arms, including pistols, 72 pints.
  - 100 rifles or 200 pistols—
    - For lubricating actions, 9 pints.
    - For removing rust from barrels, 1 pint.
- Mineral jelly—Per 500 rifles, 10 lb.

*Annual Supply (Peace only).*

- Sheeting, old .. .. 1½ oz. for each Webley pistol, and 10 lb. for use of the armourer.
- Flannelette .. .. 8 yards each .303 in. rifle in possession of units of Cavalry, Horse, and Field Artillery, and Infantry; 4 yards for each .303 in. rifle in possession of other units.
- Wire, brass, No. 26 W.G., 2 oz. per 100 arms, for use with cleaning-rods Nos. 2 and 3, and rod-cleaning cylinder, pistol, Webley.
- Jute, dressed .. .. 1 hank per 200 arms, for use with cleaning-rod No. 1.

*Pullthroughs, Double (Peace).*

- Pullthroughs—Double .. .. 10 } Per 1,000 arms. To be supplied
- Cords (spare) .. .. 10 } to and used by armourers only.
- Gauze, wire (pieces) .. .. 20 }

## APPENDIX 17

(Referred to in para. 231).

## MATERIALS FOR REPAIR AND PRESERVATION OF ARMS.

Description.	Annual Proportion per 1,000 Arms, Mounted Units. Rifles Short, M.L.E., Mark III.
<i>Weedon Section.</i>	
Bottles, oil—Stoppers .. .. .	5
Washers .. .. .	10
Pullthroughs—Cords .. .. .	2,250
Gauze, wire .. .. .	2,750
Bands, outer, M.L.E.R.S., I .. .. .	10
Barleycorns, fore sight, M.L.E.R.S., I—'93 in. .. .. .	6
'945 in. .. .. .	6
'96 in. .. .. .	2
'975 in. .. .. .	2
'99 in. .. .. .	2
Heads, pointer, dial sight, M.L.M.R., II .. .. .	40
Blades, fore sight, M.L.E.R.S., III—0'985 in. .. .. .	6
1'0 in. .. .. .	6
1'015 in. .. .. .	2
1'03 in. .. .. .	2
1'045 in. .. .. .	2
Bolts—Breech, M.L.E.R.S., I .. .. .	15
Locking, M.L.E.R.S., I .. .. .	30
III .. .. .	30
Stock, M.L.E.R.S., I .. .. .	1
Brackets, swivel, butt, M.L.E.R.S., I .. .. .	5
Caps—Hand-guard, front, M.L.E.R.S., I .. .. .	1
Nose, M.L.E.R.S., III .. .. .	1
Cases, magazine, M.L.E.R.S., I, No. 2 .. .. .	5
Catches—Magazine, M.L.M.R., II .. .. .	5
Safety, bolt, locking, M.L.E.R.S., I .. .. .	10
Slide, back sight, M.L.E.R.S., I .. .. .	30
III .. .. .	5
Clips, stop, magazine, M.L.E.R.S., I .. .. .	15
Cocking-pieces, M.L.E.R.S., I .. .. .	35
Collars, screw, front, trigger-guard, M.L.M. .. .. .	1
Cut-offs, M.L.E.R.S., III .. .. .	10
Discs, marking, butt, brass .. .. .	5
Extractors, M.L.E.R.S., I .. .. .	20
Fine-adjustments, back sight, M.L.E.R.S., I .. .. .	5
Guards, hand, M.L.E.R.S., I—Front .. .. .	40
Rear .. .. .	35
Guards, hand, M.L.E.R.S., III—Front .. .. .	40
Rear .. .. .	10
Guards, trigger, M.L.E.R.S. .. .. .	1
Guides, charger, head, breech-bolt, M.L.E.R.S., I, No. 2 .. .. .	30
Heads—Breech bolt—M.L.E.R.S., I .. .. .	15
M.L.E.R.S., III .. .. .	15
Screw, wind-gauge, M.L.E.R.S., III, No. 2 .. .. .	10
Leaves, back sight—M.L.E.R.S., I .. .. .	5
M.L.E.R.S., III .. .. .	5
Nuts—Screw back, nose-cap, M.L.E.R.S., I .. .. .	1
Screw protector, back sight, M.L.E.R.S., III .. .. .	5
Pins—	
Axis, back sight—M.L.E.R.S., I .. .. .	2
M.L.E.R.S., III .. .. .	2
Axis, trap, butt, plate, M.L.E.R.S., I, No. 2 .. .. .	5
Axis, worm, fine adjustment, catch, slide, back sight, M.L.E.R.S., III .. .. .	5
Catch, magazine, M.L.M. .. .. .	5
Fixing, head, screw, wind-gauge, M.L.E.R.S., III .. .. .	10
Fixing, stud, head, catch, slide, back sight, M.L.E.R.S., I .. .. .	5
Fixing washer, pin, axis, back sight, M.L.E.R.S., I .. .. .	20
Stop, band, lower, M.L.M.R. .. .. .	2
Stop, bolt—Locking, M.L.E.R.S., I .. .. .	25
M.L.E.R.S., III .. .. .	25
Trigger, M.L.M. .. .. .	5
Plates—Butt, M.L.E.R.S., I, No. 2 .. .. .	5
Keeper, screw, wind-gauge, M.L.E.R.S., I .. .. .	2
Keeper, stockbolt, M.L.E.R.S., I .. .. .	5
Platforms, magazine, M.L.E.R.S., I .. .. .	5
Pointers, sight, dial, M.L.M.R., II .. .. .	10
Protectors, sight, back, M.L.E.R.S., III .. .. .	5
Rivets—Fore end, M.L.M. .. .. .	2
Spring, hand-guard, M.L.E.R.S., I .. .. .	10
Screws—	
Band, inner, M.L.E.R.S. .. .. .	2
Bed, back sight—M.L.E.R.S., I (back) .. .. .	5
M.L.E.R.S., I (front) .. .. .	5
Cap, nose—M.L.E.R.S., I (back) .. .. .	5
M.L.E.R.S., I (front) .. .. .	5
Catch, slide, back sight, M.L.E.R.S., III .. .. .	5
Cut-off, M.L.M. .. .. .	5
Discs, marking, butt .. .. .	5



APPENDIX 17—continued.

MATERIALS FOR REPAIR AND PRESERVATION OF ARMS—continued.

Description.	Annual Proportion per 1,000 Arms, Mounted Units. Rifles Short, M.L.E., Mark III.
<i>Weedon Section—continued.</i>	
<i>Screws—continued.</i>	
Ejector, M.L.M. . . . .	10
Extractor, M.L.M. . . . .	10
Fine-adjustment, back sight, M.L.E.R.S., I . . . . .	5
Guard, trigger—M.L.E.R.S., I (back) . . . . .	20
M.L.M. (front) . . . . .	5
Keeper—Fine adjustment, M.L.E.R.S., I . . . . .	2
Striker, M.L.E.R.S., I . . . . .	25
Plate, butt, iron . . . . .	4
Protector, back sight, M.L.E.R.S., III . . . . .	5
Sear, M.L.M. . . . .	10
Sight, dial, M.L.M., pivot . . . . .	5
Spring, sight, aperture, M.L.E.R.S., I . . . . .	10
Spring, sight (back)—M.L.E.R.S., I, No. 2 . . . . .	5
M.L.E.R.S., III . . . . .	5
Spring, trap, butt plate, M.L.E.R.S., I . . . . .	10
Stop, charger guide—M.L.E.R.S., I, No. 1 . . . . .	40
M.L.E.R.S., I, No. 2 . . . . .	40
Strap, butt, plate iron . . . . .	2
Swivel, M.L.E.R.S., I . . . . .	40
Wind-gauge, back sight—M.L.E.R.S., I . . . . .	10
M.L.E.R.S., III . . . . .	10
Sears, M.L.E.R.S., I . . . . .	20
Sights, aperture, M.L.M.R. . . . .	5
Slides, back sight—M.L.E.R.S., I . . . . .	2
M.L.E.R.S., III . . . . .	2
<i>Springs—</i>	
Auxiliary, platform, magazine—	
M.L.E.R.S., I, No. 1 . . . . .	20
No. 2 . . . . .	20
Catch, slide, back sight—M.L.E.R.S., I . . . . .	5
M.L.E.R.S., III . . . . .	5
Extractor, M.L.E.R.S., III . . . . .	20
Fine adjustment, back sight—M.L.E.R.S., I . . . . .	20
Guard, hand, rear, double, M.L.E.R.S., I . . . . .	20
Guard, hand, rear, double, M.L.E.R.S., I . . . . .	5
Main M.L.M. . . . .	10
Platform, magazine, M.L.E.R.S., No. 1 . . . . .	20
Retaining, breech bolt, M.L.M. . . . .	5
Screw, hand, inner, M.L.E.R.S., I . . . . .	5
Screw, fine, adjustment, back sight, M.L.E.R.S., I . . . . .	5
Screw, wind-gauge, back sight—	
M.L.E.R.S., I . . . . .	5
M.L.E.R.S., III . . . . .	10
Sear, M.L.M. . . . .	15
Sight aperture, M.L.E.R.S., III . . . . .	20
Sight, back, M.L.E.R.S., III . . . . .	3
Sight, dial, M.L.M. . . . .	2
Stud, fore end, M.L.E.R.S., I . . . . .	5
Trap, butt-plate, M.L.E.R.S., I . . . . .	25
Wind-gauge, back sight, M.L.E.R.S., III . . . . .	25
Stems, swivel, butt, M.L.E.R.S., I . . . . .	5
<i>Stocks, butt, M.L.E.R.S.—</i>	
Mark I—Long . . . . .	3
Normal . . . . .	10
Short . . . . .	3
Mark IX—Long . . . . .	3
Normal . . . . .	10
Short . . . . .	3
Fore end—M.L.E.R.S., I . . . . .	20
M.L.E.R.S., III . . . . .	20
Strikers, M.L.E.R.S., I . . . . .	30
<i>Studs—</i>	
Clip, stop, magazine, M.L.E.R.S., I . . . . .	25
Fore end, M.L.E.R.S., I . . . . .	5
Head, catch, slide, back sight, M.L.E.R.S., I . . . . .	35
Swivels, band, M.L.E.R.S., I . . . . .	25
Traps, butt-plate, M.L.E.R.S., I, No. 2 . . . . .	5
Triggers, M.L.E.R.S., I . . . . .	3
Wads, bolt, stock, M.L.M. . . . .	30
<i>Washers—</i>	
Bolt, stock . . . . .	25
Guard, hand, or rivet, fore end, M.L.E.R.S., I . . . . .	10
Pin, axis, back sight, M.L.E.R.S., I . . . . .	10
Screw, fixing dial sight, M.L.M.R. . . . .	5
Spring, band, inner, M.L.E.R.S., I . . . . .	5
<i>Wind-gauges, back sight—</i>	
M.L.E.R.S., I . . . . .	15
M.L.E.R.S., III . . . . .	5
Worms, fine-adjustment, back sight, M.L.E.R.S., III . . . . .	5

APPENDIX 18  
(Referred to in para. 231).

Articles.	Annual Proportion per 1,000 Arms, Rifles M.L.M., Mark II.
<i>Weedon Section.</i>	
Bands, lower, M.L.M.	3
Beads, pointer, dial, sight, M.L.M. rifle	5
Bolts, M.L.M.—Breech, rifle	15
Stock	1
Bottles, oil—Stoppers	5
Washers	10
Caps, nose	1
Cases, magazine	5
Catches, M.L.M.—Magazine, rifle	5
Safety, carbine	10
Cocking-pieces, M.L.M., carbine	30
Collars, screw, front trigger-guard, M.L.M.	1
Cords, pullthrough	2,000
Covers, M.L.M., bolt, breech, rifle	10
Cut-offs, M.L.M. rifle	5
Extractors, M.L.M. rifle	20
Guards—Hand, M.L.M. rifle	40
Trigger, M.L.M. rifle	1
Gauze, wire, pieces of	2,000
Heads, bolt, breech, M.L.M. rifle	10
Leaves, back sight, M.L.M. rifle	5
Links, magazine, M.L.M. rifle	5
Nuts—M.L.M., rod, rifle	5
Axis—Back sight	5
Trap, butt-plate	10
Pins, M.L.M.—Catch, magazine	10
Catch, safety, carbine	10
Spring platform magazine	5
Stop-band, lower	1
Trigger	5
Plates, butt, M.L.M. rifle	2
Platforms, magazine, M.L.M. rifle	5
Pointers, dial sight, M.L.M. rifle	10
Rivets, M.L.M.—Fore end	2
Spring hand-guard, rifle	10
Screws, M.L.M.—	
Band, lower, rifle	5
Bed, back sight	5
Cap, back sight	5
Cap, nose, rifle	5
Cut-off	10
Ejector	15
Extractor	20
Guard, trigger—Back	25
Front	5
Keeper, striker, carbine	30
Plate, butt (iron)	4
Sear	10
Sight—Aperture, rifle	10
Dial, rifle, fixing pivot	5
Spring—Sight, aperture, rifle	10
back	5
Strap, butt-plate (iron)	2
Spring trap, butt-plate	5
Swivel (piling rifle)	5
Sears, M.L.M.	15
Sights, aperture, M.L.M. rifle	5
Slides, M.L.M., back sight, rifle	5
Springs, M.L.M.—Extractor	40
Guard-band, rifle—Lower	2
Upper	2
Main magazine rifle, Mark I	150
Platform, magazine rifle	25
Pin catch, safety, carbine	10
Retaining, breech-bolt	5
Sear	15
Sight—Aperture, rifle	15
Back	3
Dial, rifle	2
Trap, butt-plate	10
Stocks—Butt, rifle	5
Fore end, rifle	5
Strikers, M.L.M., carbine	30
Swivels, M.L.M.—Band, rifle	5
Butt	5
Piling rifle	30
Traps, M.L.M., butt-plate, rifle	3
Triggers, M.L.M., rifle	3
Wads, bolt, stock, M.L.M.	30
Washers, M.L.M.—Bolt, stock	2
Guard, hand, or rivet, fore end	20
Screw, fixing dial sight, rifle	3

APPENDIX 19

(Referred to in para. 244).

INSTRUCTIONS FOR THE CARE AND PRESERVATION OF THE LEATHER OF HARNESS AND SADDLERY (OTHER THAN THAT HELD FOR MOBILIZATION) IN POSSESSION OF TROOPS.

1. ONCE in every six months the saddlery and harness in possession of the troops is to be laid by in dubbing for two or three days.
2. The whole of the strapping composing the saddlery and harness will be taken to pieces; and after the articles have been cleaned, and while they are damp from the use of a wet sponge, the dubbing will be lightly rubbed in. It may be applied with a rag, sponge, or brush. Dubbing spreads more uniformly, and is incorporated more thoroughly with the fibres of the leather, if applied when the leather is damp. In the winter months the dubbing should be warmed.
3. When the dubbing has had time to penetrate the leather, which will be in two or three days, the residue of tallow on the surface should be rubbed off and the article polished up with a cloth or brush. If this is properly done, and only a sufficiency of dubbing has been used, the leather will not soil the hand or glove when handled.
4. Rifle-buckets, and seats and flaps of saddles, being of uncurried leather and requiring to be kept stiff, should only be very lightly dubbed annually, but occasionally soap sponging is necessary to preserve the grain.
5. Soap should be used daily where articles are in constant use to produce mellowness in the leather rather than an outward gloss. Inspecting officers should handle the straps to ascertain that they are pliable and in good preservation.
6. So long as leather remains dry and clean it needs but little attention beyond receiving a little grease half-yearly; but when wetted, either by rain or by the water necessary to clean it, the leather becomes hard and stiff if not softened by some oily matter.
7. Leather must not be washed with soda nor soaked in water. Its vitality is quite destroyed by being soaked in hot water, and it will be found afterwards to readily crack when bent. Washing the leather with soap and lukewarm water, quickly and without soaking, will not injure it if the precaution is taken to apply oil, dubbing, or good soap while the article is slightly damp.
8. Drying the leather by the fire destroys its durable properties, and is strictly forbidden.
9. Leather articles exposed to the action of ammonia, which is continually given off in stables, becomes weak and rotten sooner than those not so exposed; but the grease of oil, soap, or dubbing applied from time to time penetrates the leather, nourishes it, and fits it to resist the deleterious effects of ammonia and of atmospheric moisture; it also fills up the fibres, makes the leather more mellow, and increases its tensile strength.
10. Soft-soap contains an excess of alkali, and should be sparingly used; if applied freely it gives the leather a dark and sodden appearance.
11. Beeswax and saddle-soaps, commonly used in the service to give a polish to the grain of the leather, are not objectionable, providing good yellow soap is used on the flesh (under) side to keep the leather mellow.
12. Black saddlery leather requires greater care than brown. To give it a good appearance the best blacking only should be used.
13. The harness and saddlery of sick and young horses, when kept in store, should be properly cleaned and soaped, or dubbed, before being stored. The officer immediately responsible should inspect them monthly.

APPENDIX 20

(Referred to in para. 253).

SCHEDULE OF EQUIPMENT OF N.Z.V.C.—VETERINARY HOSPITAL.

Articles.	No.	Remarks.
Aprons—Operating .. .. .	4	
Veterinary .. .. .	15	
Anvils, 56 lb. . . . .	1	
Axes—Felling .. .. .	1	
Pick .. .. .	2	
Barrows, stable .. .. .	1	Per 12 stalls.
Basins, enamel, 14 in. . . . .	6	
Baskets, bottle, half-dozen .. .. .	5	
Boards, inventory .. .. .	1	
Boots, poultice .. .. .	2	
Boxes, dressing .. .. .	4	
Bridles, snaffle .. .. .	1	Per 4 stalls.
Brooms, bass .. .. .	12	Per 8 stalls annually.
Brushes—Tar, long .. .. .	2	
Whitewash, fibre, 9 oz. . . . .	1	Per 20 stalls.
Boilers, portable, 10 gallons .. .. .	1	
Brushes, horse—Body .. .. .	1	Per horse.
Dandy .. .. .	1	”
Bins, food mixing .. .. .	1	
Boxes, tin, despatch .. .. .	1	
Collars, head, stable .. .. .	1	Per stall.

APPENDIX 20—continued.  
 SCHEDULE OF EQUIPMENT OF N.Z.V.C.—continued.

Articles.	No.	Remarks.
Combs, horse—Curry .. .. .	1	Per 3 horses.
Mane .. .. .	1	”
Clipping-machines .. .. .	1	”
Hand .. .. .	6	”
Crowbars .. .. .	1	”
Covers, horse .. .. .	1	Per horse.
Carts, water .. .. .	1	”
Clothing, denim suits .. .. .	2	Per man.
Disinfectors, portable .. .. .	1	Issued on special authority.
Forks, stable, complete .. .. .	1	Per 3 horses.
Flags, Veterinary .. .. .	1	”
Farriers' kit complete—		
Aprons, basil .. .. .	2	”
Bags, tool, farriers' .. .. .	2	”
Buffers, farriers' .. .. .	2	”
Hammers, shoeing .. .. .	2	”
Knives—Drawing .. .. .	2	”
Searching .. .. .	2	”
Pincers—Farriers' .. .. .	2	”
Horn-cutting .. .. .	2	”
Pritchels .. .. .	2	”
Rasps, farriers' .. .. .	2	”
Stones, rag .. .. .	2	”
Forges, with all necessary equipment .. .. .	1	Tongs, turning, lamp; tongs, turning, small; fire, rake, and poker.
Hooks, stable, lantern .. .. .	1	Per lamp.
Hose, rubber, $\frac{3}{4}$ in. (yards) .. .. .	10	Per tap.
Hobbles, horse, casting .. .. .	1	”
Hammers, claw, large .. .. .	1	”
Harness for limber .. .. .	1	Set.
Hammers, striking, forge .. .. .	1	”
Harness, water-cart .. .. .	1	Set.
Kettles, enamelled .. .. .	2	”
Lamps—Brazing, 1 pint .. .. .	2	”
Hurricane .. .. .	1	Per 5 horses in single stable or 10 in double stable where other means of light are not supplied.
Logs, horse, wood .. .. .	1	Per stall.
Machines—Chaffcutting .. .. .	1	On special requisition by A.D.V.S.
Oat-crushing .. .. .	1	”
Mats—Coir, fibre, door .. .. .	1	”
Kicking-bail .. .. .	1	Per stall.
Measures, corn .. .. .	2	”
Muzzles, horse .. .. .	3	”
Nests, hay .. .. .	1	Per horse.
Nose-bags .. .. .	1	”
Pails, I.G.—4-gallons .. .. .	1	Per 3 horses.
4-gallons, unserviceable .. .. .	1	Per 20 stalls.
Slop .. .. .	1	”
Picks, hoof .. .. .	1	Per man of V.C.
Posts, picketing, as required.		
Poles, flag, distinguishing .. .. .	1	”
Rakes, garden .. .. .	2	”
Ropes, head, stable .. .. .	1	Per stall.
Rose and tap, $\frac{3}{4}$ in. .. .. .	1	”
Rugs, horses .. .. .	1	Per stall.
Rope—Picketing, as required.		
Heel, as required.		
Scissors, trimming (pairs) .. .. .	2	”
Shovels, stable .. .. .	1	Per 6 horses.
Slings, horse, Veterinary Hospital .. .. .	1	”
Steelyards, 56 lb. .. .. .	1	”
Saddles, with girths and stirrups .. .. .	2	”
Saws, hand .. .. .	1	”
Screens, wind, 12 ft. by 6 ft. .. .. .	3	”
Tables, ward .. .. .	1	Size as necessary.
Tackles, differential .. .. .	6	”
Towels, hand .. .. .	12	”
Trays, soap, enamelled .. .. .	4	”
Unions, tap .. .. .	1	Per tap.
Wagons, dressing .. .. .	2	”
Wash-hand stands complete with ware (5 pieces) .. .. .	2	”
Wagon, limber .. .. .	1	”

APPENDIX 21

(Referred to in para. 253).

N.Z. VETERINARY CORPS.—SMALL CAMPS.—VETERINARY MOBILE SECTION.

Articles.	No.	Remarks.
Anvils, 56 lb. .. .. .	1	
Axes, felling .. .. .	1	
Bags, nose .. .. .	12	
Barrows, stable .. .. .	2	
Bridles, snaffle .. .. .	2	
Brooms, bass .. .. .	4	
Boilers, 8-gallon .. .. .	1	
Brushes, dandy .. .. .	12	
Collars, head .. .. .	12	
Covers, horse .. .. .	12	
Forks, stable .. .. .	3	
Farriers' kit complete .. .. .	2	
Forges, portable .. .. .	1	
Hammers, claw .. .. .	1	
Nests, hay .. .. .	12	
Picks, hoof .. .. .	6	
Posts, picket .. .. .	12	
Rakes, garden .. .. .	2	
Rugs, horse .. .. .	12	
Ropes—Head .. .. .	12	
Picket, 4 ft. 9 in. .. .. .	12	
Heel .. .. .	12	
Shovels, stable .. .. .	3	
Saws, hand .. .. .	1	
Screens, wind, 12 ft. by 6 ft. .. .. .	3	
Trousers, canvas (pairs) .. .. .	12	
Saddles complete with girths (leather) and stirrups .. .. .	2	

APPENDIX 22

(Referred to in para. 253).

DETAIL OF CONTENTS OF CHESTS, TOOL, FILLED, FARRIERS' AND SHOING-SMITHS.

Description.	Chests, Tool, Filled, Farriers'.	Bags, Tool, Farriers'.
Chests, tool, empty .. .. .	1	..
Bags, tool, farriers' .. .. .	..	1
Chisels, farriers' .. .. .	1	..
Cutters, anvil .. .. .	2	..
Hammers, farriers'—Sledge, 9½ lb. .. .. .	1	..
Turning .. .. .	1	..
Pokers .. .. .	1	..
Pritchels .. .. .	3	1
Slices .. .. .	1	..
Stamps .. .. .	2	..
Tongs, farriers' (pairs)—		
Fire .. .. .	1	..
Turning—Large .. .. .	1	..
Medium .. .. .	1	..
Small .. .. .	1	..
<i>Shoing-tools.</i>		
Aprons, basil .. .. .	2	1
Bags, tools .. .. .	1	..
Buffers .. .. .	1	1
Hammers, shoing .. .. .	1	1
Knives—Drawing .. .. .	2	2
Searching .. .. .	1	1
Pincers (pairs)—Farriers' .. .. .	1	1
Horn, cutting .. .. .	1	1
Rasps, farriers', 16 in. or 14 in. .. .. .	4(a)	2
Stones, rag, farriers' .. .. .	1	1

(a) Renewable quarterly.

## APPENDIX 23

(Referred to in para. 253).

## SCHEDULE OF FARRIERS' TOOLS FOR CAMP.

Articles.	No.	Remarks.
Aprons, basil .. .. .	1	
Bags, tool farriers' .. .. .	1	
Buffers .. .. .	1	
Hammers, shoeing .. .. .	1	
Knives—Drawing .. .. .	2	
Searching .. .. .	1	
Pincers—Farriers' .. .. .	1	
Horn-cutting .. .. .	1	
Pritchels .. .. .	1	
Rasps, farriers' .. .. .	2	
Stones, rag .. .. .	1	

## APPENDIX 24

(Referred to in Para. 141).

## STABLE NECESSARIES.

Articles.	No.	Remarks.
<i>Section 5a.</i>		
Bags, nose, G.S. .. .. .	1	Per horse or mule.
Brushes—Harness, hard .. .. .	1	Per double set of harness and per set of mule, breast, per annum.
Dandy .. .. .	2	Per horse or mule per annum.
Combs, curry .. .. .	1	Per horse or mule.
Pans, oil .. .. .	2	Per squadron or company.
Rubbers, horse .. .. .	2	Per horse or mule per annum.

## APPENDIX 25

(Referred to in para. 219).

Receipt voucher No. V.	Issue voucher No. V.
Account: Auckland O.S.	Account: Auckland O.S.
Period of account ending 31/5/17.	Period of account ending 31/5/17.

## CONVERSION VOUCHER.

Folio.	Articles struck off.	No.	Folio.	Articles brought on.	No.
	<i>Section 7.—Tools.</i>	S			S
	Hammers—Sledge, heads, 14 lb.	1	}	Hammers, sledge, 14 lb. ..	1
	Handles, 36 in. ..	1			
	<i>Section 4.—Timber.</i>				
	Timber, rimu, 14 in. by 1 in. (ft. run)	100	}	Case, wood, packing ..	6
	<i>Section 9a.—Glue.</i>				
	Glue, best town-made (lb.) ..	2			
	<i>Section 10a.—Nails.</i>				
	Nails, wire, flat head, 1½ in. (lb.)	2	}	<i>Section 5a.—Harness, A.S.C. Repairs.</i>	
	<i>Section 6b.</i>				
	Hides, brown, backs.				
	Collar (lb.) .. .. .	40			
	Dees, steel, 2 in. by 2 in. ..	16	}	Collars, breast, Mk. IV 8.	
	Thread, whited, brown (lb.) ..	¼			

Certified that the articles in question have been used for repairs of articles as shown and have been brought on charge in accounts.

.....  
Captain.

APPENDIX 26

(Referred to in para. 244).

MATERIALS FOR PRESERVATION OF HARNESS, SADDLERY, AND PACK-SADDLERY.

Description.	Peace (Twelve Months' Supply).				War.				
	Harness, per Single Set.				Pack-saddlery per Set.	Saddlery, per Set.	Harness, per Double Set.	Pack-saddlery, per Set.	Saddlery, per Set.
	P.D.G.S. Shaft, Draught, and G.S. Mule (Breast).	A.S.C.	Mule (Breast).						
Home.			Abroad.						
<i>Section 9a.</i>									
Dubbing (lb.) ..	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{4}$	1	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{16}$
Oil, sperm (pints) ..	$2\frac{1}{4}$	$3\frac{1}{4}$	$\frac{1}{4}$	$\frac{1}{4}$	$\frac{3}{4}$	$\frac{3}{4}$ (a)	..	..	..
Soap—Soft (b) (lb.)	6	$6\frac{1}{2}$	6	6	$\frac{3}{4}$	$\frac{3}{4}$	..	..	..
Yellow (bars)	$2\frac{1}{2}$ (c)	$3\frac{1}{4}$	2	1	$2\frac{1}{2}$	$2\frac{1}{2}$ (c)	..	..	..

(a) One pint per set for M.M.P.  
 (b) Half a bar of yellow soap may be drawn in lieu of 1 lb. soft-soap, but such an exchange not to exceed half the allowance. Soft-soap must not be drawn in lieu of yellow soap, as the excessive use of the former is detrimental to the leather.  
 (c) Three and a half bars per set for R.F.A. training brigades.

N.B.—The above quantities may be increased one-sixteenth for colonial stations, if found necessary, by order of the General Officer Commanding, except for mule harness, which has a special allowance.

APPENDIX 27

(Referred to in para. 206).

INSTRUCTIONS FOR MARKING VEHICLES AND BICYCLES.

1. THESE INSTRUCTIONS are issued with the object that when required for use on mobilization every vehicle shall be marked so as to show the title of the unit to which it belongs and the formation to which the unit is allotted.

2. These marks, called "corps marks," are to be on the same system for all vehicles, and for all branches of the service. The position of the marks will be as follows:—

- Gun and howitzer carriages .. On trail, off side.
- Limbers and ammunition-wagons—
  - Q.F. 13-pr. and 18-pr., and B.L.C. Centre of back of ammunition-boxes.
  - 15-pr.
  - B.L. 60-pr.—
  - Gun limbers .. .. Back of off limber-box, close to top.
  - Ammunition-wagons and limbers .. .. Back of ammunition-box, off side, close to top.
- B.L. 6 in. howitzer .. .. Back of limber-box, near side, close to top.
- B.L. 5 in. howitzer .. .. Back of ammunition or limber box, off side, close to top.
- Q.F. 4.5 in. howitzer .. .. Back of ammunition or limber box, off side, low down.
- Carts, cable .. .. Off side of front box.
- Carts, water-tank—
  - Marks X and II .. .. On rear end of tank, off side.
  - Marks IIA and IIB .. .. Off side of tank, low down, at front.
- Wagons—
  - Air-line .. .. Off side of front box, low down.
  - Cable .. .. Off side of futchel of body and off side of footboard of limber.
- G.S., Marks VII to IX .. .. On diagonal portion of body under the footboard, off side.
- Telephone .. .. On off block supporting drum-bearings of wagon body at front, and on off side of limber-box.
- Other vehicles (if construction admits) .. .. On body of vehicles, off side, as far to the front as possible and low enough to be clear of the cover. Limbered vehicles will be marked on both portions.
- Bicycles .. .. Across the rear mudguard, 4 in. above the bridge, and on the upper side of the bottom tube, commencing just clear of the bottom lug of the ball-head.
- Mountain Artillery pack-saddlery—
  - Saddles .. .. In most convenient position, off side.

3. "Corps marks" generally require two lines: First line, title of unit ("17th Ruahine Regiment"); second line, formation to which unit is allotted ("1st Infantry Brigade"). Table 1 shows the abbreviations to be used for titles of units; Table 2 gives examples of first and second lines.

4. In addition to the above-named corps marks there are a number of details, chiefly for regimental convenience, marked on certain vehicles, such as the nature of gun, number or letter of subsection, number of wagon, &c. These details are not to be mixed up with the corps marks, and will be placed in Table 3. The general principles indicated in that table should be followed in marking any vehicles for which specific details are not given.

5. All vehicles in possession of medical units will be marked with the Geneva cross in addition to corps marks, &c.

6. The marking of vehicles will be performed by hand-painting by battery and regimental artificers. In the absence of artificers trained to hand-painting, vehicles will be marked by the A.O.D. White paint will be used for all markings with the exception of the Geneva cross, which will be red on white ground, and the lettering of bicycles enamelled orange colour, for which black paint will be used. The size of letters and figures will be as laid down in Table 4

7. Vehicles which are on charge to various corps for local purposes will be marked to show the purpose to which they are locally appropriated.

*Weight and Load.*

8. The weight of vehicle and the weight of load the vehicle is designed to carry will be marked on the near side of vehicles, as near the centre as possible, low down.

TABLE 1.—SHOWING ABBREVIATIONS TO BE USED IN FIRST-LINE MARKING, WHICH SHOWS THE TITLE OF THE UNIT.

Unit.	Abbreviation.
D Battery, N.Z. Field Artillery .. ..	D.N.Z.F.A.
5th Company, N.Z. Garrison Artillery .. ..	5 N.Z.G.A.
No. 1 Mountain Battery, N.Z. Garrison Artillery .. ..	1 M.N.Z.G.A.
N.Z. Mounted Brigade, Ammunition Column.. ..	Mtd. Bde. A. C.
2nd Brigade, N.Z. Field Artillery Ammunition Column	2nd Bde. N.Z.F.A. A.C.
Field Depot, N.Z. Engineers .. ..	Fd. Dep. N.Z.E.
1st Field Company, N.Z. Engineers.. ..	1st Fd. Co. N.Z.E.
1st Brigade, N.Z. Mounted Rifles .. ..	1 Bde. N.Z.M.R.
17th Ruahine Regiment .. ..	17th Ruah. R.

(In accordance with abbreviated titles as laid down in Official Army List.)

TABLE 2.—EXAMPLES OF FIRST- AND SECOND-LINE MARKING (Referred to in para. 3 of this Appendix.)

Unit.	Sample of Marking.
Headquarters of a division .. ..	Hd. Qrs.
Headquarters of Divisional Artillery .. ..	Hd. Qrs. N.Z. Art.
Headquarters of Engineers .. ..	Hd. Qrs. N.Z. Eng.
Headquarters of Ammunition Column .. ..	Hd. Qrs. N.Z. Div. A.C.
Headquarters of Infantry Brigade .. ..	Hd. Qrs. 2nd Inf. Bde.
Headquarters of N.Z. Field Artillery Brigade .. ..	3 Bde. Hd. Qrs. N.Z.F.A.
Headquarters of N.Z. Mounted Rifles Brigade .. ..	Hd. Qrs. Mtd. Bde.
N.Z. Mounted Rifles Regiment .. ..	1st Mtd. Rifles. 2 Mtd Bde.
N.Z. Engineers—	
Field Squadron .. ..	1 Fd. Sqdn. 2 M.R. Bde.
Signal Troop .. ..	1 Sig. Sqdn. 2 M.R. Bde.
N.Z.M.C. Field Ambulance .. ..	14 Fd. Amb. V. Div.
Infantry Battalion—	
With Infantry Brigade.. ..	3rd Regt. 2 Inf. Bde.
With Army troops .. ..	4 Regt. Army Troops.
On lines of communication .. ..	17 Regt. L. of C.

TABLE 3.—EXAMPLES OF TRAIN TRANSPORT MARKING (INCLUDING REGIMENTAL DETAILS.) (Referred to in para. 2 of this Appendix.)

Unit.	Example of Marking.
Vehicles of A.S.C. units—	
Headquarters of Divisional Train .. ..	Hd. Qrs. IV Div. Train. Postal Services.
Headquarters company of Divisional Train .. ..	Hd. Qrs. Co. IV Div. Train. A.S.C. No. 1(a).
Other companies of Divisional Train .. ..	3 Co. IV Div. Train. A.S.C. No. 2(a).
Army Troops Train .. ..	Army Tps. Train. A.S.C. No. 3(a).
Vehicles of other units detached to—	
Headquarters company of Divisional Train .. ..	No. 20 Supplies(b). Hd. Qrs. Co. IV Div. Train. D.F.A.(c). No. 6(d).
Other companies of Divisional Train .. ..	No. 21 Baggage(b). 3 Co. IV Div. Train. M. Rgt.(c). No. 2(d).
Army Troops Train .. ..	No. 15 Supplies(b). Army Tps. Train. 4 Rgt.(c). No. 3(d).

- (a) A.S.C. Train number of vehicle.  
 (b) A.S.C. Train number of vehicle and contents.  
 (c) Unit from which detached.  
 (d) Unit number of vehicle.



APPENDIX 27—continued.

TABLE 4.—REGIMENTAL DETAILS TO BE MARKED ON VARIOUS VEHICLES.  
(Referred to in para. 4 of this Appendix.)

Vehicles.	Nature and Position of Marks.
<i>New Zealand Field Artillery.</i>	
Gun and howitzer carriages	Nature of piece and letter of subsection on trail near side: e.g., "4.5 in. Q.F. Hr.—B."
Q.F. gun limbers and ammunition-wagon	Nature of gun on lid of ammunition-box, right bottom corner: e.g., "13-pr. Q.F." Letter of subsection on lid of ammunition-box, left top corner.
Q.F. howitzer limbers and ammunition-wagon	Nature of howitzer on lid of ammunition-box, near side, low down: e.g., "4.5-in. Q.F. Hr." Letter of subsection on lid of ammunition-box, left top corner.
<i>New Zealand Garrison Artillery.—Heavy Batteries.</i>	
B.L. gun carriage	Nature of gun and letter of subsection on trail, near side: e.g., "60-pr. B.L.—D."
B.L. gun limbers	Nature of gun on plate securing off limber-box. Letter of subsection on back of near limber-box, left top corner
Ammunition-wagons	Nature of gun on brake-bar, off side. Letter of subsection on lid of ammunition-box, left top corner.
Ammunition-wagon limbers	Nature of gun on "box, under," rear of axle-tree, off side. Letter of subsection on lid of ammunition-box, left top corner.

Vehicles.	Nature and Position of Marks.	
	The words "Moveable Arms."	Other Marks.
Gun and howitzer carriage	On trail, off side	Nature of piece and letter of subsection on trail, near side: e.g., "15-pr. Q.F.—C."
15-pr. Q.F. and B.L.C. limbers and ammunition-wagon	On centre of back of ammunition-box	Nature of gun on lid of ammunition-box, right bottom corner: e.g., "15-pr. Q.F." Letter of subsection on lid of ammunition-box, left top corner.
5-in. B.L. howitzer limbers and ammunition-wagons	On back of ammunition-box, off side, at top	Nature of howitzer on back of ammunition-box, near side, at top: e.g., "5-in. B.L. Hr." Letter of subsection in left top corner of ammunition-box.
6-in. 30-cwt. B.L. howitzer limbers	On back of limber-box, near side, close to top	Nature of howitzer and letter of subsection on rear of bed: e.g., "6-in. B.L.Hr.—B."
4.7 in. Q.F. limbers	On centre of back of limber-box	Nature of gun and letter of subsection on back of limber, off side, below limber-box: e.g., "4.7 in. Q.D.—B."
Carriages, M.G., Infantry, Maxim, .303 in.—		
Mark I	On centre of front plate	Nature of piece on centre of front plate, near top: e.g., ".303 in. Maxim gun."
Mark II	On back of off-locker	Nature of piece on back of near locker.
Mark III	On rear of carriage, off side	Nature of piece on rear of carriage, near side.

*General Service Vehicles (1st Line Transport only).*

The nature of contents and number of vehicle should be placed as near to corps marks as convenient (see diagrams referred to in para. 4 for examples). These details will be marked on train transport vehicles as shown in Table 3.

APPENDIX 28  
(Referred to in para. 241).

Description of Articles.	Sets 5.	Sets 8.	Sets 25.	Sets 40.
ANNUAL ALLOWANCE FOR REPAIRS.—HARNESS, DRAY.—SCHEDULE 1.				
<i>Wheel Sets.</i>				
Buckles, iron, black—1 in. . . . .	10	16	50	80
1½ in. . . . .	10	16	50	80
1¾ in. . . . .	15	24	75	120
2½ in. or 3 in. . . . .	3	4	13	20
Bridge, cart-saddle . . . . .	1	1	3	4
Chains—Breeching, cart, 3½ in. . . . .	2	3	8	12
Crupper, 1½ in. . . . .	2	3	8	12
Back . . . . .	3	4	13	20
Tap . . . . .	3	4	13	20
Check, collar . . . . .	6	9	28	44
Dees, 3 in. or 3½ in. . . . .	1	2	5	8
Dye, black (pints) . . . . .	1	2	5	8
Hemp, best common (balls) . . . . .	6	9	22	48
Hair, horse, curled . . . . .	10	16	50	80
Hooks, hame . . . . .	2	3	8	12
Irons, bridge, cart-saddle . . . . .	1	2	5	8
Leather—Harness, black, sides . . . . .	1	2	5	8
Collar, facing . . . . .	1	1	3	4
Rings, 1½ in. . . . .	1	2	5	8
Rivets, copper, with washers (¾ in. by 6 in.) . . . . .	1	2	5	8
Tree, frame, cart-saddle . . . . .	1	1	3	4
Tacks, cart—¾ in. . . . .	1	2	5	8
¾ in. . . . .	1	1	3	4
Wax, black (balls) . . . . .	6	9	22	48
<i>Leading Harness.</i>				
Buckles, iron, black—1 in. . . . .	10	16	50	80
1½ in. . . . .	10	16	50	80
1¾ in. . . . .	3	4	13	20
Basils . . . . .	2	3	8	12
Check, collar (yards) . . . . .	3	5	15	24
Chains, hip, strap . . . . .	2	4	10	16
Dees, iron, black, 2½ in. . . . .	3	4	13	20
Dye, black (pints) . . . . .	1	1	1	2
Hemp, best common (balls) . . . . .	4	8	20	32
Hooks, leading, backband . . . . .	1	2	5	8
Hair, horse, curled . . . . .	6	10	30	40
Hooks, plough . . . . .	4	6	18	24
Leather, harness, black, sides . . . . .	1	1	3	4
Rings, iron, black, 1½ in. . . . .	1	2	5	8
Wax, black (balls) . . . . .	4	8	20	32
ANNUAL ALLOWANCE FOR REPAIRS.—HARNESS, SPRING CART 10.				
Buckles, brass, harness—¾ in. . . . .	3	5	15	24
1 in. . . . .	3	5	15	24
1½ in. . . . .	3	5	15	24
Roller, ¾ in. . . . .	3	5	15	24
1 in. . . . .	1	2	5	8
1½ in. . . . .	1	2	5	8
1¾ in. . . . .	1	2	5	8
Tug shaft, 1¾ in. . . . .	1	2	5	8
Basils . . . . .	3	5	15	24
Hair, horse, curled (lb.) . . . . .	3	4	13	20
Hair, cow (lb.) . . . . .	4	8	20	32
Hemp, best common (balls) . . . . .	6	9	22	48
Leather—Harness, black or brown (sides)	1	2	5	8
Sole, strips, 1¾ in. by 15 in. . . . .	10	16	50	80
Loops, brass, tug, 1¾ in. (pairs) . . . . .	1	2	5	8
Tree, van, saddle . . . . .	1	2	3	4
Wax, black (balls) . . . . .	7	12	36	48
ANNUAL ALLOWANCE FOR REPAIRS, HARNESS, A.S.C. (LOCAL PATTERN) 10, DOUBLE.				
Basils . . . . .	3	4	13	20
Buckles—Brass, harness—1 in. . . . .	3	5	15	24
1½ in. . . . .	3	4	13	20
1¾ in. . . . .	1	1	3	4
1½ in. . . . .	3	4	13	20
1¾ in. . . . .	3	4	13	20
Brass, roller, 1 in. . . . .	2	4	12	16
Iron, double, black, 1½ in. . . . .	2	4	12	16
Brass, pole, strap, 1¾ in. . . . .	2	4	12	16
Chains, bas, trace-ends, 2 in. . . . .	1	3	9	12
Felt, ¾ in. (yards) . . . . .	¼	¼	½	1
Hemp, best, common (balls) . . . . .	6	9	22	48
Leather, brown harness (sides) . . . . .	2	3	8	12
Rings, iron, 2½ in. . . . .	1	2	5	8
Rivets and washers, copper, ¾ in. by 7 in. . . . .	1	2	5	8
Stain, brown (pints) . . . . .	1	2	5	8
Square brass, stopped, 1½ in. by 1½ in. . . . .	2	4	10	16
Tacks, cut ¾ in. (packets) . . . . .	1	2	5	8
Triangles and links . . . . .	3	5	15	24
Wax, black (balls) . . . . .	6	9	22	48

APPENDIX 28—continued.

Description of Articles.	Sets 5.	Sets 8.	Sets 25.	Sets 40.
ANNUAL ALLOWANCE FOR REPAIRS, HARNESS, P.D.G.S., SINGLE.				
Attachments, releasable .. .. .	1	1	2	8
Buckles—Single, nickle, 1 in. .. .. .	1	1	3	4
Brass, harness—1½ in. .. .. .	1	1	3	4
1½ in. .. .. .	1	1	3	4
(Heavy) 1½ in. .. .. .	1	1	3	4
Dees, iron, 2 in. by 2 in. .. .. .	1	1	3	4
Felt, ½ in. (yards) .. .. .	¼	¼	½	1
Hemp, best common (balls) .. .. .	6	9	22	48
Hooks, trace .. .. .	1	1	3	4
Links, double—⅝ in. .. .. .	1	2	5	8
⅜ in. .. .. .	3	6	11	28
Trace, wire, short .. .. .	1	1	3	4
Leather—Brown harness, heavy (sides) .. .. .	1	1	3	4
Facing collar (sides) .. .. .	1	1	3	4
Rings—Iron, 1½ in., with chains .. .. .	1	1	3	4
Steel, with link .. .. .	1	1	3	4
Rivets, copper—¼ in. by 6 in. .. .. .	3	5	15	24
¼ in. by 6 in. .. .. .	3	5	15	24
¼ in. by 12 in. .. .. .	6	9	22	48
Squares, iron, 1½ in. .. .. .	1	2	5	8
Swivels, with shackle .. .. .	1	1	3	4
Stain, brown, pints .. .. .	1	1	3	4
Tacks, cut, ¾ in. (packets) .. .. .	1	1	3	4
Washers, copper, Nos. 6 and 12 (each) .. .. .	6	9	22	48
Wire, flexible, steel galvanized, 1 in. each (fathoms) .. .. .	2	4	11	14
Wax, black (balls) .. .. .	6	9	22	48
<i>Saddles, Steel, Arch.</i>				
Arches, steel (pairs) .. .. .	1	1	3	4
Bars, wood (pairs) .. .. .	1	1	3	4
Buckles, brass, short leg roller, heavy, 1½ in. .. .. .	6	10	36	40
Dees, brass, heavy, 1 in. .. .. .	3	5	15	24
Rivets, iron—¾ in. by 1½ in. .. .. .	2	4	10	16
¾ in. by 1½ in. .. .. .	4	8	20	32
Web, straining, 3 in., fr. .. .. .	12	20	72	80

Description of Articles.	Sets 6.	Sets 15.	Sets 40.	Sets 100.
ANNUAL ALLOWANCE FOR REPAIRS, SADDLES, RIDING (LOCAL PATTERN).				
Basils (6) .. .. .	1	2	3	6
Bag-hide, plain, shaved sides .. .. .	..	..	..	1
Canvas, No. 6, duck (yards) .. .. .	..	..	¼	½
Clouts, saddles, ½ in.—¾ in. each packet .. .. .	..	..	..	1
Dees, saddle, ⅞ in. brass .. .. .	3	5	15	24
Flaps, saddle (pairs) .. .. .	..	1	2	3
Hemp—No. 9, patent (balls) .. .. .	1	2	3	6
Best common (balls) .. .. .	1	2	3	6
Hair, cow (lb.) .. .. .	2	4	12	30
Hessian (yards) .. .. .	..	..	¼	¾
Leather, sole, for bellies (lb.) .. .. .	..	¼	¾	1½
Nails, saddle, brass .. .. .	5	8	12	24
Stain, brown (pints) .. .. .	..	..	1	2
Straps, girth (sets), (6 per set) .. .. .	5	8	13	25
Serge (yards) .. .. .	3	6	10	20
Skirts (pairs) .. .. .	..	1	2	3
Staples, saddle, brass, ⅞ in. .. .. .	5	8	12	24
Tree, saddle (size, &c., as required) .. .. .	..	..	..	1
Twine, quilting (lb.) .. .. .	1 oz.	2 oz.	¼	½
Tacks—¾ in.—¾ in. packets .. .. .	..	..	..	1
¾ in. packets .. .. .	..	..	1	2
Web—2½ in. best straining, strained (yards) .. .. .	1	2	3	6
3 in. best strained (yards) .. .. .	1	1	2	3
<i>Bridles, Girths, &amp;c.</i>				
Buckles—Military, whole brass—1½ in. .. .. .	1	1	2	5
1½ in. .. .. .	1	2	5	12
¾ in. .. .. .	3	5	15	24
Roller, short leg—¾ in. .. .. .	1	2	3	6
1½ in. .. .. .	1	2	5	12
Stirrup, leather, polished, steel, 1½ in. .. .. .	3	5	15	24
Girth, hard, tind 1 in. .. .. .	2	5	13	36
Leather—				
Bridle, London colour—Heavy side .. .. .	¼	¼	½	1
Medium side .. .. .	¼	¼	½	1
Stirrup—				
Rings—1½ in., brass .. .. .	1	2	3	6
1½ in., brass .. .. .	1	2	3	6
Squares, stopped, brass, 1½ in. by 1½ in. .. .. .	1	2	3	6
Thread, machine, assorted, as required (lb.) .. .. .	¼	¼	¼	½
Wax, bees- .. .. .	¼	¼	¼	½

## APPENDIX 28—continued.

Sets of Articles.	Sets 6.	Sets 15.	Sets 40.	Sets 100.
<b>ANNUAL ALLOWANCE FOR REPAIRS, SADDLES, RIDING (LOCAL PATTERN)—contd.</b>				
<i>Bags, Nose, 100.</i>				
Buckles, iron, black, 1½ in. .. ..	1	1	2	5
Canvas, No. 6, duck (yards) .. ..	½	1	2	4
Eyelets, brass—B2 (gross) .. ..	½ doz.	1 doz.	½	½
B4 (gross) .. ..	½ doz.	1 doz.	¼	½
Rivets, tubular— $\frac{3}{16}$ in. .. ..	3	8	20	50
$\frac{7}{16}$ in. .. ..	6	16	40	100
Thread, machine (lb.) .. ..	2 oz.	2 oz.	¼	½
<b>ANNUAL ALLOWANCE FOR REPAIRS, COLLARS, HEAD, STABLES.</b>				
Buckles, iron, black (1¼ in. or 1½ in. as required)	1	2	4	10
Chain, coil, $\frac{3}{16}$ in. (lb.) .. ..	..	..	1	1
Hemp, best common (balls) .. ..	1	1	1	2
Links, mending 1¼ in. over all .. ..	3	5	15	24
Leather, collar-facing, brown (side) .. ..	¼	¼	½	1
Rings, iron, 1½ in. .. ..	1	2	5	12
Rivets and washers, $\frac{5}{8}$ in. by 7 in. (lb.) .. ..	¼	½	1	2
Stain, brown (pints) .. ..	¼	¼	½	1
Squares, iron, 1¼ in. (or size as required) .. ..	1	2	4	10
Thread, machine, 6-card (lb.) .. ..	1 oz.	2 oz.	¼	½
Wax, bees- .. ..	¼	¼	¼	¼
<i>Covers, Horse.</i>				
Buckles, iron—Black, single, 1 in. .. ..	3	5	15	24
Double, hobble, 1¼ in. .. ..	1	1	3	6
Canvas, No. 6, duck (yards) .. ..	1	1	4	10
Dees, iron, 1 in. .. ..	1	2	6	12
Hooks, trojan, 1 in. .. ..	1	2	6	12
Lining, cover (yards) .. ..	1	1	4	8
Leather, collar-facing, medium (sides) .. ..	..	¼	½	1
Rivets and washers, copper, $\frac{5}{8}$ in. by 7 in. (lb.) .. ..	¼	½	1	2
Rivets tubular, coppered, $\frac{3}{16}$ in. .. ..	6	16	40	100
Thread, machine, 5-cord (lb.) .. ..	2 oz.	¼	½	1

## APPENDIX 29

(Referred to in paras. 172–181).

## TOOLS FOR ARMOURERS.

Table 1.—Tools for the Repair of Rifles, Short, M.L.E.

Description.	Quantity allowed.	Remarks.
<i>Weedon Section.</i>		
Boxes, tool, empty, regimental, armourers', Mark II	1	
Anvils, stock, butt—M.L.E. .. ..	1	
R.S.M.L.E. .. ..	1	
Awls, blades, armourers' .. ..	2	
Boxes, oilstone, dust .. ..	1	
Braces, armourers' .. ..	1	
Bits—Countersink, rose .. ..	1	
Rimer—Half-round .. ..	1	
Four-square .. ..	1	
Five-square .. ..	1	
Screwdriver—Butt, plate, screw .. ..	1	
Stick, cleaning chamber .. ..	1	
Stock-bolt, M.L.M. .. ..	1	
Spoon .. ..	1	
Bushes, stop, rod, cleaning, .303 in. No. 2*	1	*To be placed on rod No. 2 to make it suitable for R.S.M.L.E.
Cans, oil, lubricating, armourers' .. ..	1	
Chisels, hand, cold—½ in. x 7 in. .. ..	1	
¾ in. x 7 in. .. ..	1	
Clams, vice—		
Parallel		
Regimental } Cork-lined (pairs) .. ..	1	
Armourers' } Leather-lined .. ..	1	
Standing, armourers' .. ..	1	
Corks, clam .. ..	4	

APPENDIX 29—continued.

TOOLS FOR ARMOURERS—continued.

Description.	Quantity allowed.	Remarks.
Drifts, fore end, M.L.M. rifle—Mark Ix ..	1	
Mark II ..	1	
Drifts—Magazine, catch-pin, M.L.M. ..	1	
Pin, fixing, stud, head, catch, slide, sight, back, R.S.M.L.E. ..	1	
Pin, fixing, washer, pin, axis, sight, back, R.S.M.L.E. ..	1	
Sight, axis, pin, M.L.M. .. ..	1	
Wire, small .. ..	1	
Floats, fore end, M.L.M.—No. 1 .. ..	1	
No. 2 .. ..	1	
Gauges, armourers'—		
Distance of bolt from end of chamber, M.L.M.—		
0·064 in. .. ..	1	
0·074 in. .. ..	1	
Pistol, Webley—		
Hammer projection and radius of point ..	1	
Distance of cylinder from face of body, 0·052 in., rejecting ..	1	
Projection of stock-bolt through body, R.S.M.L.E. ..	1	
Striker, point, pattern " C " .. ..	1	
Guides, muzzle, No. 2 .. ..	1	Remove the nose-cap before attaching the muzzle-guide.
Implements, action, M.L.E. rifle, short ..	1	
Mallets—Raw hide(b) .. ..	1	
Scabbard, sword, Cavalry(a) .. ..	1	
Mandrills—		
Scabbard, sword, Cavalry(a) .. ..	1	
Scabbard, sword-bayonet, pattern 1888—		
Blocking leather—Mark I .. ..	1	
Mark II .. ..	1	Pattern 1888, Mark IIX, and pattern 1903, Mark I. Also required when fitting pattern 1907, Mark II, chape to pattern 1903 scabbard.
Chape .. ..	1	
Locket .. ..	1	Pattern 1888, Marks I and IIX, pattern 1903, and pattern 1907.
Scabbard, sword-bayonet, pattern 1907—		
Blocking leather .. ..	1	Pattern 1907, Marks I and II.
Chape, Mark II .. ..	1	Also for fitting Mark II chape to Mark I scabbard.
Pincers, armourers' (pairs) .. ..	1	
Planes, smoothing, armourers' .. ..	1	
Plates, screw—20 taps, 20 holes (sets) ..	1	
6 taps, 6 holes (sets) ..	1	
Plugs, clearing—Plain, .303 in. arms ..	1	
Split, M.L.M. rifle .. ..	1	
Pots, glue, ½-pint .. ..	1	
Rods, cleaning—Cylinder, pistol, Webley ..	1	For use with brass wire.
.303 in.—No. 1 .. ..	1	For jute.
No. 2(a) .. ..	1	For use with brass wire. Can be used for M.L.E. short rifles only when fitted with " Bush, stop-rod, No. 2."
No. 4 .. ..	1	For use with brass wire.
Saws, slitting, 7½ in. .. ..	1	
Screwdrivers—Armourers'—Large .. ..	2	
Small .. ..	1	
Extractor, axis, M.L.M. .. ..	1	
Fork, dial sight, M.L.M. .. ..	1	
Forked, nut, screw, grip, sword-bayonet, pattern 1888, Mark III ..	1	And patterns 1903 and 1907.
Nut, bolt, sword-bayonet, pattern 1903 ..	1	And pattern 1907.
Scribers, tool, sight line, R.S.M.L.E. ..	1	
Sticks—Buff .. ..	3	
Cleaning chamber .303 in. arms ..	1	
Gauze, wire (pieces) .. ..	1	
Stones, oil—Armourers' .. ..	1	
Alipa, Arkansas, large .. ..	1	
Testers, trigger, pull .. ..	1	

## APPENDIX 29—continued.

## TOOLS FOR ARMOURERS—continued.

Description.	Quantity allowed.	Remarks.
Tools—		
Adjusting, fore sight, R.S.M.L.E.—		
Cramps .. .. .	1	
Punches .. .. .	2	
Clearing .303 in. arms—		
Bits—Screw .. .. .	1	
Spoon .. .. .	1	
Bushes, bit, screw .. .. .	1	
Rods, No. 2 .. .. .	1	
Extractor spring .. .. .	1	
For alteration of cocking-pieces, R.S.M.L.E.—		
Broaches .. .. .	2	
Taps .. .. .	3	
Tools, recessing .. .. .	1	
Removing—Handguard, No. 1 .. .. .	1	For R.S.M.L.E., Mark III and converted Mark IV.
Plate, keeper, screw wind-gauge, R.S.M.L.E.	1	Mark I and IX and converted Mark II and IX.
Striker, R.S.M.L.E. .. .. .	1	
Wad, stock-bolt .. .. .	1	
Sight line, R.S.M.L.E.—No. 1 .. .. .	1	Mark I and IX and converted Mark II and IX.
No. 2 .. .. .	1	Mark III and converted Mark IV.
Vice, parallel, regimental armourers' .. .. .	1	For Mark II box only.
<i>Section 7.</i>		
Awls, handles, brad, small .. .. .	2	
Chisels, firmer— $\frac{3}{4}$ in. .. .. .	1	
$\frac{1}{2}$ in. .. .. .	1	
$\frac{1}{4}$ in. .. .. .	1	
Files—		
Bastard—Flat, 6 in. .. .. .	2	
Half-round, 6 in. .. .. .	2	
Round, 8 in. .. .. .	1	
Square, 8 in. .. .. .	1	
Fine cut, hand, safe edge, tanged—10 in. .. .. .	2	
8 in. .. .. .	2	
Regular cut, half-round—10 in. .. .. .	2	
8 in. .. .. .	1	
Saw, taper, second cut, single—6 in. .. .. .	2	
3 in. .. .. .	2	
Second cut—Half-round, 4 in. .. .. .	2	
Round, 4 in. .. .. .	2	
Smooth—Flat, 6 in. .. .. .	1	
Half-round—8 in. .. .. .	1	
6 in. .. .. .	2	
4 in. .. .. .	1	
Hand, safe edge—8 in. .. .. .	2	
4 in. .. .. .	1	
Pillar—6 in. .. .. .	2	
3 in. .. .. .	1	
Round, 4 in. .. .. .	2	
Three-square, 4 in. .. .. .	1	
Dead-smooth, half-round, 6 in. .. .. .	1	
Gimlets, twist, Nos. 2, 3, and 5 .. .. .	5	
Gouges, handled, firmer— $\frac{3}{4}$ in. .. .. .	1	
$\frac{1}{2}$ in. .. .. .	1	
$\frac{1}{4}$ in. .. .. .	1	
Hammers, riveting—24 oz. .. .. .	1	
4 oz. .. .. .	1	
Handles, file—Large .. .. .	6	
Small .. .. .	6	
Holders, file, with handle, half-round—10 in. .. .. .	1	
8 in. .. .. .	1	
Irons, soldering, tinman's, small .. .. .	1	
Pliers, flat nose (pairs) .. .. .	1	
Rasps, second cut, half-round, 9 in. .. .. .	1	
Saws, hand, 23 $\frac{1}{4}$ in. .. .. .	1	
Stocks, drill, hand, Mark II .. .. .	1	
Vices, hand, 16 oz. .. .. .	1	
<i>Section 27.</i>		
Cartridges, small - arm, dummy, .303 in., inspectors	20	Mark IV for units in possession of rifles altered to suit Mark VII ammunition; Mark III for other units.

APPENDIX 29—continued.

Table 2.—Detail of Contents of Bags, Armourers' S.A.

Description.	Quantity allowed.	Remarks.
<i>Weedon.—Section A.</i>		
Implements, action, M.L.E. rifle, short .. ..	1	
Pullthroughs, double .. ..	(a)	
Cords, spare .. ..	(a)	
Pullthroughs gauze, wire, spare (pieces) .. ..	(b)	
<i>Components.</i>		
M.L.E. rifle, short—		
Cocking-pieces .. ..	5	
Heads, breech-bolt .. ..	(c)	
Screws, swivel .. ..	10	
Sears .. ..	5	
<i>Weedon.—Section C.</i>		
Braces—Armourers' .. ..	1	
Bits, screwdriver, stock-bolt, M.L.M. .. ..	1	
Pincers, armourers' (pairs) .. ..	1	
Screwdrivers—Armourers'—Large .. ..	1	
Small .. ..	1	
Extractor, axis, M.L.M. .. ..	1	
Tools, clearing, .303 in. arms—		
Bits—Screw .. ..	1	
Spoon .. ..	1	
Bushes, bit, screw .. ..	1(d)	
Rods No. 2 .. ..	1(d)	
Tools, removing—Striker, rifle, short M.L.M. .. ..	1	
Wad, stock-bolt .. ..	1	
<i>Section 7.</i>		
Files, smooth, flat, 6 in. .. ..	1	
Hammers, riveting, 4 oz. .. ..	1	
Handles, file, small .. ..	1	
<i>Section 9a.</i>		
Cloth, emery, No. F (sheets) .. ..	2	
<i>Section 27.</i>		
Cartridges, small-arm, dummy, .303 in., inspectors	20	

(a) 2 per regiment of Cavalry ; 3 per battalion of Infantry.  
 (b) 20 per regiment of Cavalry ; 30 per battalion of Infantry.  
 (c) 15 per regiment of Cavalry ; 30 per battalion of Infantry.  
 (d) Carried in box, rod, tool-clearing.

Table 3.—Tools for Circuit Armourers.

Description.	Quantity allowed.	Remarks.
<i>Weedon Section.</i>		
Boxes, components, empty, circuit armourers' .. ..	1	
Gauges, armourers'—		
Plugs—303 in. .. ..	1(a)	
307 in. .. ..	1(a)	
308 in. .. ..	1(a)	
310 in. .. ..	1(a)	
Lead, No. 2 .. ..	1(a)	
Rods, plug .. ..	1(a)	
Mallets, scabbard, sword, Cavalry .. ..	1	
Mandrils, scabbard, sword—		
Cavalry, pattern 1885—Mark I .. ..	1	
Mark II .. ..	1	
Cavalry, pattern 1908 .. ..	1	
Staff sergeants—Pattern 1889 .. ..	1	
Pattern 1897 and 1898 .. ..	1	

(a) To be obtained from A.O.D. when required by circuit, district, and departmental armourer at home and abroad. At stations abroad these gauges may also be issued on loan to regimental armourers when the services of a departmental armourer are not available.

## APPENDIX 29—continued.

Table 4.—Tools for Repair of Bicycles  
(Referred to in para. 181).

Description.	Quantity allowed.	Remarks.
<i>Weedon Section.</i>		
Braces, armourers'—Bits, screwdriver, butt-plate screw (a)	1	
<i>Section 7.</i>		
Brushes, hair, flat—1 in. .. .. .	2	
½ in. .. .. .	2	
<i>Section 21b.</i>		
Brushes, bicycle .. .. .	1	
Clamps, bicycle .. .. .	1	
Erectors .. .. .	1(b)	
Gauges, bicycle .. .. .	1(b)	
Hammers, bicycle .. .. .	1	
Injectors .. .. .	1	
Punches, bicycle .. .. .	1	
Scissors, bicycle (pairs) .. .. .	1	
Spanners, bicycle—Box—Hexagon .. .. .	1	
Square .. .. .	1	
Nipple .. .. .	1	
Thick .. .. .	1	
Thin .. .. .	1	
Valve .. .. .	1	
Stands, wheel, erecting .. .. .	1(b)	
Straighteners .. .. .	1(b)	

(a) For removing pedal-pins. Before use  $\frac{1}{16}$  in. should be ground off the screwdriver end to give it a stouter edge.

(b) Armament artificers of Horse and Field Artillery brigades only (peace only).

Table 5.—Tools for Repair of Bicycles to be obtained from A.O.D. on Loan when required

(Referred to in para. 181).

Description.	Quantity allowed.	Remarks.
<i>Section 7.</i>		
Files—Bastard, hand, safe edge, 6 in. .. .. .	1	
Second cut, half-round, 4 in. .. .. .	1	
Smooth, round, 4 in. .. .. .	1	
Handles, file, small .. .. .	3	
<i>Section 12.</i>		
Pots, cooking oval, 2 gallons .. .. .	2	
<i>Section 21b.</i>		
Dies, spoke .. .. .	1	
Holdings .. .. .	1	
Moulds (pairs) .. .. .	1	
Stocks and dies, bicycle (sets) .. .. .	1	
Straightedges, bicycle .. .. .	1	

## APPENDIX 30

(Referred to in para. 104).

## FIELD ARTILLERY BATTERIES.

Table 1.—Arms.

Designation.	General Proportions.
Rifles, short, M.L.E. .. .. .	24 per battery.
Swords, Cavalry, pattern 1899 .. .. .	1 per battery for training officers' chargers (peace only).
Scabbards, sword, Cavalry, 1899, Mark I .. .. .	1 per Cavalry sword.
Bottles, oil .. .. .	1 per rifle.
Pullthroughs .. .. .	1 per rifle, and 5 per cent. spare (peace only).
Reflectors, mirrors, S.A., .303 in. .. .. .	1 per battery.



APPENDIX 30—continued.

Table 2.—Accoutrements.

Designation.	General Proportions.
Bottles, water, enamelled .. ..	1 per N.C.O. and man.
Carriers, water-bottle, with shoulder-strap, Mark II	1 per water-bottle.
Frogs—	
Brown, wire-cutter, Mark II .. ..	1 per wire-cutter.
Straps—With buckle .. ..	1 per frog.
With stud .. ..	”
Haversacks, G.L. .. ..	1 per N.C.O. and man.
Slings, rifle .. ..	1 per rifle.
Straps, buff or web, water-bottle, Mounted service	1 per water-bottle.
Straps, mess-tin, M.S. .. ..	1 per mess-tin.
Tins, mess, Mounted services .. ..	1 per N.C.O. and man.
Whistles, Artillery .. ..	1 per Staff-sergeant and sergeant.
Bandolier equipment, pattern 1903—	
Bandoliers, 50 rounds .. ..	1 per N.C.O. and man.
Belts, waist .. ..	2 per set of mekometers.

APPENDIX 31.

GARRISON ARTILLERY.

Table 1.—Arms.

Designation.	Proportions.
<i>Weedon Section.</i>	
Rifles, short, M.L.E. .. ..	1 per company Staff sergeant, sergeant, and rank and file.
Sword-bayonets, pattern 1903 .. ..	1 per rifle and 1 per trumpeter.
Scabbards, sword-bayonet, pattern 1888 .. ..	”
Swords, Staff sergeant .. ..	1 per warrant officer and Staff sergeant.
Scabbards, sword, Staff sergeant .. ..	1 per sword, Staff sergeant.
Bottles, oil .. ..	1 per rifle and 5 per cent. spare.
Pullthroughs .. ..	”
Reflectors, mirrors, S.A., .303 in. .. ..	2 per detachment R.N.Z.A.; 3 per company G.A.T.
Rifles, short, .22 in., R.F. .. ..	} 2 per detachment R.N.Z.A.; 2 per company G.A.T.
Brushes, cleaning, tubes, aiming .. ..	
Rods, cleaning, tubes, aiming .. ..	

Table 2.—Accoutrements.

Designation.	Proportions.
<i>Section 1a.</i>	
Belts, waist, buff, W.O., Artillery .. ..	1 per warrant officer and Staff sergeant.
Bottles, water, enamelled, Mk. V or VI .. ..	1 per all ranks.
Carriers, water-bottle, with shoulder-strap	1 per water-bottle.
Covers, mess-tin .. ..	1 per warrant officer and Staff sergeant.
Frogs, buff, bayonet, G.S. .. ..	1 per sword-bayonet.
Haversacks, O.S. .. ..	1 per all ranks.
Knots, sword, buff, G.S. .. ..	1 per Staff sergeant's sword.
Pouches, ammunition, buff, rifle, 20 rounds in chargers	1 per company sergeant-major, company Q.M.S., sergeant, and rank and file.
Slings, rifle .. ..	1 per rifle.
Tins, mess, D.S. .. ..	1 per all ranks, 5 per cent. spare.
Bandolier equipment—	
Belts, waist .. ..	} 1 per trumpeter and all ranks armed with a rifle.
Carriers, greatcoat .. ..	
Covers, mess-tin, D.S. .. ..	1 per all ranks except warrant officers and Staff sergeants, and 5 per cent. spare.
Pockets, cartridge, 15 rounds .. ..	2 per trumpeter and all ranks armed with a rifle.
Valise equipment, pattern 1888, buff belts, waist G.S. .. ..	1 per company sergeant-major, company Q.M.S., sergeant, rank and file, and trumpeter.
Straps, greatcoat .. ..	1 per warrant officer and staff sergeant, 2 per all other ranks.
Straps, mess-tin .. ..	1 per warrant officer and Staff sergeant.
Web equipment, pattern 1903—	
Braces with buckle .. ..	1 per haversack, O.S.

## APPENDIX 32.

## MOUNTED RIFLES.

Table 1.—Arms.

Designation.	Proportions.
<i>Weedon Section.</i>	
Rifles, short, M.L.E.(a) .. ..	1 per all ranks except W.O.s and Staff sergeants.
Sword-bayonets(b) .. ..	1 per rifle.
Scabbards, sword-bayonet(b) .. ..	1 per sword-bayonet.
Pistols, Webley .. ..	1 per W.O. and Staff sergeant.
Bottles, oil(b) .. ..	1 per rifle.
Pullthroughs (b) .. ..	
Reflectors, mirror, S.A., .303 in. .. ..	2 per squadron.
Rods, cleaning, pistol, Webley. . . .	1 per pistol.

(a) Includes sergeant-major, farrier, quartermaster-sergeant, orderly-room sergeant, farrier sergeant, and saddler-sergeant.

(b) Brought by transfers.

Table 2.—Accoutrements.

Designation.	Proportion.
<i>Section 1a.</i>	
Bags, ammunition, canvas .. ..	32 per battalion and 8 per squadron as divisional Mounted troops.
Bottles, water, enamelled .. ..	1 per all rank.
Carriers, water-bottle, with shoulder-strap, Mark II .. ..	1 per W.O. and Staff sergeant.
Cases, brown, pistol, L.S. .. ..	1 per pistol.
Frogs, brown, wire-cutter, Mark II .. ..	1 per wire-cutter.
Haversacks, G.S. (or other services) .. ..	1 per W.O. and Staff sergeant.
Knots, sword .. ..	1 per Cavalry sword.
Lanyards—Pistol .. ..	1 per pistol.
Whistle, Cavalry .. ..	1 per whistle.
Pouches, ammunition, brown, pistol, Mark II .. ..	1 per pistol.
Slings, rifle(a) .. ..	1 per rifle.
Straps, mess-tin, Mounted services .. ..	1 per all ranks.
Tins, mess, Mounted services .. ..	
Whistles, Cavalry .. ..	1 per W.O., Staff sergeant, sergeant, and corporal (artificers excepted).
Web equipment, pattern 1908—	
Belts, waist(a) .. ..	1
Braces, with buckle(a) .. ..	2
Carriers—Cartridge, 75 rounds—Left(a) .. ..	1
Right(a) .. ..	1
Water-bottle(a) .. ..	1
Frogs(a) .. ..	1
Haversacks(a) .. ..	1
Bandolier equipment, pattern 1903—	
Belts, waist .. ..	1 per W.O. and Staff sergeant.

(a) Brought by transfers.

## APPENDIX 33.

## INFANTRY BATTALIONS.

Table 1.—Arms.

Designation.	Proportions.
Rifles, short, M.L.E. .. ..	1 per all ranks except warrant officers and Staff sergeants.
Sword-bayonets .. ..	
Scabbards, sword-bayonets .. ..	
Bottles, oil .. ..	1 per rifle, and 5 per cent. spare.
Pullthroughs .. ..	
Reflectors, mirror, .303 .. ..	4 per company.

APPENDIX 33—continued.

Table 2.—Accoutrements.

Designation.	Proportions.
Bottles, water, enamelled .. ..	All ranks.
Frogs, bayonet, G.S. .. ..	N.C.O.s, rank and file.
Pouches, ammunition .. ..	" "
Slings, rifle, web .. ..	" "
Tins, mess, Dismounted service .. ..	All ranks.
Whistles, Infantry .. ..	1 per sergeant-major, company sergeant-major, company quartermaster-sergeant, sergeant, and corporal.
Web equipment, pattern 1908—	
Attachments, brace .. ..	All ranks.
Belts, waist .. ..	"
Braces, with buckle .. ..	"
Carriers, cartridge, 75 rounds—	
Left .. ..	"
Right .. ..	"
Carriers, intrenching-tool—	
Head .. ..	Except company sergeant-major and company quartermaster-sergeants.
Helve .. ..	Ditto.
Carriers, water-bottle .. ..	All ranks.
<i>Section 2b.</i>	
Implements, intrenching, pattern 1908—	
Heads .. ..	Except company sergeant-major and company quartermaster-sergeants.
Helves .. ..	Ditto.

APPENDIX 34.

HORSE TRANSPORT DETAILS.

Table 1.—Arms.

Designation.	Proportions.
<i>Weedon Section.</i>	
Rifles, short, M.L.E. .. ..	1 per sergeant and rank and file.
Rifles, short, 22 in., R.F. .. ..	1 per company.
Rifles, D.P., short, M.L.E. .. ..	" "
Swords, Cavalry .. ..	1 per warrant officer, Staff sergeant, and trumpeter.
Scabbards, sword, Cavalry .. ..	" "
Swords, practice, Mounted corps, with scabbards .. ..	" "
Bottles, oil .. ..	1 per rifle and 5 per cent. spare (for peace).
Pullthroughs .. ..	" "
Reflectors, mirror, S.A., 303 in. .. ..	2 per company.
Brushes, cleaning, tubes, aiming .. ..	1 per 22 in. short rifle.
Rods, cleaning, tubes, aiming .. ..	" "
Rods, cleaning, pistol, Webley .. ..	1 per pistol.

A.S.C. AND A.O.C.—SUPPLY AND MECHANICAL TRANSPORT DETAILS.

Table 2.—Arms.

Designation.	Proportions.
<i>Weedon Section.</i>	
Rifles, short, M.L.E. .. ..	1 per all ranks.
Rifles, short, 22 in. R.F. .. ..	1 per company.
Rifles, D.P., short, M.L.E. .. ..	" "
Sword-bayonets, pattern 1903 .. ..	1 per sergeant-trumpeter and rank and file.
Scabbards, sword-bayonet, pattern 1908 .. ..	" "
Swords, Staff sergeants' .. ..	1 per warrant officer and Staff sergeant.
Scabbards, sword, Staff sergeants' .. ..	" "
Bottles, oil .. ..	1 per rifle and 5 per cent. spare (for peace).
Pullthroughs .. ..	" "
Reflectors, mirror, S.A., 303 in. .. ..	2 per company (peace).
Brushes, cleaning, tubes, aiming .. ..	1 per 22 in. short rifle.
Rods, cleaning, tubes, aiming .. ..	" "

## APPENDIX 34—continued.

## A.S.C.—HORSE TRANSPORT DETAILS.

Table 3.—Accoutrements.

Designation.	Proportion.
<i>Section 1a.</i>	
Belts, waist, buff M.S., O.R. . . . .	1 per warrant officer, Staff sergeant, and trumpeter.
Bottles, water, enamelled . . . . .	1 per all ranks.
Carriers, water-bottle, with shoulder-strap or	1 per Mark V or VI water-bottle.
Straps, water-bottle, Mounted services . . . . .	" "
Cases, brown, pistol, L.S. . . . .	1 per pistol.
Haversacks, other services(a) . . . . .	1 per all ranks.
Knots, sword, buff, M.S. . . . .	1 per Cavalry sword.
Lanyards, pistol . . . . .	1 per pistol.
Pouches, ammunition, brown, pistol . . . . .	" "
Slings, rifle, web(b) . . . . .	1 per rifle.
Straps, mess-tin, Mounted services . . . . .	1 per all ranks and 5 per cent. spare (for peace).
Tins, mess, Mounted services . . . . .	" "
Web equipment, pattern 1908— Braces, with buckle(c) . . . . .	1 per all ranks.
Bandolier equipment, pattern 1903— Bandoliers, 50 rounds . . . . .	1 per N.C.O. and man armed with a rifle.

- (a) When stocks of older patterns have been used up.  
 (b) When existing stock of buff slings is exhausted.  
 (c) When O.S. haversacks are issued.

## A.S.C. AND A.O.C. SUPPLY AND MECHANICAL TRANSPORT DETAILS.

Table 4.—Accoutrements.

Designation.	Proportion.
<i>Section 1a.</i>	
Belts—Pouch, buff, G.S.(a) . . . . .	} 1 per warrant officer and Staff sergeant (peace only).
Waist, buff, W.O., G.S. . . . .	
Bottles, water, enamelled . . . . .	1 per all ranks.
Carriers, water-bottle, with shoulder-strap	1 per Mark V or VI water-bottle.
Covers, mess-tin, drab, duck . . . . .	1 per warrant officer and Staff sergeant.
Frogs, buff, bayonet, G.S. . . . .	1 per sword-bayonet.
Haversacks, other services(b) . . . . .	1 per all ranks.
Knots, sword, buff, W.O. . . . .	1 per sword, Staff sergeants.
Pouches, ammunition, buff, rifle, 20 rounds in chargers	1 per sergeant and rank and file (peace only).
Slings, rifle, web(c) . . . . .	1 per rifle.
Straps, water-bottle, Dismounted services	1 per Mark IV water-bottle.
Tins, mess, Dismounted services . . . . .	1 per all ranks and 5 per cent. spare (for peace).
Whistles, Artillery . . . . .	1 per N.C.O. above the rank of corporal, M.T. companies only.
Web equipment, pattern 1908— Braces with buckle(d) . . . . .	1 per all ranks.

- (a) Until existing stock is exhausted. Only to be worn with belt, waist, buff, W.O., G.S.  
 (b) When stocks of older patterns have been used up.  
 (c) When existing stock of buff slings is exhausted.  
 (d) When O.S. haversacks are issued.

As witness the hand of His Excellency the Governor, this twenty-fifth day of May, one thousand nine hundred and seventeen, in the presence of—

J. ALLEN.  
 Minister of Defence.