M.R.O. 1—77,006—8-6-37.

(1) Number of pages 16

(2) Date of repair 6 1 [illegible]

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MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

G.O. No. 2716 Press Mis.

417-18

Dated 26. 10 1871.

Not to be folded or roughly handled

No. 417. Read the following docket from the Government of India, Public Works Department, (Buildings and Roads—Military,) dated Simla, 14th September 1871, Nos. 1,183—94 B. M. :—

COPY of the following communication forwarded to the Local Governments and Administrations noted in the margin for information and for needful action.

Governments of Madras, Bombay, Bengal, North-Western Provinces, and the Punjab in the Public Works Department; the Chief Commissioners of Oudh, Central Provinces, and Burmah; the Resident at Hyderabad; the Agents of the Governor-General for Central India and Rajpootana, and the Superintendent of Port Blair.

By Order,
(Signed) C. W. HUTCHINSON, Colonel, R.E.,
Offg. Depy. Secy. to the Govt. of India.

From the Adjutant-General, to the Secretary to the Government of India, Military Department, dated Simla, 2nd June 1871, No. 1,096-E.

Military Instruction.

I HAVE the honour, by direction of the Commander-in-Chief in India, to forward, for the approval of the Governor-General in Council, the accompanying proposals for carrying out in India the system of Garrison Instructor, as laid down in Horse Guards General Order No. 65 of 1870.

2. As the 1st of July next is the date from which all officers who have not then passed the examination which at present obtains for promotion to Captain will come under the new rules, it is of course most desirable that the machinery for assisting them in their studies should be in working order as soon after that date as possible.

3. I am therefore desired to express the hope of the Commander-in-Chief in India that any objection which may possibly be raised to any particular portion of the proposals herewith forwarded, may not be allowed to interfere with their acceptance as a whole, subject to future modification.

4. The names of the officers whom it is proposed to appoint as Garrison Instructors will be submitted hereafter.

Proposed system for carrying out Garrison Instruction of Officers in India.

THE Royal Commission on Military education have reported that a superintending officer and sixteen Instructors would be required for India, and it has been decided by the Secretary of State for War that the superintending officer is to be seconded in his regiment, but that the Garrison Instructors are to belong to the effective strength of their corps.

2. It is proposed, as an experimental measure, that eleven Instructors only shall be appointed at first, being five less than the number recommended by the Royal Commission.

3. The Director of Military Instruction should be stationed at the head-quarters of the Army at Simla, and should visit the Centres of Instruction annually, or whenever it may be judged necessary by the Commander-in-Chief.

He should receive the same rate of travelling allowance as the Chief Inspector of Musketry and the office allowance of an Assistant Adjutant-General, and with a special allowance of Rupees,

30 per mensem towards the rent of an office at Simla, as sanctioned for certain stations by General Order by the Governor-General No. 156-A. of 1863, and Government General Order No. 763 of 1865 and No. 304 of 1866.

4. The provision of a few books of reference on Military subjects for the use of the head-quarter office, as well as a small supply of such works as may, from time to time, be published upon the subjects of the course, would appear indispensable; and it is proposed, with this view, that a sum of Rupees 200 be sanctioned at once, and Rupees 100 per annum in subsequent years for the above purpose, or that contingent bills be submitted, from time to time, within the above limits for the purchase of such works as may be necessary for reference.

5. The office allowance for Garrison Instructors should be Rupees 45 per month, being that sanctioned for Deputy Judge Advocates General.

6. After consultation with the Commanders-in-Chief of Bombay and Madras, the following stations are proposed as centres of location for Garrison Instructors, as being generally easy of access by Railway from surrounding out-stations, and therefore involving less expenditure for travelling:—

Central Station.	Out-Stations.	No. of British Regiments.
Rawul-Pindee	Peshawur ... ... Nowshera ... ... Sealkote	7
Umballa	Mean-Meer ... ... Ferozepoor ... ... Jullunder ... ... Dugshai ... ... Subathoo ... ... Mooltan	8
Roorkee or Meerut, as houses are available.	Meerut ... ... Chuckrata ... ... Delhi ... ... Rancekhet ... ... Mooradabad ... ... Agra ... ... Bareilly ... ... Muttra	8
Cawnpoor	Gwalior ... ... Shajehanpoor ... ... Jhansi ... ... Cawnpoor ... ... Fyzabad ... ... Lucknow	7
Allahabad or Dinapoor, as houses are available.	Benares ... ... Seerapoor ... ... Saugor ... ... Dinapoor ... ... Dum-Dum ... ... Hazareebaugh ... ... Fort William	7

Madras and Bombay Presidencies.

Central Stations ... ... { Rangoon. Madras. Bangalore. Secunderabad. Poona. Mhow.

7. With a view to strict economy in travelling expenses, it is proposed to form the classes chiefly from the regiments, British and Native, quartered at the Centre of Instruction, and to allow one officer of each British Regiment at out-stations to join the classes at the public expense.

By this means the whole of the subalterns of Native Regiments would gradually pass through the hands of the Instructors as their corps come to his station, without causing any expenditure for travelling.

8. The above scheme would provide for the instruction of about *two hundred* officers annually in India.

9. It is proposed that the Instructors should be authorized, in concert with the officer commanding the station, to rent a house at each Centre of Instruction for the purpose of a lecture hall, etc., the rent being defrayed by Government.

These houses should be of moderate size, and, if possible, with large compounds, so as to admit of practice in the execution of field works being carried on within their limits, as well as to permit officers attending the classes to pitch their tents, should they desire to do so. But the houses are under no circumstances to be used as dwellings.

10. If, however, suitable ground should not be attached to the house, application should be made to the Cantonment Committee for any available ground for the use of the Instructor as near the lecture hall as possible.

11. The Officer Commanding the Sappers and Miners should be directed to attach to each Garrison Instructor one Native Non-Commissioned Officer, and two Privates of Sappers for the purpose of assisting him in the construction of gabions, fascines, bridges, etc.

These men should live in the premises rented for lecture halls, and should take charge of all the tools and materials, but on the responsibility of the Garrison Instructor.

12. By Horse Guards General Order No. 65 of 1870, the following instruments, tools, materials, etc., are directed to be provided for the use of Garrison Instructors at the public expense. In the following lists, the number of instruments and books are those laid down in the General Orders above referred to, and the tools have been estimated at the smallest numbers which would probably be required for each Centre of Instruction pending further practical experience.

It is proposed that authority should be given for their provision from the following sources.

13. From the Mathematical Instrument Depôt at Calcutta.

Estimate of Instruments, Books, Tools, etc., for the eleven Garrison Instructors proposed for the three Presidencies.

For all India.

- 12 Small boxes of colours.
- 23 Pocket sextants with leather-sling cases.
- 67 Prismatic compasses with stands and leather cases.
- 67 Card-board protractors.
- 67 Pocket levels.
- 67 Clinometers.
- 23 Parallel rulers.
- 11 50-foot chains.
- 23 50-foot tapes.

14. From the Military Store-keeper, India Office, London, in communication with the Director-General of Military Education, War Office.

For all India.

11 Sets of plaster models of ground.
100 Sets "Examples of Hill Shading."
100 "Scales of Shade."
100 Conventional Signs.
100 Sets "contoured plans of ground."
12 Volumes "Treatise on Field Fortification" (if ready).
12 " "Napier's Treatise on Reconnoissance."
12 " "Instruction in Military Engineering," Chatham, 1870.
12 Simmons on "Courts Martial" (latest edition).

15. From Local Barrack Department.

Furniture for lecture halls.—Eleven black boards and sufficient barrack tables, benches and chairs for the accommodation of the class.

16. From Executive Engineers at Centres of Instruction.

Tools, etc., for each Centre of Instruction.

1 Fascine choker.
4 Bill hooks.
4 Gabion knives.
2 Wooden mallets.
2 Six-feet measuring rods.
2 Handsaws.
5 Pairs of stakes for fascine trestles.
1 Grindstone.
1 Rubstone.
1 Whetstone.
25 Shovels.
6 Spades.
6 Crowbars.
25 Pickaxes.
12 Hammers.
100 Sand bags.
Brushwood, timber, and spars.
Rope, etc., as required.

Most of the above tools, etc., could be made up very cheaply from local sources, and if not included in the stores in charge of Executive Engineers. The Garrison Instructor should be authorized to get them made up on contingent bills in order to avoid delay.

17. Estimate of cost of proposed establishment for all India,—

	RS.	A.	P.
1 Director of Military Instruction—Regimental pay as Lieutenant-Colonel, and Rupees 500 monthly staff pay per annum...	18,387	0	0
11 Garrison Instructors—Rupees 400 per month staff pay, less Rupees 41-4-6 per month, being difference between regimental and staff corps pay, per annum ...	47,350	14	0
Office Allowance.			
1 Director of Military Instruction—Rupees 165 per month (*vide* paragraph 3)	1,980	0	0
11 Garrison Instructors—Rupees 45 per month (*vide* paragraph 5)	5,940	0	0
Total...	73,657	14	0

being the annual cost of the establishment for all India.

Proceedings of the Madras Government, Public Works Department,
26th October 1871.

From the Secretary to the Government of India, Military Department, to the Adjutant-General, dated Simla, 17th June 1871, No. 431.

I AM directed to acknowledge your letter No. 1,096, dated 2nd June 1871, forwarding, for approval, proposals for carrying out in India the system of Garrison Instructors as laid down in Horse Guards General Order No. 65 of 1870.

2. In reply, I am to acquaint you, for the information of the Commander-in-Chief, that, with one exception, all His Excellency's proposals are accepted by the Governor-General in Council.

3. His Excellency in Council considers that the cost of books purchased under clause 4 of the proposals within the limits there stated may be recovered by contingent bills.

4. The Governor-General in Council is, I am to state, unable to sanction the suggestion contained in the 9th clause for the hiring of houses as lecture halls in the several Cantonments selected by His Excellency as central stations. There is now a redundancy of barrack accommodation in Bengal, and His Excellency in Council believes that at Umballa, Roorkee, Cawnpore, and Allahabad, there is ample spare room in the new barracks where lectures could be given; neither does His Excellency in Council doubt that in all these stations sufficient ground can be found for carrying on, free of expense, practical instruction in the execution of field-works, etc.

5. Should barrack accommodation not be available at the stations selected, it will be necessary to select some station where such accommodation is procurable. Subject, therefore, to this condition, the Governor-General in Council approves of the places chosen by His Excellency as central stations.

6. The Governor-General in Council approves of the proposals for attaching one Non-Commissioned Officer and two men of the Sappers to each of these stations. Their places are not, however, to be filled up in the corps, and as the withdrawal of Havildars from the effective strength of companies would probably be inconvenient, His Excellency in Council considers it may be well to take intelligent Naicks for the duty.

7. I am to request that, under His Excellency's orders, indents may be submitted for the necessary stores, etc.

Endorsed by the Military Department, dated 1st August 1871, No. 18.

FORWARDED to the Public Works Department for the favour of an expression of opinion.

Memorandum from the Government of India, Public Works Department, to the Secretary to the Government of India, Military Department, dated Simla, 15th August 1871, No. 1,021-B. M.

IN reply to the Military Department endorsement No. 18, dated 1st instant, forwarding, for an expression of opinion, correspondence on the subject of the introduction in India of a system of garrison instruction, the undersigned has the honour to state that there is no objection, in this department, to the proposal of His Excellency the Commander-in-Chief that Executive Engineers of Cantonments should be authorized to meet the indents of Garrison Instructors for tools, etc., required by them. The cost, it is said, will be trifling.

2. The enclosures of the endorsement under reply are returned as requested, and the undersigned has to request the favour of being furnished with a copy of the same for record.

From the Adjutant-General, head-quarters, Simla, to the Secretary to the Government of India, Military Department, dated Simla, 25th July 1871, No. 1,481-E.

WITH reference to your letter No. 431 of the 17th ultimo, I am desired by the Commander-in-Chief to recommend, for the consideration and orders of Government, that Executive Engineers of Cantonments may be authorized to meet the indents of Garrison Instructors for the implements and materials already sanctioned in the above-quoted letter, in so far as they may be able to do so without inconvenience.

2. The cost of the articles will be so trifling that it is not considered that any special appropriation will be required for this purpose.

From the Secretary to the Government of India, Military Department, to the Adjutant-General, dated Simla, 24th August 1871, No. 661.

With reference to your letter No. 1,481-E, (Military Instruction,) dated 25th July 1871, I am directed to acquaint you, for the information of the Commander-in-Chief, that the Right Honourable the Governor-General in Council is pleased, in compliance with His Excellency's recommendation, to sanction Executive Engineers of Cantonments complying with the indents of Garrison Instructors for the authorized implements and materials, so far as they are able to do so without inconvenience.

No. 662.

Copy of the foregoing forwarded to the Public Works Department for information, in compliance with memorandum No. 1,021-B. M., dated 15th August 1871.

No. 418. Order thereon, 26th October 1871, No. 2,716.

MILITARY WORKS, No. 12.

Communicated to the Military Department, to the Superintending Engineers of the 4th and 5th Divisions, and to the General Superintendent of Public Works Stores for information and guidance.

2. The General Superintendent of Public Works Stores will be authorized to comply with the indents of Garrison Instructors for the tools, etc., enumerated herein, if available, and such as not available will be made up by Executive Engineers, or on their application at the Clepauk Workshops.

(True Extract.)

Captain, R.E.,
Offg Joint Secretary to Government.

To Superintending Engineers.
To Major R. B. Kennedy.
To the General Superintendent of Public Works Stores and Workshops.
,, Controller of Public Works Accounts.
,, Military Department.

Exd. E. C. Shunker.

Mil. Works

No. 2716.

Proceedings of the Madras Government

Read the following

4567

From

The Government of India

(H.C. No. 1183-946-16 dated

Communicated to the Military Department, the Supg Engineers of the 4th and 5th Divisions, and the General Superintendent of Public Works Stores for information and guidance.

The General Superintendent of Public Works Stores will be authorized to comply with the indents of Garrison instructors for the tools &c enumerated herein, if available

available. And that
And
Act not available will
be made use of by Executive
Engineer or the Superintendent of at
the Cuttack workshop

G. J. Pitt

165
12

Supt Engineers
Major R. B. Kennedy
Capt: R. N. A.
Lieut. Supt. P. W. Lloyd
Daily: Departt.

Dept 20/2/71

Cuttack 29th Feb 71

C - No 4587.

Govt. of {1871} Madras.

PUBLIC WORKS.

To The Superintending Engrs.

Dated

Recd. Encl.

G. O. 26th Oct 71. No. 2716.

Nos. 417-418

Roads to be required for sanitary inspection - Circular from the Govt of India forwarding correspondence regarding the supply of roads to be required for sanitary inspection by Executive Engineers & Cantonment Committees to be addressed to the Officers concerned with instructions -