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MADRAS RECORD OFFICE.**Government of Madras.****Public Works DEPARTMENT.**

G.O. No.	1075	Press
		Mis.
Dated	8-1-31	18

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14
**Proceedings of the Madras Government, Public Works Department,
8th June 1864.**

No. 182. Read the following Proceedings of the Madras Government in the Military Department:—

Requesting to be furnished with a Statement of the probable annual demand for the services of Officers and men qualifying at the Engineering College in the Survey Class, } (Here enter 3rd June 1864.)

No. 183. ORDER THEREON 8th June 1864, No. 1,676.

It will be intimated to the Military Department with reference to the Orders recorded above, that there is at present no demand in the Department of Public Works for the services of Officers and men qualifying only as Surveyors at the Civil Engineering College.

(True Extract.)

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

To the Military Department.

Exd. S. T. Augustin.

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MILITARY DEPARTMENT.

Memorandum from the Adjutant General, Fort Saint George, 29th April 1861, No. 209; to the Secretary to Government, Military Department.

In submitting the within letter, from the Principal Civil Engineering College, the Commander-in-Chief has the honor to recommend, that the suggestions contained in paragraphs 7 to the end, for the more efficient working of the Officers' Surveying Class attached to the College, may receive the favorable consideration of Government.

2. The first part of Captain Edgcome's letter has been disposed of in the Quarter Master General's Department.

Memorandum from the Quarter Master General, Fort Saint George, 18th April 1861, No. 4014; to the Adjutant General.

Transferred to the Adjutant General for disposal. The first 6 paragraphs have been disposed of in this Office.

From the Principal, Civil Engineering College, Chepauk, 4th April 1864, No. 942; to the Quarter Master General, Fort Saint George.

I have the honor to request that you will be good enough to submit, for the consideration of His Excellency the Commander-in-Chief, the following proposition for the more efficient working of the Officers' Surveying Class attached to the College.

2. Before detailing the new scheme, however, it will be necessary to describe the present constitution of the Class, in order to shew its defects, and the desirableness of the change I propose.

3. The Officers' Surveying Class was established under G. O., No. 4127, dated 1st December 1862, in consequence of the representation by Colonel Carpendale, Royal Engineers, (then Principal of the Civil Engineering College) of the difficulties young Officers experienced, and the expense they were put to, in order to qualify for the Certificate in Surveying, and of the facilities which the Civil Engineering College afforded for instruction, without any increased Establishment of Masters.

4. The number of Officers studying in the Class was limited to ten, each paying a monthly fee of 16 Rupees, which would go to defray the Masters, so that there should be no additional expense to the State.

5. The old Certificate of qualification in Surveying, sanctioned in G. O. C. C., dated 22nd September 1854, was changed to that now prescribed, (copy of which is enclosed) in order that Officers might be acquainted with the use of the Theodolite.

6. I am of opinion, however, that this amended Certificate is defective, and for this reason, viz., that an Officer may be competent to do all that it prescribes, and yet have no knowledge whatever of a most important branch of Surveying, viz., Hill sketching, or the representation of ground. I therefore beg to recommend that the Certificate be modified, so as not only to include the qualifications required of a Revenue Surveyor, but further that it should embrace a competent knowledge of Military Surveying, and I enclose a copy of the modified Certificate, for approval.

7. Another, and a very serious defect in the present constitution of the class, is that whereby the remuneration of the Masters is made dependent on the fees of the Students. If the Class could always be kept at its full strength, there would result the inconvenience of having more than one Master for the Class, for it must be remembered that the Masters have their own legitimate duties in the College apart from the instruction of the Officers' Class; and, in order that the minimum of their time may be spared from these duties, it is necessary to employ a maximum number of Masters for the extra work, and this, of itself, is a defect, for, apart from the different systems of teaching, that each Master may have, the employment of three Masters to instruct a Class of ten Officers, is absurd.

8. But when, as during the past Session, the Class has been reduced by sickness or death to three Officers, the difficulty is to find funds adequate to remunerate the single Master who can be entertained. In either case, therefore, this system of remuneration of the Masters impairs the efficiency of the Class.

From the Controller of Military Accounts, Fort Saint George, 19th May 1864, A; to the Secretary to Government, Military Department.

I have the honor to forward a letter from the Principal of the Civil Engineering College, to the Quarter Master General, under the Adjutant General's docket of the 29th April 1864, No. 209.

Dated 4th April 1864, No. 942.

2. It is proposed to appoint an Officer of Engineers, on a salary of Rupees 250 a month, as Assistant to the Principal and Professor of Surveying, for the purpose of instructing the Officers composing the Surveying Class.

3. It is also proposed that the Class should consist of 12 Officers, instead of being limited to 10, and that each should pay a fee of 20, instead of 16 Rupees per mensem, and further, that a fee of 5 Rupees should be added to remunerate Telooogoo and Tamil Moonshes of the Institution, for instruction in those languages in which it is proposed the Officers should pass an examination.

4. The Class was established on the understanding that it was to be instructed by Masters in the Institution, without additional expense to Government.

5. The proposal now made involves considerable expense, assuming that a Lieutenant of Engineers holds the appointment, it would involve an outlay of Rupees 5,818-8 per annum, much greater, I would submit, than the object to be attained would justify, or the number of Officers under instruction, calls for.

6. In regard to the study of the language, it does not involve expense to Government, but if it is intended to substitute Tamil or Telegu for Hindoostanee, the former languages would not of themselves, under present Regulations, qualify for General Staff employ.

7. The question, however, is one which it is more within the province of the Civil Department, than this Office to discuss, as it is presumed that, if the appointment of an Assistant were sanctioned, the Pay and allowances as well as the salary of the Assistant would, similarly to those of the Principal, be disbursed by the Civil Department.

Referred with letter No. 209, dated 29th April 1864, to the Commander-in-Chief, (Quarter Master General's Department) and through the Revenue Department to the Superintendent of Revenue Survey, also to the Department of Public Works, in view of a Statement being submitted to Government of the probable annual demand in those Departments for the services of Officers and men qualifying at the Engineering College in the Survey Class.

FORT SAINT GEORGE,
3rd June 1864.

Macmillan
Deputy Secretary to Government.

To the Quarter Master General,
Revenue Department,
Public Works Department.

Ed. R. Stephenson.

9. I therefore suggest the appointment of a duly qualified Instructor in Military Surveying and Drawing, and as this requires a special education, I would recommend that an Officer of Royal Engineers be appointed, on a fixed Staff salary of, say 250 Rupees a month, exclusive of Regimental Pay and allowances, and that he be designated Assistant to the Principal and Professor of Surveying. There would be no difficulty in finding a competent Officer amongst the many young Engineer Officers who have recently arrived from England and are still unemployed, and if my proposal is approved of, and I be allowed to nominate, I could name an Officer (highly distinguished at Addiscombe in Military Surveying and Drawing) and admirably qualified for the situation.

10. I would further propose
1st.—That the class consist of twelve Officers, each paying a monthly fee of 20 Rupees, the proceeds to be carried to credit of Government, in general account.

2nd.—That each Officer study and be required to pass an examination in, one of the Vernacular languages, during his stay at the College. I am aware that Hindoostanee is the language considered essential for all Staff Officers, but I would suggest the substitution of Tamil or Telugu as being more useful in this Presidency, and as there are Moonshes for these languages attached to this College, I would propose that each Officer pay an extra monthly fee of 5, in order to remunerate them for their extra work and trouble.

3rd.—That the course of instruction (including the study of a Vernacular language) be extended to 12 months, and commence on 1st August of each year.

4th.—That Officers studying at the College be considered "absent on duty."

5th.—That the present regulations, regarding appointments and removal of Officers, remain unchanged.

6th.—That in consideration of the special character of the Instruction, Certificate be only granted at this College.

11. The above are the leading features of the new scheme, but any minor details can be arranged after sanction has been accorded for the formation of such a class.

At present the Officers are necessarily obliged to confine their Surveying operations to Madras and its immediate vicinity; but under a competent Military Instructor they might be despatched into the interior to make route Surveys for Troops, draw up Reports and Reconnoissances of such portions of the country as Government might require, in fact, go through a thorough practical course of instruction on Military Surveying such as is necessary for all Officers employed in Quarter Master General's Department.

12. I feel confident that the formation of such a class would be attended with the best possible results, and if my scheme meet with His Excellency's approval, I beg it will be laid before Government, with His Excellency's recommendation and support.

PROPOSED CERTIFICATE.

CIVIL ENGINEERING COLLEGE, MADRAS.

Certificate of qualification in Surveying.

I have examined and find

1. That he possesses a good knowledge of the use of the Prismatic Compass and Chain, Box Sextant, Theodolite and Levelling Instruments, including the adjustments of the two latter.
2. That he is perfectly competent to Survey with the Chain only, with the Prismatic Compass and Chain, and with the Theodolite and Chain; also to Survey and take Sections with the Y. Level, and with Troughton and Simm's Level, including, in every case, keeping Field Books, Plotting and finishing the Drawing.
3. That he is also competent to make a Route Sketch, or Reconnoissance of a portion of country, or a Military position, and to represent with facility and accuracy the features of the ground either with Pen and Ink, Pencil or Brush.

The Plans executed by
CIVIL ENGINEERING COLLEGE,
CHENNAI,

upon which this Certificate is granted, are attached.
(Signed) W. H. EDGCOMB, Captain, R. E.,
Principal Civil Engineering College.

21st 1866
No. 1676-8th June/64

No. 1676-8th June/64

No. 1676-8th June/64

No. 1676-8th June/64

Respecting the
furnished with a list
-ment of the students
annual statement
for the year 1865
and then publishing it
the Engineering College
in the Library, New
Haven, Conn.

W. H. C. C. C.

1863.

It will be submitted
to the Library Department with a
reference to the order recorded
above that there is at present no
demand in the Department of
Public Works for the services of
Officers and men qualifying only as
surveyors at the Civil Engineering
College.

21st 1866
No. 1676-8th June/64

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