

*Lighting.*

(16) The method of lighting is still by coal oil. Several narrow escapes from fire have occurred during the year consequent on lamp explosions. The labor of tending over 300 lamps is also arduous.

Oil has the further disadvantage of not producing sufficient heat to satisfactorily carry out instruction and experiments in physics and chemistry.

I therefore trust this means of lighting may be superseded by gas at the earliest possible opportunity.

The Board of Visitors, 1879, comment on this deficiency.

*Building Accommodation—Deficiencies and Requirements.*

(17) Several class and professors' rooms are occupied as dormitories, and many of the cadets' sleeping-rooms which were originally constructed for only one cadet are now occupied by two, thus giving to each cadet a fewer number of feet of air space than is allowed for troops of Her Majesty's Service.

The only room in which cadets can, as originally intended, be assembled in a body for lecture, or other purposes, is now appropriated as a double class-room, and next term may have to be used as a bed-room.

The porches of the north building are utilized as model rooms and work rooms.

The professors have not separate rooms for study or change of clothing, and as almost all these gentlemen necessarily reside at great distances from the college, this want is the more felt.

Cadets have at times to draw plans, etc., in the corridors, and no proper rooms exist for either laboratory, library, or museum. Valuable scientific instruments and apparatus have to be kept in the corridors.

The construction of an additional block for cadet dormitories, including under the same roof quarters for two members of the staff most required to reside within the college, would provide much that is required, and would free the north building from occupation for purposes not originally contemplated, and allow it to revert to the purposes for which it was designed.

It would at the same time effect an economy in annual expenditure.

I cannot too strongly urge that these defects and deficiencies may be remedied, and that the several additional buildings so urgently and frequently referred to in previous reports as being much needed, and which were also strongly recommended by the Board of Visitors, 1879, may be commenced at the earliest possible date.

Nothing has been done during recent years towards providing additional accommodation to meet the always anticipated requirements due to the periodical increase of the college as legislated for at its institution.

The direct and indirect evils and difficulties arising from insufficient accommodation cannot be exaggerated, and naturally increases every term.

*Result of Examination.*

(18) The general result of the examination and of the work during the year has been satisfactory, that of the junior classes more especially so.

Some of the cadets have, however, not only sacrificed their present position, but imperilled their future prospects by neglecting to apply themselves with earnestness to subjects or portions of subjects which it is essential for the objects of the college that they should acquire proficiency in, but the necessity for, and immediate advantage of, which is not so apparent to them as that of some other subjects.

By so doing they have necessarily failed to do full credit to themselves.

*Tour of Instruction by Cadets.*

(19) The Government having sanctioned a tour of professional military and civil practical instruction being made by a limited number of cadets—ten of the most efficient graduates were selected as specially likely to profit by this privilege.