

Government of Madras.

EDUCATIONAL DEPARTMENT.

Recd.

Regd.

} 1913.

Enclosures

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G.O. No. 526, 5th June 1913.

College of Engineering, Madras.

Stating that no charge should be made by the — for testing work done at the College Workshops for departments of Government.

G.O. 879 Edn.

16/6/42

G.O. 1604, Hanc

22.5.44

G.O. 1655 Edn

13.6.51

Ms 2352 Edn 9.10.52

Ms 337 Edn 22.2.57

Ms 1884 Edn 4-12-64

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GOVERNMENT OF MADRAS.

EDUCATIONAL DEPARTMENT.

READ—the following papers :—

I

Letter—from the Hon'ble Sir ALFRED GIBBS BOURNE, K.C.I.E., D.Sc., F.R.S.,
Director of Public Instruction.
To—the Secretary to Government, Educational Department.
Dated—Madras, the 8th March 1913.
No.—Ref. on Orr. 1170.

In regard to the tests of materials conducted on behalf of the departments of Government at the College of Engineering Workshops, Mr. James formerly used to estimate the charges on the basis of out-of-pocket expenses incurred in the laboratory on the analogy of the practice adopted in connection with special investigations he was carrying out for the Public Works Department. During his absence on leave last year, the Acting Principal claimed the full amount according to the sanctioned scale as he found no authority for charging less fees in the case of tests conducted for Government departments. As the latter course was not open to any objection, Mr. James, on his return, continued to observe it and he is now of opinion that his previous practice was not in order.

2. The Chief Engineer for Irrigation points out that the charges made by the college for testing materials for the Public Works Department have not been uniform and that no distinction has been made between private bodies or individuals and Government departments and he thinks that in the case of tests conducted for the departments of Government only one-third of the fees levied from private bodies—which is intended to cover wear and tear of the machinery—should be charged in accordance with G.O. No. 724, Educational, dated 18th November 1898. The Principal, College of Engineering, thinks that though under G.O. No. 688, Educational, dated 7th October 1899, the Professor of Mechanical Engineering was expressly precluded from retaining any fees received from Government departments, it was by implication intended to charge the usual fees as in the case of work done for private bodies and to credit the full amount to Government instead of only one-third. He states that there is no qualification in regard to amount as there is only one scale of charges and that it can hardly be suggested that in addition to taking up the time of the members of the staff, the college should be put to actual expense in doing work of this kind for other departments.

3. As the orders are not definite on the subject, I have the honour to solicit the orders of Government on the following points :—

(i) Whether full fees are to be charged for testing work done for the Public Works Department and other departments of Government in the College of Engineering Workshops and, if so, whether the same scale as that adopted for private bodies is to be made applicable also to the departments of Government that furnish the work or whether only a third of the rates should be charged in such cases, the other two-thirds which are not to be enjoyed by the Professor of Mechanical Engineering being remitted.

(ii) Whether no fees whatever should be charged for work done for other departments of Government and, if so, from what source are to be met the incidental expenses incurred and the extra remuneration paid to the workshop staff for over-work and whether they should be met from the workshop allotment.

II

Office-note—from W. G. MOLESWORTH, Esq., Under Secretary to Government,
Public Works Department.
To—the Principal, College of Engineering.
Dated—the 25th April 1913.
No.—2423 D.R.-1.

Will you kindly furnish me with a copy of the scale of fees levied for testing work done in your college? The copy may be sent to the office at Chepauk.

III

The following printed scale of fees was received from the Principal, Engineering College, on 6th May 1913, with reference to office-note of 25th April 1913 :—

COLLEGE OF ENGINEERING, MADRAS.

ENGINEERING LABORATORY.

Charges for Testing Materials.

The Engineering Laboratory is equipped with the following machines for testing materials used in Engineering construction :—

(a) Single Lever Testing Machine with 4" fulcrum designed by J. H. Wicksteed and constructed by Messrs. Buckton & Co., Leeds, to test up to 100 tons in tension compression or bending, and with an alternative 8" fulcrum to test up to 48 tons.

(b) Multiple Lever Cement Testing Machine for briquettes of 1 square inch cross section to test up to 1,000 lbs.

(c) Wire Testing Machine by W. H. Bailey & Co. to test up to 5,000 lbs.

(d) Autographic Torsion Testing Machine by Professor R. H. Thurston to test specimens turned to a diameter of $\frac{5}{8}$ ".

The tests are reported on by the Principal of the College who is responsible for the accuracy of the results.

In ordinary testing the following charges are made :—

For two or more similar pieces sent at the same time to be broken, the charge is Rs. 4 each specimen, and the report supplied gives the Load at Yield Point, ultimate Load, with general Elongation and Reduction of sectional area at point of fracture. Tensile tests.

Autographic Stress Strain diagrams for each test piece are supplied at an additional charge of Rs. 2 each.

For a Single Tensile Test the charge is Rs. 6. or with autographic diagram, Rs. 8.

For a report of one complete Test, giving Modulus of Elasticity, together with the above data, the charge is Rs. 16.

A charge of Rs. 16 is made for a report on the tensile test of a single specimen requiring special preparation as wire ropes and chains.

In cases where the specimens are prepared in the College Workshops, the time taken by the fitter is charged at As. 8 per hour.

Prepared specimens of cast-iron are charged the same rate as for Tension tests. For building-materials, such as bricks, cubes of stone, cement or concrete, etc., the fee is Rs. 2 for test of the first piece, and Rs. 4 for every additional test on specimens sent at the same time. Compression tests.

The charges are the same as for Compression tests.

For a report on a sample of cement giving the tensile strength at 7 and 28 days in each case from an average of 6 briquettes the charge is Rs. 25; special terms will be quoted when any additional information is required. Bending tests.
Cement testing.

W. H. JAMES, B.Sc., M.I.M.E., A.M.I.C.E.,
Principal, College of Engineering.

Order—No. 526, Educational, dated 5th June 1913.

The Government consider that no charge should be made by the College of Engineering, Madras, for testing work done at the College Workshops for departments of Government. Incidental expenses connected with such tests should be met from the allotment for contingent expenditure of the college.

(True Extract.)

W. FRANCIS,
Ag. Secretary to Government.

To the Director of Public Instruction.
" Accountant-General.
" Public Works Department.
Copy to the Financial Department.

EDUCATIONAL DEPARTMENT.

NOTES CONNECTED WITH G.O. No. 526, EDUCATIONAL,
DATED 5TH JUNE 1913.

[SUBJECT.—Charges on account of testing work done in the workshop attached to the College of Engineering for other departments of Government.]

From the Director of Public Instruction, dated 8th March 1913, R.O.C. No. 1170.

In G.O. No. 724, Educational, dated 18th November 1898, permission was given to the Professor of Engineering at the College of Engineering, Madras, to receive fees from private individuals for testing materials used in engineering construction and to retain two-thirds of the fees so received, the remaining one-third being credited to Government. In 1899, the Professor requested permission to receive similarly fees for testing work undertaken for the departments of Government; and this was refused in G.O. No. 683, Educational, dated 7th October 1899.

2. The Director of Public Instruction now raises the question—

(1) whether, in the case of testing work done for other departments of Government, fees should be charged on the scale sanctioned for private individuals and credited to Government, or

(2) whether fees should be charged at one-third the rates laid down for private individuals in order to cover only the wear and tear of the machinery, or

(3) whether no fees should be charged.

In the last case, *i.e.*, when no fees are charged, the Director desires to be informed of the source from which the incidental expenses incurred and the extra remuneration paid to the workshop staff for overwork should be met.

3. Under article 95, IV of the Civil Account Code service departments are not allowed to make charges against other departments for services which fall within the class of duties for which they were constituted. In the present case, the work of testing materials for engineering construction is not a part of the duties of the Educational department and for any such work which it may do for other departments, a fee may, it seems, be fairly levied. As this is an account question, submitted that the file may, in the first instance, be sent to the Financial Department for remarks.

Article 95, VI does not seem to be restrictive.
C.R.—5-4-13.

Please compare paragraph 3 of the Principal's letter to the Director of Public Instruction, dated 19th January 1898, on page 2 of G.O. No. 724, Educational, dated 18th November 1898. The testing machine is primarily intended for instructional purposes. In this view the Chemical Examiner's office and the King Institute will not furnish a parallel to this case.

C.R.—5-4-13.

T. KANAKASUNDARAM PILLAI—4-4-13.
C. RAMANUJACHARI—5-4-13.

There is really no educational point in this case and I imagine Public Works Department is the only department which sends any testing work to the college. If Public Works Department puts its case, Financial will be in a position to deal with the equities. Please send first to Public Works Department *u.o.*

L. DAVIDSON—7-4-13.

To the Public Works Department.

PUBLIC WORKS DEPARTMENT.

Neither the Chemical Examiner nor the Superintendent of the King Institute charges other departments of Government for work done for them, but if, for the reason that the testing machine in the Engineering College Workshops is intended primarily for instructional purposes, it is considered that its use for other departments of Government should be paid for, it is submitted that there is no reason why more than what is necessary to cover wear and tear of the machine should be so charged. The rate levied on private parties consists of (1) a third to cover charges of wear and tear which is credited to Government and (2) two-thirds which serve as remuneration to the college staff engaged on the work. It is submitted that only item (1) above is, as considered by the Chief Engineer for Irrigation, fairly chargeable to other departments for the use of the machine. With these remarks the file may be passed on to the Financial Department.

R. KRISHNAMACHARI—7-5-13.

W. G. MOLESWORTH—9-5-13.

To the Financial Department.

FINANCIAL DEPARTMENT.

The testing machine in the Engineering College is primarily intended for instructional * purposes. Testing work is done at the college laboratory both for private persons and for other departments of Government. Fees are being recovered from *private persons* and the Professor of Engineering was permitted by G.O. No. 724, Educational, dated 18th November 1898, to retain two-thirds of the fees and to credit to Government the remaining one-third to cover the wear and tear of the machine. In G.O. No. 688, Educational, dated 7th October 1899, it was decided that the Professor of Engineering should *not* be permitted to receive fees for testing work undertaken for departments of Government. No orders have however been issued to the effect that fees should not be recovered from other departments of Government.

2. The question has arisen—

(1) whether departments of Government should be charged fees (a) at the rate fixed for private persons, or (b) at one-third of the rates fixed for private persons; or

(2) whether departments of Government should *not* be charged fees, the incidental expenses being met from the contingencies of the Engineering College.

3. According to article 95, VII, Civil Account Code, a branch of a department constituted for the subsidiary service of that department but employed for analogous service of another department *may* charge that other department; e.g., workshops of a department, etc., but in this case no profit should be made by the former department.

If it be decided that, in the present case, other departments of Government should be charged, the charge should be restricted to *one-third* of the rates fixed for private persons which is intended to cover the wear and tear of the machine.

4. It is, however, submitted for orders whether for simplification of accounts it will not be preferable to lay down that Government departments should not be charged and that incidental expenses should be met out of the contingencies of the Engineering College.

C. REILLY—23-5-13.

T.A.S.—18-5-13.

V. GOPALAKRISHNA AIVAR—22-5-13.

C. REILLY—23-5-13.

I agree with paragraph 4 of the above note, and I would answer the Director's paragraph 5 accordingly.

A. G. CARDEW—26-5-13.

To the Educational Department.

EDUCATIONAL DEPARTMENT.

A draft order is submitted for approval.

B. GOPALACHARI—30-5-13.

C. RAMANUJACHARI—2-6-13.

Approved.

W. FRANCIS—4-6-13.

[G.O. No. 526, Educational, dated 5th June 1913.]

Ed DEPARTMENT

[illegible]

C. No. 778, From the D.F. 1, No. 1170, dated 8-3-1913

ORDER

No. 52658, dated 5. 6. 1913

The Govt. consider that no charge should be made by the College of Engineering, Madras, for the testing work done at the College workshops for ~~the~~ departments of Govt. ~~Some~~ incidental expenses connected with such work ~~that have been incurred~~ should ^{be met from the allotment} be ~~met from the allotment~~ Contingent expenditure of the College. ~~of Govt.~~

~~marigo~~
Bq CR
 30 579 216/13

S.C. Dept
on 5.7.13
pin
5.7.13

The Director of Public Instruction
" Accounts. Sent
" P. L. Dept
Copy to the Financial Dept

Recd 5/6/13
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PREFERENCE.

URGENT (a).

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