[Mdl. / 6.]
500—24-8-97.

Educational (1898) Department.

ORDINARY MS.

G.O., No. 776

DATED 14-12-98

INDEXED.

15/11
17-17

[Despatch Abstract.]

Asking that no change should be made in the present arrangements in regard to the teaching of Chemistry in the College of Engineering until the D.P.I. has submitted proposals for the reorganization of ~~the~~ the Staff of the College

1/6/17

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.
7 8/1205/98							

Educational (1898) Department.

CURRENT No. 1103

166/96
607/96
161/98
R 9/98

DESPATCHED
24 AUG. 1898

From

The Director of Public
Instruction,
Madras.

Order

No. 9653

Dated 24th August 1898.

Received 25 AUG 1898

Registered - do -

Enclosures

Spare copies

534-2/97
223/97

SUBJECT.

Recommending that the entire course in Chemistry in the College of Engineering be under--taken by one and the same person and that the remuneration be raised from Rs.25 to Rs.50 and requesting sanction for making the necessary provision in the Budget Estimate for 1899-1900.

EP

BACK PAPERS.

G.O.	No.	Department.	Date.
	161		11-3-98 Edl
	91		21-2-98 R
	668		30-10-96 Edl
	607		1-10-96 "
	580		6-8-92 Edl

FURTHER PAPERS.

G.O.	No.	Department.	Date.

CURRENT No. 1103

OFFICE OF THE DIRECTOR OF
PUBLIC INSTRUCTION,
Madras, 24th August 1898.

No. 9653

From

THE HONORABLE MR. D. DUNCAN, M.A., D.SC., LL.D.,
DIRECTOR OF PUBLIC INSTRUCTION,
Madras,

To

THE SECRETARY TO GOVERNMENT,
~~Educational~~ DEPARTMENT,
Fort St. George.

SIR,

According to the arrangement sanctioned in G.O. No 161 Educational, dated 11th March 1898, in regard to the teaching of Chemistry in the College of Engineering, Elementary Chemistry (Theoretical) is taught by Mr. Chatterton, Professor of Engineering, while experimental chemistry (Practical work) is taught by M.R.Ry.T.K.Hanumanta Rau, Assistant Professor of Chemistry, Presidency College. From the experience gained in the past two years nearly, during which the above arrangement has been in force, the Principal reports that the arrangement has not been working satisfactorily. Mr. Chatterton and M.R.Ry. Hanumanta Rau working separately, the theoretical and the practical courses have not that unity of plan necessary to secure that the one shall elucidate the other. The Principal, therefore, recommends that the entire course of Chemistry (Theoretical and Practical) be undertaken by M.R.Ry. Hanumanta Rau, and I support this recommendation, because, as I have already said, (vide paragraph 2 of this office letter read in G.O. No 161 Educational, dated 11th March last) Mr. Chatterton's time can be more profitably employed than in teaching elementary Chemistry.

2. As regards the extra remuneration to be paid to M.R.Ry. Hanumanta Rau, the amount recommended by Major Love, viz, Rs. 35

Ed. Cor.—1,000—28-10-97

is considered by the acting Principal as too low, because it is only Rs.10 more than the remuneration now paid to him for the practical work, while the extra work to be undertaken by him is quite as heavy as the practical work for which he is now paid Rs.25. He therefore recommends that the remuneration be raised from Rs.25 to Rs.50. This cannot be considered to be excessive, seeing that, under the arrangement proposed, M.R.Ry. Hanumanta Rau will have to do 18 hours' work each month, and will receive something under Rs.3 per hour.

3. The extra charge, though not provided in the current year's budget, may be met from the savings available under "salaries" during Major Love's absence on furlough. I, therefore, request that the arrangement now proposed for the teaching of Chemistry in the College of Engineering be sanctioned and that permission be given for the necessary provision being made in the budget estimate for 1899-1900.

I have the honour to be,

Sir,

Your most obedient servant,

S Duncan

Director of Public Instruction.

Encl
Nil

See 11

D.O.

My dear Davidson,

Would you kindly let me know in detail what Chatterton's duties are at present

at
3/12/98.

5-12

To J. P. Davidson Esqre
Principal
Coll: of Engineering. 6/12/98.

[G. / 9]
1,000—19-2-97.

Edl (1898) Department.

D. O No. 14

From J. P. Davidson Esq.
Principal. Ch. Engg Coll

D. O.

No.

Dated 7—12—98
Received
Registered } 9—12—98.
Enclosures
Spare copies

SUBJECT.

Mr. Chatterton's work as the Professor of Engineering in the College of Engineering Madras.

BACK PAPERS.

G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.

C. 10-12-98
13-12-98

College of Engineering,
MADRAS.

7. 12. 1898.

My dear Tremenheere - Chatterton's work here as Professor of Engineering consists in (1) giving lectures in the following subjects - Applied Mechanics & Machine Drawing to Engineer class - Steam Engine & Mechanism, to the Engineer & Engineer subordinate classes - (2) there are two afternoons [illegible] to Engineering Laboratory. Which means experimental work with the Students - party in the Workshop party in the Laboratory.

(iii) General Supervision of Engineering Workshop. Book to Drawing Offices work

(iv) Entire charge of Workshop and Connected Laboratories.

Charleton has also been appointed to lecture alternately Chemistry and Mathematics - Charleton to take Mathematics & Physics in the Engineering Class. 1st Div.

Engineering Class. 1st Div.

Monday. 12-1. Mechanics & St: Engine.

Tuesday. 10-12. Machine Drawing. 12-1. Applied Mechanics. 2nd Class.

2-4. Engineering Laboratory

Engineers Sub: Class. 1st Div.

Wednesday. 12-1. Mechanics & St. Engine.

Thursday. 10-12. Machine Drawing. 12-1. Mech. & St. Engine.

2-4. Engineering Laboratory.

Friday. 12-1. Applied Mechanics.

2-4. Machine Drawing.

a list of actual teachers which fall
to Chatterton's share. Electricity, Science,
& the general supervision of the shops
in Forging & Moulding & Drawing - also
exclusive of work in the workshops —
every day in the week a class attends
the shops from 8.30 — 5.30. The
work done is that necessary under
Chatterton's immediate supervision,
but he is responsible for it —
Chatterton does testing work — the
shops, some of this, as in technical
work with the students, some
necessary when the students are
not present — his work of
inspects & reports in technical
schools & his examining work

College of Engineering,
MADRAS.
189.

are outside the scope of his
duties as Professor of Forging
& there is in my own mind
not a shadow of a doubt
that the P of Engineering of
the College has quite enough
to attend to. This our work,
without anything of this kind
being added —

Yours Lieg
P Chatterton

[G. 25 A.]
509—9-8-98.

C. 5/10/25
R. 6/10/25

Educational DEPARTMENT.

C. No. 1105 of 98

SUBJECT.

Teaching of Chemistry in the College of Engineering.

FOR ORDERS.

In G.O.No.161 Ed., d/11th March 1898, Flag M, the Govt. approved, as a temporary measure and until the question of strengthening the staff of the College of Engineering is settled, the continuance of the arrangement sanctioned during the absence of Mr. Chatterton, whereby M.R.Rv. Hanumanta Rao of the Presidency College gives instruction in Practical Chemistry to the students of the College of Engineering and receives a remuneration of Rs.25 per mensem. The Director of Public Instruction now recommends, presumably as a permanent arrangement, that the work of giving instruction in theoretical Chemistry also be entrusted to Hanumanta Rao and additional remuneration be increased from Rs.25 to Rs.50 a month. The Director makes no mention of the question of strengthening the Staff but from a note of the C.E. recorded in G.O.No.530 Ed., dated 22nd August 1898 (Flag S), it appears

appears that the Director is in communication with the C.E. on the subject. From the papers recorded in G.O.No. 162 Ed., dated 11th March 1898 (Flag C) it will be seen that the Staff of the College is inadequate and that the Principal asks for the services of an additional technical assistant and that the D.P.I. admits that the staff should be strengthened. The present proposal of the D.P.I., it is submitted, while it adds to the cost of the College, gives in fact no real assistance to its Staff. It affords relief only to Mr. Chatterton; while what the College requires is the strengthening of its junior staff. If an additional assistant on about Rs.75 a month be appointed, his whole time will be at the disposal of the College, and arrangement may easily be made for one of the junior assistants of the College ...iving instruction in Chemistry. This ...s greater advantages and will cost ...ly about Rs.25 a month more than the ...roposal of the D.P.I. Submitted that ...he request of the D.P.I. be refused ... he be asked to expedite his proposals ... strengthening the Junior Staff ...e College.

...n his letter dated 20th Jan'y Cant (Flag C) ...e D.P.I seemed to admit the ...adequacy of the College Staff but ...tated that until the financial ...ssure was over the Coll. of Engi... ...ering could not have

any expensive additions to its staff. It is submitted that as the financial pressure still exists & Govt has (lately) ordered that expenditure should be cut down as far as possible, it is of no use asking the D.P.I to expedite proposals involving additional expenditure which probably would not be sanctioned. The D.P.I states in para 3 of his letter that the extra charge proposed by him may be met from the savings under 'Salaries'. It might therefore be allowed temporarily for the current year. But it is for consideration whether permission should be given to the D.P.I to incur the extra charge in the budget for 1899-1900.

ade
30/9/98

H.M.

Please see attached note
H.T.

H.M.

Up to 92, Mr. Chatterton, Prof. of Engg. College of Engg., was also taking the Chemistry classes.

Flag A. (Director's letter in P.C. $\frac{580}{6.\text{Aug.}92}$).

2. Mr. Chatterton being temporarily transferred to P.W.D., Mr. Whiteley acted for him, but C.W. not teach advanced practical work. By a temporary arrangement, an outsider was set to teach this. (Dr.)

3. Again in 96, Mr. Chatterton was absent, & there was a similar difficulty abt the officer acting for him. Mr Hanumantha Rau Chemistry Asst. Prof. Pres.y Coll., on Rs. 100, was deputed to do the work for Rs. 25 p.m. (P.C. $\frac{668}{30.10.96}$) He did the laboratory work, Mr. Keeling doing the lecturing.

Flag B.

What are Mr. Chatterton's present duties?

M.H. 6-10-98

4. In 97, when Mr. Chatterton returned, he wrote urging that his time was too valuable for him to teach Elementary Chemistry (elementary i.e. to him), & that Mr. Hanumantha Rau & Mr. do all the Chemical work for 35 or 40 Rs.

The Director did not recommend this, but was of opinion that the existing arrangement (i.e. lecturing by the Professor

the College, laboratory work
by Mr. Hanmantha Rao) might
continue pending the question
of strengthening the staff, regarding
which he promised to submit
proposals shortly. This temporary
arrangement was approved.

P.O. 161
11.3.98.
Flag M.

5. The Director now comes up,
& recommends Mr. Chatterton's
proposals of '97, with the alteration
that Mr. Hanmantha Rao
is to get, not 35 or 40 Rs, but
50 Rs pm. The only new argu-
ment is that, by having two in-
structors, the courses have more
unity of plan.

6. The Director fails to notice
that such unity could be
attained by having Mr. Chatterton
as sole instructor. The reason
which led to having two, no
longer exist, as Mr. Chatterton
is competent in both branches.
It is true, the arrangement was
continued after his second return,
but this was only temporarily until
the Director should report on the
question of increasing the staff
of the College.

Flag C.

If any changes are now made in the present arrangements, it should be to revert to the arrangement of 1892 under wh. Mr Chatterton took the Chemistry classes as well as the Engineering. No change however need be made until the D.P.I.'s complete proposals are sent in and approved.

A copy of Mr Davidson's Bo. should be added to the file re aluminium industry under Mr Chatterton

KA 12.12.98

office
Do. attn
ack
13/12/98

done 7/3/99

7. It would seem inadvisable to disturb existing arrangements before the Director has reported on the question of staff.

8. I have not come into an assertion of the A.G. (I.O. 223 / 13.4.97) that Mr Chatterton's duties were those of a "Professor of Engg & a lecturer of Chemistry" first, because I suggest no alteration in the existing state of things, secondly because apparently the reorganization of the Ed.n Dep.t & the new rules of the College, render that remark no longer relevant.

H.T.
4.10.98.

College of Engineering,
MADRAS.

28. XI. 1898.

My dear Edgington, I would have left a letter to see the Director but

The duties of the Prof. of Engineering are nowhere defined and as the profession is one with many branches I have rather more work in the Engineering College alone than is usually the case out here with educational officers. Since Davidson became Acting Principal I have lectured to the Engineer class on Applied Mechanics, Machine Drawing, Mechanism & the Steam Engine & to the Engineer Subordinates class on Mechanism & the Steam Engine. When Love was here he took Applied Mechanics & I took

hydraulics & irrigation
works.
Besides lecture work
I have charge of all the
drawing in the College & am in
sole charge of the workshops &
two afternoons a week I have
the students in the Engineering
Laboratory. Of course I have a
certain amount of work
connected with the general
discipline of the College but
that is mainly the Principals
duty. Besides purely College
work I have for a long time
been inspecting Technical
Schools in my holidays and
acting as a sort of general
adviser on Technical matters
to the D.P.I. This involves a lot
of work for which I have often
been promised a special personal
allowance but I have never got
it. Further there is a 100 ton
testing machine in the College
workshops & during the past
12 months I have done a lot
of testing work for the Madras
P.W.D The S.I.R of Madras
Railways. The Consulting Engineer
for Railways & the Forest Department.
The fees for this amount to a
good deal & at present are all
credited to Govt. Though I have
to be personally responsible for
the accuracy of the work.
Just at present the P.W.D
want me to do a lot of testing
& experimental work in
connection with the Bhavani
Reservoir project but nothing
is definitely settled. Lastly I
am frequently consulted by any

engineer out here who wants special information by the Board of Revenue in such matters as water lifts and applications for patents.
This is all apart from work at the School of Arts, Examination work & University work which I suppose I have the option of refusing to do if I so choose.
It is a pretty miscellaneous collection of jobs which I have to do. Sometimes one takes up all my time, sometimes another & since I came out from furlough I have never had a days holiday although I am nominally credited with a good many.
I hope this information will be sufficient for your purpose
Yours Sincerely
Sykes Chatterton.

I should like a ref. made to the Principal of the College for a statement of Mr C's duties.

KA
2.12.98

Note for the Secy.

H.M. has asked what Mr Chatterton's present duties are.

The D.O. from Mr Chatterton put up gives an account of his duties which appear to be very extensive, but they are not defined in the rules of the College of Engineering nor in any G.O. In para.5 of Major Love's letter No.485c dated 27th August 1885, forming an enclosure to Mr Grigg's letter printed in G.O. No.328 Ed. dated 27th May 1886 (Flag D), the duties of the Prof. of Engineering were stated to be the instruction of the engineer classes and of the upper subordinate classes in civil and mechanical engineering, and in para. 5 of the same letter it was stated that a knowledge of practical Chemistry and Physics would be advantageous in the case of the Prof. of Mathematics. In para. 10 of his letter Mr. Grigg, however, stated that "the gentlemen selected (for the posts of Prof. of Engineering and Prof. of Mathematics) should have an elementary knowledge of Physics, Chemistry and Geology, as it is proposed to divide the teaching on these subjects between the two Professors and thus

C. 30-11-98
C 2-12-98

void the expense of a separate teacher of science"

vide page 4 of C.O. No. 328 Ed. dated 27th

May 1886- (Flag D)

he delay in putting up this note is due to a

istake in the office when the records of

he Ed. Dept. were moved from the Chief

Secretariat.

ade
28/11/98.

H.M. with ref. to his query.

HT
29 11 98

[G. 124]

1,000—11-10-98.

Educational DEPARTMENT

C. No. 1103 From the 11th inst., No. 9653, dated 24th Aug 1898.

" " " " " 189 .

" " " " " 189 .

" " " " " 189 .

Order issued No. 7769 14-12-98

The Govt. Considers that no change should be made in the present arrangements of the Engineering College until the D.P.I. has submitted complete proposals for the reorganization of ~~the~~ its staff. (From order)

ade
13/12/98.

H.T.
14 12 98

To The O.P.I. 280 Draft to do 15/12/98

When given for copying 14/
When copied
When examined 15/12/ 189
When signed

READ AGAIN G.O., No 189 . DATED

CURRENT No.

ENCLOSURES TO C. No.

ORDER OF GOVERNMENT.	A	A	A	A	A	A	A
LETTER OF GOVERNMENT.							
STATEMENT WITH DITTO							
PAPERS NOT FILED UP, BEING MEANT FOR DESPATCH IN ORIGINAL.							

N.B.—
A = Copy in full.
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