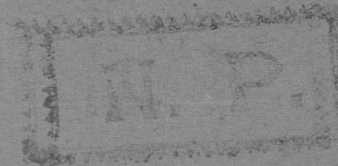
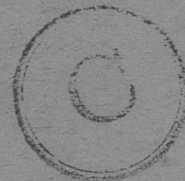


Educational (1904) Department.

ORDINARY PRINTED.

G.O., No. 754

DATED 21. 12. 04



INDEXED

ORIGINAL

[Despatch Abstract.]

College of Engineering, Madras.

Referring to the Committee appointed by G.O. No. 72
of 12. 12. 04, certain proposals for consideration
regarding the practical course of the apprentice
Engineers, in connection with the revision of
the Syllabus & Curriculum of the

BACK PAPERS.

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

FURTHER PAPERS.

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

Government {1904} of Madras. EDUCATIONAL.

Recd.

Regd.

} 1904.

Enclosures

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ORIGINAL

G.O., No. 754, 21st December 1904.

N. P.

DECEMBER.

College of Engineering, Madras.

Referring to the Committee appointed by G.O., No. 723, Educational, dated 12th December 1904, certain proposals for consideration regarding the practical course of Apprentice Engineers in connection with the revision of the syllabus and curriculum of the —.

GOVERNMENT OF MADRAS.

EDUCATIONAL DEPARTMENT.

READ—the following paper :—

From M. BROWN, Esq., General Superintendent, Public Works Stores, to the Superintending Engineer, V Circle, dated Madras, 9th November 1904, No. S. 515 M. of 1904-1905.

With reference to paragraph 155 of the Public Works Department Code, Vol. 1, Chapter 11, I have the honour to inform you as already reported in my letter No. 515 M./04-05, dated 28th October 1904, that Mr. Narasimha Aiyangar, Apprentice Engineer attached to the Public Works Stores Division, has during the first six months of his training given complete satisfaction and done very useful work in the stores.

I request that the sanction of the Chief Engineer, Public Works Department, may be obtained to his services being retained here for the second six months of his course.

I may add that there is no sub-division either in the Workshops or the Stores Divisions to which I could appoint him as required by the code, but he is obtaining a lot of very useful information at these stores about materials which will be useful to him hereafter in any division he may be placed.

No. 794 W., dated 16th November 1904.

Forwarded in original to the Chief Engineer, Public Works Department, for favour of compliance with the General Superintendent's request.

C. H. B. BURLTON,
Superintending Engineer, V Circle.

ORDER—No. 754, Educational, dated 21st December 1904.

Under the existing rules of the College of Engineering, Madras, students of the Engineer class who are successful at the College Final examination are required to undergo a practical course of one year's duration. Those who elect to become Mechanical Engineers are required to proceed to the Public Works Workshops but, may, if they please, spend the last six months of their practical course at the College Workshops. It is, however, now considered desirable that an Apprentice Engineer electing to become a Mechanical Engineer should spend six months of his practical course in an Engineering Workshop and the remaining six months on civil works. This question will now be referred to the Committee appointed by G.O., No. 723, Educational, dated 12th December 1904, for consideration in connection with the revision of the syllabus and curriculum of the College of Engineering.

The Committee will further consider whether the existing practice under which candidates for the Mechanical branch of the B. E. Degree examination pursue while in the College the same course of studies as those for the Civil branch and the actual bifurcation of the course for the respective branches takes place at the end of the theoretical or College course should be allowed to continue.

2. Meanwhile the Apprentice Engineer R. Narasimha Aiyangar will continue to be attached to the Presidency Public Works Stores.

(True Extract.)

H. D. TAYLOR,
Ag. Secretary to Government.

To the Director of Public Instruction.

„ Public Works Department.

„ Committee appointed by G.O., No. 723, Educational,
dated 12th December 1904.

EDUCATIONAL DEPARTMENT.

NOTES CONNECTED WITH G.O., No. 754, EDUCATIONAL, DATED
21ST DECEMBER 1904.

[SUBJECT.—*Apprentice Engineer R. Narasimha Aiyangar.*]

PUBLIC WORKS DEPARTMENT.

From the Superintending Engineer, V Circle, dated 16th November 1904, No. 794 W.

Mr. R. Narasimha Aiyangar, apprentice Engineer, joined the Presidency Public Works Workshops and Stores in February last for practical training. This is in accordance with the orders contained in paragraph 3 of Chief Engineer's memorandum No. 993 C, dated 6th February 1904.

2. The General Superintendent, Public Works Workshops and Stores, now recommends that the apprentice Engineer may be permitted to remain where he is to the end of his 12 months' practical course as a passed Engineer student of the Madras College of Engineering.

3. It will be seen from Colonel Love's letter printed with memorandum No. 993 C, dated 6th February 1904, that this Engineer student has elected to become a Mechanical Engineer. He must therefore spend one year in an Engineering Workshop as required by rule 10 of the College rules—G.O., No. 366, Educational, dated 28th June 1901.

Under these circumstances, the apprentice Engineer may, it is submitted, be permitted to remain in the Public Works Workshops until he completes 12 months' practical training.

4. It must, however, be mentioned in this connection that if the training in the Workshops cannot render the apprentice Engineer "fully competent in all respects to hold a sub-divisional charge", he would, at the end of his workshop course, be ineligible for promotion to the rank of Assistant Engineer, 3rd grade, and it would be necessary to extend his term of apprenticeship under the provisions of paragraph 155 of the Public Works Code.

S.V.—21-11-04.

Do you know of any rules applicable to Mechanical Engineers beyond those on page 5 of G.O., No. 366, Educational, dated 28th June 1904?

S. B. MURRAY—21-11-04.

It is submitted that the note already put up may be referred u.o. to the Educational Department with an observation to the following effect:—

Schedule B of the Public Service notification revised up to 31st March 1904 sets forth the qualifying tests prescribed for various offices. At page 6, under the head "Public Works Department—Executive Branch", the qualifications prescribed for appointment as "Assistant Engineer" and those prescribed for appointment as "Engineer Subordinates" are detailed. It will be seen that while it is laid down in the case of "Engineer Subordinates" that "candidates must be certified to have completed both the theoretical and practical courses prescribed", a similar condition, so far as practical course is concerned, has not been made applicable to the appointment of "Assistant Engineer".

2. It would thus seem that the general rule governing the practical course of Engineer students, as laid down in rule 10 of the College rules (G.O., No. 366, Educational, dated 28th June 1901), applies to all but the Engineer student appointed apprentice Engineer. The Educational Department may be asked whether this view is correct.

Apprentice Engineer R. Narasimha Aiyangar has already passed the examinations (including the B. E. degree examination) prescribed in the Public Service notification for appointment as Assistant Engineer.

S.V.—22-11-04.

First to dispose of Mr. Narasimha Aiyangar's case. According to the Civil Engineering College rules a Mechanical Engineer must spend the whole of his practical course in shops, and this does not fit him for earning the certificate that at the end of his practical course he is "fully competent in all respects to hold a sub-divisional charge" (Public Works Department Code 155); consequently his promotion cannot be made.

In the present case the only thing to do is, at the end of the year in the shops, to move the apprentice out into a district for employment on civil works for six months or less.

2. From the above it will be seen that under the present orders Mechanical Engineers are at a distinct disadvantage, and about this I have had a long talk with Mr. Keeling. With the present college course he says there is very little difference between the "civils" and "mechanicals", but in the proposed reorganization of the college syllabus, which he intends to lay before the Committee recently convened by Government to consider the working, etc., of the college, he hopes to materially alter the present state of affairs.

Mr. Keeling made a great point of the necessity for practical training for Mechanical students, and to overcome the hardship which is exemplified in Narasimha Aiyangar's case above, I made the following proposal which Mr. Keeling agreed to. That the College calendar lay down that Mechanical students spend the first six months of their practical course on civil works and the second six months in shops, and that a Public Works Departmental rule be issued that on the completion of his practical course a Mechanical Engineer will spend one year more in shops.

We are getting a lot of these "mechanicals" into the Department now and we have not work for them as mechanics.

S. B. MURRAY—26-11-04.

We shall injure these "Mechanical" students on ordinary civil works and their mechanical knowledge will only be of use to the State as supplementary to their knowledge of civil works. This being so, the college rule had better be altered to six months in shops and six months on civil works for the apprentice Engineer.

W. B. DEWINTON—27-11-04.

The Secretary has come to the conclusion that it would be well to alter the college rules (Rules 10 and 14, of the rules appended to G.O., No. 366, Educational, dated 28th June 1901) so as to provide that an apprentice Engineer, electing to become a Mechanical Engineer, shall spend six months of his practical course in an Engineering Workshop, and the remaining six months on civil works. Such alteration of the rules is a question for the Educational Department to consider and decide. It is submitted therefore that these notes be forwarded u.o. to that Department for dealing with the question.

2. Meanwhile, the General Superintendent, Public Works Workshops, may be informed that apprentice Engineer R. Narasimha Aiyangar will continue to receive practical instruction in the Workshops pending further orders. A draft memorandum for approval is submitted accordingly.

S.V.—30-11-04.

Issue.

S. B. MURRAY—30-11-04.

To the Educational Department.

EDUCATIONAL DEPARTMENT.

To the Director of Public Instruction u.o. for remarks.

A. GALLETTI—1-12-04.

University by-law 285 prescribes one year in practical work, of which at least six months shall be passed by candidates in the Civil branch on Engineering works, and by candidates in the Mechanical branch in Engineering Workshops. I understand that the Public Works Department wishes to insist in the case of the latter candidates that the other six months shall be spent on Engineering works. This may well be laid down as a college rule, and it will not conflict with the University by-law. The Principal appears to have approved of this.

2. I gather from the note dated 27th November 1904 (I cannot decipher the initials) that it is proposed to employ these Mechanical students upon civil works. It is a matter for Engineers to decide, but it seems to me a peculiar system to educate a man as a Mechanical Engineer and then make a Civil Engineer of him by adding six months' duty on works. It appears from the University Calendar, page 131, that he will not have studied while at college any Construction, Hydraulic Engineering, Surveying, Surveying Field work, Building Drawing or Estimating.

A. G. BOURNE—5-12-04.

The last paragraph of the above note is based upon a misconception. After writing it I referred to the Principal of the College, and he informs me that candidates for the Mechanical branch of the University degree pursue while in the college exactly the same course of studies as do those for the Civil branch. The majority of the students are appearing this year for the Mechanical branch, presumably they think it easier; they say, however, that they intend to appear for the Civil branch in a subsequent year.

2. It seems to me that the sooner the whole question of the training in the college and the curricula laid down by the University are overhauled, the better.

A. G. BOURNE—13-12-04.

A Committee has been appointed for the purpose of revising the syllabus and curriculum of the Engineering College, and this appears to be a subject which will fall within the scope of that Committee. The question may be referred accordingly to the Committee.

H. D. TAYLOR—15-12-04.

Yes; the matter may be referred to the Committee. Meanwhile the apprentice may continue in the Workshops.

J. T[HOMSON]—16-12-04.

Please draft accordingly.

H. D. TAYLOR—16-12-04.

A draft is submitted below for approval.

N. LAKSHMANA RAO—17-12-04.

V. KRISHNASWAMI—19-12-04.

A. GALLETTI—19-12-04.

Approved.

H. D. TAYLOR—20-12-04.

[G.O., No. 754, Educational, dated 21st December 1904.]

Public Works (1904) Department.

CURRENT No. 11291

From

[Name] C. H. P. Boulton Esquire

[Designation] Supty. Engineer, Madras

[Station] Madras

No. 794 W

Dated 16 November 1904.

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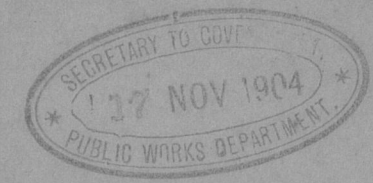
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U. R. Clerk 19-11-1904

Referencer 17-11-1904

Record Supdt. 190

Drafting Officer 190



SUBJECT.

M.R. Narasimha Aiyangar, Apprentice Engineer, Town
for favour of compliance letter from the General Superintendent
B. W. Stores requesting to allow — remain in B. W. Stores for the
second six months of his practical course for seasons given in
the letter.

BACK PAPERS.

To

The Chief Engineer,
Secretary to Government, Public Works Department.

Sir,

[E. 12]

1,000-24-9-04.

READ AGAIN G.O., No.

dated

READ ALSO:-

G. No. 11291, From the Supt. of Engineers, V circle, No. 794W, dated 16-11-1904

ORDER

PS.

No. 754, dated 21-12-1904

Therefore Under the existing rules
of the College of Engineering, Madras, #
of the Engineer class
Students who are successful at the College
final examination are required to undergo
a practical course of one year's duration.
Those who elect to become mechanical
Engineers are required ~~unrequired~~ to
proceed to the Public Works Workshops
but may, if they please, spend the last
six months of their practical course
at the College Workshop.

It is considered desirable that an address

Please see rule 10 of the rules
in G.O. No. 3662 of 28-6-01

Time in Madras
to the P.W.D.
M
21/12.

Issue.

The Committee will further consider whether the existing practice under which candidates for the Mechanical Branch of the B.E. degree examine ^{for} pursue while in the College the same course of studies as those for the Civil Branch & the actual bifurcation of the course for the respective branches ^{take place} ~~commence~~ at the ~~com~~ end of the theoretical or College course sh^d be allowed to continue.

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" Committee appointed by govt. - meeting
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READ AGAIN G.O., No.
190

• DATED

CURRENT No.

ENCLOSURES TO C. No.

ORDER OF GOVERNMENT

LETTER OF GOVERNMENT.

STATEMENT WITH DITTO

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