Ed.
7.
250—10-7-96.

Educational (1895) Department.

ORDINARY PRINTED.

G.O., No. 525

DATED 21st June 1895

INDEXED.

[Despatch Abstract.]

DRAUGHTSMEN'S CERTIFICATES.

Passing orders with regard to the examination for--of men who have not been at the College of Engineering; and requesting the Director of Public Instruction to report regarding the distribution of examination marks, &c.

4

BACK PAPERS.

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

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.
	16	—	96				

21st June 1895, No. 525, Educational.

GOVERNMENT OF MADRAS.

EDUCATIONAL DEPARTMENT.

Read—again the following papers :—

G.O., dated 5th Dec. 1893, No. 890, Educational.
" " 23rd May 1894 " 358 "

Read—also the following papers :—

From the Hon'ble Mr. D. DUNCAN, M.A., D.Sc., Director of Public Instruction, to the Chief Secretary to Government, dated Madras, 11th January 1895, No. 225.

With reference to G.O., Educational, No. 358, of the 23rd May 1894, I have the honour to submit copy of a letter from the Principal, College of Engineering, No. 317-C., dated 28th August last, and to state that I agree with him in thinking that Government servants who wish to obtain college certificates as draughtsmen should be required to attend the college, go through the prescribed course and appear for the final examination before the College Board of Examiners. To allow such men to appear for the final examination without going through the college course would, as pointed out by Lieutenant-Colonel Smart, seriously damage the prospects of the draughtsmen passing out of the college. Further, it seems anomalous to award college certificates to persons who have not attended and gone through the prescribed college course. Masters in Government and other schools desirous of securing trained teachers' certificates are required to undergo training in a training institution before they qualify for such certificates, and the same principle should govern the case of Government servants seeking college certificates as draughtsmen or surveyors.

2. It seems to me that the proper course would be to provide for the examination of such candidates under the Government Technical Examination Notification.

Enclosure.

From Lieutenant-Colonel A. W. SMART, Acting Principal, College of Engineering, Madras, to the Director of Public Instruction, dated 28th August 1894, No. 317-C.

With reference to your No. 5506, dated 8th June 1894, I have the honour to state that I am of opinion that Government servants who wish to come up for the examination of draughtsmen in order to obtain certificates should be sent to the college for the prescribed course, their fees and maintenance being paid by Government if they consider this course necessary. To allow men not educated at the college to appear for examination, unless such cases were very few and far between, would seriously damage the prospects of the draughtsmen passing out of the college.

No. 224.

Referred to the Public Works Department for favour of remarks (with a copy of G.O., dated 23rd May 1894, No. 358, Educational).

Fort St. George,
5th February 1895.

(Signed) A. BUTTERWORTH,
Under Secretary.

Note by the Chief Engineer, Public Works Department, dated 8th February 1895.

My opinion is absolutely and entirely opposed to that of the Principal of the College of Engineering and of the Director of Public Instruction.

2. I can see no reason whatever for compelling persons who wish to attend an examination at the college to go through a course of instruction at the same institution; the examination is intended to prove the presence or absence of certain qualifications without any reference to the manner in which they are obtained.

3. I do not consider that there is any analogy between the case of teachers and that of draughtsmen, and I am bound to add that I do not consider the argument that the proposed concession would damage the prospects of draughtsmen passing out of the college to be worthy of serious discussion.

4. The dearth of draughtsmen qualified for the work of this department is a very serious evil and every encouragement should be given to men desirous of obtaining the necessary qualifications, without reference to the source from which they are obtained.

(Signed) J. PENNYCUICK, Col., R.E.,
Chief Engineer, P.W.D.

No. 537-C.

Transferred to the Educational Department with advertence to its endorsement, No. 224, dated 5th February 1895, and the referred papers returned.

(Signed) J. PENNYCUICK, Col., R.E.,
Secretary to Government, P.W.D.

12th February 1895.

Endorsement, in the Public Works Department, dated 10th May 1895, No. 140-D.

Order—dated 21st June 1895, No. 525, Educational.

In G.O., dated 5th December 1893, No. 890, Educational, the Government resolved to amend the rules of the College of Engineering so as to allow of the grant of modified first and second class draughtsman's certificates to third and second grade draughtsmen in the Public Works Department, but no provision was made for the grant of modified third-class certificates because the intention was merely to enable ex-students of the College of Engineering to qualify for promotion by obtaining certificates of higher classes.

In G.O., dated 23rd May 1894, No. 358, Educational, however, the question was raised whether facilities should not be afforded to enable men who had never been at the college to obtain modified draughtsman's certificates of all classes and the Director of Public Instruction and the Principal of the College were asked to report on the point.

2. The Principal and the Director of Public Instruction are opposed to the grant of modified certificates to men who have never been at the college as they believe that it will seriously affect the prospects of the students of that institution. It is further pointed out by the Director of Public Instruction that it is anomalous to grant college certificates to persons who have not gone through the prescribed course. The chief Engineer combats this view and expresses the opinion that the dearth of draughtsmen qualified for the work of the Public Works Department renders it expedient that every encouragement should be given to men desirous of qualifying themselves for employment. He therefore proposes that men who have not attended the college course should be permitted to appear for the same examination as regular students and should receive similar certificates provided that they pass an equally good examination.

3. This proposal necessitates an alteration in the college rules. At present the maximum number of marks obtainable is 1,000, of which 600 are awarded by the Board of Examiners and 400 by the College staff for work done in the college. Students who obtain 500 marks and a minimum of 36 *per cent.* in each of the seven subjects receive third-class certificates; they are not required to obtain separate *minima* at the examination and can supplement deficiencies thereat by good work in their course at the college. This is an advantage of which outside students are necessarily deprived, and in order, as the Chief Engineer desires, to place both classes of candidates on the same footing, it is essential that separate *minima* should be prescribed for examination marks. Certificates would then be given to all candidates, whether outside men or students in the college, who obtain the requisite *minima* at the examination. The necessity of retaining the system of giving marks for term work appears open to question, though it might be considered desirable to mark the superiority of a college student who had obtained high term marks by noting the fact on his certificate.

4. The Government is not prepared to agree entirely with the Chief Engineer but has no objection to giving his plan a trial for two years. In order that this may be done, the Director of Public Instruction will now be requested to report how the examination marks should be distributed, what separate *minima* he considers should be adopted, and whether term marks should continue to be granted.

(True Extract.)

Chief Secretary.

To the Director of Public Instruction.
„ Public Works Department.

Edx. A. Raitt.

Govt. of {1895} Madras.

EDUCATIONAL.

Issued

Recd. *Encl.*

G.O., 21st June 1895, No. 525.

JUNE.

Draughtsmen's Certificates.

Passing orders with regard to the examination for — of men who have not been at the College of Engineering; and requesting the Director of Public Instruction to report regarding the distribution of examination marks, &c.

Read - again the foll'g papers.
G O of 5-12-93 No. 890
G O of 23-5-94 No. 358

Ed 525 of 21-6-95

OFFICE OF THE DIRECTOR OF
PUBLIC INSTRUCTION,
Madras, 11th January 1895.

Read also the foll'g

No. 225

From

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

To

THE HONORABLE THE CHIEF SECRETARY TO GOVERNMENT,
FORT ST. GEORGE.

SIR,

With reference to G.O. Educational, No. 358, of the 23rd May 1894, I have the honour to submit copy of a letter from the Principal College of Engineering, No. 317C, dated, 28th August last, and to state that I agree with him in thinking that Government servants who wish to obtain college certificates as draftsmen should be required to attend the college, go through the prescribed course and appear for the final examination before the College Board of Examiners. To allow such men to appear for the final examination without going through the college course would, as pointed out by Lt. Col. Smart, seriously damage the prospects of the draftsmen passing out of the college. Further it seems anomalous to award college certificates to persons who have not attended and gone through the prescribed college course. Masters in Government and other schools desirous of securing trained teachers' certificates are required to undergo training in a training institution before they qualify for such certificates, and the same principle should govern the case of Government servants seeking college certificates as draftsmen or surveyors.

2. It seems to me that the proper course would be to provide for the examination of such candidates under the Government Technical Examination Notification.

I have the honor to be,
Sir,
Your most obedient servant
D Duncan
Director of Public Instruction.

No. 317C.

Dated 28th August 1894.

From

The ag: Principal
College of Engineering, Madras.

To

The Director of Public Instruction, Madras.

Sir.

With reference to your No. 5506*, dated, 8th June 1894, I have the honour to state that I am of opinion that Government servants who wish to come up for the examination of draftsmen in order to obtain certificates should be sent to the college for the prescribed course, their fees and maintenance being paid by Government if they consider this course necessary. To allow men not educated at the college unless such cases were very few and far between - would seriously damage the prospects of the draftsmen passing out of the college

I have the honor to be &c
(sd) A. W. Smart.
ag: Principal.

(True copy)

D Duncan
Director of Public Instruction.

* herewith returned

to appear for exam.

Pw 3.+6
~~896~~/55
3212

Enc 6. to D.P.I.'s
letter No. 2239/96

5
83
1

los. No.
To 30

Ed. Cor. 17. 2,000—29-3-94.

30/E.5

P. W. CURRENT No. ~~89~~6

1895.

~~Educational Department.~~

3212/95

From

THE DIRECTOR OF PUBLIC INSTRUCTION,
Madras,

To

THE HONORABLE THE CHIEF SECRETARY
TO GOVERNMENT,
Fort St. George.

DESPATCHED
11 JAN. 95

No. 225

Dated 11th January 1895
Despatched
Received 12
Enclos 2

Recd: 7.2.95

No.

CHIEF SECRETARY
12 JAN. 1895
GOVERNMENT OF MADRAS

ENCLOSURES.

Subject.

Stating that Government servants who wish to come up for the Draftsmen Examination to obtain certificates should attend the college and go through the prescribed course before they are allowed to appear for the final Examination for certificates as draftsmen.

358: 23-5-94

30

N. Endt d/ 5-2-95 No. 224

Referred to the P.W.D. for favour of remarks (with a copy of G.O. d/ 23 May 1894, No. 358, Ed.)

A. Butterworth
Under Secy

Compd 8/2/95

TO BE RETURNED WITH REPLY.

CURRENT NO. 177

1895.

Public Works Department.

Educational Dept

No. 537 C

Dated 12-2-1895

Despatched

Received 12/2

Regd 13/2

CHIEF SECRETARY
12 FEB. 1895
GOVERNMENT OF MADRAS

Encl C No. 30 nt

OWE 4
3212/95

SUBJECT.

Transferring note by the Chief Engineer P.W.D. in regard to the examination of Govt. servants who wish to obtain College certificates as draftsmen.

50—2,000—21-12-94.

w. 166 C d/ 11. 1. 90
" 418 C d/ 22. 1. 90
" 602 C d/ 4. 2. 90
" 758 C d/ 11. 2. 90
" 853 C d/ 15. 2. 90
" 108 W d/ 12. 1. 91
" 3385 C d/ 5. 7. 92
" 3480 C d/ 11. 7. 92
" 3497 C d/ 13. 7. 92
" 3692 C d/ 1. 8. 92
" 113 D d/ 5. 8. 92
" 261 D d/ 26. 8. 92
" 288 D d/ 1. 9. 92
" 428 D d/ 21. 9. 92
" 466 D d/ 29. 9. 92
" 5092 C d/ 3. 12. 92
" 2005 C d/ 22. 5. 94
" 1901 W d/ 16 7. 95
" 3221 W d/ 12. 12. 93
" 1684 W d/ 6. 7. 94
" 66 W d/ 12. 1. 95
" 537 C d/ 12. 2. 95

OW 42

Ed. Cor.

No. 537 C dated 12th February 1895

P. W. D.

CURRENT NO. 177

Letter from the Director of Public Instruction No. 317 C dated 28 Aug: 1894.

Endorsement thereon in the Educational deptt. No. 224 dated 5 February 1895.

Note by the Chief Engr. P. W. Deptt.:—

My opinion is absolutely and entirely opposed to that of the Principal of the College of Engineering and of the Director of Public Instruction.

2. I can see no reason whatever for compelling persons who wish to attend an examination at the College to go through a course of instruction at the same institution,

the examination is intended to prove the presence or absence of certain qualifications without any reference to the manner in which they are obtained.

3. I do not consider that there is any analogy between the case of teachers and that of draftsmen, and I am bound to add that I do not consider the argument that the proposed concession would damage the prospects of draftsmen passing out of the College to be worthy of serious discussion.

4. The dearth of draftsmen qualified for the work of this Department is a very serious evil, and every encouragement should be given to men desirous of obtaining the necessary qualifications, without reference to the source from which they are obtained.

(Sd) John Pennycuick.
Colonel R.E.
Chief Engineer P.W.D.
8th February 1895

Transferred to the Educational department with advertence to its endt. No. 224 d/5 Feby 1895 and the referred papers returned.

Colonel R.E.,
Secretary to Government, P.W.D.

To,
The Educational depmt.
with original papers returned

CW 708
9/2/95

E: [illegible]

500—20-6-94.

Ed. DEPARTMENT.

No. 30 & 177 of 1895

From

Dated 189 ,

FOR ORDERS.

The D.P.I. seems to have detained Col. Smart's letter for nearly five months in his office.

The question to be settled is this:—

(1) In G.O. of 5 Dec 1893, No. 890, Govt. arranged for the grant of modified Certificates of the 2nd & 1st Class to 3rd & 2nd grade Draughtsmen;

(2) no arrangement was made for the grant of modified 3rd Class Certificates, because the intention was merely to enable Ex-students of the College to qualify for higher Certificates with a view to facilitating their promotion;

(3) in G.O. of 23 May 1894, No. 358, Ed, however, Govt. raised the question whether facilities should not be afforded to enable men who had never been to the College at all to obtain College certificates;

x and he offers no expln. for so doing

I approve of the suggestions in (10)—(12) of the Note. It wd certainly be anomalous to grant College certificates to men who have not passed through the College course & on easier conditions than it is granted to them. All objects will be secured if a pass at the Tech. Exams is made a sufficient qualification. In this way the wish of the C.E. "to widen the field of selection" will be met. There must be different standards for the men who pass through the College Course & the men who do not, & the difference can be made very trifling

J G
11/3

I see no objection if only care is taken that the standards at the Technical Examns. correspond as nearly as possible to the Engg. College ones — & that the Examiners are competent.

W
18 Mar

(4) the Principal of the College & the D.P.I. oppose the suggestion on the ground that it will affect the prospects of students of the ~~[illegible]~~ College & that it is anomalous to grant College Certificates to men who have never been at the College;

(5) the Chief Engineer disagrees with this view;

(6) ~~[illegible]~~ the Principal, the D.P.I. & the C.E. all regard the question as affecting not only men now in the public service but future appointments also; ~~[illegible]~~

(7) if this view of the case is correct, there seems to be good ground for the objections taken by the Principal & the D.P.I.; for —

(i) the modified Certificate is granted on a max of 600 marks only, 400 marks for work done while in College being excluded; therefore, if men possessing 3rd class modified Certif.e are to be freely admitted to the third grade of Draughtsmen, it is likely that no small number will prefer to appear for such Certif.s instead of entering the College & striving for the ordinary Certificates; the attendance at the College would thus be prejudicially affected;

(ii) it is certainly no part of the duties of the College Board of Exam.rs to test men who are not students of that institution & whose sole object is to get into the P.W.D.;

(8) on the other hand, if any arrangements made are confined in their effect to persons now in the public service, the attendance at the College is not likely to be materially affected; but ~~[illegible]~~, even so, the objection that it is no part of the duties of the Board of Exam.rs to test candidates for employment in the P.W.D. will apply;

(9) this last objection

I cannot admit the force of this; as long as we get the men and they are qualified it does not matter whether they have been through the College or not; why should not private schools have a chance?

So they might if one were started, but is that any reason for allowing men who haven't attended the College to pass on a max of 600 instead of on one of 1000.

Why not? The primary duty of the College is to supply the wants of the P.W.D. but for which it would have no raison d'etre; the officers of the Educational department too often harp upon the converse view —

I want to widen the field of selection as much as possible —

Then why not make it part of their duties —

can be got over in the way suggested by Dr. Duncan, that is to say, the candidates can be required to obtain a pass at the Govt. Technical Examns.; ~~[illegible]~~

I think not; it is essential that the examination should be the same for all classes of candidates — It would never do to have the different standards —

But it won't be so, if the College Bd. is required to examine, for it will pass candidates on a max of 600 instead of 1000, & besides if it is essential that all candidates should possess the same qualifications, all candidates ought in reason to pass through the College

(10) this seems to be the best way out of the difficulty & it is subm.d that the G.O. should be to the effect that persons now in Govt. service who do not possess Draughtsman's Certificates of the College of Engineering will be ~~[illegible]~~ eligible for appointment to the Third Grade of Draughtsmen in the P.W.D. if they have obtained Certificates of qualifications in the necessary engineering subjects at the Govt. Technical Examns.;

See above — I cannot withdraw in any way from the views expressed in my note of the 8th Feb —

But the interests of the P.W.D. are not the only ones to be considered

(11) in this way, material injury to the College will be avoided, something will have been done to meet the dearth of Draughtsmen referred to by the C.E., & the Govt. Technical Examns. will be stimulated;

In two of these three objects the P.W.D. has but an infinitesimal interest, and the third will be attained to a very trifling extent —

(12) as to the subjects of the Govt. Technical Examns. in which such persons should be required to qualify, & as to the standard (Preliminary, Intermediate or Advanced) which they should be required to attain, the D.P.I. & the C.E. can be asked to advise in communication.

21 Feb

25/2/95

I am sorry I cannot countenance this, for the reasons stated in the margin —

6/3

Draughtsman's Certificates

CHIEF SECRETARY
-7 MAR. 1895
GOVERNMENT OF MADRAS

Hon [illegible]

(Forbidden)

Ord 5.3
3212/95

To the Sec. to Govt P.W.D.
For favour of counter initials

[G./24]
500—26-6-94.

Ed. DEPARTMENT.

Papers to be read in Proceedings:—

P { Again G. O., dated 5th Dec 1893, No. 890
Again G. O., dated 23rd May 1894, No. 358

A Current No. 30 of 1895, dated 11th Jan from the D.P.I.

A Current No. 177 of 1895, dated 12th Feb from the P.W.D.

ORDER.

P.S.

In G.O. d the 5th Dec 93, no 890, Ed, the Govt resolved to amend the rules of the College of Eng. so as to allow of the grant of modified First and Second class Draughtsman's certificates to ~~the~~ third and second-grade draughtsmen in the P.W.D. but ~~made~~ no provision was made for the grant of modified Third class certificates because the intention was merely to enable ex-students of the College of Eng. to qualify for promotion by obtaining ~~higher class~~ certificates of higher classes. In G.O. d the 23rd May 1894, no 358, Ed, however, ~~the Govt raised~~ the question was raised whether facilities should ~~whether men in Govt Service~~ not be afforded to enable men who had never been at the College ~~should not be allowed~~ to obtain ~~the~~ modified Draughtsman's certificates of all classes ~~(including third class ones)~~ and ~~asked~~ the D.P.I and the Principal of the College were asked to report on the point.

2. The Principal and the D.P.I. are ~~against~~ opposed to the granting of

the modified certificates to
men who have never been at
the College as they believe that
it will seriously affect the
prospects of Students of ~~the College~~ that Institution.
It is further pointed out by the
D.P.I that it is anomalous to
grant College certificates to persons
who have not gone through the
prescribed College Course. ~~of the College~~.

The Chief Engineer ~~approves~~ combats
this view and ~~asserts~~ expresses the opinion that the
dearth of draughtsmen qualified
for the work of the P. W. D ~~is a~~
renders it expedient that
~~very serious evil and that~~ every
encouragement should be given
to men desirous of ~~obtaining the~~ qualifying
themselves for employment.
~~necessary qualifications, with-~~
~~out reference to the source from~~
~~which they are obtained~~.

3. After ~~a careful~~ consideration
of the points at issue, the Govt
has come to the conclusion that
the grant of Draughtsman's certi-
ficates of the College of Eng. to
Strangers, on easier conditions
than those on which they are
granted to Students, is ~~certainly~~
open to various objections.
~~anomalous and that it will~~
that the plan ~~advanced~~ suggested
~~seriously affect the attendance~~ [illegible]
by the D.P.I. is preferable ~~[illegible]~~
~~at the College. If~~ as suggested
provided that the concession
~~by the D.P.I. a pass at the Govt~~
~~proposed~~ [illegible] is restricted to persons
~~Technical Examinations be made~~
who are, on the ~~in certain cases~~
~~a sufficient qualification for~~
date of this Order, in the public
~~employment in the P. W. D.~~,
service
~~material injury to the College~~
~~will be avoided and the~~
~~field of selection for draughts-~~
~~men will be widened. The~~
~~Standard at the Technical~~
~~Examinations may not correspond~~
~~to that of the College but it~~
~~can be made to correspond~~
~~as nearly as possible and the~~
~~attention of the Commissioner for~~
~~Govt Examinations will be drawn~~
~~to the point~~.

4. The Govt therefore resolves
to direct that persons now in
Govt Service who do not possess
Draughtsman's certificates of the
College of Engineering will be
eligible for appointment to
the Third-Grade of Draughtsmen
in the P.W.D. if they have obtained
certificates of qualification in the
necessary Engineering Subjects
at the Govt Technical Examns

5. As to the subjects of the Govt.
Technical Examinations in which
such persons should be required
to qualify and as to the Standard
(Preliminary, Intermediate or Advanced)
which they should be required to
attain, the D.P.I. and the C. E.
will be asked to advise after
consultation. ~~It will also be~~
~~suggested to the Comm~~
The Comr. for ~~(from orders)~~
Gnl. Examns. will also consider
whether it is necessary,
in view of this decision,
to revise the syllabus
of the Engineering
Technical Exams
so as to bring them into
closer accord with

To
The D.P.I.
.. P.W.D
.. Com. for Govt Exams.

26/3/96

the scheme of the College Exam^s.

(From orders)

26/3

27/3/95

28.3

See separate note –

PrS.2
3212/95

Draughtsman's certificates.

C.S.
R.S

(From orders)

To the Sec. to Govt. P.W.D.
for favour of counter-initials.

P.W.D

Note

I have counterinitialled this draft, because I do not wish to appear obstructive, but it appears to me that the position and my proposals, have both been misunderstood.

2. I never said anything about College certificates being obtained "by strangers on easier conditions than those on which they are granted to the students". What I proposed was that they should be obtainable on the same terms.

3. Government have evidently been misled by the system of marking in which a proportion (apparently two fifths) of the total is given for daily work during the term and only the

remainder (three fifths) for work at examinations. The former portion, it is obvious, cannot be tested in the case of an outsider, but it may reasonably be assumed that if the latter obtains an equal number of marks at an examination with a college student, he has done an equal amount of preliminary study. The term "marks", as distinguished from the "examination marks" are in fact only useful as a means of comparison of one college student with another, and should be left out of consideration altogether in comparing a College student with an outsider.

4. I should be glad if the subject could be reconsidered in the light of the above remarks

5. The order as drafted makes it practically impossible for any man
not

not a College student to obtain a proper certificate, for he can only obtain one by passing an examination 66 per cent higher than that demanded from a student, but it opens a sort of back door for appointment through an examination conducted by a body which is not yet organised and in subjects not yet settled. It will be many years before the Government Technical Examinations will command, in the opinion of the Chief and Superintending Engineers of the P.W.D (who are the appointing officers) the same confidence as is now placed in the examinations of the College of Engineering.

6. I can imagine nothing more fatal to the object of improving the Standard of excellence of the
draftsmen

That is - according to the present arrangements whereby an outsider must get $\frac{5}{6}$th of the max (600) to pass, while a student can pass on $\frac{1}{2}$ of the max (1000).

draftsmen of this department, than to allow them to choose between two separate doors of entry; they will always choose the wider one.

CHIEF SECRETARY
30 MAR. 1895
GOVERNMENT OF MADRAS

W

287

Resubm^d for Orders,

~~[illegible]~~

CWDS 29/3/95

PWE 1
3212/95

Draughtsmen's certificate

Col. Pennycuick's Note

?

Imm
Jy

For Orders

The C. E's further note is subm^d for orders.
Col. P. has spoken to me on the subject.
His line of argument is as follows:—

(1) the supply of men qualified for appt. as 3^rd grade Draughtsmen is insufficient at present & must be increased;

(2) but for the P. W. D., the College of Engineering would collapse & the interests of the former must override those of the latter;

(3) the general principle that the value of a course of training in an Educational institution is not ~~[illegible]~~ fully gauged by the results of an Exam held at the End thereof may be admitted, but this principle does not apply with much force where the training is of the elementary & technical character required by Draughtsmen;

(4) the 400 marks given for class-work should not really enter into the marking for the final Exam^on; that Exam is of a purely practical character & should fo ~~[illegible]~~ a compl

test of the candidates' skill, quite apart from work done from time to time during the course of study;

(5) the objection that the College Board of Examrs. should not be called on to test outsiders is merely theoretical;

(6) these facts being so, there is no valid objection to the admission of outsiders to the College Exam:, their max being put at 600;

(7) there is no board of Examrs. for the Govt. Technical Exams. in Engineering in existence yet & if one is organized & its Exams. prove easier than those conducted by the College Board, everyone will go in for them & the College will be injured at least as much as if the original proposal had been adopted.

This argument proceeds on the assumption that such orders as may be passed will not be restricted in their application to persons now in Govt. employ. The draft Order to which the I. C. E. objects is so restricted, but Col. P. thinks that such a restriction will deprive it of all practical effect. Col. P.'s views are, of course, entitled to the highest respect, ~~[illegible] their adoption would~~

There is a great deal of force in this

JG

but the interests of the College cannot be entirely subordinated to the immediate requirements of the P.W.D. It is necessary to exercise great caution lest changes should be made which would have the effect of destroying the Draughtsman Class at the College altogether & rendering the College, ~~Board~~ so far as regards Draughtsmen, a mere examining body. It is not, however, probable that this result would follow the adoption of Col. P.'s proposals, as there are few places besides the College where a candidate for a College Certificate could get the requisite training.

On the whole it would perhaps do no harm to try Col. P.'s proposals for, say, a couple of years. If it affected the College injuriously it could then be abolished.

On the other hand, is it a fact that the present outturn of Draughtsmen from the College is insufficient? Col. P. says it is but, if so, the Educ. Dept. receives singularly few applications from the P.W.D. for exemption from the rule that no person may be appointed a Draughtsman who does not possess a College Certificate. It will be noted, too, that Govt. raised the question now under consideration of its own motion (vide G.O. 23 May 94

No. 358, Ed) & not on a representation from the P.W.D. that the supply of Draughtsmen is inadequate.

If the supply is really sufficient there is no need to make any change at all & H.Ms may possibly consider to Expedient to defer passing any orders till the C.E. has supported by figures the statement in para. 4 of his note of the 8th Feb last that there is a dearth of men qualified for appt. as Draughtsmen. Twenty-one students of the College got Draughtsmen's Certifs. in Dec. 1893; are there twenty-one vacancies for draughtsmen annually in the P.W.D.?

2/4/95

7 Ap. 95.

P. W. CURRENT No. 3212

Draughtsmen Certificates

Yes – orders may be deferred for the present & the C.E. shd be asked to show how far the supply of qualified draughtsmen is insufficient

JG 6/4

W 7 Apr.

HM & H. E. the Gov

Read: 24.4.95
Ends 7

(For Orders)

C.S.

Ref. only No. 862 d/ 20.4.95

The Chief Engineer is requested to be so good as to Explain & support by figures the statement in para. 4 of his note of the 8th Feby last that there is a dearth of persons qualified for appt. as Draughtsmen in the P.W.D.?

19/4/95

A. Butterworth
Under Secy
9 Ap.

To the C.E. through the P.W.D. with all papers in original to be returned.

e 3/4 | e 6/4
D 6/4 | R 8/4

[G/9]
2,000—2-4-95.

Current No. 600

Edn'l DEPARTMENT.

From P. W. D

No. 140 D

Dated 10. 5. 95

Received 13/5

Enclosures Edl. nos 30 + 177 with connected papers.

SUBJECT.

Transfd with advertence to memo (Edn'l) No. 862 d/ 20.4.95 the original papers re: the issue of Draughtsmen's certificates to Govt servants in the event of their ful~~fil~~filling certain conditions.

Colly of Engg Rules -

986 = 22 - 12 - 94 ✓
887 = 22 11 94 ✓
753 = 5 10 94 ✓
462 = 23 6 94 ✓
443 44 = 16 6 94 [illegible] ✓
358 = 23 5 94 [illegible] ✓
284 = 25 4 [illegible]
45 = 25 1 93 [illegible]
32 = 20 1 93 [illegible]
890 = 5 12 93 ✓
876 - 17 7 93
406 = 19 6 93 ✓
330 = 16 5 93 ✓

D

Press
see paper 66

Note by the Chief Engineer P. W. Dept:—

6 heavy only ~~8~~

I am afraid it is impossible to give figures that would be of any value, as the materials don't exist.

2. It is a matter of personal experience; and my own experience, which I believe is the same as that of every officer in the Department is that there is no man so difficult to obtain as a good draftsman.

3. Within the last few weeks an Executive Engineer has had to apply to this office for assistance as he was unable to obtain a draftsman, and there is not a single qualified man of this class on our register of

applicants for employment.

(Sd.) John Pennycuick.
Colonel R.E.,
Chief Engineer P. W. D.

Ootacamund
May 9th 1895

Read 19.

Current No. 600.

No. 140 D. dated 10th May 1895

Transferred to the Educational Department with advertence to Memo. in that Department No. 862 dated 20th April 1895, the original papers connected with which are herewith returned.

Jno Pennycuick Colonel R.E.,
Secretary to Govt. P. W. Dept.

To,
The Educational dept.
with papers in orig. returned.

Recd. 13/5/95

CMM
3/5/95

E. 3196

[C.
25.]
600—8-3-95.

Ed. DEPARTMENT.

C. No. 600 of 95

FOR ORDERS.

Resubmitted for orders with reference to Mr. Butterworth's note under date 1st April.

The Chief Engineer expresses his inability to explain and support by figures the statement in para 4 of his note of the 8th February last that there is a dearth of persons qualified for appointment as draughtsmen in the P. W. D, but says that it is a matter of personal experience that there is no man so difficult to obtain as a "good"* draughtsman.

*-not a "certificated" man.

D
23. 5. 95

24/5/95

I think the C. E's proposals may be tried for a time say two years

J. G.
27/5

W
30 May

Draughtsmen's Certificate

H.M. & H.E. the Govr.

FOR ORDERS.

In G.O. 21/6/95
No 525 Edl

C 3327/5 C 47/5
R 27/5

[G. / 84.]
690/8-3-95.

Educational DEPARTMENT.

Papers to be read in proceedings:—

Again G.O., dated 5th Decr 1893, No. 890.
Again G.O., dated 23d May 1894, No. 358.
Current No. 30 of 1895, dated 11/1 from the D.P.I. —A.

Current No. 177 of 1895, dated 12/2 from the P.W.D. —A

Jk 19/5

ORDER.
P.S. d/21st June 1895 No. 525

In G.O. dated 5th December 1893, No. 890, Educational, the Govt. resolved to amend the rules of the College of Engineering so as to allow of the grant of modified first and second class draughtsman's Certificates to third and second grade draughtsmen in the P.W.D. but no provision was made for the grant of modified third class certificates because the intention was merely to enable ex-students of the College of Engineering to qualify for promotion by obtaining certificates of higher classes.

In G.O. dated 23rd May 1894, No. 358, Educational, however, the question was raised whether facilities should not be afforded to enable men who had never been at the College to obtain modified draughtsman's Certificates of all classes and the Director of Public Instruction and the Principal of the College were asked to report on the point.

2. The Principal and the D.P.I. are opposed to the grant of modified certificates to men who have never been at the College as they believe that it will seriously affect the prospects of the students of that institution. It is further pointed out by the D.P.I. that it is anomalous to grant College certificates to persons who have not gone through the prescribed course. The Chief Engineer combats this view and expresses the opinion that the dearth of draughtsman qualified for the work of the P.W.D. renders it expedient that every encouragement should be given to men desirous of qualifying themselves for employment. He therefore proposes that men who have not attended the College course should be permitted to appear for the same examination as regular students and should receive similar certificates provided that they pass an equally good examination.

3. This proposal necessitates an alteration in the College rules. At present the maximum number of marks obtainable is 1,000, of which 600 are awarded by the Board of Examiners, and 400 by the College staff for work done in the College. Students, who obtain 500 marks and a minimum of 36 per cent in each of the seven subjects, receive third class certificates; they are not required to obtain separate minima at the examination and can supplement deficiencies thereat by good work in their course at the College. This is an advantage of which outside students are necessarily deprived and in order, as the Chief Engineer desires, to place both classes of candidates on the same footing it is essential that separate minima should be prescribed for examination marks. Certificates would then be given to all candidates, whether outside men, or students in the College, who obtains the requisite minima at the examination. The necessity of retaining the system of giving marks for term work appears open to question, though it might be considered desirable to mark the superiority of a college student who had obtained high term marks by noting the fact on his certificate.

4. The Govt. is not prepared to agree entirely with the Chief Engineer bu has no objection to giving his plan a trial for two years. In order that this

may be done, the D.P.I. will now be requested to report how the examination marks should be distributed, what separate minima he considers should be adopted, and whether term marks should continue to be granted.

D
11.6.95.

15/6/95.

The D.P.I. (R.O.) 7
The P.W.D. (R.O.) 11
with G.O. 358/93

S 17.6
Drape
10/7

Draughtsman's Certificate

H.M.

The Secretary to Govt,
P.W.D. In [illegible]

C 154. 20/
R 20/6

rst copy sent to Press.

eturned for signature.

spatched in print.

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D AGAIN G.O., No. DATED
189

RRENT No.

NCLOSURES TO C. No.

RDER OF GOVERNMENT .. .. ..

LETTER OF GOVERNMENT.

STATEMENT WITH DITTO.

PAPERS NOT FILED UP, BEING MEANT FOR DESPATCH IN ORIGINAL.

N.B.—

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