

Government of Madras.

EDUCATIONAL DEPARTMENT.

Recd.

Enclosures

1910.

Regd.

Spare copies

G.O., No. 335, 11th June 1910.

College of Engineering, Madras.

Recording report on the working of the — during 1909 and forwarding a copy of the report
to the Under Secretary of State for India.

Government of Madras.

EDUCATIONAL DEPARTMENT.

2

Recd.

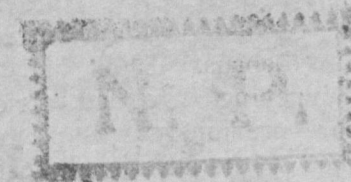
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GOVERNMENT OF MADRAS.
EDUCATIONAL DEPARTMENT.

READ—the following paper:—

Letter—from the Hon'ble Mr. A. G. BOURNE, D.Sc., F.R.S., C.I.E., Director of Public Instruction, Madras:
To—the Secretary to Government, Educational Department.
Dated—the 12th May 1910.
No.—Cur. 3266.

I have the honour to submit herewith a copy of my Proceedings, Dis. No. 3011, dated 9th May 1910, reviewing the report on the working of the College of Engineering for the year 1909.

ENCLOSURE.

*Proceedings of the Director of Public Instruction, Dis. No. 3011,
dated 9th May 1910.*

Read—the following paper:—

Letter—from W. H. JAMES, Esq., B.Sc., Principal, College of Engineering, Madras.
To—the Director of Public Instruction, Madras.
Dated—the 9th April 1910.
No.—50-C.

I have the honour to submit the administration report of the College of Engineering for the year ending 31st December 1909.

2. *Staff*.—I proceeded on furlough for eight months in continuation of the last vacation and in regard to matters dealt with in this report my personal knowledge only covers the affairs of the College for the first few months of the year. Mr. F. E. Morgan, Public Works Department, acted as Principal during my absence.

I regret to have to record that M.R.Ry. C. V. Narayanaswami Aiyar, Assistant Instructor in Surveying and acting Second Assistant Instructor in Civil Engineering, died of enteric fever on the 26th of February 1909. M.R.Ry. Pranatartihara Aiyar, Second Assistant Instructor in Surveying, who had carried out the actual duties of the First Assistant for some years previously, was promoted to that appointment permanently and his place was taken by the additional Instructor M.R.Ry. Venkatesa Aiyar.

M.R.Ry. Rama Aiyangar, Second Assistant in Drawing and acting Assistant Instructor in Mathematics, left the College on the afternoon of 31st March 1909 on being appointed Sub-Assistant Inspector of Schools, Karúr, and was replaced on 31st March by M.R.Ry. Krishnaswami Aiyar.

M.R.Ry. R. Tirumurti Rao joined the College on 2nd April as sub. *pro tem.* Vernacular Assistant and acting Assistant in Science, *vice* M.R.Ry. P. K. Anantanarayana Aiyar transferred to the Presidency College.

Pending the orders of Government on proposals submitted in March for strengthening the subordinate staff of the College, three Upper Subordinates, viz., Mr. E. J. Jordan, M.R.Ry. B. Lakshminarayana Rao and M.R.Ry. V. S. Swaminatha Aiyar, were deputed from the Public Works Department to assist in carrying on the work of the College and they joined for duty in October.

M.R.Ry. S. Subrahmanya Aiyar, Assistant Instructor in Drawing and acting First Assistant Instructor in Mechanical Engineering, availed himself of three months' privilege leave with effect from 13th September 1909, and the Accountant M.R.Ry. Raman, a similar period from 14th December 1909.

In the arrangements made to carry on the duties of the latter C. Somasundara Mudali was transferred from the office of the Inspector of Schools, Sixth Circle, to act as first assistant clerk.

3. *Numbers*.—The numbers on the rolls at the end of the year were—

Class.	Practical course.	In College.			Total.
		Third year.	Second year.	First year.	
Engineer	17 *	19	15	21	72
Engineer Subordinate	35 †				35
Upper Subordinate		16	27	24 ‡	67
Lower Subordinate		20	32	39	91
Total ..	52	55	74	84	266

* Includes one independent student from year 1906.

† Do. nine do. students from previous years.

‡ Do. five military students.

Excluding the students on practical course the total number actually attending College on the 31st of December 1909 was 213. The corresponding totals for the previous four years were—

Year.	Number.
1908	256
1907	315
1906	292
1905	293

The decrease in the total is due to the reduced number of admissions in the last few years consequent on the raising of the standard of general education for entry into the College.

The distribution of the students by classes of the community, districts, wealth and occupation of parents is given in appendices A, B and C.

It will be noted that of the total number 76.5 per cent. were Brahmans, 8.9 per cent. non-Brahman caste Hindus, 4.6 per cent. Native Christians, 8.9 per cent. Europeans and Eurasians and 1 per cent. Muhammadans.

The percentage of Brahmans has slightly risen as compared with last year—from 75 to 76.5 per cent.—whilst for the other classes the percentages are smaller with the exception of that for Europeans and Eurasians which has risen from 5.8 to 8.9 per cent.

In regard to districts Tanjore was represented by the greatest percentage, 25.3; followed by Coimbatore, 7.1; Tinnevely, 6.1; Trichinopoly, 5.0; Gódvári and Malabar, each 4.6; Madura and Travancore, each 4.2; Mysore, 3.0; Guntúr, Chingleput and Cochin, each 2.3; and last Vizagapatam and Madras, each 1.8.

4. *Admission of students*.—The selected candidates were admitted on 15th July, the first day of the session. Out of the eighteen qualified applicants registered for admission to the Engineer class sixteen joined the College. As the number did not reach the maximum permissible, three candidates over the age limit and two casual students were taken under the usual special conditions.

For the Upper Subordinate class there were fifteen qualified applicants and of these eleven joined the class. The number in this case also being short of the maximum, sanction was obtained for the admission of two candidates over the age limit and the transfer of one student from the junior division of the Lower Subordinate class.

Out of the 58 qualified applicants registered for the Lower Subordinate class only 36 joined the College, and in view of this fact four qualified candidates who applied for admission subsequent to the formation of the class and one not possessing the requisite certificates, but found on examination to be up to the required standard, were admitted under special sanction. There was a considerable drop, as compared with the previous year in the number of applications for admission to the Upper Subordinate class and the Lower Subordinate class was formed considerably below the maximum in number.

I can only suggest that this may be due to the comparatively small numbers passing the University examinations, and to guard against a possible shortage in a few years of qualified men for the public service I have applied for permission to admit students who have completed the qualifying courses and have only failed in subjects which are not of the first importance for technical work.

5. *Examinations.*—Sessional examinations conducted by the staff were held in April last—

Engineer class.—The sixteen students forming the junior division of this class appeared for the examination and all passed gaining 60.3 per cent. of the total marks.

Upper Subordinate class.—The intermediate division consisted of 18 students and all but two passed. Of these two failed students one left the college and the other under our new rules continues in the class for another year. The average percentage of marks obtained was 59.6. In the junior division there were 26 students exclusive of a military student absent on sick leave, and all passed the examination with a percentage of 67.2.

Lower Subordinate class.—In the intermediate division of this class all but one passed the examination, the 21 students gaining an average of 62.4 per cent. of the marks. The failed student did not return to college. The 32 students in the junior division all passed the examination with an average of 65.3 per cent. of the marks.

An examination was held in December for the senior division of the Engineer class, the only class remaining in the college under the old rules.

The 19 students forming the class all appeared for the examination but only 10 passed. There were special personal circumstances to account for this in the case of one student and in regard to the other eight I am inclined to think they were adversely affected by the changes taking place under the new rules in the method of examination and the re-arrangement of the class syllabuses. The consensus of opinion however among the members of the staff is that the class was much below the average in ability and this is borne witness to by the low marks obtained in their previous years. The average percentage of marks gained in the examination was 65.6.

Particulars of the percentages gained in the several branches in all the examinations are given in Appendix D.

6. *Honours and distinctions.*—The college gold medal for the student who stands first in the final examination of the Engineer class was gained by S. Krishnaswami Aiyar. As there were no senior divisions of the other classes, the silver and bronze medals were not awarded.

The DeWinton gold medal for Hydraulic Engineering went to H. Venkataramanaiya of the Engineer class on the results of the examinations of 1908.

No award was made of the Harris medal.

7. *University examinations.*—In the administration reports of previous years reference has been made to the results of the University examinations of the January following the end of the year, but as the month for holding the examination has now been changed to April there is nothing to note in this connection.

8. *New prizes.*—During the year under report the Colonel Love prizes were founded to commemorate the services rendered to the cause of Engineering education in this Presidency by Colonel H. D. Love, R.E., who was Principal of the College for about 28 years.

One prize is allotted to each class:—

For the Engineer class to the student of the senior division who obtained the highest number of marks in Applied Mechanics; for the Upper Subordinate class to the student of the senior division who stands first in Hydraulic Engineering; for the Lower Subordinate class to the student who takes the first place at the final examination.

9. *Practical courses.*—Seventeen Engineer and 34 Engineer Subordinates were under practical training from February 1909.

Seven of the Engineer students, including the senior student, who elected to become a mechanical engineer, attended workshop courses—three in the Public Works Department Workshops, Madras, one each in the Public Works Department Workshops at Dowlaiswaram and Bezwada, two in the Madras Railway Workshops, Perambur, and one joined the Divi Pumping Sub-division.

Nine Engineer students who desired to become Civil Engineers were posted to Public Works divisions. The progress made by one of the Civil Engineer students of the previous year not being regarded as satisfactory his course was extended by three months. The practical course of a failed student of the year 1907 who had come up for examination and passed in the following year was also extended by three months on account of unsatisfactory progress. Six of the Engineer students who had failed in the examination in practical surveying attended the survey camp of July 1909 for about two weeks and their practical courses were extended by a corresponding period.

The Engineer Subordinate students were as usual distributed among the Public Works divisions for training and the courses of three of the students were extended for having taken excessive leave.

The students of both the above classes attended the Body Guard school in order to qualify in riding.

10. *Military students.*—The number of military students at the close of the year was:—

Practical course	...	...	...	...	...	...	...	1
Upper subordinate class, senior division	...	...	...	...	...	...	...	3
" intermediate	...	...	...	...	...	...	...	4
" junior	...	...	...	...	...	...	...	6
Probationers	...	...	...	...	...	...	...	5
Total								19

The difficulty, referred to in my report of last year, of finding accommodation for the incoming probationary students was overcome by utilizing two of the rooms on the ground floor of the college, but this is most unsatisfactory even as a temporary measure and it is very inconvenient in regard to their messing arrangements.

In view of the contingency that there may this year be a still further increase in the number of students, I am now making inquiries as to where it may be possible to find accommodation and I hope to submit proposals at an early date.

11. *Inspections.*—The senior and intermediate (mechanical) divisions of the Engineer class accompanied by the Professor of Mechanical Engineering made in October a five days' tour of the Kolar Gold Fields and were fortunate in having every facility afforded them by the mining authorities for the inspection of the surface plant and works.

At the same time the civil branch of the intermediate division of the Engineer class, the senior and intermediate divisions of the Upper Subordinate class, and the senior division of the Lower Subordinate class proceeded to Samalkotta for a ten days' tour of inspection of the irrigation works in the Gódavari and Kistna deltas. From Samalkotta they went by way of Cocanada to Dowlaiswaram; thence by Tadipallegudem, Gundugal, Perekudu to Bezwada, and from the latter place a visit was paid to the pumping installation at Divi. The party was under the charge of the Professor of Civil Engineering, who was assisted by the Instructor in Civil Engineering and two assistant instructors.

The junior division of the Engineer class and the intermediate division of the lower subordinate class made a tour of inspection of irrigation works in the Cauvery delta. After a day at Elamanur for the inspection of the upper anicut they proceeded to the Grand Anicut and from there to the Coriyar Head Works. They also availed themselves of the kind permission of Mr. W. D. Reynolds, the Loco and Carriage Superintendent, South Indian Railway, to visit the Negapatam Railway Workshops. This party was accompanied by the Instructor in mechanical engineering and the assistant instructor.

The Instructor in Surveying conducted another party consisting of the junior divisions of the upper subordinate and lower subordinate classes and the military probationers over the irrigation works connected with the Pálár anicut system in North Arcot. In addition, local works such as the harbour works, Buckingham Mills, South Indian Industrial Cement Works, etc., were visited by kind permission of the authorities concerned during the course of the year.

The aggregate cost of these tours was Rs. 1,869-11-3.

12. *Workshops and laboratories.*—The progress made by the students in the workshop was on the whole satisfactory considering the small amount of time available for the purpose. Work on the machine tools was however somewhat hindered owing to the necessity for thoroughly overhauling the oil-engine and placing it in repair.

With the exception of a small screw-cutting lathe the additions to the workshop equipment were practically all in connection with the electrical appliances. The three kilowatt generator and battery of accumulator cells referred to in last year's report were erected and put in operation. A suitable switch board for the control of the plant was made in the workshop and is designed so that current can be transmitted direct from the generator at 230 volts or from the battery at 110 volts. Overhead conductors are carried from the workshop to the main College buildings and connection by cables made to the distribution boards in the electrical laboratory. Arrangements have also been made to supply current to a few of the principal lecture rooms for demonstration and lantern purposes. Although the electrical plant we now possess and the additions we hope to procure this year will form a nucleus for the laboratory it can only be regarded as a make-shift arrangement and we are in need of much more apparatus before a regular course can be laid down for the students.

In regard to testing work the investigation dealing with the strength and elastic properties of South Indian timbers was not completed last year and it is now being taken up again.

13. *Survey camps.*—A camp was formed at Pallávaram for the senior division of the Engineer class under the old rules, beginning on July 15th and ending on August 7th, 1909. It was under the control of the Professor of Civil Engineering assisted by the Instructor in Surveying. Six students under practical training also attended for further practice in surveying. The work consisted almost entirely of theodolite surveying and on the whole was satisfactory. The attendance and conduct of the students were good. The cost of this camp was Rs. 287-2-9.

Under the new rules a camp for all the classes was held from January 3rd to 29th, 1910, at Poonamallee, Vandalur and Pallávaram successively. The Professor of Civil Engineering was in charge and he was assisted by all the other members of the College staff available. The work done was very similar in character to that of previous years though some new features were introduced. One of these latter was the carrying out of a series of experiments on a well near Pallávaram in order to determine the yield and to gain some information regarding the flow of water underground.

A portion of the barracks at Poonamallee was by kind permission of the Commandant occupied as a drawing office, while at Pallávaram bungalows were hired for that purpose. At Vandalur no office was required as field work was carried on both morning and afternoon.

Profiting by previous experience it was decided to hold the examinations for ex-students after the ordinary camp work was completed. The behaviour of the students in general was good, there being but one or two exceptions.

The cost of this camp at which 189 students and 15 ex-students were present was Rs. 2,889-14-9.

14. *Recreation Club.*—Mr. C. L. Cartwright, Professor of Mechanical Engineering, who kindly carried out the duties of Honorary Secretary of the club reports as follows:—

"In the inter-collegiate sports our representatives did not distinguish themselves quite so much as they did last year. The special prize for gymnastics

presented by the Hon'ble Mr. Murray Hammick was gained by Vittal Rao and the first prize in the mile bicycle race by Corporal Bishop. In six other events our representatives gained second prizes with the result that the college came second to the Medical for the Travancore Athletic Shield.

"In the interclass matches the intermediate division of the Upper Subordinates won both the hockey and football cups and the cricket cup went to the senior Lower Subordinate class.

"We sent as usual two representatives to compete in the open mile flat race at the Medical College sports and they secured first and second places.

"The club is at present somewhat handicapped for want of funds owing to the alteration in the classes causing a temporary reduction in the number of students attending the college.

"I have received much valuable assistance from other members of the staff in connection with the work of the club and wish especially to acknowledge the services of Mr. Old and M.R.Ry. Subrahmanya Aiyar, who have given up much of their time in the interests of the students."

15. *Library.*—The work of re-arranging the books and the preparation of a new catalogue has now been completed, and the revised catalogue will shortly be available for general use. During the year 132 new books were added to the library and the total now amounts to 4,940 volumes. The numbers of books issued to students and staff were 1,271 and 696 respectively as compared with 1,370 and 706 in the previous year, and 188 references were made to books in the Reference Library. The slight fall in the figures for the year under report is due to the fact that no books were issued to students during the vacation of 1909.

16. *Attendance and conduct.*—The percentage of numbers present to number on the rolls of the college was 96.2 against 94.2 in the previous year. Particulars for the several classes are given in Appendix E. The conduct of students during the year was satisfactory.

17. *Employment of passed students of 1908.*—Of the sixteen Engineer students who completed their practical training early in 1909, the senior P. V. George was appointed Assistant Engineer in the Provincial service of the Public Works Department and twelve students obtained the following appointments:—

Temporary Upper subordinates, Madras Public Works Department ...	10
Assistant Engineer, His Highness the Nizam's Public Works Department ...	1
Local Fund Assistant Engineer ...	1

The remaining three students have furnished no information. One student proceeded to England soon after commencing his practical course in order to take up the study of mining and metallurgy.

Engineer Subordinates.—Thirty-four Engineer Subordinates completed their practical courses early in 1909. The senior T. Keshava Rao was appointed a permanent Upper Subordinate, third grade, in the Public Works Department, and twenty-five students secured employment as under—

Temporary Upper Subordinate, Public Works Department, Madras ...	12
Superintendent, Board Technical Institute, Tinnevely ...	1
Local Fund Overseer ...	3
Sub-Overseer, first grade ...	1
Surveyors ...	5
Temporary Draftsman ...	2
Minor Irrigation Sub-Overseer ...	1
Total ...	25

No information is available regarding the remaining students.

Sub-Overseers and Surveyors.—Twenty-four students obtained certificates as sub-overseers and surveyors. Of these twenty secured employment:—

Sub-Overseer, third grade	1
Local Fund Overseer	1
Do. Sub-Overseer	2
Public Works Department Surveyors	8
Overseer-Draftsman, District Board, Guntūr	1
Regulator Superintendent, Public Works Department	1
Temporary Sub-Overseer	1
Sub-Overseer, Tank Restoration Scheme	1
Lower Subordinate, Madras and Southern Mahratta Railway	1
Temporary Sub-Overseer, Military Works Service	1
Channel Overseer	1
Minor Irrigation Overseer	1

Total ... 20

The remaining students have furnished no information.

Draftsman.—Of the thirty-five students who passed out in December 1908, twenty-six obtained the following employment:—

Draftsman, Public Works Department, Madras	16
Do. District Boards	2
Do. Sanitary Commissioner's office	1
Do. Madras and Southern Mahratta Railway	2
Do. South Indian Railway	1
Do. Messrs. Oakes & Co. (Bee Hive Foundry)	1
Tracers, Public Works Department	3

Total ... 26

The remaining students have failed to furnish information.

Particulars of the vacancies notified during the year are given in Appendix F.

18. *Financial details.*—Information in this connection is given in Appendix G. It will be noted that the receipts of the College amounted to Rs. 17,649-3-10, the charges to Rs. 97,181-8-8 and the net cost of the institution therefore to Government was Rs. 79,532-4-10. The average number of students on the rolls was 204 giving a net cost per student of Rs. 389-13-10. This increase as compared with last year is due to the reduced number of students in some of the classes. Full financial details for the official year 1908-1909 were submitted with the annual returns.

An abstract of receipts and charges for the last five calendar years is given in Appendix H.

19. *General.*—In conclusion I desire to acknowledge the loyal co-operation on the part of all members of the staff in carrying on the work of the College during the time I was in charge.

APPENDIX A.

DISTRIBUTION of students according to classes of community on the 31st December 1909.

Classes.	Europeans and Eurasians.	Native Christians.	Muhammadians.	Hindus.			Total.
				Brahmans.	Non-Brahman caste Hindus.	Panchamas.	
Engineer classes	1	5	..	47	2	..	55
Upper Subordinate classes	18	2	..	45	2	..	67
Lower Subordinate classes	..	3	2	71	15	..	91
Total	19	10	2	163	19	..	213

* Includes five Military probationers.

APPENDIX B.

DISTRIBUTION of students by districts on the 31st December 1909.

Districts.	Engineer classes.	Upper Subordinate classes.	Lower Subordinate classes.	Total.
Ganjām	..	1	..	1
Vizagapatam	..	1	3	4
Godāvari	5	2	3	10
Kistna	1	..	11	12
Guntūr	2	..	3	5
Bellary	..	..	..	..
Kurnool	..	..	1	1
Nellore	2	..	1	3
Madras	..	..	4	4
Chingleput	2	..	3	5
Cuddapah	..	..	..	..
North Arcot	1	..	2	3
South Arcot	1	2	1	4
Tanjore	16	18	20	54
Trichinopoly	..	4	7	11
Madura	3	2	4	9
Tinnevely	2	4	8	14
Coimbatore	2	6	8	16
Nilgiris	..	..	..	..
Salem	..	1	1	2
Malabar	3	2	5	10
South Canara	..	2	2	4
Pudukkottai	..	1	..	1
Cochin	1	1	3	5
Travancore	5	2	2	9
Mysore	7	..	..	7
Pondicherry	..	..	..	..
Hyderabad (Deccan)	1	..	..	1
Military students	..	13	..	13
Do. probationers	..	5	..	5
Penang	1	..	..	1
Total	55	67	91	213

APPENDIX C.

DISTRIBUTION of students by wealth and occupation of parents on the 31st December 1909.

Classes in the College.	Wealth.				Occupation.						
	Richer class.	Middle class.	Poorer class.	Total.	Officials.	Petty officers.	Traders.	Land-holders.	Artisans.	Mendicants.	Others.
Engineer class—											
Third year	..	17	2	19	10	..	..	9	..	..	19
Second year	..	15	..	15	9	..	5	1	..	..	15
First year	..	19	..	21	15	..	..	6	..	..	21
Upper Subordinate class—											
Third year	..	16	..	16	11	..	1	4	..	..	16
Second year	..	25	2	27	15	..	1	10	..	..	27
First year	..	17	2	19	11	..	..	8	..	..	19
Lower Subordinate class—											
Third year	..	20	..	20	9	..	..	11	..	..	29
Second year	..	30	2	32	14	1	1	16	..	..	32
First year	..	30	8	39	17	2	1	17	..	2	39
Military Probationers	..	5	..	5	5	..	..	..	..	..	5
Total	3	194	16	213	116	3	9	82	..	..	213

APPENDIX D.

RESULTS OF EXAMINATION OF APRIL 1909.

Engineer class (Junior division) of 1908-1909.

	Per cent.
Branch I—Mathematics and science	58.8
Branch II—Engineering	64.4
Physical exercises	66.3
Average	60.3

Upper Subordinate class (Intermediate division) of 1908-1909.

	Per cent.
Branch I—Mathematics	55.9
Branch II—Engineering	60.1
Physical exercises	72.3
Average	59.6

Upper Subordinate class (Junior division) of 1908-1909.

Branch I—Mathematics	70.5
Branch II—Engineering	65.6
Physical exercises	64.3
Average	67.2

Lower Subordinate class (Intermediate division) of 1908-1909.

Drawing	63.7
Applied mechanics	47.0
Construction	64.5
Surveying	60.5
Workshop practice	62.1
Physical exercises	64.0
Average	62.4

Lower Subordinate class (Junior division) of 1908-1909.

Drawing	70.0
Surveying	57.7
Workshop practice	66.6
Physical exercises	63.4
Average	65.3

Engineer Class, First Division.

Mathematics	53.5
Science	49.7
Engineering	47.8
Drawing	53.1
Surveying	56.3
Gymnastics	51.6
Average	65.6

APPENDIX E.

		Average number on rolls.	Average daily attendance.
Engineer class	Third year	19.6	18.9
	Second year	15.3	14.7
	First year	19.0	18.6
Upper Subordinate class.	Third year	16.0	15.8
	Second year	23.5	22.9
	First year	21.9	20.8
Lower Subordinate class.	Third year	20.0	18.9
	Second year	27.6	25.8
	First year	36.3	35.2
Military probationers' class		5.0	4.9
Total		212	196.5
Percentage of numbers present to number on rolls		96.2	

APPENDIX F.

CLASSIFICATION of vacancies notified during the year 1909.

				Government.				Local Board and Municipality.				Railways.		Native States.		Private employers.					
				Above Rs. 200.	Rs. 100 to 200.	Rs. 50 to 100.	Under Rs. 50.	Above Rs. 200.	Rs. 100 to 200.	Rs. 50 to 100.	Under Rs. 50.	Above Rs. 200.	Rs. 100 to 200.	Rs. 50 to 100.	Under Rs. 50.	Above Rs. 200.	Rs. 100 to 200.	Rs. 50 to 100.	Under Rs. 50.	Total.	
Engineer or Assistant				1	..	..	..	3	..	..	..	..	..	..	..	1	1	..	..	..	6
Supervisor				..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	2
Overseer				..	1	3	1	..	2	3	..	..	..	..	..	..	2	1	..	13	
Sub-overseers				..	..	5	10	..	..	1	1	..	..	..	..	..	1	..	..	18	
Draftsman				..	..	3	32	..	..	4	..	..	..	1	..	..	..	..	1	42	
Surveyor				..	1	22	3	..	..	2	..	..	..	..	..	..	1	..	..	29	
Ancient or Conservancy Superintendent.				..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	2	
Total				1	3	34	48	3	2	5	7	..	..	1	1	1	2	3	..	1	112

APPENDIX G.

FINANCIAL details for 1909.

	RS.	A.	P.
Receipts—			
Tuition fees	16,539	6	0
Entrance and Final Examination fees	368	0	0
Miscellaneous Receipts	741	13	10
Total	17,649	3	10
Charges—			
Principal	9,314	8	3
Professors, masters and teachers	51,825	14	1
Clerks, librarian and servants	6,430	0	11
Board of Examiners	3,934	8	0
Library, prizes and medals	468	9	8
Books and instruments	89	6	6
Other Europe stores	357	5	9
Other heads of Contingent charges	17,492	5	0
Travelling Allowances	2,854	14	4
Scholarships	3,736	15	2
Exchange Compensation Allowance	677	1	0
Total	97,181	8	8
Net cost to Government	79,532	4	10
Average number of students on rolls	204		
Net cost per student	389	13	10
Average tuition fees paid per student per annum	81	1	2

APPENDIX H.

COMPARATIVE Financial details.

	1909.	1908.	1907.	1906.	1905.
Receipts	RS. 17,649	RS. 19,830	RS. 23,999	RS. 31,020	RS. 30,920
Charges	97,182	1,04,359	1,10,495	1,14,085	98,871
Net cost to management	79,532	84,530	86,496	83,065	67,450
Average number of students	204	253	313	295	294
Net cost per student	390	334	276	282	229

Read also the telephonic message, from the same officer, dated 21st April 1910.

Proceedings, Dis. No. 3011 of 1910.

Recorded.

2. The further decline in the strength of the college is noted. The Principal's proposal to admit under certain conditions unqualified candidates into the several classes in view to meet the requirements of the public service has been dealt with separately.

3. Except at the examination held under the old rules in December last for the Senior Division of the Engineer class in which ten students passed out of nineteen who appeared, the results of the other examinations were on the whole satisfactory. The nine students who have failed have been permitted by Government as a special case either to sit for the Final examination for Upper Subordinates held in April 1910 or to join the Senior division of the Engineer class in July next.

4. The remarks made in paragraph 12 regarding workshops and laboratories are noted.

5. In paragraph 18 of the report it is stated that the charges of the college amounted to Rs. 97,181-8-8 during the year, but they work up to Rs. 96,299-2-0 only according to the verified statements furnished by the Principal. The discrepancy needs to be explained.

6. The efficient administration of the college during the year was creditable to the Principal, the Professors and the staff.

A. G. BOURNE,
Director of Public Instruction.

To the Principal, College of Engineering, with a spare copy.
,, Principals of other Government Colleges.
,, Inspectors of Schools.
,, the Superintendent, School of Arts.
Copy to the Chief Engineer, Public Works Department.
,, Government (with C.L.).

Order—No. 335, Educational, dated 11th June 1910.

Recorded.

(True Extract.)

L. M. WINCH,
Ag. Secretary to Government.

To the Director of Public Instruction.
,, Public Works Department.
Editors' Table.

OOTACAMUND.

EDUCATIONAL (1910) DEPARTMENT.

(Copy.)

LETTER to the Under Secretary of State for India.

No. 336, dated 11th June 1910.

FORWARDING copy of the report on the working of the College of Engineering, Madras, during the year 1909.

EDUCATIONAL DEPARTMENT.

LETTER—to

THE UNDER SECRETARY OF STATE FOR INDIA.

SIR,

With reference to the instructions conveyed in Lord Hartington's Despatch No. 9, Public Works, dated 18th May 1882, I am directed to forward a copy of the Proceedings of the Madras Government recording the report on the working of the College of Engineering, Madras, during the year 1909.

I have the honour to be,

Sir,

Your most obedient servant,

L. M. WYNCH,
Ag. Secretary to Government.

OOTACAMUND,
11th June 1910.

EDUCATIONAL DEPARTMENT.

NOTES CONNECTED WITH G.O., Nos. 335, 336, EDUCATIONAL,
DATED 11TH JUNE 1910.

[SUBJECT.—*Report on the working of the College of Engineering during the year 1909.*

From the Director of Public Instruction, dated 12th May 1910, No. 3266.

The report appears to be satisfactory and calls for no remarks. It may be recorded and a copy thereof may be forwarded to the Secretary of State as usual.

2. Drafts submitted for approval.

T.K.—24-5-10.

K RANGASWAMI AIYANGAR—25-5-10.

For perusal.

S. H. SLATER—26-5-10.

Approved.

L. M. WYNCH—27-5-10.

Issue.

M. H[AMMIOK]—30-5-10.

L. M. WYNCH—31-5-10

[G.O., Nos. 335, 336, Educational, dated 11th June 1910.]

Educational DEPARTMENT.

READ AGAIN G.O., No., dated 190 .

” ” ” ” ” ” 190 .

READ ALSO:—

C. No. 974, From the D.P.I, No. 3266, dated 12-5-1940.

” ” ” ” ” ” ” 190 .

[illegible]

ORDER.

P. S.

No. 335, dated 11. 6. 1960.

To be placed on E.T.

Recorded.

7.H.
24-5-10

25.5.10

Sun
26/5

To
The D.P.I.
- P. W. O.
E. Y.

1876/10

Letter to No. 336911. 6. 10

The Under Secy. of State for India.

Scu,

With ref to the instructions conveyed in

Lord Hartington's Despatch No. 9, Public Works,
dated 18th May 1882, I am directed to forward
a copy of the Pro. of the Madras Govt. recording
the report on the working of the Coll. of Eng., during
the year 1909.

7.7
24.5-10

$$\frac{25.50}{25.50}$$

5m 26/5

Link 27.5.60

G.O. no. 101 Ed
21-6-82

2896110

S. C. 1000000
3/16/10

ORDINARY.

PRESS SLIP.

PREFERENCE.

EDUCATIONAL
LEGISLATIVE DEPARTMENT.

URGENT

INSTRUCTIONS FOR THE
SECRETARIAT.

(a) If a paper is marked to be printed urgently, the Superintendent of the section concerned should sign the Press slip. The Superintendent should exercise a careful discretion in the matter.

(b) Each letter, memorandum, or order, or set of orders, in the file of correspondence should be headed in succession with the Roman numeral I, II, III, etc., the number being written in red ink in blue chalk above the item. The particular papers to be printed in the special issue-copies should be indicated by the Roman numeral (I, II, etc.) by which that item has been headed in the correspondence file. All matter, including marginal remarks or references, to be printed should be written in ink and matter which should not be printed should be encircled. Initials and signatures that are not quite legible should be re-written distinctly.

(b¹) For rules regarding printing of notes, see the rules in G.O., No. 1220, Public, dated 30th November 1900.

(c) The number of copies and the details of distribution should be filled in by the Superintendent or Referencer concerned.

(d) In the absence of special instructions to the Press to keep matter standing for a specified period, ordinary papers of 8 pages and under will be kept standing for one week, and larger papers for two weeks only. The type of notes and of all confidential papers is distributed immediately after striking.

(e) This slip, properly and completely filled in, should accompany every paper sent to Press; it will be returned by the Press when proofs are furnished; it should be sent to the Press when a call is made for revised proofs or when a corrected proof is sent for striking. When finally returned by Press it should be filed with the original order or letter.

INSTRUCTIONS FOR THE PRESS.

(a) If, in the opinion of the Superintendent of the Press, a paper has been marked urgent unnecessarily, he should send the Press slip to the Deputy Registrar with a remark to that effect.

(b) Unless a note to the contrary is made against the matter, pencil entries should not be printed. The Superintendent of the Press may bring to the notice of the Deputy Registrar any instance of incomplete or careless editing.

(c) Signature copies of letters to the Secretary of State or to the Government of India should be printed on hand-made paper.

(d) This slip should be returned by the Press to the Secretariat when proofs are furnished; it will be sent back to the Press when proofs are returned corrected and should be finally returned to the Secretariat when struck-off copies are supplied.

(e) The names of the Secretary and Members should be printed in full when they occur on the right hand side, but only the first time when they appear on the left side, the initials alone being printed later.

Current No....., dated.....19

G.O., No. 335, dated 11-6-1910.

Letter 336 of 11-6-10.

Number of MS. pages sent { Correspondence including order or orders

{ Notes

Docket: College of Engineering Madras

Recording report on the working of

the during 1909 and forwarding

a copy of the report to the Under

Secretary of State for India.

Number of copies required when struck off (not including copies for volumes and editors' table which are retained in the Press).

Complete correspondence and orders.

Notes

FOR RECORD.*

Madras Records ... 30

Ooty Records ... 3

For filing with original ... 1

Total ... 34

FOR ISSUE.†

Letter only.

Complete G.O.

Special issue copies of G.O.

No. Papers.

Notes.

Signature copies.....

India Office.....

Govt. of India.....Dept.

Public Department.....

Judicial Department.....

Financial Department.....

Revenue Department.....

Public Works Department.....

Local and Municipal Department.....

Dept.

Total ...

The Director of Public Instruction.....

The Comr. for Govt. Examinations.....

The Superintendent, Govt. Museum.....

The Surgeon-General.....

The Accountant-General.....

The Collector of.....

The P. D. B.....

The

The

The

The

The

Total ...

* Copies distributed on.....*(Press Clerk.)

† Copies distributed on.....*(Despatcher.)

TO PRESS, MADRAS.
OCTY.

A

B

C

Please send proof in triplicate. The papers have been carefully edited.

Proof returned corrected. Please strike off and send number of copies as indicated.

As the matter is clear manuscript and has been carefully edited, (b) proof need not be sent. Please print and supply number of copies as indicated.

Type may be released after usual interval.
at once.

Type may be released after usual interval.

.....Clerk.

.....Clerk.

.....Clerk.

.....Supdt.

.....Supdt.

.....Supdt.

(b) Three copies of proof of all notes should be sent for approval, except when instructions are given to the contrary.

SPECIAL INSTRUCTIONS.

TO BE FILLED IN BY THE PRESS.

Diary.	Initials of Press official.
Received in Press on.....	2/10/10
First proof furnished on.....	27/10/10
Call for revised proof received on.....	
Revised proof furnished on.....	
Corrected proof received for striking on.....	13/11/10
Final copies supplied on.....	18/11/10

Account of copies.	Complete copies.	Notes.	Issue copies.
Supplied to Secretariat for Record.....	34	19	
" " " Issue.....			
For Volumes.....	16		
For E.T.....			
Total ...	50	19	