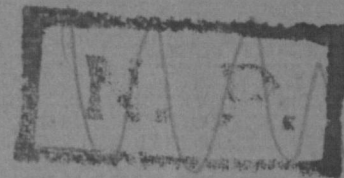


Educational (1904) Department.

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[Despatch Abstract.]

College of Engineering, Madras

Recording the report on the working of the
during 1903.

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G.O., &c., Nos. 323, 324, 31st May 1904.

N. P.

MAY.

College of Engineering, Madras.

Recording the report on the working of the — during 1903.

GOVERNMENT OF MADRAS.

EDUCATIONAL DEPARTMENT.

READ—the following paper :—

From the Hon'ble Mr. A. G. BOURNE, D.Sc., F.R.S., Director of Public Instruction, to the Secretary to Government, Educational department, dated Madras, 14th May 1904, C. No. 4383.

I have the honour to submit, for the information of Government, a copy of my Proceedings, Dis. No. 2449, dated 9th May 1904, reviewing the report on the working of the College of Engineering, Madras, during 1903.

ENCLOSURE.

PROCEEDINGS OF THE DIRECTOR OF PUBLIC INSTRUCTION, Dis. No. 2449, dated 9th May 1904..

Read the following letter from Colonel H. D. LOVE, R.E., Principal, College of Engineering, Madras, to the Director of Public Instruction, dated 22nd March 1904, No. 1932-C.

I have the honour to submit the Administration Report of the College of Engineering for the year 1903.

2. *Staff.*—Mr. W. H. James, B.Sc., M.I.M.E., continued to occupy the chair of Mechanical Engineering vacant by the employment of Mr. Chatterton on special duty. The chair of Civil Engineering still remained unfilled owing to the inability of the Public Works Department to lend the services of a suitable officer; and it was decided by Government that the appointment should be recruited from England.

Mr. W. H. Goddard, Instructor in Surveying, was on leave owing to ill-health for fifty-five days from the 30th September.

In consequence of the lamented death of Mr. G. Lamden, Workshop Instructor, on the 2nd June, Mr. J. P. Perkins was appointed to the vacant post with effect from the 1st October.

M.R.Ry. V. Balasundara Mudaliyar, Accountant, returned from leave on the 11th September.

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 class	* 14	12	14	14	54
Engineer Subordinate class	† 33	35	33	35	136
Sub-Overseer and Surveyor class	..	..	44	35	79
Draftsman class	..	..	45	25	70
Total ..	47	47	136	109	339

* Includes one independent candidate.

† Includes three independent candidates.

Excluding the students engaged in the practical courses, the total number actually in the College on the 31st December 1903 was 292. The corresponding totals for the last five years were—

YEARS.	NOS.
1903	292
1902	297
1901	307
1900	306
1899	277

The numbers in 1899, 1900 and 1901 were inclusive of the Artisan class which usually contained about 45 students.

The distribution of the students by classes of the community, by districts, and by wealth and occupation of parents is given in appendices A, B and C. Of the total number, 71 per cent. were Brahmans against 75 per cent. in 1902, 18 per cent. other Caste Hindus against 14 per cent. in the previous year, 5 per cent. Europeans and Eurasians, 4 per cent. Native Christians and 2 per cent. Muhammadans. As regards districts, Tanjore was represented by 30 per cent., Trichinopoly 9 per cent. and Madras 7 per cent. of the total number.

4. *Entrance Examinations.*—The numbers offering for admission were—

Class.	Examined.	Passed.	Admitted.
Engineer class	* 54	33	20
Engineer Subordinate class	† 180	122	† 35
Sub-Overseer and Surveyor class	‡ 266	63	41
Draftsman class	133	31	30

* Of these 43 had passed or appeared for the B.A. Degree examination.

† Of these 25 had passed the First examination in Arts.

‡ Of these two were military students.

§ Of these 49 had passed the Matriculation examination.

The number of applicants for the Engineer class shows a marked increase: the numbers for the remaining classes are much the same as in 1902.

5. *Examination of December 1903.*—The Board of Examiners was presided over by Mr. Strange as in the previous year. The following is an abstract of the results of the examinations :—

(a) *Engineer Class.*—The third year division contained 12 students, nine of whom passed the final examination. The senior student, R. Narasimha Aiyangar, qualified in the first class, and obtained the phenomenal total of 2,576 marks out of a possible 3,000. The average percentage of the total marks was 61. One independent candidate who presented himself for the examination was successful. The second and first year divisions of the class, each containing 14 students, appeared for the term examinations, and obtained 58 and 59 per cent., respectively, of the total marks.

(b) *Engineer Subordinate Class.*—The senior division of 35 students appeared for the final examination and 32 were successful. The average percentage of marks gained was 63. Three independent candidates also presented themselves and two passed the examination. The intermediate and junior divisions of 33 and 35 students, respectively, appeared for the term examinations and secured 67 and 61 per cent. of the total marks.

(c) *Sub-Overseer and Surveyor Class.*—Of the 44 students in the senior division 35 passed the final examination. The average percentage of marks was 59. Seven independent candidates also presented themselves and four passed. The junior division of the class, containing 35 students, appeared for the term examination and secured an average of 62 per cent. of the total marks.

(d) *Draftsman Class.*—In the senior division, 43 students presented themselves and 27 passed, one of whom qualified in the first class. The average marks were 57 per cent. Eight independent candidates were also examined and two passed. In the junior division of the class 25 students appeared for the term examination and obtained an average of 49 per cent. of the total marks.

6. *Comparison of Results.*—The percentage of marks secured under the various subject heads by the senior divisions of classes are compared in Appendix D with the average results of the preceding four years. From the figures given it will be seen that the Engineer and Engineer Subordinate classes, especially the latter, have done well; while there has been a slight falling off from the average standard in the Sub-Overseer and Surveyor and Draftsman classes.

7. *Practical Courses.*—Fourteen Engineer and 33 Engineer Subordinate students were under practical instruction from March 1903. Five of the Engineer students who elected to become Mechanical Engineers, attended a workshop course—one in the Madras Railway Locomotive shops, two in the Public Works Workshops in Madras and one each at those at Bezvada and Dowlaiswaram. The two at Madras were transferred to the College of Engineering Workshops for the latter half of their course. Nine who desired to become Civil Engineers worked in Public Works divisions, as did the 33 Engineer Subordinate students. The reports received regarding their conduct and progress were in the main satisfactory. One Engineer student left his division without completing his course, and the course of two subordinate students was extended by two months for indifferent progress.

8. *Military Students.*—The number of Military students was ten during the first half, and twelve during the second half of the year, distributed as follows:—

Practical course	...	...	...	...	...	...	1
Engineering Subordinate class, senior division	...	...	...	...	...	...	5
Do. do. intermediate division	...	...	...	...	...	...	4
Do. do. junior division	...	...	...	...	...	...	2

9. *Surveying.*—A survey camp was formed in July and maintained for five weeks. The experience gained so far indicates that it is more advantageous to hold a single camp than two during the year. The students were in 1903 spread over a larger area than usual, extending from Vandalūr to the Mount, and a scheme of instruction more comprehensive than heretofore was introduced. To meet Drawing office requirements temporary pandals were erected at convenient spots. The number of students in camp was 226, and the total cost Rs. 2,477. The work done was on the whole satisfactory in quality and amount. The camp was superintended by the Professor of Engineering and was under the direct charge of Mr. W. H. Goddard, Instructor in Surveying.

10. *Inspections.*—The usual inspections were made of works in progress in Madras. In September a short tour extending over four days was made by the senior division of the Engineer class, in charge of the Professor of Engineering, to the Kolar Gold Fields. In the following month, a tour of twelve days was made by the intermediate division of the Engineer class, and the senior and intermediate divisions of the Engineer Subordinate class to Kumbakonam, Tanjore, Trichinopoly and Negapatam, for the inspection of the Kaveri irrigation system and other works. The party was accompanied by the Professor of Engineering, the Instructor in Civil Engineering and two Assistant Instructors. At the same time, the junior division of the Engineer Subordinate class and the senior divisions of the Sub-Overseer and Surveyor and Draftsman classes were conducted by the Instructor in Mechanical Engineering, accompanied by three Assistant Instructors, to the works of the Pálar anicut system. This tour extended over five days.

11. *Workshop and Laboratories.*—The Professor of Engineering reports as follows:—

“All the classes attended in the workshop for a few hours a week with the exception of the Draftsman classes: the latter we were only able to accommodate when the other students were absent in survey camp. The progress shown during the year was on the whole satisfactory, but the real value of the training would be much greater if we were able to give the students a little more than the two hours a week they generally have at present. The work done by the Sub-Overseer and

Surveyor classes shows some improvement as compared with last year, but, as an additional incentive, it would be well to take this part of the course into account at the final examinations. The numbers were—

Engineer students	...	...	...	...	...	...	41
Engineer Subordinate students	...	...	...	...	...	...	105
Sub-Overseer and Surveyor students	...	...	...	...	...	...	79
Draftsman students	...	...	...	...	...	...	70

“The one Government apprentice under training left in April on the completion of his course to take up a post at Rajahmundry. With the extensions in the way of industrial education taking place in the Presidency, it would seem advisable to nominate fresh apprentices for the two stipends which are now available. Two of the Engineer students took advantage of the clause in the regulations for Mechanical Engineers' apprenticeship course to return to the workshop for the second half of the year. From the experience we have had during this time and for other reasons, I am of opinion that it would prove of more benefit to the students to spend the whole year in a commercial workshop. With regard to the necessity for increased workshop and laboratory accommodation, I have nothing to add to my remarks of last year except that, with the large numbers of Engineer students, the need will become still more pressing in the future.”

12. *Physical Training and Recreation.*—Instruction in Gymnastics and Drill was given as usual, and the examination held at the end of the year gave fairly satisfactory results.

Mr. James, the Honorary Secretary of the Recreation Club, reports as follows:—

“The Cricket, Football, Hockey and Tennis clubs were all well supported during the year, but there is still room for improvement in the matter of the attendance of the general body of students on the Recreation ground. The inter-class competitions were this year contested even more keenly than usual. The Engineer class is again without a cup although it played up well for the Football, which is now held together with the Hockey cup by the intermediate division of the Engineer Subordinate class; the senior division of the same class retains possession of the Cricket cup, which it secured last year as the intermediate division.

The College Cricket team with Mr. Goddard as Captain took a good position in the competition for the Professors' Trophy; in Foot ball for the Presidency College cup we were outplayed early in the competition.

During the last week of term very successful sports were held, chiefly under the management of the students, and we hope to make them an annual event. I have received much assistance from the Instructors and Assistant Instructors in conducting the affairs of the various Clubs.”

13. *Library.*—During the year 119 volumes were added to the Library, which now contains 4,273 volumes. The books issued to students numbered 3,119 and to the staff 320, against 3,315 and 363, respectively, in the previous year, while 1,893 references were made to the Consulting Library.

14. *Attendance and Conduct.*—The percentage of numbers present to numbers on the roll was 94.0 for the College Department and 93.6 for the School Department. Particulars are given in Appendix E. There was much absence on medical certificate, pointing to either a low state of health among the students or to undue facilities for obtaining certificates. I am of opinion that the latter is the true reason. One casualty took place, occurring in the intermediate division of the Engineer Subordinate class.

There was one case of serious misconduct which was on the part of a scholarship holder. It was met by the withdrawal of the scholarship.

15. *University Examinations.*—Twelve students of the senior division of the Engineer class appeared for the B.E. Degree examination in January 1903 and six were successful, viz., four in the Civil and two in the Mechanical branch. Twelve ex-students also presented themselves, and seven of these passed the examination, viz., five in the Civil and two in the Mechanical branch.

Thirteen candidates offered themselves for the First examination in Engineering, of whom twelve were second year students and one third. Six in all were successful.

16. *Buildings.*—The structural alterations referred to in the report for 1902 are not yet complete. Some progress has been made with the lavatory, but it is not yet in a fit condition for use. Nothing has been done towards the provision of additional lights at the north end of the ground floor drawing office.

17. *Government Technical Examinations.*—Four students presented themselves voluntarily for examination, viz., one from the Sub-Overseer and Surveyor class and three from the draftsman class. Five different subjects were taken up and there were six papers in all. Two students were successful, viz., one in the Intermediate grade and one in the Elementary. Particulars are given in Appendix F.

18. *Employment of Passed Students of 1902.*—Of the ten Engineers who completed their practical course early in 1903, the senior, M. Nilakanta Aiyar, B.E., was appointed Assistant Engineer in the provincial service of the Public Works Department on Rs. 250; one was nominated office surveyor on Rs. 100 under the Sanitary Engineer; four accepted appointments as temporary Upper Subordinates of the Public Works Department on Rs. 60–100; one became Superintendent of the Technical Institute at Nagercoil on Rs. 150; one was appointed Assistant Engineer on Rs. 150 in the Sivaganga estate; one a Bridge Inspector on Rs. 100 in the Madras Railway Company, while the remaining one secured an Acting Local Fund Assistant Engineership for a limited period.

Of the 25 Engineer Subordinates who completed their practical course early in 1903, the senior, D. R. Krishnaswami Aiyar, was appointed a permanent Upper Subordinate, third grade, in the Public Works Department on Rs. 60, while the two military men were posted as Upper Subordinates, first grade, on Rs. 100. Of the remaining 22, all but one regarding whom no information has been received, obtained employment on the Temporary Upper Subordinate establishment of the Public Works Department on Rs. 60.

Of the 35 Sub-Overseers and Surveyors who passed out in December 1902, eight were engaged as Sub-Overseers (viz., one in the Public Works Department, one in the Military Works service, two in the Revenue Department, one in a Native State, one under a Local Board and two in Zamindaris) on an average salary of Rs. 40; seventeen were employed as Surveyors (viz., 15 in the Public Works Department, one in the Forest Department and one in a Native State) on an average salary of Rs. 65; while four took up duty as Anicut or Channel Superintendents in the Public Works Department on an average salary of Rs. 18. Of the remaining six, two were engaged temporarily for short periods, one remained unemployed, while from the other three no information was received.

Of the 26 Draftsmen who obtained certificates in December 1902, seven were engaged as Draftsmen, one as a Surveyor, one as an Overseer in a Native State and one as a teacher in a Technical Institute. Seven reported themselves as unemployed, and the remaining ten failed to supply information.

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

19. *Revision of Rules.*—The chief alteration made in the rules is one providing for the annual admission of 20 in place of 15 candidates to the Engineer class. If among the successful candidates at the entrance examination five non-Brahmans are not within the first twenty, the number shall be made up in order of merit from the other qualified candidates who are not Brahman. Rules were also sanctioned under which qualified teachers may receive a course of training in any subject taught in the college.

20. *Financial Details.*—On reference to Appendix H it will be seen that the receipts amounted to Rs. 29,490 and the charges to Rs. 96,040. The net cost to Government was therefore Rs. 66,550. Dividing this sum by the average number of students on the rolls, it appears that the net cost of educating each student was Rs. 228. Full

financial details for the official year 1902–1903 were submitted with the annual returns. An abstract of receipts and charges for the last five calendar years is given in Appendix K.

21. *General.*—The Professors of Engineering and Mathematics have cordially co-operated with me in the administration and instructional work of the college. To Mr. James who, in the absence of the second Professor of Engineering, has done yeoman's service, I am especially indebted. The chief instructors have afforded me all the help in their power, and the assistants in their different degrees have generally displayed zeal and worked satisfactorily. The members of the office establishment under the control of a capable head clerk have also done well.

APPENDIX A.

DISTRIBUTION of students according to classes of the community on the 31st December 1903.

Classes.	Europeans and Eurasians.	Native Christians.	Muhammadians.	Hindus.			Total.
				Brahmans.	Non-Brahman Caste Hindus.	Panchamas.	
Engineer classes	..	2	1	37	..	..	40
Engineer Subordinate classes	12	4	1	75	11	..	103
Sub-Overseer and Surveyor classes	2	6	3	48	20	..	79
Draftsman classes	..	1	..	47	24	..	70
Total	14	13	5	207	53	..	292

APPENDIX B.

Distribution of students by districts on the 31st December 1903.

Districts.	Engineer class.	Engineer subordinate class.	Sub-Overseer and Surveyor class.	Draftsman class.	Total.
Vizagapatam	1	3	..	..	4
Godavari	1	2	8	6	17
Kistna	2	3	4	2	11
Nellore	..	2	..	..	2
Madras	2	4	9	5	20
Chingleput	..	4	6	1	11
North Arcot	2	4	3	3	12
South Arcot	1	5	2	5	13
Tanjore	13	29	20	27	89
Trichinopoly	2	6	9	10	27
Madura	3	7	5	3	18
Tinnevely	2	5	2	3	12
Coimbatore	1	1	5	1	8
Salem	..	2	2	3	7
Malabar	1	1	1	1	4
South Canara	2	3	..	..	5
Pudukkottai	..	3	..	..	3
Cochin	..	3	..	..	3
Travancore	2	2	2	..	6
Mysore	3	2	1	..	6
Rajputana	1	..	..	..	1
Burmah	..	1	..	..	1
Hyderabad (Deccan)	1	..	..	..	1
Military students	..	11	..	..	11
Total	40	103	79	70	292

APPENDIX C.

Distribution of students by wealth and occupation of parents on the 31st December 1903.

1883 December 1903.

Classes in the College.	Wealth.				Occupation.						
	Richer class.	Middle class.	Poorer class.	Total.	Officials.	Petty officials.	Traders.	Landholders.	Artisans.	Total.	
Engineer class—											
Third year	1	10	1	12	5	1	..	6	..	12	
Second year	3	10	1	14	9	..	..	..	..	14	
First year	..	14	..	14	6	1	..	7	..	14	
Engineer Subordinate class—											
Third year	1	33	1	35	16	2	6	11	..	35	
Second year	..	27	6	33	16	1	1	15	..	33	
First year	1	31	3	35	15	..	4	16	..	35	
Sub-Overseer and Surveyor class—											
Second year	3	35	6	44	21	1	3	19	..	44	
First year	1	29	5	35	13	5	1	16	..	35	
Draftsman class—											
Second year	..	36	9	45	18	2	4	20	1	45	
First year	..	24	1	25	10	3	1	11	..	25	
Total	10	249	33	292	129	16	20	126	1	292	

APPENDIX D.

Comparison of results of annual examination.

Class.	1903.	Average of preceding four years.
Engineer class—Senior division—	PER CENT.	PER CENT.
Mathematics	65	57
Science	48	50
Engineering	58	61
Drawing	63	61
Surveying	67	63
Language	59	60
Drills and exercises	50	62
Total	61	59
Engineer subordinate class—Senior division—		
Mathematics	60	55
Engineering	62	61
Drawing	63	58
Surveying	65	59
Language	66	58
Drills and exercises	64	61
Total	63	58
Sub-Overseer and Surveyor class—Senior division—		
Surveying	62	63
Engineering	55	57
Drawing	60	58
Drills and exercises	48	52
Total	59	60
Draftsman class—Senior division—		
Geometrical, etc., drawing	57	51
Building construction and drawing	62	61
Machine drawing	67	59
Estimating	47	61
Drills and exercises	44	59*
Total	57	59

* Average for two years only.

APPENDIX E.

Average numbers and attendance in 1903.

	Average number on rolls.	Average daily attendance.
College department—		
Engineer class, third year	14.3	13.2
Do. second year	14.0	13.0
Do. first year	12.0	10.7
Engineer subordinate class, third year	34.6	32.8
Do. second year	33.4	31.8
Do. first year	35.6	33.8
Total	143.9	135.3
School department—		
Sub-Overseer and Surveyor class, second year	44.0	43.3
Do. do. first year	35.0	32.2
Draftsman class, second year	44.0	39.9
Do. first year	25.4	23.5
Total	148.4	138.9
Grand Total	292.3	274.2

Percentage of numbers present to number on the rolls —

College department	94.0
School do.	93.6

APPENDIX F.

Government Technical Examination of 1903.

Subject.	Grade.	Number examined.			Number passed.
		Sub-Overseer and Surveyor class.	Draftsman class.	Total.	
Hydraulics and irrigation works.. ..	I	1	..	1	..
Earthwork and road making	E	..	1	1	..
Applied mechanics	E	..	1	1	..
Machine construction	I	..	1	1	..
Geometrical drawing	I	..	2	2	1
Total .. {	I	1	3	4	1
	E	..	2	2	1

APPENDIX G.

Classification of vacancies notified during 1903.

	Government.				Local Board and Municipality.				Railways.				Native States.				Private employés.				Total.
	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. 10 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.	
Engineer or Assistant ..	1	1	..	..	2	..	..	..	1	..	..	..	..	3	..	..	..	1	..	..	9
Supervisor	..	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5
Overseer	..	..	10	1	..	5	2	..	..	..	..	..	..	3	..	..	..	..	1	..	22
Sub-Overseer	..	..	6	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	8
Draftsman	..	4	3	10	..	..	..	..	..	2	3	..	..	2	..	..	..	..	2	2	28
Surveyor	..	..	24	2	..	..	..	..	..	..	..	..	..	2	..	..	..	1	..	..	29
Amicnt or Conservancy Superintendent.	..	..	3	8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11
Total ..	1	10	46	22	2	5	2	1	2	3	..	6	4	..	..	2	4	2	..	112	

APPENDIX H.

Financial Details for 1903.

	RS.	A.	P.	RS.	A.	P.
Receipts—						
Tuition Fees—						
College Department ..	11,007	0	0			
School Department ..	7,647	0	0			
Entrance and Final examination fees ..	..	..	..	18,654	0	0
Miscellaneous Receipts ..	..	..	..	9,954	0	0
				882	3	8
Total ..	29,490	3	8			
Charges—						
Principal ..	19,227	0	0			
Professors, masters and teachers ..	41,408	15	0			
Clerks, librarian and servants...	5,437	1	2			
Board of Examiners ..	5,000	0	0			
Library and Prize allowances ..	466	8	9			
Books and Instruments ..	55	10	0			
Other Europe stores ..	2,898	5	6			
Other heads of contingent charges ..	12,918	4	4			
Travelling allowances ..	1,470	7	3			
Scholarships ..	4,738	12	10			
Exchange compensation allowance ..	1,819	5	0			
House-rent ..	600	0	0			
Total ..	96,040	5	10			
Net cost to Government ..	Rs. 66,550	2	2			
Average number of students on rolls ..	292					
Net cost per student ..	Rs. 227	14	7			
Average tuition fees paid per student per annum—						
College Department ..	Rs. 76	7	0			
School Department ..	51	10	8			

APPENDIX K.

Comparative financial details.

	1903.	1902.	1901.	1900.	1899.
Receipts ..	RS. 29,490	RS. 28,656	RS. 28,366	RS. 25,829	RS. 21,821
Charges ..	96,040	94,731	90,046	94,394	89,538
Net cost to Government ..	66,550	66,075	61,680	68,565	67,718
Average number of students ..	292	300	314	307	283
Net cost per student ..	228	220	196	223	239

Proceedings, Dis. No. 2449 of 1904.

Staff.—There were no changes of any importance during the year except the appointment of Mr. J. P. Perkins as Workshop Instructor on the death of Mr. G. Lamden.

2. *Accommodation.*—The Principal's remarks in paragraph 16 of the report are noted. In their order No. 3627 W., dated 18th December 1903, Government have called for plans and estimates from the Consulting Architect for the construction of a new building for the workshops and the laboratories required for the college.

3. *Workshops.*—The progress of the students attending the college workshop is reported to have been satisfactory on the whole. The Principal is requested to be good enough to favour the Director with his views on the several suggestions made by the Professor of Mechanical Engineering in his letter quoted in paragraph 11 of the report.

4. *Strength and Attendance.*—Excluding the students in their practical course, there were under instruction in the college at the close of the year 292 students or five less than in the previous year, almost the whole decrease having occurred in the draftsman class. There was a decrease under Brahmans and Native Christians, and an increase under Europeans, non-Brahman Hindus and Muhammadans. All the classes except the Engineer class have contributed to the fall in the number of Brahmans.

5. *Examinations.*—The results of the examinations conducted by the Board of Examiners were very fair on the whole, though in the sub-overseer and surveyor and draftsman classes the general average was not kept up. The independent candidates except those for the draftsman test also did well. Science in the Engineer class and estimating in the draftsman class required greater attention.

The results of the B.E. degree examination were fair; six of the twelve college students who entered, qualified for the diploma; of the ex-students seven out of twelve passed the examination. The results of the first examination in engineering, however, did not compare favourably with those of the previous year.

For the Government Technical examinations there were six subject candidates, mostly from the draftsman class, against ten in the previous year, and two passed against six. This result was not encouraging.

6. *Military Students.*—Excluding the single student in his practical course there were eleven military students in the Engineer Subordinate class of the college against ten in the previous year. The results of the final examination of those in the senior division should have been reported.

7. *Practical Course.*—Fourteen Engineer and 33 Engineer Subordinate students underwent their practical course during the year, and all but one of the former and two of the latter completed it. The reports received regarding their conduct and work during the course appear to have been generally satisfactory.

8. *Discipline and Conduct.*—It is hoped that greater regularity of attendance on the part of the students will be secured in future.

9. *Employment of Passed Students.*—The prospects of all except the draftsman students continued to be good.

10. *Finance*.—There was an increase in the fee-receipts, but this was more than counterbalanced by an increase in the charges chiefly under contingencies. The net cost to Government, however, was only Rs. 475 more than in the previous year but as there was a fall in the average number of students on the rolls the net cost of educating each student rose from Rs. 220 to Rs. 228.

11. *General*.—The college rules underwent certain changes during the year, the nature of the revision being indicated in paragraph 19 of the report. The interest of the students in field games and outdoor competitions continued to be fairly well maintained, though it appeared to be limited to a comparatively small number of the students. It is hoped that under the influence of the members of the staff it will soon become more general. The efficient working of the college during the year is noted with satisfaction.

(A true Extract.)

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.

„ Superintendent, School of Arts.

Copy to the President, Board of Examiners,

College of Engineering.

„ the Chief Engineer, Public Works Department, for information.

„ Editors, Indian Journal of Education and Educational Review.

„ Government (with C.L.).

ORDER—No. 323, Educational, dated 31st May 1904.

Recorded.

2. The Government have nothing to add to the remarks of the Director of Public Instruction.

(True Extract.)

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

To the Director of Public Instruction.

„ Public Works department.

Editors' Table.

LETTER—No. 324, Educational, dated 31st May 1904, to the Under Secretary of State for India.

In compliance with the instructions conveyed in Lord Hartington's despatch No. 9, Public Works, dated the 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 during the year 1903.

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

Educational (190⁴) Department.

CURRENT No. 873

From

[Name] The Hon'ble Mr. A.G. Bourne, D.Sc., F.R.S.,

[Designation] Director of Public Instruction,

[Station] Madras.

C. No.

4383 of 04

Received

16 MAY. 1904

190

Dated

14 May

1904.

Enclosures

Registered

16-5-04

1904

SUBJECT.

Submitting copy of the Director's Proceedings reviewing the report on the working of the College of Engineering, Madras during 1903.

BACK PAPERS.

✓ Last Reports 2 years

✓ Rules 00. 366 8 28-6-01

✓ Desp. 20. 40 14-4-04

✓ 546 8 79-11-03

✓ 734 8 27-11-03

✓ 216 8 22-4-01

✓ 362 8 25-1-04

✓ 299 8 11-5-03

FURTHER PAPERS.

2

To

The Secretary to Government,

Educational Department.

Sir,

I have the honour to submit, for the information of Government a copy of my Proceedings Dis No. 2449 dated 9th May 1904 reviewing the report on the working of the College of Engineering, Madras during 1903.

I have the honour to be,

Sir,

Your most obedient servant,

A. G. Bowler

Director of Public Instruction.

3

or

EDUCATIONAL DEPARTMENT.

[E.]

1,500-7-10-03.

C. No. 873 From the

No 4383, dated 14-5-1904.

SUBJECT.

Report of the College of Engineering for 1903.

The draft placed below may issue.

[Handwritten signature]

26/5/04

[Handwritten notes and signatures]
27/5/04

[Handwritten signature]
27/5/04

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

” ” ” ” ” 190

READ ALSO:—

C. No. 873, From the S. P. I., No. 4388, dated 14-5- 1904.

190

" " " " "" , "- " "

” ” ” ” ” ” ” 190

ORDER No 323, dated 31-5-1904

P.S.

Recorded.

2. The Directors review of the report is full and the Govt. have nothing to add to ^{the} remarks of the Director of Public Instruction.

3. The working of the college continued ~~on the 10th~~ to be satisfactory.

20.

The D. P. 9!

P. W. D.

Editors' Table.

87
261514

26.5-2

$$\frac{1452}{27.504}$$

Letter no. 324, of 31-5-04

To the Under Secretary of State
for India.

Sir,
In compliance with the instructions
conveyed with reference to Lord
Hartington's despatch n^o. 9 Public
works

Desp'd
23/6/4

Z

works, dated the 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 during the year 1903.

5

[Signature]

25/5/14 25/5/14
27-805

First copy sent to Press.
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Despatched in print.

READ AGAIN G.O., No.
190 .

, DATED

CURRENT No.

ENCLOSURES TO C. No.

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LETTER OF GOVERNMENT.

STATEMENT WITH DITTO.

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