

Government of Madras
LAW (EDUCATION) DEPARTMENT

G.O. No. 1126, 30th June 1925

College—Engineering—Guindy—Annual report—1924-25—Recorded.

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G.O. No. 1126, 30th June 1925

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READ—the following paper :—

Letter from R. G. GRIEVE, Esq., M.A., Acting Director of Public Instruction, to the Secretary to Government, Law (Education) Department, dated Madras, the 12th June 1925, R.O.P. No. 13-A-13/25-26.

I have the honour to submit herewith for the information of Government a copy of my Proceedings R.O.P. No. 13-A-13/25-26, dated 30th April 1925, reviewing the annual report of the College of Engineering, Guindy, for the year 1924-25.

ENCLOSURE

Proceedings of the Director of Public Instruction, R.O.P. No. 13-A-13/25-26, dated 30th April 1925.

Read—the following paper :—

Letter from C. L. CARTWRIGHT, Esq., A.M.INST.C.E., M.I.M.E., M.I.E.E., M.I.E. (Ind.), Principal, College of Engineering, Guindy, to the Director of Public Instruction, Madras, dated the 11th April 1925, No. C-1369/25.

I have the honour to submit the report on the working of the College of Engineering, Guindy, for the academic year 1924-25.

2. *Staff.*—Mr. W. H. James, the permanent Principal, having retired from service from 4th July 1924, I was confirmed as Principal of the College.

3. *Number on rolls.*—The number of students at the end of the academic year was 250 excluding those on practical course.

Class.	Practical course.	In college.				Total.
		Fourth year.	Third year.	Second year.	First year.	
Engineer class	47	(a) 40	(b) 42	(c) 26	(d) 35	190
Upper Subordinate class	64	..	..	89	18	171
Total ..	111	40	42	115	53	361

(a) One Electrical Engineering scholarship holder.
(b) Four Electrical Engineering scholarship holders.

(c) Three Electrical Engineering scholarship holders.
(d) Two do. do.

The distribution of students by classes of community, district and occupation of parents or guardians is given in appendices A, B and C.

4. *Admission of students.*—The total number of applicants for admission to the Engineer class was 80 of which only 43 were from qualified students. As the number was below the number mentioned in rule 37 of the College rules, viz., 45, the members of the selection committee constituted in G.O. No. 636, Law (Education), dated 20th May 1922, agreed to my proposal that no meeting of the committee was necessary and the selection was made by me. From among those selected only 36 appeared for admission. Admissions into Probationary Subordinate class were made in the two Engineering schools at Vizagapatam and Trichinopoly as per G.O. Mis. No. 17, Law (Education), dated 4th January 1924. The draughtsman class was not formed for want of applicants for admission into that class.

5. *Examinations—Engineer class—Senior division.*—The civil branch comprised 24 students and all passed the final examination, seven with honours with an average of 63 per cent of the total marks.

The mechanical branch consisted of 26 students. All passed the final examination, eight with honours gaining an average of 63.6 per cent of the total marks. Eight students of the class (five civil and three mechanical) failed to qualify in practical surveying.

Third year division.—The civil class was 20 students strong and there were 21 students in the Mechanical branch. All passed the sessional examination.

Second year division.—The strength of the class was 41 inclusive of three electrical scholarship holders and all appeared and passed the sessional examination with the exception of one who though prevented from appearing for the examination owing to illness was promoted in Proceedings L. Dis. No. 2320-C of 24, dated 28th July 1924, of the Director of Public Instruction, Madras, to the next higher division on account of his high proficiency in the class. Of the successful candidates 30 joined the civil branch and the remaining the mechanical.

First year division.—All the 26 students of this class passed on in accordance with the college rules to the second year division of the course.

Upper Subordinate class—Senior division.—The strength of this class was 63 and all passed the final examination, six with honours gaining an average of 59.5 per cent of the total marks. Ten students of this class failed to qualify in practical surveying.

Second year division.—Ninety-seven students constituting this class appeared for the sessional examination and all passed with the exception of eight students who failed to secure the minimum required for a pass. Of the failures four rejoined the same class, two were permitted to join the Lower Subordinate class at Vizagapatam and two discontinued the studies.

Lower Subordinate class.—There were nine students in this class all of whom appeared and passed the examination. The average marks gained were 61.6 per cent. Three of them failed to qualify in practical surveying.

Probationary Subordinate class—Second year division.—This class was 19 strong. On the result of the common examination held for this class in the college and in the two Schools of Engineering 10 from the college, eight from the Engineering School at Trichinopoly and one from Vizagapatam were promoted to the Upper Subordinate class, second year division of the college, and the remaining successful students, viz., 15 to the Lower Subordinate class at Trichinopoly and Vizagapatam. Of the eight from Trichinopoly promoted to the Upper Subordinate class only four joined the class and the remaining four preferred the Lower Subordinate course at the same school.

First year division.—All the 14 students of this division proceeded with the second year of study in accordance with the rules. Nine of these joined the School of Engineering, Trichinopoly, four, the Vizagapatam, and one discontinued his studies.

6. Results of the University Examinations of 1924 :—

	Number appeared.					Number passed according to the year of study.					Number passed according to branches of study.		
	Ex-students.	Fourth year study.	Third year study.	Second year study.	Total.	Ex-students.	Fourth year study.	Third year study.	Second year study.	Total.	Civil.	Mechanical.	Total.
B.E.	10	28	..	..	38	4	23	..	..	27	15	12	27
F.E.	6	17	27	41	91	2	4	12	9	27	..	..	..

7. *Practical training.*—Forty-eight Engineer (23 * civil and † 25 mechanical) and ‡ 64 Upper Subordinate students commenced the usual course of practical training about the beginning of July last.

* Excludes one student who did not join the course.

† Excludes two students who did not join the course.

‡ Includes one student of last year who joined the practical course during this year.

The distribution list showing the various works and workshops they joined for the training is given in the following statement :—

Name of works.	Number of students of Engineer class Civil branch taking training.	Number of students of Engineer class Mechanical branch taking training.	Number of students of Upper Subordinate class taking training.	Total.
Public Works Division, Madras	6	..	56	62
Public Works Workshops, Madras	8	15	..	23
Do. Dowlaishwaram	1	1	..	2
Public Works Department, Travancore	5	..	2	7
Do. Workshops, Travancore	..	1	..	1
Public Works Department, Central Provinces	1	..	..	1
Do. Hyderabad State	1	..	..	1
Vizagapatam District Board	..	..	2	2
Salem Municipality	..	..	1	1
Pudukottah State	..	..	1	1
Cochin State	..	..	1	1
Madras and Southern Mahratta Railway works	1	..	1	2
Madras Harbour works	..	3	..	3
Bengal-Nagpur Railway Workshops	..	1	..	1
Andhra Valley Power Supply Company, Bombay	..	2	..	2
Massey and Company, Madras	..	1	..	1
Total	23	24	64	111

8. *Visit to works.*—At about the beginning of October last, two parties of students proceeded on a tour of inspection of the irrigation works of the Godavari and Kistna deltas. One party consisting of 19 students of E. I. Civil and 13 of E. If. Mechanical were in charge of Dr. K. C. Chakko, Professor of Civil Engineering, assisted by Mr. Samuel Paul, Laboratory Assistant, while 55 students of U.S. I. accompanied by two Assistant Instructors (Messrs. C. Kameswara Rao and Abdul Hakim Sahib) formed the other party. The first party after inspecting the Divi Pumping Station, proceeded to Bezvada for the inspection of Eastern and Western Delta Headworks, Kistna Bridge works, Orr's Hill Reservoir Waterworks and Workshops. They then proceeded to Dowlaishwaram where they visited the Eastern, Western and Central Delta Headworks and the Godavari Bridge works. The party returned to Madras on 14th October 1924 after inspecting the Sugar Factory at Samalkot, Paper Mills at Rajahmundry, West and East Tamileru Level-crossings and Waterworks and the Jute Mills at Ellore. The other party toured round in opposite direction and arrived at Madras on the 11th October 1924 after inspecting most of the works mentioned above with the exception of a few works around Dowlaishwaram. At about the same time two other parties were taken to the south for a tour round some of the works in the Cauvery Delta the one party consisting of E. II. Civil and U.S. II. in charge of Mr. M. Sanjeeva Rao, Instructor in Civil Engineering, accompanied by Mr. C. Rangaswami Ayyangar, Assistant Instructor and the remaining students of U.S. I. who did not join the Godavari party numbering about 34 in charge of Mr. V. Sethu Sarma, Assistant Instructor, forming the second party. The first party after inspecting the Waterworks, Service Reservoir and Puthur weir at Trichinopoly proceeded to Elamanur for the inspection of Upper Anicut, Ayyan, Peruvalai and Wycondan heads, gauging operations and recorder station at the nose of Srirangam island inspecting on the way the breach-closing works at Murungapet. They then proceeded to Grand Anicut and inspected the breach-closing works at Uttamasheri and Kilikoodu, the Grand Anicut, Cauvery and Vennar regulators and returned to Madras on 13th October 1924 via Trichinopoly Fort, inspecting on the way the Minakshi College Buildings and Shatiatope Anicut at Chidambaram.

The other party were conducted round in the opposite direction.

The students of the final year Mechanical Engineer class were taken by Mr. P. Subba Rao, Acting Professor of Electrical Engineering, on a tour of inspection extending over a week to Mysore. The party after inspecting the Iron works at Bhadravati proceeded to Kolar Gold Field for the inspection of receiving station, Champion Reef and Oregaum mines and the underground plant, etc. After inspecting the Kannanbadi Dam and other connected works on the way they were taken to

Bluff where they inspected the Forebay, Old and New Transformer Stations, Power-house, etc. Then they returned to Madras after inspection of the reinforced concrete works of the railway and General Engineering Company, City Sub-Station, Woollen Mills, Sandal Oil Factory, Mysore Metal Factory and the Indian Institute of Science, Bangalore. The party were kindly received and given every facility at all places by the authorities in charge. The total number of students who took part in these tours was 176 and the total expenditure Rs. 1,809-10-9.

During the session visits were paid as usual to all important local Engineering Works.

9. *Survey Camp*—The idea of having a project course for the senior Civil Engineer students was brought up early in the session by the Director of Public Instruction, since practically the whole of the capital outlay on tents could be saved by utilizing certain surplus tents from the Public Works Department. The scheme had however to be abandoned as Government did not provide the money for the recurring expenditure. Accordingly the survey camp, 1925, was held on similar lines to those in previous years. Owing to its accessibility and its accommodation for the students, Pallavaram was again chosen as the site of the camp. As the allotment of funds for camp is decreasing gradually, the junior class of Engineers worked at Guindy for the whole period, and the second and third year students also worked in Guindy after a fortnight in Pallavaram. Further, the camp period was restricted to three weeks (January 6th to 24th) which included two holidays owing to Pongal. The Upper Subordinate classes of both years worked throughout in Pallavaram. The party in Pallavaram was under the supervision of the Professor of Civil Engineering assisted by the Instructor in Surveying and seven assistant instructors. The party in Guindy was under the immediate supervision of the Instructor in Civil Engineering with the help of Assistant Instructors and other members of the college staff.

In Pallavaram the party during the first two weeks made a detailed survey of the area from the railway line to the river Adyar about nine square miles in extent. During the last week they were given practice in curve ranging heights and distances, use of new instruments, etc.

The party at Guindy made chain, compass and plane table surveys of Teachers' College, Adyar Club, and the Engineering College compounds.

Field work was from 6-45 to 10-30 a.m. and 3 to 4-30 p.m. The afternoons were devoted to office work instead of field work whenever it was found necessary.

As recommended last year, the students were made to live in Pallavaram during the whole period of camp. The experiment has been a great success. The quality and quantity of the work turned out were better than in previous years.

This year also the weather conditions were nearly perfect. There was no case of illness in camp and the work of the students was entirely satisfactory.

Thanks are due to the Garrison Engineer for kindly placing at the disposal of the college a number of barracks for staff and students at Pallavaram.

It is necessary also to record that the students' mess was looked after by Mr. A. R. Sabapathi Ayyar of the hostel staff and under his management and the co-operation of the hostel manager at Guindy, the hostel at Pallavaram was run very successfully.

Although the Probationary Subordinate classes have been removed from Guindy, the strength of U.S. I. class being nearly 90, the number of students to be looked after continued to be large and the members of staff to look after them were few. In order to make the supervision work easier than heretofore, instructors were put in charge of different districts instead of different classes; but in spite of this the task was by no means easy and credit must be given to them for conscientiously discharging their often arduous work.

127 students attended camp at Pallavaram for three weeks.

57 students attended camp at Pallavaram for two weeks, and at Guindy for one week.

35 students attended camp at Guindy for three weeks.

The cost to Government for the camp is Rs. 1,483-3-0.

10. *Power-house*.—During the year under report the supply of power was very satisfactory. There was hardly any interruption of service.

The current consumption compared with that of last year showed a slight fall due to diminished consumption in the hostel caused by a decrease in the number of students. The latter more than offset the increased consumption in other direction, such as workshops and laboratories.

The cost per unit has fallen slightly. The alternating current supply was started and the direct current motors in the workshops and laboratories were replaced by A.C. motors. Arrangements were also made to give A.C. supply to the Electrical Engineering Laboratory for experimental work.

The Petter engine which is the prime-mover as regards our power-supply continued to give every satisfaction.

The three steam sets were not used for power-supply at all but kept ready as a stand-by in case of failure of the Petter engine. They were used twice by the Mechanical Engineering Laboratory for experimental work for the senior Engineer class.

The Campbell engine was put in regular operation to drive 50 K.W.A.C. and 16 K.W., D.C. generators. Its working cannot yet be said to be entirely satisfactory. The makers have recently suggested certain improvements and the effect of these are now being tried. The engine at present is working on two cylinders (out of the four) as one of the cylinder heads cracked while the engine was running, when the Campbell Company's expert was putting the engine in order. Due to the rather poor load it has to deal with at present, its running is found expensive and has therefore to be restricted to a few hours run per day.

A 16 K.W., D.C. machine was brought into commission to work as either a motor to drive the A.C. generator or to work as a generator when the Campbell engine is running.

The erection of the 25 K.W. gas engine set with its producer is very nearly complete. The set is expected to be put into regular service by the time the college re-opens in July.

The experimental steam engine was put to use by Mechanical Engineering Laboratory for experimental work for the senior class.

The pumping station at Saidapet was taken over this year from the Public Works Department. The Public Works Department has not yet replaced the temporary 440 volt D.C. motor supplied by the college for driving the pumps.

Scarcity of water was experienced throughout the year, except immediately after the rains.

Training in running the plant was given as usual to the Engineer students on practical course. The help given by these students has been considerable.

Up to September 16th, 1924, the work of superintending the power-house was done by Mr. M. K. Ranganatham, Professor of Mechanical Engineering. On his transfer from the college Mr. Sukumaran was put in charge with effect from 1st October 1924.

The necessity of a Power Station Superintendent who is a full-timed man (unlike the present Superintendent in charge) was increasingly felt, so as to ensure the reliability, economy and safety of operation of the power-house.

11. *Electrical Engineering Laboratory*.—The Professor of Electrical Engineering reports as follows:—

"The Workshops attached to the Electrical Engineering Laboratory is being run temporarily by two independent motors for carrying on the fitting work connected with the department.

A temporary fitter has been engaged and we are making a real beginning in the construction of rheostats, switches and other electrical appliances for the supply of which we usually depend on outside agency. This has resulted in economy and swiftness in the execution of work.

The mounting of instruments and other fittings on the central switchboards is being attended to and arrangements have been made for the supply of alternate current to the workshops and other laboratories in case of breakdown of power-house supply.

Systematic electrical engineering testing has been very satisfactorily conducted during the session."

12. *Mechanical Engineering Laboratory*.—The Acting Professor of Mechanical Engineering reports:—

"The equipment in the laboratory is the same as before and until this is fully provided for, it is difficult to find a sufficient variety of work to keep a number of batches of students engaged in the work without crowding. The time at our disposal was fully employed, however during the year, although if the equipment had been complete, we could have got each individual student or in batches not exceeding three to perform any experiment individually.

During the year the following apparatus were set up and brought into use:—

- (1) Simmons Abady Modification of Junker's Gas Calorimeter.
- (2) Rosentien's Modifications of Lewis Thomson's Calorimeter.
- (3) Electric Muffle furnace for coal-testing (moisture, volatile constituents' and ash).
- (4) Shore Pyroscope—Optical Pyrometer."

13. *Strength of Materials Laboratory*.—A brinell hardness testing machine made by W. and T. Avery, Limited, was added to the equipment during the year.

Tests for tension, compression, shear, bending, impact and hardness were arranged in a systematic manner for the instruction of students, who carried them out and recorded the results. The tests made here on behalf of the Public Works Department and other departments and firms were, though varied, not so numerous as in the previous year.

We have made a beginning in the matter of preliminary tests of timbers proposed to be used as sleepers, in accordance with the instructions of the Forest Economist of the Forest Research Institute, Dehra Dun, the specimens being supplied by the Forest Department at the instance of that officer. The results required are those relating to tests in pulling spikes, hardness and compression perpendicular to the grain. It is hoped that considerable work in this line will be turned out next year.

14. *Hydraulic Engineering Laboratory*.—As sufficient funds were not forthcoming, it has not been possible to fit up the laboratory for experimental work yet. Some of the machinery has been erected and an underground tank built. It should be possible to make use of the laboratory for some experimental work during the academic year 1925-26.

15. *Science Laboratory*.—It has not been possible during the year owing to shortage of funds to effect the full equipment of the laboratories to enable the students to carry out all necessary tests in Applied Science. Notwithstanding, considerable amount of work has been done.

It is to be regretted also that funds were not available for taking students on excursions to centres of chemical engineering such as Ranipet and Bhadravati.

16. *Workshops*.—No new machine was purchased; a small vertical milling machine belonging to the School of Engineering, Trichinopoly, was exchanged for a horizontal milling machine from the college shops. Alternate current motors were substituted for the previous direct current motor drives.

17. *Hostel*.—A committee consisting of three of the Professors was introduced to advise the Principal on the internal affairs of the hostel.

18. *Hospital*.—No less than three changes were made in the appointment of Sub- Assistant Surgeons. Mr. Perumal Razu replaced Mr. P. Balasundaram Pillai. He in turn was replaced by Mr. B. K. Shenai and the appointment is now held by Mr. A. Govindakutti Nayar. The total number of patients treated during the year

was 2,569 with a daily average of 18.05. These were practically all out-patients with the exception of 26 who had to be treated as in-patients. Two cases of small-pox occurred, but the disease was stamped out by prompt measures.

19. *Athletic Club*.—Mr. W. C. Old reports:—

"*Inter-collegiate sports and games*.—It is with deep regret that I have to report that the M.C.A.A. did not arrange this year for any inter-collegiate matches in hockey, football, cricket or tennis, nor for the annual sports meeting, thus depriving our students of the benefits of the only sort of inter-collegiate activities that they have been enjoying all these years.

Tennis.—There were not sufficient numbers this year and therefore only five courts were run; most of the students are still under the impression that tennis is a cheap game.

College sports.—Sports were held this year on the 13th February in connexion with the celebration of the 'College Day' when Sir A. P. Patro, Minister for Education and Public Works presided.

His Excellency Lord Willingdon's prize was again won by Mr. P. Kumaran of the Upper Subordinate class.

Inter-class matches.—They were keenly contested this year and never before have I seen such enthusiasm in these matches. Engineer class first division won football and hockey and Engineer class second division cricket.

General.—Some allotment is always necessary annually for the up-keep of the sporting grounds. The gymnastic apparatus is still too poor."

20. *University Training Corps*.—Dr. K. C. Chakko reports:—

"Sixteen final year students having left the college their places were open for recruits. There was an eagerness to join the corps among the students and the places were easily filled. From the trained men selected squads took part in the Naval and Military tournament and in the Field Day at Tambaram. The Raja Varma Cup which we held for the last two years was lost this year although after a keen contest. Owing to the large proportion of recruits who have not done arms drill, no parade for Guard of Honour was held at the college.

There was a falling off in the attendance at the last Bangalore Camp in May-June. The platoon with the rest of the battalion took part in the King's Birth Day parade by lining the parade ground.

The senior non-commissioned officers have continued to do very useful work often at great inconvenience to themselves.

There are large numbers anxious to get the training imparted by the corps, but the distance from the headquarters and the want of easy accessibility will remain a great handicap and until that is overcome, the platoon has little chance of continued success."

21. *Employment of passed students*.—Of the 31 Engineer students who completed their practical course in 1924, the senior in the Civil branch was appointed to the permanent establishment of the Public Works Department as Assistant Engineer and 16 have reported employment as follows:—

Temporary Supervisor, Public Works Department	7
Assistant Engineer, His Exalted Highness the Nizam's Public Works Department	1
Temporary Supervisor, Irrigation Branch, His Exalted Highness the Nizam's Public Works Department	1
Temporary Supervisor, Pudukottah State	1
Chief Foreman, Corporation of Madras	1
Temporary Special Assistant Supervisor, Electrical Department, Corporation of Madras	1
Probationary Assistant Mechanical Engineer, Great Indian Peninsular Railway, Bombay	1
Temporary Assistant Engineer, Bengal-Nagpur Railway	1
Temporary Bridge Investigating Inspector, Villupuram-Trichinopoly chord line, South Indian Railway	1
Probationary Engineer, South Indian Railway	1

Forty-eight Upper Subordinates completed practical training. Reports have been received from 23 of them as having secured employment as under :—

Temporary Upper Subordinate, Public Works Department	1
Temporary Overseer, Hydro-Electric Survey, Public Works Department	1
Temporary Ghat Overseer, Revenue Department	1
Temporary Overseer, Military Engineering Service	1
Surveyor, Travancore Public Works Department	1
Temporary Foreman, Public Works Department	1
Temporary Overseer, His Exalted Highness the Nizam's Public Works Department	1
Local Fund Overseer	3
Local Fund Sub-Overseer	1
Probationary Drainage Overseer, Madras Corporation	1
Supervisor, Tinnevely Municipality	1
Temporary Estate Minor Irrigation Overseer	1
Temporary Supervisor, K. S. Dhaudy & Co., R.C. Engineers, Bombay.	1
Temporary Overseer, Goldenrock construction works, South Indian Railway	1
Temporary Overseer, Andhra Engineering Company	1
Temporary Overseer, Ramakrishna Residential High School Works, Madras	1
Special Work Assistant Inspector, South Indian Railway	1
Probationary Public Works Inspector, Madras and Southern Mahratta Railway	2
Probationary Public Works Inspector, South Indian Railway	1
Temporary Draughtsman, Madura Mills	1

Nine Lower Subordinate students completed the college course in 1924. Of these six reported to have secured employment as follows :—

Temporary Surveyor, Forest Department	1
Do. Draughtsman do.	1
Do. Sub-Overseer, South Indian Railway	1
Probationary Draughtsman, Madras and Southern Mahratta Railway.	1
Draughtsman, Nundidroog Gold Mines	1

22. *Library*.—During the year under report, 73 books were added to the library which now contains 7,233 volumes. The number of books issued to the staff and students was 1,151 and 5,943, respectively, and in addition 1,902 books were taken out for reference in the Reading Room.

23. *Attendance*.—The percentage of attendance to numbers on the rolls of college was 94.7. Detailed particulars for the several classes are given in Appendix E.

24. *Financial details*.—These are furnished in Appendices G and H. The receipts for 1924-25 amounted to Rs. 38,674-6-5, and the charges to Rs. 2,03,971-10-3, resulting in a net cost to Government of Rs. 1,65,297-3-10. The average number of students on rolls was 250.7 and the net cost per student Rs. 659-5-0, the increase in the net cost per student as compared with last year being due to sudden fall in the number of students owing to the transfer of the Probationary and Lower Subordinate classes in the college to the Schools of Engineering at Trichinopoly and Vizagapatam. These figures are subject to modification when particulars of further adjustments, if any, are communicated by the Accountant-General. An abstract of receipts and charges for the last five years is given in Appendix H.

25. *Service books*.—The service books of non-gazetted officers have been brought up to 31st March 1925 and verified.

26. *General remarks*.—I regret to record the death of Colonel Love who was the Principal of the College for about 28 years. The college was closed on 25th November 1924 in respect to his memory.

During the year the college was honoured by visits from His Excellency Viscount Goschen on 18th March 1925, and the Hon'ble Sir B. N. Sarma, Member of the Viceroy's Executive Council on the 2nd December 1924.

I have pleasure in acknowledging the very hearty co-operation of the members of the staff who have helped considerably in maintaining the smooth working of the college and hostel.

APPENDIX A.

Class.	Europeans and Eurasians.	Indian Christians.	Muham-madans.	Parsis.	Hindus.				Total.
					Brahmans.	Non-Brahmans.	Adi-Dravidas.	Others.	
Engineer classes ..	4	20	10	1	81	27	..	..	143
Upper Subordinate classes. ..	1	4	1	1	81	19	..	..	107
Total ..	5	24	11	2	162	46	..	..	250

APPENDIX B.

Districts.	Engineer classes.	Upper Subordinate classes.	Total.	Districts.	Engineer classes.	Upper Subordinate classes.	Total.
Ganjam ..	..	1	1	Tinnevely ..	12	6	18
Vizagapatam ..	1	5	6	Salem ..	..	..	..
Godavari ..	..	12	12	Coimbatore ..	1	1	2
Kistna ..	2	11	13	Nilgiris ..	..	..	..
Guntur ..	5	9	14	Malabar ..	9	11	20
Anantapur ..	1	..	1	South Kanara ..	10	3	13
Nellore ..	3	1	4	Pudukottah ..	1	..	1
Bellary ..	3	1	4	Coorg ..	..	1	1
Madras ..	9	2	11	Cochin ..	12	1	13
Chingleput ..	3	..	3	Travancore ..	17	3	20
North Arcot ..	5	1	6	Mysore ..	3	..	3
Chittoor ..	2	..	2	Bangalore ..	1	..	1
South Arcot ..	2	3	5	Hyderabad ..	12	..	12
Tanjore ..	16	20	36	Bombay ..	1	..	1
Trichinopoly ..	9	11	20				
Madura ..	3	2	5	Total ..	143	107	250
Ramnad ..	..	2	2				

APPENDIX C.

Class.	Wealth.			Total.	Occupation.							Total.
	Richer classes.	Middle classes.	Poorer classes.		Officials.	Petty officials.	Traders.	Land-holders.	Artisans.	Mendicants.	Others.	
Engineer class, 4th year division.	1	34	5	40	20	1	3	16	..	..	..	40
Engineer class, 3rd year division.	1	38	3	42	25	2	1	12	2	..	..	42
Engineer class, 2nd year division.	2	21	3	26	17	1	2	6	..	..	..	26
Engineer class, 1st year division.	2	31	2	35	21	2	2	10	..	..	..	35
Upper Subordinate class, 2nd year division.	..	67	22	89	24	13	3	49	..	..	..	89
Upper Subordinate class, 1st year division.	..	17	1	18	3	2	1	12	..	..	..	18
Total ..	6	208	36	250	110	21	12	105	2	..	..	250

APPENDIX D.

Percentage of marks gained in the Session 1923-24.

Engineer class—Fourth year division.

Civil—							
Branch I. Mathematics and Science	..	..	..	..	..	..	64.3
„ II. Engineering	..	..	..	..	..	..	63.6
Physical exercises	..	..	..	..	..	..	49.6
Average	..	..	..	..	..	..	63.0

Mechanical—

Branch I. Mathematics and Science	..	..	..	..	..	..	59.9
„ II. Engineering	..	..	..	..	..	..	65.6
Physical exercises	..	..	..	..	..	..	47.5
Average	..	..	..	..	..	..	63.6

Engineer class—Third year division.

Civil—							
Branch I. Mathematics and Science	..	..	..	..	..	..	61.6
„ II. Engineering	..	..	..	..	..	..	65.9
Physical exercises	..	..	..	..	..	..	56.8
Average	..	..	..	..	..	..	64.1

Mechanical—

Branch I. Mathematics and Science	..	..	..	..	..	..	58.9
„ II. Engineering	..	..	..	..	..	..	65.2
Physical exercises	..	..	..	..	..	..	57.6
Average	..	..	..	..	..	..	63.0

Engineer class—Second year division.

Branch I. Mathematics and Science	..	..	..	..	..	..	56.4
„ II. Engineering	..	..	..	..	..	..	64.4
Physical exercises	..	..	..	..	..	..	51.5
Average	..	..	..	..	..	..	60.4

Engineer class—First year division.

Branch I. Mathematics and Science	..	..	..	..	..	..	50.5
„ II. Engineering	..	..	..	..	..	..	64.8
Physical exercises	..	..	..	..	..	..	60.5
Average	..	..	..	..	..	..	58.5

Upper Subordinate class—Second year division.

Branch II. Engineering	..	..	..	..	..	..	59.9
Physical exercises	..	..	..	..	..	..	51.0
Average	..	..	..	..	..	..	59.5

Upper Subordinate class—First year division.

Branch I. Mathematics	..	..	..	..	..	..	58.6
„ II. Engineering	..	..	..	..	..	..	63.2
Physical exercises	..	..	..	..	..	..	44.9
Average	..	..	..	..	..	..	60.6

Lower Subordinate class.

Branch II. Engineering	..	..	..	..	..	..	62.7
Physical exercises	..	..	..	..	..	..	50.9
Average	..	..	..	..	..	..	61.6

Probationary Subordinate class—Second year division.

Branch I. Mathematics	..	..	..	..	..	..	59.5
„ II. Engineering	..	..	..	..	..	..	58.8
Physical exercises	..	..	..	..	..	..	67.9
Average	..	..	..	..	..	..	59.5

Probationary Subordinate class—First year division.

Branch I. Mathematics	..	..	..	..	..	..	49.7
„ II. Engineering	..	..	..	..	..	..	57.8
Physical exercises	..	..	..	..	..	..	60.3
Average	..	..	..	..	..	..	56.0

APPENDIX E.

Class.	Average number on rolls.	Average daily attendance.
Engineer class, First division	40.0	38.1
„ Second division	41.9	39.9
„ Third	26.1	25.3
„ Fourth	35.1	33.6
Upper Subordinate class—First division	89.0	83.5
„ Second division	18.6	17.1
Total	250.7	237.5

Percentage of numbers present to number on rolls 94.7

APPENDIX F.

Classification of vacancies notified during 1924-25.

	Government.				Local Boards and Municipalities.				Railways.				Native States.				Private Employees.				Total.
	Above Rs. 200.	Rs. 100-200.	Rs. 50-100.	Below Rs. 50.	Above Rs. 200.	Rs. 100-200.	Rs. 50-100.	Below Rs. 50.	Above Rs. 200.	Rs. 100-200.	Rs. 50-100.	Below Rs. 50.	Above Rs. 200.	Rs. 100-200.	Rs. 50-100.	Below Rs. 50.	Above Rs. 200.	Rs. 100-200.	Rs. 50-100.	Below Rs. 50.	
Engineers and Assistant Engineers.	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Supervisors	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	2
Overseers	..	..	..	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6
Sub-overseers	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Draftsmen	..	..	..	1	2	9	..	..	..	..	1	1	..	..	..	..	..	..	1	..	15
Tracers	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Surveyors	..	..	..	1	3	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	6
Total	..	3	13	9	..	..	1	..	..	..	1	1	..	..	..	..	..	..	3	..	31

APPENDIX G.

FINANCIAL DETAILS FOR 1924-25.

Receipts.		Rs.	A.	P.
Tuition, registration fees and fines	..	29,027	4	0
Hostel room rent	..	6,368	6	0
Electric installation rent	..	349	3	4
Electric lighting charges	..	1,172	8	0
Miscellaneous	..	1,757	1	1
Total	..	38,674	6	5

Charges.		RS.	A.	P.
Salaries—				
Principal		21,050	0	0
Professors in the Indian Educational Service and Instructor in Mechanical Engineering		40,615	0	0
Professors and other gazetted instructors in the Madras Educational and Engineering service		23,006	7	0
Assistant Instructors, masters and teachers		48,113	6	0
Accountant, Clerks, Librarian and servants		14,104	12	0
Travelling allowance of officers and establishment		3,143	5	0
Government scholarships		6,320	4	0
Library books, medals and prizes		1,000	0	1
Pay of gardeners and other menials		2,706	3	10
Workshop and Laboratory charges		35,223	1	1
Survey camp charges		1,483	3	0
Irrigation and other tour charges		2,113	2	6
Workshop premium		370	13	4
Printing of maps and diagrams		136	10	0
Office contingencies and games		4,585	6	5
Total		2,03,971	10	3
Net cost to Government		1,65,297	3	10
Average number of students on rolls.. .. .		250	7	0
Net cost per student		658	9	0
Average tuition fee paid by student per annum		115	10	0

APPENDIX H.

Comparative Financial details.

	1920-21.	1921-22.	1922-23.	1923-24.	1924-25.
	RS.	RS.	RS.	RS.	RS.
Receipts.. .. .	48,069	51,386	49,804	48,313	38,674
Charges	2,19,285	2,51,566	2,27,737	2,14,322	2,03,972
Net cost to Government	1,71,216	2,00,180	1,77,933	1,66,009	1,65,297
Average number of students on rolls	457	451	376	360	251
Net cost per student	375	444	473	461	659

R.O.P. No. 13-A-13/25-26, dated 30th April 1925.

Recorded.

2. During the year the Probationary and Lower Subordinate classes were abolished in the college and concentrated in the Engineering schools at Vizagapatam and Trichinopoly and there was a consequent decrease in the number on the rolls.

3. The results of the several examinations continued to be very satisfactory.

4. The Director congratulates the Principal and staff on another year of successful work.

R. G. GRIEVE,
Acting Director of Public Instruction.

To the Principal, College of Engineering, Guindy.
 „ Principals of all Government Colleges.
 „ all District Educational officers.
 „ the Superintendent, School of Arts, Madras.
 „ Superintendents, Schools of Engineering, Vizagapatam and Trichinopoly.
 „ the Director of Industries for information.
 „ the Chief Engineer, Public Works Department, for information.
 „ the Government, with covering letter.

Order—No. 1126, Law (Education), dated 30th June 1925.

Recorded.

(By order of the Government, Ministry of Education)

V. T. KRISHNAMA ACHARIYAR,
Secretary to Government.

To the Director of Public Instruction.
 „ Public Works Department.
 „ Accountant-General.
 Editors' Table.

FORT SAINT GEORGE

LAW (EDUCATION) DEPARTMENT

(Copy)

LETTER to the Under Secretary of State for India

No. 1126-A, dated the 30th June 1925

College—Engineering, Guindy—Report—1924-25—Forwarded to the Under Secretary of State for India.

LAW (EDUCATION) DEPARTMENT

LETTER—to

THE UNDER SECRETARY OF STATE FOR INDIA,
LONDON.

SIR,

With reference to 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, Guindy, during the academic year 1924-25.

I have the honour to be,

Sir,

Your most obedient servant,

V. T. KRISHNAMA ACHARIYAR,

Secretary to Government.

FORT ST. GEORGE,
30th June 1925.

Law(Education)

DEPARTMENT.

Received.....192 . Registered.....*L.E. 17790* 192

College of Engineering, Guindy- Annual Report

1924- 25- submitted-

ENCLOSURES.

No.

R.O.P. No. 13 A 13/25-26

Spare copies

Station Madras , Dated the 12- 6- 25 192From (Name) R. G. Grieve Esq., M.A.,(Designation) Ag. Director of Public Instruction,
Madras.

To The Secretary to the Government of Madras,

Law(Education)

Department.

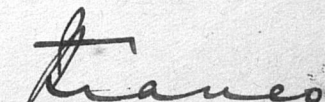
Sir,

I have the honour to submit herewith for the information of Government a copy of my Proceedings R.O.P.No.13-A-13/25-26 dated 30- 4- 25 reviewing the annual report of the College of Engineering, Guindy, for the year 1924- 25.

I have the honour to be,

S i r,

Your most obedient servant,


for Director of Public Instruction


A.R. 13/6/25

Proceedings of the Director of Public Instruction

R.O.P. No. 13-A-13/25-26, dated 30th April, 1925

SUBJECT.—Annual Report—College of Engineering, Guindy, for 1924-25—Reviewed.

READ—the following paper :—

Letter from C. L. CARTWRIGHT, Esq., A.M.INST.C.E., M.I.M.E., M.I.E.E. M.I.E. (Ind.), Principal, College of Engineering, Guindy, to the Director of Public Instruction, Madras, dated the 11th April 1925, No. C-1369/25.

I have the honour to submit the report on the working of the College of Engineering, Guindy, for the academic year 1924-25.

2. *Staff.*—Mr. W. H. James, the permanent Principal, having retired from service from 4th July 1924, I was confirmed as Principal of the College.

3. *Number on rolls.*—The number of students at the end of the academic year was 250 excluding those on practical course.

Class.	Practical course.	In college.				Total.
		Fourth year.	Third year.	Second year.	First year.	
Engineer class	47	(a) 46	(b) 42	(c) 26	(d) 35	190
Upper Subordinate class	64	..	..	89	18	171
Total ..	111	40	42	115	53	361

(a) One Electrical Engineering scholarship holder.
(b) Four Electrical Engineering scholarship holders.
(c) Three do. do.
(d) Two do. do.

The distribution of students by classes of community, district and occupation of parents or guardians is given in appendices A, B and C.

4. *Admission of students.*—The total number of applicants for admission to the Engineer class was 80 of which only 43 were from qualified students. As the number was below the number mentioned in rule 37 of the College rules, viz., 45, the members of the selection committee constituted in G.O. No. 636, Law (Education), dated 20th May 1922 agreed to my proposal that no meeting of the committee was necessary and the selection was made by me. From among those selected only 36 appeared for admission. Admissions into Probationary Subordinate class were made in the two Engineering schools at Vizagapatam and Trichinopoly as per G.O. Mis. No. 17, Law (Education), dated 4th January 1924. The draughtsman class was not formed for want of applicants for admission into that class.

5. *Examinations—Engineer class—Senior division.*—The civil branch comprised of 24 students and all passed the final examination, seven with honours with an average of 63 per cent of the total marks.

The mechanical branch consisted of 26 students. All passed the final examination, eight with honours gaining an average of 63·6 per cent of the total marks. Eight students of the class (five civil and three mechanical) failed to qualify in practical surveying.

Third year division.—The civil class was 20 students strong and there were 21 students in the Mechanical branch. All passed the sessional examination.

Second year division.—The strength of the class was 41 inclusive of three electrical scholarship holders and all appeared and passed the sessional examination with the exception of one who though prevented from appearing for the examination owing to illness was promoted in Proceedings L. Dis. No. 320 C of 24, dated 23th July 1924, of the Director of Public Instruction, Madras, to the next higher division on account of his high proficiency in the class. Of the successful candidates 30 joined the civil branch and the remaining the mechanical.

First year division.—All the 26 students of this class passed on in accordance with the college rules to the second year division of the course.

Upper Subordinate class—Senior division.—The strength of this class was 63 and all passed the final examination, six with honours gaining an average of 59·5 per cent of the total marks. Ten students of this class failed to qualify in practical surveying.

2
Second year division.—Ninety-seven students constituting this class appeared for the sessional examination and all passed with the exception of eight students who failed to secure the minimum required for a pass. Of the failures four rejoined the same class, two were permitted to join the Lower Subordinate class at Vizagapatam and two discontinued the studies.

Lower Subordinate class.—There were nine students in this class all of whom appeared and passed the examination. The average marks gained were 61.6 per cent. Three of them failed to qualify in practical surveying.

Probationary Subordinate class—Second year division.—This class was 19 strong. On the result of the common examination held for this class in the college and in the two Schools of Engineering 10 from the college, eight from the Engineering School at Trichinopoly and one from Vizagapatam were promoted to the Upper Subordinate class second year division of the college, and the remaining successful students, viz., 15 to the Lower Subordinate class at Trichinopoly and Vizagapatam. Of the eight from Trichinopoly promoted to the Upper Subordinate class only four joined the class and the remaining four preferred the Lower Subordinate course at the same school.

First year division.—All the 14 students of this division proceeded with the second year of study in accordance with the rules. Nine of these joined the School of Engineering, Trichinopoly, four, the Vizagapatam, and one discontinued his studies.

6. Results of the University Examinations of 1924 :—

	Number appeared.					Number passed according to the year of study.					Number passed according to branches of study.		
	Ex-students.	Fourth year study.	Third year study.	Second year study.	Total.	Ex-students.	Fourth year study.	Third year study.	Second year study.	Total.	Civil.	Mechanical.	Total.
B.E.	10	28	..	..	38	4	23	..	..	27	15	12	27
F.E.	6	17	27	41	91	2	4	12	9	27	..	..	..

7. *Practical training.*—Forty-eight Engineer (23 * civil and † 25 mechanical) and ‡ 64 Upper Subordinate students commenced the usual course of practical training about the beginning of July last.

The distribution list showing the various works and workshops they joined for the training is given in the following statement :—

Name of works.	Number of students of Engineer class Civil branch taking training.	Number of students of Engineer class Mechanical branch taking training.	Number of students of Upper Subordinate class taking training.	Total.
Public Works Division, Madras	6	..	56	62
Public Works Workshops, Madras	8	15	..	23
Do. Dowlaiswaram	1	1	..	2
Public Works Department, Travancore	5	..	2	7
Do. Workshops, Travancore	..	1	..	1
Public Works Department, Central Provinces	1	..	..	1
Do. Hyderabad State	1	..	..	1
Vizagapatam District Board	..	..	2	2
Salem Municipality	..	..	1	1
Pudukottah State	..	..	1	1
Cochin State	..	..	1	1
Madras and Southern Mahratta Railway works	1	..	1	2
Madras Harbour works	..	3	..	3
Bengal-Nagpur Railway Workshops	..	1	..	1
Andhra Valley Power Supply Company, Bombay	..	2	..	2
Massey and Company, Madras	..	1	..	1
Total	23	24	64	111

* Excludes one student who did not join for the course.

† Excludes two students who did not join for the course.

‡ Includes one student of last year who joined for practical course during this year.

8. *Visit to works.*—At about the beginning of October last, two parties of students proceeded on a tour of inspection of the irrigation works of the Godavari and Kistna deltas. One party consisting of 19 students of E. I Civil and 13 of E. II Mechanical were in charge of Dr. K. C. Chakko, Professor of Civil Engineering, assisted by Mr. Samuel Paul, Laboratory Assistant, while 55 students of U.S. I accompanied by two Assistant Instructors (Messrs. C. Kameswara Rao and Abdul Hakim Sahib) formed the other party. The first party after inspecting the Divi Pumping Station, proceeded to Bezwada for the inspection of Eastern and Western Delta Headworks, Kistna Bridge works, Orr's Hill Reservoir Waterworks and Workshops. They then proceeded to Dowlaiswaram where they visited the Eastern, Western and Central Delta Headworks and the Godavari Bridge works. The party returned to Madras on 14th October 1924 after inspecting the Sugar Factory at Samalkot, Paper Mills at Rajahmundry, West and East Tamileru Level-crossings and Waterworks and the Jute Mills at Ellore. The other party toured round in opposite direction and arrived at Madras on the 11th October 1924 after inspecting most of the works mentioned above with the exception of a few works around Dowlaiswaram. At about the same time two other parties were taken to the south for a tour round some of the works in the Cauvery Delta the one party consisting of E. II Civil and U.S. II in charge of Mr. M. Sanjeeva Rao, Instructor in Civil Engineering, accompanied by Mr. C. Rangaswami Ayyangar, Assistant Instructor and the remaining students of U.S. I who did not join the Godavari party numbering about 34 in charge of Mr. V. Sethu Sarma, Assistant Instructor, forming the second party. The first party after inspecting the Waterworks, Service Reservoir and Puthur weir at Trichinopoly proceeded to Elamanur for the inspection of Upper Anicut, Ayyan, Peruvilai and Wycondan heads, gauging operations and recorder station at the nose of Srirangam island inspecting on the way the breach-closing works at Murungapet. They then proceeded to Grand Anicut and inspected the breach-closing works at Uttamasheri and Kilikoodu, the Grand Anicut, Cauvery and Vennar regulators and returned to Madras on 13th October 1924 via Trichinopoly Fort, inspecting on the way the Minakshi College Buildings and Shatiatope Anicut at Chidambaram.

The other party were conducted round in the opposite direction.

The students of the final year Mechanical Engineer class were taken by Mr. P. Subba Rao, Acting Professor of Electrical Engineering, on a tour of inspection extending over a week to Mysore. The party after inspecting the Iron works at Bhadravati proceeded to Kolar Gold Field for the inspection of receiving station, Champion Reef and Oregaum mines and the underground plant, etc. After inspecting the Kannanbadi Dam and other connected works on the way they were taken to Bluff where they inspected the Forebay, Old and New Transformer Stations, Powerhouse, etc. Then they returned to Madras after inspection of the reinforced concrete works of the railway and General Engineering Company, City Sub-Station, Woollen Mills, Sandal Oil Factory, Mysore Metal Factory and the Indian Institute of Science, Bangalore. The party were kindly received and given every facility at all places by the authorities in charge. The total number of students who took part in these tours was 176 and the total expenditure Rs. 1,809-10-9.

During the session visits were paid as usual to all important local Engineering Works.

9. *Survey Camp*—The idea of having a project course for the senior Civil Engineer students was brought up early in the session by the Director of Public Instruction, since practically the whole of the capital outlay on tents could be saved by utilizing certain surplus tents from the Public Works Department. The scheme had however to be abandoned as Government did not provide the money for the recurring expenditure. Accordingly the survey camp, 1925, was held on similar lines to those in previous years. Owing to its accessibility and its accommodation for the students, Pallavaram was again chosen as the site of the camp. As the allotment of funds for camp is decreasing gradually, the junior class of Engineers worked at Guindy for the whole period, and the second and third year students also worked in Guindy after a fortnight in Pallavaram. Further, the camp period was

It has been proposed to allot funds for the project course

restricted to three weeks (January 6th to 24th) which included two holidays owing to Pongal. The Upper Subordinate classes of both years worked throughout in Pallavaram. The party in Pallavaram was under the supervision of the Professor of Civil Engineering assisted by the Instructor in Surveying and seven assistant instructors. The party in Guindy was under the immediate supervision of the Instructor in Civil Engineering with the help of Assistant Instructors and other members of the college staff.

In Pallavaram the party during the first two weeks made a detailed survey of the area from the railway line to the river Adyar about nine square miles in extent. During the last week they were given practice in curve ranging heights and distances, use of new instruments, etc.

The party at Guindy made chain, compass and plane table surveys of Teachers' College, Adyar Club, and the Engineering College compounds.

Field work was from 6-45 to 10-30 a.m. and 3 to 4-30 p.m. The afternoons were devoted to office work instead of field work whenever it was found necessary.

As recommended last year, the students were made to live in Pallavaram during the whole period of camp. The experiment has been a great success. The quality and quantity of the work turned out were better than in previous years.

This year also the weather conditions were nearly perfect. There was no case of illness in camp and the work of the students was entirely satisfactory.

Thanks are due to the Garrison Engineer for kindly placing at the disposal of the college a number of barracks for staff and students at Pallavaram.

It is necessary also to record that the students' mess was looked after by Mr. A. R. Sabapathi Ayyar of the hostel staff and under his management and the co-operation of the hostel manager at Guindy, the hostel at Pallavaram was run very successfully.

Although the Probationary Subordinate classes have been removed from Guindy, the strength of U.S. I class being nearly 90, the number of students to be looked after continued to be large and the members of staff to look after them were few. In order to make the supervision work easier than heretofore, instructors were put in charge of different districts instead of different classes; but in spite of this the task was by no means easy and credit must be given to them for conscientiously discharging their often arduous work.

127 students attended camp at Pallavaram for three weeks.

57 students attended camp at Pallavaram for two weeks, and at Guindy for one week.

35 students attended camp at Guindy for three weeks.

The cost to Government for the camp is Rs. 1,483-3-0.

10. *Power-house*.—During the year under report the supply of power was very satisfactory. There was hardly any interruption of service.

The current consumption compared with that of last year showed a slight fall due to diminished consumption in the hostel caused by a decrease in the number of students. The latter more than offset the increased consumption in other direction, such as workshops and laboratories.

The cost per unit has fallen slightly. The alternating current supply was started and the direct current motors in the workshops and laboratories were replaced by A.C. motors. Arrangements were also made to give A.C. supply to the Electrical Engineering Laboratory for experimental work.

The Petter engine which is the prime-mover as regards our power-supply continued to give every satisfaction.

The three steam sets were not used for power-supply at all but kept ready as a stand-by in case of failure of the Petter engine. They were used twice by the Mechanical Engineering Laboratory for experimental work for the senior Engineer class.

The Campbell engine was put in regular operation to drive 50 K.W.A.C. and 16 K.W., D.C. generators. Its working cannot yet be said to be entirely satisfactory. The makers have recently suggested certain improvements and the effect of these are now being tried. The engine at present is working on two cylinders (out of

the four) as one of the cylinder heads cracked while the engine was running, when the Campbell Company's expert was putting the engine in order. Due to the rather poor load it has to deal with at present, its running is found expensive and has therefore to be restricted to a few hours run per day.

A 16 K.W., D.C. machine was brought into commission to work as either a motor to drive the A.C. generator or to work as a generator when the Campbell engine is running.

The erection of the 25 K.W. gas engine set with its producer is very nearly complete. The set is expected to be put into regular service by the time the college re-opens in July.

The experimental steam engine was put to use by Mechanical Engineering Laboratory for experimental work for the senior class.

The pumping station at Saidapet was taken over this year from the Public Works Department. The Public Works Department has not yet replaced the temporary 440 volt D.C. motor supplied by the college for driving the pumps.

Scarcity of water was experienced throughout the year, except immediately after the rains.

Training in running the plant was given as usual to the Engineer students on practical course. The help given by these students has been considerable.

Up to September 16th, 1924, the work of superintending the power-house was done by Mr. M. K. Ranganatham, Professor of Mechanical Engineering. On his transfer from the college Mr. Sukumaran was put in charge with effect from 1st October 1924.

The necessity of a Power Station Superintendent who is a full-timed man (unlike the present Superintendent in charge) was increasingly felt, so as to ensure the reliability, economy and safety of operation of the power-house.

11. *Electrical Engineering Laboratory*.—The Professor of Electrical Engineering reports as follows:—

"The Workshops attached to the Electrical Engineering Laboratory is being run temporarily by two independent motors for carrying on the fitting work connected with the department.

A temporary fitter has been engaged and we are making a real beginning in the construction of rheostats, switches and other electrical appliances for the supply of which we usually depend on outside agency. This has resulted in economy and swiftness in the execution of work.

The mounting of instruments and other fittings on the central switchboards is being attended to and arrangements have been made for the supply of alternate current to the workshops and other laboratories in case of breakdown of power-house supply.

Systematic electrical engineering testing has been very satisfactorily conducted during the session."

12. *Mechanical Engineering Laboratory*.—The Acting Professor of Mechanical Engineering reports:—

"The equipment in the laboratory is the same as before and until this is fully provided for, it is difficult to find a sufficient variety of work to keep a number of batches of students engaged in the work without crowding. The time at our disposal was fully employed, however during the year, although if the equipment had been complete, we could have got each individual student or in batches not exceeding three to perform any experiment individually.

During the year the following apparatus were set up and brought into use:—

- (1) Simmons Abady Modification of Junker's Gas Calorimeter.
- (2) Rosentien's Modifications of Lewis Thomson's Calorimeter.
- (3) Electric Muffle furnace for coal-testing (moisture, volatile constituents' and ash.)
- (4) Shore Pyroscope—Optical Pyrometer."

13. *Strength of Materials Laboratory*.—A brinell hardness testing machine made by W. and T. Avery, Limited, was added to the equipment during the year.

Tests for tension, compression, shear, bending, impact and hardness were arranged in a systematic manner for the instruction of students, who carried them out and recorded the results. The tests made here on behalf of the Public Works Department and other departments and firms were, though varied not so numerous as in the previous year.

We have made a beginning in the matter of preliminary tests of timbers proposed to be used as sleepers, in accordance with the instructions of the Forest Economist of the Forest Research Institute, Dehra Dun; the specimens being supplied by the Forest Department at the instance of that officer. The results required are those relating to tests in pulling spikes, hardness and compression perpendicular to the grain. It is hoped that considerable work in this line will be turned out next year.

14. *Hydraulic Engineering Laboratory*.—As sufficient funds were not forthcoming, it has not been possible to fit up the laboratory for experimental work yet. Some of the machinery has been erected and an underground tank built. It should be possible to make use of the laboratory for some experimental work during the academical year 1925-26.

15. *Science Laboratory*.—It has not been possible during the year owing to shortage of funds to effect the full equipment of the laboratories to enable the students to carry out all necessary tests in Applied Science. Notwithstanding, considerable amount of work has been done.

It is to be regretted also that funds were not available for taking students on excursions to centres of chemical engineering such as Ranipet and Bhadravati.

16. *Workshops*.—No new machine was purchased; a small vertical milling machine belonging to the School of Engineering, Trichinopoly, was exchanged for a horizontal milling machine from the college shops. Alternate current motors were substituted for the previous direct current motor drives.

17. *Hostel*.—A committee consisting of three of the Professors was introduced to advise the Principal on the internal affairs of the hostel.

18. *Hospital*.—No less than three changes were made in the appointment of Sub-Assistant Surgeons. Mr. Perumal Razu, replaced Mr. P. Balasundaram Pillai. He in turn was replaced by Mr. B. K. Shenai and the appointment is now held by Mr. A. Govindakutti Nayar. The total number of patients treated during the year was 2,569 with a daily average of 18.05. These were practically all out-patients with the exception of 26 who had to be treated as in-patients. Two cases of small-pox occurred, but the disease was stamped out by prompt measures.

19. *Athletic Club*.—Mr. W. C. Old reports :—

"*Inter-collegiate sports and games*.—It is with deep regret that I have to report that the M.C.A.A. did not arrange this year for any inter-collegiate matches in hockey, football, cricket or tennis, nor for the annual sports meeting, thus depriving our students of the benefits of the only sort of inter-collegiate activities that they have been enjoying all these years.

Tennis.—There were not sufficient numbers this year and therefore only five courts were run; most of the students are still under the impression that tennis is a cheap game.

College sports.—Sports were held this year on the 13th February in connexion with the celebration of the 'College Day' when Sir A. P. Patro, Minister for Education and Public Works presided.

His Excellency Lord Willingdon's prize was again won by Mr. P. Kumaran of the Upper Subordinate class.

Inter-class matches.—They were keenly contested this year and never before have I seen such enthusiasm in these matches. Engineer class first division won football and hockey and Engineer class second division cricket.

General.—Some allotment is always necessary annually for the up-keep of the sporting grounds. The gymnastic apparatus is still too poor."

20. *University Training Corps*.—Dr. K. C. Chakko reports :—

"Sixteen final year students having left the college their places were open for recruits. There was an eagerness to join the corps among the students and the places were easily filled. From the trained men selected squads took part in the Naval and Military tournament and in the Field Day at Tambaram. The Raja Varma Cup which we held for the last two years was lost this year although after a keen contest. Owing to the large proportion of recruits who have not done arms drill, no parade for Guard of Honour was held at the college.

There was a falling off in the attendance at the last Bangalore Camp in May-June. The platoon with the rest of the battalion took part in the King's Birth Day parade by lining the parade ground.

The senior non-commissioned officers have continued to do very useful work often at great inconvenience to themselves.

There are large numbers anxious to get the training imparted by the corps, but the distance from the headquarters and the want of easy accessibility will remain a great handicap and until that is overcome, the platoon has little chance of continued success."

21. *Employment of passed students*.—Of the 31 Engineer students who completed their practical course in 1924 the senior in the Civil branch was appointed to the permanent establishment of the Public Works Department as Assistant Engineer and 16 have reported employment as follows :—

Temporary Supervisor, Public Works Department	7
Assistant Engineer, His Exalted Highness the Nizam's Public Works Department	1
Temporary Supervisor, Irrigation Branch, His Exalted Highness the Nizam's Public Works Department	1
Temporary Supervisor, Pudukottah State	1
Chief Foreman, Corporation of Madras	1
Temporary Special Assistant Supervisor, Electrical Department, Corporation of Madras	1
Probationary Assistant Mechanical Engineer, Great Indian Peninsular Railway, Bombay	1
Temporary Assistant Engineer, Bengal-Nagpur Railway	1
Temporary Bridge Investigating Inspector, Villupuram-Trichinopoly chord line, South Indian Railway	1
Probationary Engineer, South Indian Railway	1

Forty-eight Upper Subordinates completed practical training. Reports have been received for 23 of them having secured employments as under :—

Temporary Upper Subordinate, Public Works Department	1
Temporary Overseer, Hydro-Electric Survey, Public Works Department	1
Temporary Ghat Overseer, Revenue Department	1
Temporary Overseer, Military Engineering Service	1
Surveyor, Travancore Public Works Department	1
Temporary Foreman, Public Works Department	1
Temporary Overseer, His Exalted Highness the Nizam's Public Works Department	1
Local Fund Overseer	3
Local Fund Sub-Overseer	1
Probationary Drainage Overseer, Madras Corporation	1
Supervisor, Tinnevely Municipality	1
Temporary Estate Minor Irrigation Overseer	1
Temporary Supervisor, K. S. Dhaudy & Co., R.C. Engineers, Bombay.	1
Temporary Overseer, Goldenrock construction works, South Indian Railway	1
Temporary Overseer, Andhra Engineering Company	1
Temporary Overseer, Ramakrishna Residential High School Works, Madras	1
Special Work Assistant Inspector, South Indian Railway	1

Mechanical—

Branch I. Mathematics and Science	59.9
„ II. Engineering	65.6
Physical exercises	47.5
Average ..	63.6

Engineer class—Third year division.

Civil—

Branch I. Mathematics and Science	61.6
„ II. Engineering	65.9
Physical exercises	56.8
Average ..	64.1

Mechanical—

Branch I. Mathematics and Science	58.9
„ II. Engineering	65.2
Physical exercises	57.6
Average ..	63.0

Engineer class—Second year division.

Branch I. Mathematics and Science	56.4
„ II. Engineering	64.4
Physical exercises	51.5
Average ..	60.4

Engineer class—First year division.

Branch I. Mathematics and Science	50.5
„ II. Engineering	6.8
Physical exercises	60.5
Average ..	58.5

Upper Subordinate class—Second year division.

Branch II. Engineering	59.9
Physical exercises	51.0
Average ..	59.5

Upper Subordinate class—First year division.

Branch I. Mathematics	58.6
„ II. Engineering	63.2
Physical exercises	44.9
Average ..	60.6

Lower Subordinate class.

Branch II. Engineering	62.7
Physical exercises	50.9
Average ..	61.6

Probationary Subordinate class—Second year division.

Branch I. Mathematics	59.5
„ II. Engineering	58.8
Physical exercises	67.9
Average ..	59.5

Probationary Subordinate class—First year division.

Branch I. Mathematics	49.7
„ II. Engineering	57.8
Physical exercises	60.3
Average ..	56.0

APPENDIX E.

Class.	Average number on rolls.	Average daily attendance.
Engineer class, First division	40.0	38.1
„ Second division	41.9	39.9
„ Third „	26.1	25.3
„ Fourth „	35.1	33.6
Upper Subordinate class—First division	89.0	83.5
„ Second division	18.6	17.1
Total ..	250.7	237.5

Percentage of numbers present to number on rolls 94.7

APPENDIX F.

Classification of vacancies notified during 1924-25.

	Government.				Local Boards and Municipalities.				Railways.				Native States.				Private Employees.				Total.
	Above Rs. 200.	Rs. 100-200.	Rs. 50-100.	Below Rs. 50.	Above Rs. 200.	Rs. 100-200.	Rs. 50-100.	Below Rs. 50.	Above Rs. 200.	Rs. 100-200.	Rs. 50-100.	Below Rs. 50.	Above Rs. 200.	Rs. 100-200.	Rs. 50-100.	Below Rs. 50.	Above Rs. 200.	Rs. 100-200.	Rs. 50-100.	Below Rs. 50.	
Engineers and Assistant Engineers.	1																				1
Supervisors			1				1														2
Overseers			6																		6
Sub-overseers			1																		1
Draftmen			1	2	9						1	1							1		15
Tracers																					
Surveyors			1	3															2		6
Total	3	13	9			1				1	1							3			31

APPENDIX G.

FINANCIAL DETAILS FOR 1924-25.

	Rs.	A.	P.
Tuition, registration fees and fines	29,027	4	0
Hostel room rent	6,368	6	0
Electric installation rent	349	3	4
Electric lighting charges	1,172	8	0
Miscellaneous	1,757	1	1
Total ..	38,674	6	5

Salaries—

	RS.	A.	P.
<i>Salaries—</i>			
Principal	21,050	0	0
Professors in the Indian Educational Service and Instructor in Mechanical Engineering	40,615	0	0
Professors and other gazetted instructors in the Madras Educational and Engineering service	23,006	7	0
Assistant Instructors, masters and teachers	48,113	6	0
Accountant, Clerks, Librarian and servants	14,104	12	0
Travelling allowance of officers and establishment	3,143	5	0
Government scholarships	6,320	4	0
Library books, medals and prizes	1,000	0	1
Pay of gardeners and other menials	2,706	3	10
Workshop and Laboratory charges	35,223	1	1
Survey camp charges	1,483	3	0
Irrigation and other tour charges	2,113	2	6
Workshop premium	370	13	4
Printing of maps and diagrams	136	10	0
Office contingencies and games	4,585	6	5
Total	2,03,971	10	3
Net cost to Government	1,65,297	3	10
Average number of students on rolls	250	7	0
Net cost per student	658	9	0
Average tuition fee paid by student per annum	115	10	0

APPENDIX H.

Comparative Financial details.

	1920-21	1921-22	1922-23	1923-24	1924-25.
	RS.	RS.	RS.	RS.	RS.
Receipts.. .. .	48,069	51,386	49,804	48,313	38,674
Charges	2,19,285	2,51,566	2,27,737	2,14,322	2,03,973
Net cost to Government	1,71,216	2,00,180	1,77,933	1,66,009	1,65,297
Average number of students on rolls	457	451	376	360	251
Net cost per student	375	444	473	461	669

R.O.P. No. 13-A-13/25-26, dated 30th April 1925.

Recorded.

2. During the year the Probationary and Lower Subordinate classes were abolished in the college and concentrated in the Engineering schools at Vizagapatam and Trichinopoly and there was a consequent decrease in the number on the rolls.

3. The results of the several examinations continued to be very satisfactory.

4. The Director congratulates the Principal and staff on another year of successful work.

R. G. GRIEVE,
Acting Director of Public Instruction.

To the Principal, College of Engineering, Guindy.
 „ Principals of all Government Colleges.
 „ all District Educational officers.
 „ the Superintendent, School of Arts, Madras.
 „ Superintendents, Schools of Engineering, Vizagapatam and Trichinopoly.
 „ the Director of Industries for information.
 „ the Chief Engineer, Public Works Department, for information.
 „ the Government, with covering letter.

for *Director of Public Instruction.*

Seot. II-5 (a)—28,703—6-12-24. (6)

	Date.	Initials.
When received for Fair-copying.		
When copied . .		
When examined . .		
When signed . .		
When despatched . .		

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

" " " " "

192

READ ALSO :—

C. No. 1779 From the O.P.I. R.O.P., No. 13 A-12 dated 12-6-1925
25-26

” ” ” ” ” ” ” 192

” ” ” ” ” ” ” 192

ORDER.

Pres

No. 1126, dated 30-6- 1925

Recorded

The D.P. ?

.. P. W. D.

.. AS.

E. T.

ma

Letter

Pres

25/6/45
It is encouraging to students & the
College to note that many of those
passed by the College are able
to be employed by the local
public & private corporations.

Sir,

With reference to 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, Guindy,
during the academic year 1924-25.

I have etc,

17.6.25
18.6.25
20/6/25
V.T.K.
22.6



NOTE. Last year's report was
recorded in G.O. No. 1565 & 8-10-24.

Government of Madras

LAW (EDUCATION) DEPARTMENT

G.O. No. 1126, 30th June 1925

College—Engineering—Guindy—Annual report—1924-25—Recorded.

Read—the following paper:—

Letter from R. G. GRIEVE, Esq., M.A., Acting Director of Public Instruction, to the Secretary to Government, Law (Education) Department, dated Madras, the 12th June 1925, R.O.P. No. 13-A-13/25-26.

I have the honour to submit herewith for the information of Government a copy of my Proceedings R.O.P. No. 13-A-13/25-26, dated 30th April 1925, reviewing the annual report of the College of Engineering, Guindy, for the year 1924-25.

ENCLOSURE

Proceedings of the Director of Public Instruction, R.O.P. No. 13-A-13/25-26, dated 30th April 1925.

Read—the following paper:—

Letter from C. L. CARTWRIGHT, Esq., A.M.I.N.T.C.E., M.I.M.E., M.I.E.E., M.I.P. (Ind), Principal, College of Engineering, Guindy, to the Director of Public Instruction, Madras, dated the 11th April 1925, No. C-1369/25.

I have the honour to submit the report on the working of the College of Engineering, Guindy, for the academic year 1924-25.

2. Staff.—Mr. W. H. James, the permanent Principal, having retired from service from 4th July 1924, I was confirmed as Principal of the College.

3. Number on rolls.—The number of students at the end of the academic year was 250 excluding those on practical course.

Class.	Practical course.	In college.				Total.
		Fourth year.	Third year.	Second year.	First year.	
Engineer class	47	(a) 40	(b) 42	(c) 26	(d) 35	140
Upper Subordinate class	64			89	18	107
Total	111	40	42	115	53	240

- (a) One Electrical Engineering scholarship holder.
- (b) Four Electrical Engineering scholarship holders.
- (c) Three do. do.
- (d) Two do. do.

The distribution of students by classes of community, district and occupation of parents or guardians is given in appendices A, B and C.

4. Admission of students.—The total number of applicants for admission to the Engineer class was 80 of which only 43 were from qualified students. As the number was below the number mentioned in rule 37 of the College rules, viz., 45, the members of the selection committee constituted in G.O. No. 636, Law (Education), dated 20th May 1922, agreed to my proposal that no meeting of the committee was necessary and the selection was made by me. From among those selected only 36 appeared for admission. Admissions into Probationary Subordinate class were made in the two Engineering schools at Vizagapatam and Trichinopoly as per G.O. No. 17, Law (Education), dated 4th January 1924. The draughtsman class was not formed for want of applicants for admission into that class.

5. *Examinations—Engineer class—Senior division.*—The civil branch comprised of 24 students and all passed the final examination, seven with honours with an average of 63 per cent of the total marks.

The mechanical branch consisted of 26 students. All passed the final examination, eight with honours gaining an average of 63.6 per cent of the total marks. Eight students of the class (five civil and three mechanical) failed to qualify in practical surveying.

Third year division.—The civil class was 20 students strong and there were 21 students in the Mechanical branch. All passed the sessional examination.

Second year division.—The strength of the class was 41 inclusive of three electrical scholarship holders and all appeared and passed the sessional examination with the exception of one who though prevented from appearing for the examination owing to illness was promoted in Proceedings L. Dis. No. 2320 C of 24, dated 28th July 1924, of the Director of Public Instruction, Madras, to the next higher division on account of his high proficiency in the class. Of the successful candidates 30 joined the civil branch and the remaining the mechanical.

First year division.—All the 26 students of this class passed on in accordance with the college rules to the second year division of the course.

Upper Subordinate class—Senior division.—The strength of this class was 63 and all passed the final examination, six with honours gaining an average of 59.5 per cent of the total marks. Ten students of this class failed to qualify in practical surveying.

Second year division.—Ninety-seven students constituting this class appeared for the sessional examination and all passed with the exception of eight students who failed to secure the minimum required for a pass. Of the failures four rejoined the same class, two were permitted to join the Lower Subordinate class at Vizagapatam and two discontinued the studies.

Lower Subordinate class.—There were nine students in this class all of whom appeared and passed the examination. The average marks gained were 61.6 per cent. Three of them failed to qualify in practical surveying.

Probationary Subordinate class—Second year division.—This class was 19 strong. On the result of the common examination held for this class in the college and in the two Schools of Engineering 10 from the college, eight from the Engineering School at Trichinopoly and one from Vizagapatam were promoted to the Upper Subordinate class second year division of the college, and the remaining successful students, viz., 15 to the Lower Subordinate class at Trichinopoly and Vizagapatam. Of the eight from Trichinopoly promoted to the Upper Subordinate class only four joined the class and the remaining four preferred the Lower Subordinate course at the same school.

First year division.—All the 14 students of this division proceeded with the second year of study in accordance with the rules. Nine of these joined the School of Engineering, Trichinopoly, four, the Vizagapatam, and one discontinued his studies.

6. Results of the University Examinations of 1924 :—

	Number appeared.					Number passed according to the year of study.					Number passed according to branches of study.		
	Ex-students.	Fourth year study.	Third year study.	Second year study.	Total.	Ex-students.	Fourth year study.	Third year study.	Second year study.	Total.	Civil.	Mechanical.	Total.
B.E.	10	28	27	41	36	4	23	12	9	27	15	12	27
F.E.	6	17	27	41	91	2	4	12	9	27	..	..	..

7. *Practical training.*—Forty-eight Engineer (23 * civil and † 25 mechanical) and ‡ 64 Upper Subordinate students commenced the usual course of practical training about the beginning of July last.

* Excludes one student who did not join for the course.

† Excludes two students who did not join for the course.

‡ Includes one student of last year who joined for practical course during this year.

The distribution list showing the various works and workshops they joined for the training is given in the following statement :—

Name of works.	Number of students of Engineer class Civil branch taking training.	Number of students of Engineer class Mechanical branch taking training.	Number of students of Upper Subordinate class taking training.	Total.
Public Works Division, Madras	6	..	56	62
Public Works Work-shops, Madras	8	15	..	23
Do. Dowlaishwaram	1	1	..	2
Public Works Department, Travancore	5	..	2	7
Do. Workshops, Travancore	..	1	..	1
Public Works Department, Central Provinces	1	..	..	1
Do. Hyderabad State	1	..	..	1
Vizagapatam District Board	..	..	2	2
Salem Municipality	..	..	1	1
Pudukottah State	..	..	1	1
Cochin State	..	..	1	1
Madras and Southern Mahratta Railway works	1	..	1	2
Madras Harbour works	..	3	..	3
Bengal-Nagpur Railway Workshops	..	1	..	1
Andhra Valley Power Supply Company, Bombay	..	2	..	2
Massey and Company, Madras	..	1	..	1
Total	23	21	64	111

8. *Visit to works.*—At about the beginning of October last, two parties of students proceeded on a tour of inspection of the irrigation works of the Godavari and Kistna deltas. One party consisting of 19 students of E. I Civil and 13 of E. II Mechanical were in charge of Dr. K. C. Chakko, Professor of Civil Engineering, assisted by Mr. Samuel Paul, Laboratory Assistant, while 55 students of U.S. I accompanied by two Assistant Instructors (Messrs. C. Kameswara Rao and Abdul Hakim Sahib) formed the other party. The first party after inspecting the Divi Pumping Station, proceeded to Bezvada for the inspection of Eastern and Western Delta Headworks, Kistna Bridge works, Orr's Hill Reservoir Waterworks and Workshops. They then proceeded to Dowlaishwaram where they visited the Eastern, Western and Central Delta Headworks and the Godavari Bridge works. The party returned to Madras on 14th October 1924 after inspecting the Sugar Factory at Samalkot, Paper Mills at Rajahmundry, West and East Tamileru Level-crossings and Waterworks and the Jute Mills at Ellore. The other party toured round in opposite direction and arrived at Madras on the 11th October 1924 after inspecting most of the works mentioned above with the exception of a few works around Dowlaishwaram. At about the same time two other parties were taken to the south for a tour round some of the works in the Cauvery Delta the one party consisting of E. II Civil and U.S. II in charge of Mr. M. Sanjeeva Rao, Instructor in Civil Engineering, accompanied by Mr. C. Rangaswami Ayyangar, Assistant Instructor and the remaining students of U.S. I who did not join the Godavari party numbering about 34 in charge of Mr. V. Sethu Sarma, Assistant Instructor, forming the second party. The first party after inspecting the Waterworks, Service Reservoir and Puthur weir at Trichinopoly proceeded to Elamanur for the inspection of Upper Anicut, Ayyan, Peruvilai and Wycondan heads, gauging operations and recorder station at the nose of Srirangam island inspecting on the way the breach-closing works at Murungapet. They then proceeded to Grand Anicut and inspected the breach-closing works at Uttamasheri and Kilikoodu, the Grand Anicut, Cauvery and Vennar regulators and returned to Madras on 13th October 1924 via Trichinopoly Fort, inspecting on the way the Minakshi College Buildings and Shatiatope Anicut at Chidambaram.

The other party were conducted round in the opposite direction.

The students of the final year Mechanical Engineer class were taken by Mr. P. Subba Rao, Acting Professor of Electrical Engineering, on a tour of inspection extending over a week to Mysore. The party after inspecting the Iron works, at Bhadravati proceeded to Kolar Gold Field for the inspection of receiving station, Champion Reef and Oregam mines and the underground plant, etc. After inspecting the Kannanbadi Dam and other connected works on the way they were taken to

Bluff where they inspected the Forebay, Old and New Transformer Stations, Power-house, etc. Then they returned to Madras after inspection of the reinforced concrete works of the railway and General Engineering Company, City Sub-Station, Woollen Mills, Sandal Oil Factory, Mysore Metal Factory and the Indian Institute of Science, Bangalore. The party were kindly received and given every facility at all places by the authorities in charge. The total number of students who took part in these tours was 176 and the total expenditure Rs. 1,809-10-9.

During the session visits were paid as usual to all important local Engineering Works.

9. *Survey Camp*—The idea of having a project course for the senior Civil Engineer students was brought up early in the session by the Director of Public Instruction, since practically the whole of the capital outlay on tents could be saved by utilizing certain surplus tents from the Public Works Department. The scheme had however to be abandoned as Government did not provide the money for the recurring expenditure. Accordingly the survey camp, 1925, was held on similar lines to those in previous years. Owing to its accessibility and its accommodation for the students, Pallavaram was again chosen as the site of the camp. As the allotment of funds for camp is decreasing gradually, the junior class of Engineers worked at Guindy for the whole period, and the second and third year students also worked in Guindy after a fortnight in Pallavaram. Further, the camp period was restricted to three weeks (January 6th to 24th) which included two holidays owing to Pongal. The Upper Subordinate classes of both years worked throughout in Pallavaram. The party in Pallavaram was under the supervision of the Professor of Civil Engineering assisted by the Instructor in Surveying and seven assistant instructors. The party in Guindy was under the immediate supervision of the Instructor in Civil Engineering with the help of Assistant Instructors and other members of the college staff.

In Pallavaram the party during the first two weeks made a detailed survey of the area from the railway line to the river Adyar about nine square miles in extent. During the last week they were given practice in curve ranging heights and distances, use of new instruments, etc.

The party at Guindy made chain, compass and plane table surveys of Teachers' College, Adyar Club, and the Engineering College compounds.

Field work was from 6-45 to 10-30 a.m. and 3 to 4-30 p.m. The afternoons were devoted to office work instead of field work whenever it was found necessary.

As recommended last year, the students were made to live in Pallavaram during the whole period of camp. The experiment has been a great success. The quality and quantity of the work turned out were better than in previous years.

This year also the weather conditions were nearly perfect. There was no case of illness in camp and the work of the students was entirely satisfactory.

Thanks are due to the Garrison Engineer for kindly placing at the disposal of the college a number of barracks for staff and students at Pallavaram.

It is necessary also to record that the students' mess was looked after by Mr. A. R. Sabapathi Ayyar of the hostel staff and under his management and the co-operation of the hostel manager at Guindy, the hostel at Pallavaram was run very successfully.

Although the Probationary Subordinate classes have been removed from Guindy, the strength of U.S. I class being nearly 90, the number of students to be looked after continued to be large and the members of staff to look after them were few. In order to make the supervision work easier than heretofore, instructors were put in charge of different districts instead of different classes; but in spite of this the task was by no means easy and credit must be given to them for conscientiously discharging their often arduous work.

127 students attended camp at Pallavaram for three weeks.

57 students attended camp at Pallavaram for two weeks, and at Guindy for one week.

35 students attended camp at Guindy for three weeks.

The cost to Government for the camp is Rs. 1,483-3-0.

10. *Power-house*.—During the year under report the supply of power was very satisfactory. There was hardly any interruption of service.

The current consumption compared with that of last year showed a slight fall due to diminished consumption in the hostel caused by a decrease in the number of students. The latter more than offset the increased consumption in other direction, such as workshops and laboratories.

The cost per unit has fallen slightly. The alternating current supply was started and the direct current motors in the workshops and laboratories were replaced by A.C. motors. Arrangements were also made to give A.C. supply to the Electrical Engineering Laboratory for experimental work.

The Petter engine which is the prime-mover as regards our power-supply continued to give every satisfaction.

The three steam sets were not used for power-supply at all but kept ready as a stand-by in case of failure of the Petter engine. They were used twice by the Mechanical Engineering Laboratory for experimental work for the senior Engineer class.

The Campbell engine was put in regular operation to drive 50 K.W.A.C. and 16 K.W., D.C. generators. Its working cannot yet be said to be entirely satisfactory. The makers have recently suggested certain improvements and the effect of these are now being tried. The engine at present is working on two cylinders (out of the four) as one of the cylinder heads cracked while the engine was running, when the Campbell Company's expert was putting the engine in order. Due to the rather poor load it has to deal with at present, its running is found expensive and has therefore to be restricted to a few hour's run per day.

A 16 K.W., D.C. machine was brought into commission to work as either a motor to drive the A.C. generator or to work as a generator when the Campbell engine is running.

The erection of the 25 K.W. gas engine set with its producer is very nearly complete. The set is expected to be put into regular service by the time the college re-opens in July.

The experimental steam engine was put to use by Mechanical Engineering Laboratory for experimental work for the senior class.

The pumping station at Saidapet was taken over this year from the Public Works Department. The Public Works Department has not yet replaced the temporary 440 volt D.C. motor supplied by the college for driving the pumps.

Scarcity of water was experienced throughout the year, except immediately after the rains.

Training in running the plant was given as usual to the Engineer students on practical course. The help given by these students has been considerable.

Up to September 16th, 1924, the work of superintending the power-house was done by Mr. M. K. Ranganatham, Professor of Mechanical Engineering. On his transfer from the college Mr. Sukumaran was put in charge with effect from 1st October 1924.

The necessity of a Power Station Superintendent who is a full-timed man (unlike the present Superintendent in charge) was increasingly felt, so as to ensure the reliability, economy and safety of operation of the power-house.

11. *Electrical Engineering Laboratory*.—The Professor of Electrical Engineering reports as follows:

"The Workshops attached to the Electrical Engineering Laboratory is being run temporarily by two independent motors for carrying on the fitting work connected with the department.

A temporary fitter has been engaged and we are making a real beginning in the construction of rheostats, switches and other electrical appliances for the supply of which we usually depend on outside agency. This has resulted in economy and swiftness in the execution of work.

The mounting of instruments and other fittings on the central switchboards is being attended to and arrangements have been made for the supply of alternate current to the workshops and other laboratories in case of breakdown of power-house supply.

Systematic electrical engineering testing has been very satisfactorily conducted during the session."

12. Mechanical Engineering Laboratory.—The Acting Professor of Mechanical Engineering reports:—

"The equipment in the laboratory is the same as before and until this is fully provided for, it is difficult to find a sufficient variety of work to keep a number of batches of students engaged in the work without crowding. The time at our disposal was fully employed, however during the year, although if the equipment had been complete, we could have got each individual student or in batches not exceeding three to perform any experiment individually.

During the year the following apparatus were set up and brought into use:—

- (1) Simmons-Abady Modification of Junker's Gas Calorimeter.
- (2) Rosentien's Modifications of Lewis Thomson's Calorimeter.
- (3) Electric Muffle furnace for coal-testing (moisture, volatile constituents and ash.)
- (4) Shore Pyroscope—Optical Pyrometer."

13. Strength of Materials Laboratory.—A brinell hardness testing machine made by W. and T. Avery, Limited, was added to the equipment during the year.

Tests for tension, compression, shear, bending, impact and hardness were arranged in a systematic manner for the instruction of students, who carried them out and recorded the results. The tests made here on behalf of the Public Works Department and other departments and firms were, though varied, not so numerous as in the previous year.

We have made a beginning in the matter of preliminary tests of timbers proposed to be used as sleepers, in accordance with the instructions of the Forest Economist of the Forest Research Institute, Dehra Dun, the specimens being supplied by the Forest Department at the instance of that officer. The results required are those relating to tests in pulling spikes, hardness and compression perpendicular to the grain. It is hoped that considerable work in this line will be turned out next year.

14. Hydraulic Engineering Laboratory.—As sufficient funds were not forthcoming, it has not been possible to fit up the laboratory for experimental work yet. Some of the machinery has been erected and an underground tank built. It should be possible to make use of the laboratory for some experimental work during the academical year 1925-26.

15. Science Laboratory.—It has not been possible during the year owing to shortage of funds to effect the full equipment of the laboratories to enable the students to carry out all necessary tests in Applied Science. Notwithstanding, considerable amount of work has been done.

It is to be regretted also that funds were not available for taking students on excursions to centres of chemical engineering such as Ranipet and Bhadravati.

16. Workshops.—No new machine was purchased; a small vertical milling machine belonging to the School of Engineering, Trichinopoly, was exchanged for a horizontal milling machine from the college shops. Alternate current motors were substituted for the previous direct current motor drives.

17. Hostel.—A committee consisting of three of the Professors was introduced to advise the Principal on the internal affairs of the hostel.

18. Hospital.—No less than three changes were made in the appointment of Sub-Assistant Surgeons. Mr. Perumal Razu replaced Mr. P. Balasundaram Pillai. He in turn was replaced by Mr. B. K. Shenai and the appointment is now held by Mr. A. Govindakutti Nayar. The total number of patients treated during the year

was 2,569 with a daily average of 18.05. These were practically all out-patients with the exception of 26 who had to be treated as in-patients. Two cases of small-pox occurred, but the disease was stamped out by prompt measures.

19. Athletic Club.—Mr. W. C. Old reports:—

"*Inter-collegiate sports and games.*—It is with deep regret that I have to report that the M.C.A.A. did not arrange this year for any inter-collegiate matches in hockey, football, cricket or tennis, nor for the annual sports meeting, thus depriving our students of the benefits of the only sort of inter-collegiate activities that they have been enjoying all these years.

Tennis.—There were not sufficient numbers this year and therefore only five courts were run; most of the students are still under the impression that tennis is a cheap game.

College sports.—Sports were held this year on the 13th February in connexion with the celebration of the 'College Day' when Sir A. P. Patro, Minister for Education and Public Works presided.

His Excellency Lord Willingdon's prize was again won by Mr. P. Kumaran of the Upper Subordinate class.

Inter-class matches.—They were keenly contested this year and never before have I seen such enthusiasm in these matches. Engineer class first division won football and hockey and Engineer class second division cricket.

General.—Some allotment is always necessary annually for the up-keep of the sporting grounds. The gymnastic apparatus is still too poor."

20. University Training Corps.—Dr. K. C. Chakko reports:—

"Sixteen final year students having left the college their places were open for recruits. There was an eagerness to join the corps among the students and the places were easily filled. From the trained men selected squads took part in the Naval and Military tournament and in the Field Day at Tambaram. The Raja Varma Cup which we held for the last two years was lost this year although after a keen contest. Owing to the large proportion of recruits who have not done arms drill, no parade for Guard of Honour was held at the college.

There was a falling off in the attendance at the last Bangalore Camp in May-June. The platoon with the rest of the battalion took part in the King's Birth Day parade by lining the parade ground.

The senior non-commissioned officers have continued to do very useful work often at great inconvenience to themselves.

There are large numbers anxious to get the training imparted by the corps, but the distance from the headquarters and the want of easy accessibility will remain a great handicap and until that is overcome, the platoon has little chance of continued success."

21. Employment of passed students.—Of the 31 Engineer students who completed their practical course in 1924 the senior in the Civil branch was appointed to the permanent establishment of the Public Works Department as Assistant Engineer and 16 have reported employment as follows:—

Temporary Supervisor, Public Works Department	7
Assistant Engineer, His Exalted Highness the Nizam's Public Works Department	1
Temporary Supervisor, Irrigation Branch, His Exalted Highness the Nizam's Public Works Department	1
Temporary Supervisor, Pudukottah State	1
Chief Foreman, Corporation of Madras	1
Temporary Special Assistant Supervisor, Electrical Department, Corporation of Madras	1
Probationary Assistant Mechanical Engineer, Great Indian Peninsular Railway, Bombay	1
Temporary Assistant Engineer, Bengal-Nagpur Railway	1
Temporary Bridge Investigating Inspector, Villupuram-Trichinopoly chord line, South Indian Railway	1
Probationary Engineer, South Indian Railway	1

Forty-eight Upper Subordinates completed practical training. Reports have been received for 23 of them having secured employments as under:—

Temporary Upper Subordinate, Public Works Department ..	1
Temporary Overseer, Hydro-Electric Survey, Public Works Department ..	1
Temporary Ghat Overseer, Revenue Department ..	1
Temporary Overseer, Military Engineering Service ..	1
Surveyor, Travancore Public Works Department ..	1
Temporary Foreman, Public Works Department ..	1
Temporary Overseer, His Exalted Highness the Nizam's Public Works Department ..	1
Local Fund Overseer ..	3
Local Fund Sub-Overseer ..	1
Probationary Drainage Overseer, Madras Corporation ..	1
Supervisor, Tinnevely Municipality ..	1
Temporary Estate Minor Irrigation Overseer ..	1
Temporary Supervisor, K. S. Dhaudy & Co, R.C. Engineers, Bombay ..	1
Temporary Overseer, Goldenrock construction works, South Indian Railway ..	1
Temporary Overseer, Andhra Engineering Company ..	1
Temporary Overseer, Ramakrishna Residential High School Works, Madras ..	1
Special Work Assistant Inspector, South Indian Railway ..	1
Probationary Public Works Inspector, Madras and Southern Mahratta Railway ..	2
Probationary Public Works Inspector, South Indian Railway ..	1
Temporary Draughtsman, Madura Mills ..	1

Nine Lower Subordinate students completed the college course in 1924. Of these six reported to have secured employment as follows:—

Temporary Surveyor, Forest Department ..	1
Do. Draughtsman ..	1
Do. Sub-Overseer, South Indian Railway ..	1
Probationary Draughtsman, Madras and Southern Mahratta Railway ..	1
Draughtsman, Nundidroog Gold Mines ..	1

22. *Library.*—During the year under report, 73 books were added to the library which now contains 7,233 volumes. The number of books issued to the staff and students was 1,151 and 5,943, respectively, and in addition 1,902 books were taken out for reference in the Reading Room.

23. *Attendance.*—The percentage of attendance to numbers on the rolls of college was 94.7. Detailed particulars for the several classes are given in Appendix E.

24. *Financial details.*—These are furnished in Appendices G and H. The receipts for 1924-25 amounted to Rs. 38,674-6-5, and the charges to Rs. 2,03,971-10-3, resulting in a net cost to Government of Rs. 1,65,297-3-10. The average number of students on rolls was 250.7 and the net cost per student Rs. 659-5-0, the increase in the net cost per student as compared with last year being due to sudden fall in the number of students owing to the transfer of the Probationary and Lower Subordinate classes in the college to the Schools of Engineering at Trichinopoly and Vizagapatam. These figures are subject to modification when particulars of further adjustments, if any, are communicated by the Accountant-General. An abstract of receipts and charges for the last five years is given in Appendix H.

25. *Service books.*—The service books of non-gazetted officers have been brought up to 31st March 1925 and verified.

26. *General remarks.*—I regret to record the death of Colonel Love who was the Principal of the College for about 28 years. The college was closed on 25th November 1924 in respect to his memory.

During the year the college was honoured by visits from His Excellency Viscount Goschen on 18th March 1925, and the Hon'ble Sir B. N. Sarma, Member of the Viceroy's Executive Council on the 2nd December 1924.

I have pleasure in acknowledging the very hearty co-operation of the members of the staff who have helped considerably in maintaining the smooth working of the college and hostel.

APPENDIX A.

Class.	Europeans and Eurasians	Indian Christians.	Muhammadians.	Pariahs.	Hindus.				Total.
					Brahmans.	Non-Brahmans.	Adi-Dravidas.	Others.	
Engineer classes ..	4	20	10	1	81	27	..	..	143
Upper Subordinate classes ..	1	4	1	1	81	19	..	..	107
Total ..	5	24	11	2	162	46	..	..	250

APPENDIX B.

Districts.	Engineer classes.	Upper Subordinate classes.	Total.	Districts.	Engineer classes.	Upper Subordinate classes.	Total.
Ganjam ..	1	1	1	Tinnevely ..	12	6	18
Vizagapatam ..	1	5	6	Salem ..	..	..	..
Goavari ..	12	12	12	Coimbatore ..	1	1	2
Kistna ..	2	11	13	Nilgiris ..	..	..	..
Guntur ..	5	9	14	Malabar ..	9	11	20
Anantapur ..	1	..	1	South Kanara ..	10	3	13
Nellore ..	3	1	4	Pudukottah ..	1	..	1
Bellary ..	3	1	4	Coorg ..	..	1	1
Madras ..	9	2	11	Cochin ..	12	1	13
Chingleput ..	3	..	3	Travancore ..	17	3	20
North Arcot ..	5	1	6	Mysore ..	3	..	3
Chittoor ..	2	..	2	Bangalore ..	1	..	1
South Arcot ..	2	3	5	Hyderabad ..	12	..	12
Tanjore ..	16	20	36	Bombay ..	1	..	1
Trichinopoly ..	9	11	20	Total ..	143	107	250
Madura ..	3	2	5				
Ramnad ..	..	2	2				

APPENDIX C.

Class.	Wealth.			Total.	Occupation.						
	Richer classes.	Middle classes.	Poorer classes.		Officials.	Petty officials.	Traders.	Land holders.	Artisans.	Mendicants.	Others.
Engineer class, 4th year division ..	1	34	5	40	20	1	3	16	..	..	..
Engineer class, 3rd year division ..	1	38	3	42	25	2	1	12	2	..	..
Engineer class, 2nd year division ..	2	21	3	26	17	1	2	6	..	..	..
Engineer class, 1st year division ..	2	31	2	35	21	2	2	10	..	..	..
Upper Subordinate class, 2nd year division ..	..	67	22	89	24	13	3	49	..	..	..
Upper Subordinate class, 1st year division ..	..	17	1	18	3	2	1	12	..	..	..
Total ..	6	208	36	250	110	21	12	105	2	..	..

APPENDIX D.

Percentage of marks gained in the Session 1923-24.

Engineer class—Fourth year division.									
Civil—									
Branch I. Mathematics and Science	..	..	..	..	..	..	..	..	64.3
" II. Engineering	..	..	..	..	..	..	..	..	63.6
Physical exercises	..	..	..	..	..	..	..	..	49.6
Average	..	..	..	..	..	..	..	..	63.0
Mechanical—									
Branch I. Mathematics and Science	..	..	..	..	..	..	..	..	59.9
" II. Engineering	..	..	..	..	..	..	..	..	65.6
Physical exercises	..	..	..	..	..	..	..	..	47.5
Average	..	..	..	..	..	..	..	..	63.6
Engineer class—Third year division.									
Civil—									
Branch I. Mathematics and Science	..	..	..	..	..	..	..	..	61.6
" II. Engineering	..	..	..	..	..	..	..	..	65.9
Physical exercises	..	..	..	..	..	..	..	..	56.8
Average	..	..	..	..	..	..	..	..	64.1
Mechanical—									
Branch I. Mathematics and Science	..	..	..	..	..	..	..	..	58.9
" II. Engineering	..	..	..	..	..	..	..	..	65.2
Physical exercises	..	..	..	..	..	..	..	..	57.6
Average	..	..	..	..	..	..	..	..	63.0
Engineer class—Second year division.									
Branch I. Mathematics and Science	..	..	..	..	..	..	..	..	56.4
" II. Engineering	..	..	..	..	..	..	..	..	64.4
Physical exercises	..	..	..	..	..	..	..	..	51.5
Average	..	..	..	..	..	..	..	..	60.4
Engineer class—First year division.									
Branch I. Mathematics and Science	..	..	..	..	..	..	..	..	50.5
" II. Engineering	..	..	..	..	..	..	..	..	61.8
Physical exercises	..	..	..	..	..	..	..	..	60.5
Average	..	..	..	..	..	..	..	..	58.5
Upper Subordinate class—Second year division.									
Branch II. Engineering	..	..	..	..	..	..	..	..	59.9
Physical exercises	..	..	..	..	..	..	..	..	51.0
Average	..	..	..	..	..	..	..	..	59.5
Upper Subordinate class—First year division.									
Branch I. Mathematics	..	..	..	..	..	..	..	..	58.6
" II. Engineering	..	..	..	..	..	..	..	..	63.2
Physical exercises	..	..	..	..	..	..	..	..	44.9
Average	..	..	..	..	..	..	..	..	60.6
Lower Subordinate class.									
Branch II. Engineering	..	..	..	..	..	..	..	..	62.7
Physical exercises	..	..	..	..	..	..	..	..	50.9
Average	..	..	..	..	..	..	..	..	61.6

Probationary Subordinate class—Second year division.

Branch I. Mathematics	..	..	..	..	..	..	..	..	59.5
" II. Engineering	..	..	..	..	..	..	..	..	58.8
Physical exercises	..	..	..	..	..	..	..	..	67.9
Average	..	..	..	..	..	..	..	..	59.5

Probationary Subordinate class—First year division.

Branch I. Mathematics	..	..	..	..	..	..	..	..	49.7
" II. Engineering	..	..	..	..	..	..	..	..	57.8
Physical exercises	..	..	..	..	..	..	..	..	60.3
Average	..	..	..	..	..	..	..	..	56.0

APPENDIX E.

Class.	Average number on rolls.	Average daily attendance.
Engineer class, First division	40.0	38.1
Second division	41.9	39.9
Third	26.1	25.3
Fourth	35.1	33.6
Upper Subordinate class—First division	89.0	83.5
Second division	18.6	17.1
Total	250.7	237.5

Percentage of numbers present to number on rolls 94.7

APPENDIX F.

Classification of vacancies notified during 1924-25.

	Government.				Local Boards and Municipalities.			Railways.			Native States.			Private Employees.			Total.
	Above Rs. 200.	Rs. 100-200.	Rs. 50-100.	Below Rs. 50.	Above Rs. 200.	Rs. 100-200.	Rs. 50-100.	Below Rs. 50.	Above Rs. 200.	Rs. 100-200.	Rs. 50-100.	Below Rs. 50.	Above Rs. 200.	Rs. 100-200.	Rs. 50-100.	Below Rs. 50.	
Engineers and Assistant Engineers.	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Supervisors.	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	2
Overseers.	..	..	6	..	..	..	..	..	..	..	..	..	..	..	..	..	6
Sub-overseers.	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1
Draftmen.	..	..	1	2	9	..	..	..	..	..	..	..	..	..	..	..	15
Tracers.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Surveyors.	..	..	1	3	..	..	..	..	..	..	..	..	..	..	..	..	6
Total	..	3	13	9	..	..	1	..	..	1	1	..	..	..	..	3	31

APPENDIX G.

FINANCIAL DETAILS FOR 1924-25.

Receipts.	Rs.	A.	P.
Tuition, registration fees and fines	29,027	4	0
Hostel room rent	6,368	6	0
Electric installation rent	349	3	4
Electric lighting charges	1,172	8	0
Miscellaneous	1,757	1	1
Total	38,674	6	5

Charges.		RS.	P.
SALARIES—			
Principal		21,050	0 0
Professors in the Indian Educational Service and Instructors in Mechanical Engineering		40,615	0 0
Professors and other gazetted instructors in the Madras Educational and Engineering service		23,006	7 0
Assistant Instructors, masters and teachers		48,113	6 0
Accountant, Clerks, Librarian and servants		14,104	12 0
Travelling allowance of officers and establishment		3,143	5 0
Government scholarships		6,320	4 0
Library books, medals and prizes		1,000	0 1
Pay of gardeners and other menials		2,706	3 10
Workshop and Laboratory charges		35,223	1 1
Survey camp charges		1,483	3 0
Irrigation and other tour charges		2,113	2 6
Workshop premium		370	13 4
Printing of maps and diagrams		136	10 0
Office contingencies and games		4,585	6 5
Total		2,03,971	10 3
Net cost to Government		1,65,297	3 10
Average number of students on rolls		250	7 0
Net cost per student		658	9 0
Average tuition fee paid by student per annum		115	10 0

APPENDIX H.

Comparative Financial details.

	1920-21	1921-22	1922-23	1923-24	1924-25.
	RS.	RS.	RS.	RS.	RS.
Receipts	48,069	51,386	49,804	48,313	38,674
Charges	2,19,285	2,51,566	2,27,737	2,14,322	2,03,972
Net cost to Government	1,71,216	2,00,180	1,77,933	1,66,009	1,65,297
Average number of students on rolls	467	461	375	360	251
Net cost per student	375	444	473	461	659

R.O.P. No. 13-A-13/25-26, dated 30th April 1925.

Recorded.

2. During the year the Probationary and Lower Subordinate classes were abolished in the college and concentrated in the Engineering schools at Vizagapatam and Trichinopoly and there was a consequent decrease in the number on the rolls.

3. The results of the several examinations continued to be very satisfactory.

4. The Director congratulates the Principal and staff on another year of successful work.

R. G. GRIEVE,

Acting Director of Public Instruction.

To the Principal, College of Engineering, Guindy.

,, Principals of all Government Colleges.

,, all District Educational officers.

,, the Superintendent, School of Arts, Madras.

,, Superintendents, Schools of Engineering, Vizagapatam and Trichinopoly.

,, the Director of Industries for information.

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

,, the Government, with covering letter.

Order—No. 1126, Law (Education), dated 30th June 1925.

0 4 730.93

0 3 868.30

4 3 048.40

0 3 377.1

1 1 735.1

Recorded.

(By order of the Government, Ministry of Education)

V. T. KRISHNAMA ACHARIYAR,

Secretary to Government.

To the Director of Public Instruction.

,, Public Works Department.

,, Accountant-General.

Editors' Table.

FORT SAINT GEORGE

LAW (EDUCATION) DEPARTMENT

(Copy)

LETTER to the Under Secretary of State for India

No. 1127, dated the 30th June 1925

College - Engineering, Guindy -
Report - 1924-25 - Forwarded
to the Under Secretary of
State for India.

Clearfiled in
R.R. 1127

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FORT ST. GEORGE,
30th June 1925.

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