E. P. H. Dept.

G.O. No. Ms. 1142 Edn.

dated 6-5-48

close
12/3

39

Eng College Guindy - Mech Dept
Improvements - orders

Back : Papers

G.O. 2178 Edn.

22-12-45

Further Papers

G.O. 212 Edn

28-1-49

G.O. 186 Rt. Edn

5-6-50

G.O. (Ms) 1517 Edn
24/6/53

Posts permanently retained

G.O.Ms 2908 Edn dt 29-11-62

1

C.F. 30.

EDUCATION DEPARTMENT.

2

Received ....19 . Registered ....19 .

Subject.

College of Engineering, Guindy--Mechanical Engineering Laboratory--Extra staff--Sanction requested.

ASST. SECRETARY TO GOVERNMENT
12 JAN 1946
EDUCATION AND PUBLIC HEALTH DEPT.

Enclosures.
No. ....
....
Spare copies ....

R.C.No. 851-A/45.

Station Madras, Dated the 8th January 1946.

From (Name) DR. S.R.U. SAVOOR, M.A., D.Sc., I.E.S.,

(Designation) DIRECTOR OF PUBLIC INSTRUCTION,
MADRAS.

To The Secretary to the Government of Madras,

EDUCATION AND PUBLIC HEALTH Department.
FORT ST. GEORGE, MADRAS.

Sir,

f/p 3-4 infra

I have the honour to submit herewith a copy of the letter from the Principal, Engineering College, Guindy dated 16.8.1945 explaining the need for additional staff in the Mechanical Engineering Laboratory.

2. The Principal, College of Engineering, Guindy has reported that in the Mechanical Engineering Laboratory attached to the College, the present establishment consisting of two laboratory assistants, one mechanic and two temporary coolies, working under the supervision of the professor of Mechanical Engineering, is quite insufficient. It is pointed out that the work of the laboratory has considerably increased on account of the number of students taking this branch having increased from 12 in 1941 to 35 in 1944. The Principal, further points out that for giving adequate facilities for the conduct of research work in this laboratory, more establishment is quite necessary.

f/p 3 infra

3. As the tests referred to by the principal are not now continued I asked the principal to revise the proposals for additional staff with reference to the requirements for instructional purposes.

4. The Principal states that the present establishment assigned to this laboratory has necessarily to be augmented by the employment of the following additional staff:

1. One Driver mechanic in the scale of Rs. 60 - 2 - 80.
2. One Instrument repairer in the scale of Rs. 60 - 2 - 80.
3. Two attenders in the scale of Rs. 19 - 24.

The Principal reports that on account of the war conditions, technical personnel have been commanding high salaries in various services and that he had suggested the above scales of pay with reference to the current market rates. He adds that if the salaries are lowered it may not be possible to secure suitable hands. He further points out that inspite of the cessation of hostilities conditions are expected to remain the same for some more time and the demand for Technical personnel will continue as usual on account of the various technical schemes in the Post-war period.

In the circumstances reported by the Principal, I support his recommendation and request that Government may be pleased to sanction the employment of the additional staff mentioned in paragraph 3 above temporarily for two years in the first instance.

I have the honour to be,
Sir,
Your most obedient servant,

11.1.46
For Director of Public Instruction.

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Sd
11/1.46

E & P. H. Dep/w

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To The D.P.I. ✓ despd 107 1-2-46

Refce: Your letter No. R.c. 851 A/45 d 8.1.46

~~[illegible]~~ College - Engineering, Guindy -
Mechl Eng Laby - Addl staff - Employment

Please say whether the employment of the addl staff cannot be postponed till the Committee appointed in G.O. No. 2178 Edn, d 22-12-45 submits its report.

Cva
28.1.46

BM
30/1/46

Issued
OAG
31/1/46

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Reminded
KRS
13/3/46

P. C to go

Copy of letter R.C.No.13-3A/45 dated 16th August 1945 from the Principal, College of Engineering, Guindy to the Director of Public Instruction, Madras.

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Subject:-Mechanical Engineering Laboratory--Extra temporary staff--Required.

In the Mechanical Engineering Laboratory, at present we have the following main equipment:-5 Compression Ignition Engines, 2 Petrol Engines, 1 Kerosine oil Engine, 1 Gas Engine, 3 Steam Engines, 1 Steam Turbine, 3 Refrigerator Plants, and Boiler and Distilling Plant, the Gas Generator, a Laboratory for fuels and other miscellaneous minor equipment. The present establishment consists of 2 Laboratory Assistants working under the orders of the Professor of Mechanical Engineering. They are also assisted by a Mechanic and two temporary coolies.

From the point of view of routine instructional work in laboratory practice, the Laboratory Assistants are quite efficient, but to maintain the machinery in proper working condition, the establishment is somewhat insufficient.

The work of this Laboratory has increased considerably during the last 4 years, as the number of students taking this branch has increased from 12 in 1941 to 35 in 1944 in each class and therefore the attention required in the maintenance of these Engines and equipment has considerably increased.

Research

The facilities that are now afforded for conducting research in this Laboratory are very meagre. In spite of this, it is gratifying to note that 3 students have already enrolled themselves this year for research work and in future years, it is expected that a large number of students will take up research if proper and adequate facilities are provided for in this Laboratory. The equipment available in this Laboratory to conduct research problems is inadequate. Therefore, a number of items has been included in the home indent for the last three years and as soon as we get all of them, we will have some equipment for training more research scholars.

This Laboratory is one of the few of its kind in this country where research problems of present day interest can be tackled. The investigations on vegetable oil as fuel for Diesel Engines and the running of Diesel Engines on suction gas with ground nut oil as fuel have had a direct bearing on the War effort, and these investigations have to be followed up and perfected in order to be of real and lasting value to the public and the country.

This Laboratory has been the first to instal a Testing Plant for conducting tests on producer gas. The conference of Producer Gas plant Testing Officers held in September 1944 under the auspices of the War Transport Department, New Delhi, was attended by the Professor of Mechanical Engineering and he reports that they decided to conduct research for the improvement of producer gas plants and that the various Testing Laboratories were requested to undertake and conduct researches on particular problems. Our Testing Laboratory has been requested (1) to investigate on various types of producers to ascertain defects in designs and to suggest improvements, and (2) to investigate the possibilities of simplification of the producer gas testing plant.

In view of what has been said above, the present establishment is totally inadequate for the requirements of the Laboratory. I therefore request that the following establishment may be sanctioned temporarily for one year and if it proves successful and useful, sanction can be extended later on.

P.T.O.

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EXTRA STAFF REQUIRED.

1. One Special Laboratory Assistant on a salary of Rs.200-10-300 per month. He will be responsible for the conduct of research problems allotted to this Laboratory and write out periodical reports on the investigations. He will also guide research students in their day-to-day problems.

Qualifications:- He should be a graduate in Mechanical Engineering of the Madras University or possess an equivalent qualification and should have an experience of at least 5 years in the running, maintenance and overhaul of Diesel engines, Petrol engines and producer Gas Plants.

2. One Research Assistant in Chemistry on a salary of Rs.75-5-125 per month. He will assist the special Laboratory Assistant by conducting chemical analysis on solid, liquid and gaseous fuels and will also do similar analysis for the research students.

Qualifications: He should be a B.A. or B.Sc.(Chemistry-Main) and should possess atleast two years post-graduate experience or should have worked in any approved technical laboratory for a period of two years.

3. One Driver Mechanic on Rs. 60-2-80. He will be responsible for the running and maintenance of the petrol Engines and Gas Plants that are to be used in the research problems.

QUALIFICATIONS: He should be passed the III Form in a recognised school and should have experience in the running and maintenance of Gas Plants for Automobile Engines and should also hold a Driving Licence for Lorries and Buses.

4. One Instrument Repairer on Rs. 60-2-80. There are a number of very delicate instruments which require careful handling in the laboratory and the services of a competent Instrument Repairer may be a permanent necessity. But at present, I propose he may be appointed temporarily for one year and his services may be extended later on if found essential. In dealing with research problems also, a number of delicate instruments have to be fitted and repaired also. An Instrument Repairer will be highly useful not only in handling the delicate instruments for research but also large number of other delicate instruments that are available in the Main and the Fuel Laboratory.

Qualifications: He should have passed atleast III Form, must be able to work on a lathe and other workshop machinery, should be able to repair instruments such as indicators, techometers, pressure gauges and must be a good fitter.

5. One attender on Rs.19-1/2-24. This Attender is specially intended to assist in the conduct of researches.

Qualifications: He should know how to read and write English. Preference will be given to candidates who have worked on Gas Plants and Automobile Engines. He should be conversant with the general attention necessary to running engines or machinery.

6. One Attender on Rs. 19-1/2-24. This Attender will also be for the conduct of researches.

Qualifications: He should know how to read and write English and preference will be given to candidates who have worked in a Chemistry Laboratory and know the handling of delicate glass apparatus.

/True copy/.

11.1.46

For Director of Public Instruction.

Sd
11.1.46

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C.F. 32 (a).

Industries and Commerce Department

④ 36627 D/46

From (Name) Rao Bahadur Sri N.M. Adyanthaya, B.Sc. (Edin)

Designation Joint Director of Industries and Commerce,

Station M A D R A S.

UNDER SECRETARY
4 JUN 1946
DEVELOPMENT DEPARTMENT

Received ______ Registered ______

To

The Secretary to Government,
Development Department,
Fort St. George, Madras.

Enclosures: one report.
(4 pages)

No. 7288 C6/45 dated 30th May 1946.

Sir,

Sub: Industries-Education-College of Engineering, Guindy, Mechanical Engineering Department-Strengthening Committee.

Ref: G.O.No.Ms. 2178, Education, & Public ~~Health~~, Health, dated 22nd December 1945.

....

I submit herewith the report of the above Committee.

N.M. Adyanthaya

~~for~~ Joint Director of Industries & Commerce, Madras.

EDUCATION AND PUBLIC HEALTH DEPT
10 JUN 1946

(N)/pp7-8

pp15-18 infra

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REPORT OF THE ENGINEERING COLLEGE MECHANICAL ENGINEERING STRENGTHENING COMMITTEE.

Introduction.

In G.O.No.2178 Edn. & P.H. dated 22nd December 1945, Government appointed a Committee consisting of the Industrial Adviser to Government as Chairman, Director of Public Instruction, Director of Industries and Commerce and Professor of Mechanical Engineering of the College of Engineering, Guindy as Members and the Joint Director of Industries and Commerce as Member and Secretary. The terms of reference were to examine whether the Mechanical Engineering Department of the College of Engineering, Guindy requires to be strengthened or expanded in order to meet the demand for mechanical engineers which the large programme of industrialisation laid down for the whole Province may require.

The Committee met those firm and also inspected the Mechanical Engineering classes, workshops and laboratories of the Engineering College. They also discussed several questions with the Principal of the College. After a careful analysis of the teaching work, the staff and the equipment provided for the Mechanical Engineering course, the Committee have come to the following conclusions.

M (i) The staff of the Mechanical Engineering Department is inadequate. The Committee feel that the Professor of Mechanical Engineering should be relieved of a considerable amount of clerical work which he is now doing by the provision of a Steno-Typist for his section. The teaching staff should also be strengthened and their salaries revised. While the present salaries of Professors and staff may be considered adequate, the starting salaries offered to instructors, Junior Instructors and Demonstrators are not adequate to attract the best type of men. They therefore recommend that the starting points of the existing scales be fixed at a higher stage as given below so as to attract experienced men.

	Starting salary.	Scale of pay.
Instructors	Rs.260/-	Rs.200--30/2--260--40/2--600--50/2--700.
Assistant Instructors and Laboratory Assistants ...	Rs.150/-	in the P.W.D. Supervisor's scale
Demonstrators.		Rs.70--10/2--100.

At the present time, the Mechanical Engineering staff, in addition to the instruction that they have to impart to the 3rd and 4th year engineering classes have also to teach allied subjects such as Geometrical Drawing, Machine Drawing etc. to the first and second year engineering students and also to the Licentiate students. The strength of some of these classes is over 100 students and their division into sections is not at present feasible for want of adequate staff. The Committee are of the opinion that in the case of Gazetted staff of the College, the general basis for allocation of work should be that no member of the staff has more than 22 hours of lecture, tutorial class or laboratory work; the remainder of the time being spent in research work and other duties incidental thereto. An application of this principle will necessitate the employment of one additional Instructor, and one additional Assistant Instructor in the Mechanical Engineering Branch. This will permit of some of the unwieldy classes being sub-divided into sections. There is also need for the provision of several more mechanics and skilled workmen to look after the various machines and keep them in working them. The Committee recommends that in regard to additional skilled establishment, the same scale as is provided for the Electrical branch of the college be sanctioned. The Committee is further of the opinion that the existing Statutory for recruitment are not flexible enough to secure the best and most suitable men for the job in hand and that they should be revised by the Director of Public Instruction.

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(4) 2. The Committee have also examined the question of equipment. They observe that in some very important branches of Mechanical Engineering the equipment is inadequate. A notable instance is the absence of

boilers of different types. The laboratory is not equipped with upto date types of industrial machinery such as pulverisers, cleaners, rice hullers, oil expellers, decorticators, crushing mill etc. These varied types of machinery offer adequate training in the use and handling of industrial machinery. A list of equipment for increasing the scope of the Mechanical Engineering laboratories is furnished in the appendix attached to this report. It is necessary that the vouchers of them be endorsed. The Committee suggest that a block grant of Rs.1½ lakhs for the Mechanical Engineering Laboratory, Rs.1 lakh for the Automobile Engineering Laboratory and Rs.30,000 for the following be provided. The Committee are further of opinion that a model room is an asset to any Engineering Institution. The existing model room of the College is totally inadequate and the models are out of date. A complete overhaul of the model room is essential and new models of machines and processes be installed so as to serve as demonstration models.

3. Accommodation: While the Committee are satisfied that the existing floorspace in the Engineering College is adequate they are not satisfied with the space allotted to the mechanical engineering section. They find that the laboratory and the engine testing rooms are too cramped and the equipment requires to be spared out. They recommend therefore that more space should be allotted to the Mechanical branch and the blocks of buildings put up by the Labour and other Departments of the Government of India be transferred to the Mechanical Engineering branch.

Courses of Study - General.

4. The first two years are spent in general engineering in common with other branches such as Civil and Electrical Engineering. In the third year, Mechanical Engineering Students branch off from the Civil and Electrical, and concentrate on Mechanical Engineering alone during the next two years. Since, however, Mechanical Engineering constitutes a vast field of study in which specialisation has advanced in various directions such as in Automobile Engineering, Transport and Production Engineering, in Air Conditioning and Refrigeration, in Power Engineering, Industrial Engineering etc. It is desirable that to meet the future requirements of Industry in this Province, the 4th year of the Mechanical Engineering course should be bifurcated into two separate sections viz. (1) Transport and Maintenance and (ii) in Production and Manufacture. This bifurcation is a common feature in the various courses of study in foreign countries, for example, in Messachsettes Institute of Technology, U.S.A., the Mechanical Engineering course is bifurcated into five different subjects in the fourth year of study viz, (1) General Engineering (2) Automobile Engineering (3) Heat Engineering (4) Materials and Design, and (5) Part-time course in Mechanical Engineering for the manufacturing industry. The Committee is of the opinion that although this Province has not yet attained that stage of industrial progress in which there is a demand for all the above types of specialised training; the Committee do consider it high time that the training of Mechanical Engineers is split up adapted to our own requirements. The industry undoubtedly needs two distinct types of Mechanical Engineers, viz. (i) Transport and Maintenance Engineers and (ii) Production Engineers for the manufacturing industry. The Madras Government would require a large number of Automobile Engineers for the proposed programme of Highway Engineering and the programme of Rail and Road Coordination. Private automobile engineering firms would also require a number of qualified Automobile Engineers to meet the expected production of automobiles in this country and the flow of imported vehicles from outside of India. It is therefore necessary to produce Transport Engineers with the least possible delay. Industrial Expansion in any country is the result of improved production methods. It is felt that there is a special need for opening a separate branch of production Engineering. Graduates turned out of this College will have ample opportunities of securing good jobs either in Government workshops or in any private enterprises. The Engineering College workshops is well equipped in certain directions; but lacks in others. With some additional equipment, it ought to be possible to give the students adequate theoretical and practical instruction on the basic principles underlying workshop processes and production methods.

5. Admissions: It is the practice in this College to admit the full number of students without earmarking them for the various branches at the time of admission. This practice leads to an unfair division at the end of the second year when they have to branch off the various courses. Certain branches have a large number of applications and certain others have only a few applications. It is desirable that the selection of the number of students for each branch and at each bifurcation stage should be left to a staff committee which should decide with reference to the necessities of the time and on the merits and aptitudes shown by the candidates during their earlier attendance at the classes.

6. Workshops and hours of work: It is understood that the Mechanical Workshops of the College are not directly under the control of the Head of the Mechanical Branch. The Committee are of the opinion that the Mechanical workshop, the Carpentry shop, Smithy, Foundry and all other mechanical equipment should be placed under the Professor of Mechanical Engineering. This will ensure better coordination of theoretical lectures and practical training. The students work for 35 hours a week i.e. 6.30 to 8.30 in the morning 10 to 12.30 in the forenoon and 1.30 to 4 in the afternoon - 7 hours a day for 5 days in a week making a total of 35 hours. No work is carried out on Saturdays as it is exclusively set apart for U.O.T.C. Work.

One way of improving the quality of training in Mechanical Engineering is to give increased practical work to the students in the workshops and laboratories. At the present time the workshop practice is confined only to morning hours, lectures to the forenoon and drawing and laboratory work in the afternoon. This does not conduce to the efficient utilisation of men, materials and machines. By a judicious allocation of classes, a time table could be prepared in which all departments can be made to work more or less to their full capacity, and a more intensive practical training could be given. Opportunities of making, fabricating and testing of machines and materials for the public which are not usually undertaken by the local shops should also be availed of so that practical training may be of a more utilitarian character. Another method of intensifying the practical work would be to keep open the laboratories and workshop during the holidays and summer vacations in order to give facilities for students to work.

M

The Committee also observe that the workshop is manned by a Junior Instructor. In the opinion of the Committee, it is essential that a workshop of the magnitude of the Engineering College should be in charge of an officer of higher status preferably of Gazetted rank. They recommend therefore that a new post of Superintendent of workshops be created with a suitable scale, preferably Rs.420--700/-.

N

Facilities for Research: The Committee note with satisfaction that a good deal of experimental work has been done at the College during the war by the Professor of Mechanical Engineering especially in regard to the testing of gas producer plants and the use of vegetable oils in I.C.Engines. They consider, however, that there is need for a more intensive drive towards original research on the part of the Colleges in the Province. The Committee also recognise the desirability of deputing the staff periodically to foreign countries and factories for refreshing their knowledge and thus enabling them to keep abreast of the times. The Committee thinks that this will have a salutary effect on the efficiency of teaching. They therefore recommend that the Professors and Instructors of the College be granted study leave and other facilities.

In conclusion, the Committee is constrained to note from what they have been able to gather that the Mechanical Engineering branch of the College has not received in the past the attention which it deserves and the treatment which its sister branches have been able to obtain, from time to time.

A summary of the main recommendations is given below:-

(1) The staff of the Mechanical Engineering Branch should be increased by 2 Instructors, one Senior and one Junior Instructor and one draughtsman their starting salaries be raised in the existing scales and the statutory Rules be revised.

(2) The Professor of Mechanical Engineering be given the assistance of a Steno-Typist and more mechanics and workmen to look after the machinery and apparatus.

(3) Additional equipment to the extent of Rs.2½ lakhs be provided and foundry enlarged at a cost of Rs.30,000/-

(4) Model room be expanded and working models of machinery and processes be provided.

(5) The blocks of buildings built by the Government of India be transferred to the Mechanical Engineering Branch.

(6) The M.E. Courses be bifurcated into two branches- One being "Mechanical Engineering, Transport and Maintenance and the other Mechanical Engineering (Manufacturing and Production).

(7) The selection of students for the M.E. course should be done by a staff Committee on the merits and aptitudes of candidates.

(8) The workshops should be placed under a Workshop Superintendent and should be controlled by the Professor of Mechanical Engineering and special outside work should be undertaken at the discretion of the Head of the Branch.

(9) Facilities for research should be given and Professor and staff should be periodically granted study leave or deputation leave for acquiring uptodate knowledge or practical experience.

--

(1) Sd. V.Ramakrishna

(2) Sd. G.Lobo

(3) Sd. A.Visvanath

(4) Sd. N.M. Adyanthaya.

N. M. Adyanthaya

Joint Director of Industries and
Commerce, Madras.

EQUIPMENT.

MECHANICAL ENGINEERING LABORATORY.

FUEL TESTING LABORATORY EQUIPMENT ETC.

For Solid Fuels: (Coal).

No. 1	Apparatus required for the experiment. 2	Value in rupees. 3
	Proximate Analysis:	
1.	Grinding and sampling apparatus	225
2.	Air drying oven, dessicator etc. for determination of moisture..	900
3.	Apparatus for determination of ash in coal (with muffle furnace) ...	450
4.	Muffle furnace, Pyrometers etc. for determination of volatile matter	600
5.	Bray Shaw Fuel Testing Furnace with Blower and other accessories for the deterimination of fusion temperature of ash ...	3000
6.	Roland Wild Calorimeter for determination of calorific value ..	300
7.	Apparatus for determination of sulphur	75.
8.	Distillation apparatus for determination of Arsenic..	150
	Ultimate Analysis:	
9.	Carbon and Hydrogen determination with furnace and accessories	1200
10.	Sinnatt and Harrison's apparatus for determination of carbonates. ..	225
11.	Kjeldahl's Digestion apparatus ..	450
12.	Complete set of apparatus for caking index of coal ..	1500
13.	Gray King Low temperature apparatus with suitable Pyrometer	1500
14.	Gray King High Temperature apparatus complete set ...	1500
15.	Apparatus with vacuum drying ovens for analysis of ash.	1050
16.	Sink and Float apparatus for separation of dirt from coal.	300
17.	Lump sum for chemicals	3000
	II. Liquid Fuels	
18.	Aniline point thermometers and chemicals ..	1000
19.	Muffle furnace and Silica dish etc. for determination of ash in lubricating oils ..	2500
20.	Apparatus for asphaltic determination ..	400
21.	Precision-Frigistat cloud and pour point test bath ..	1200
22.	Centrifuge ..	600
23.	Setting point apparatus ..	300
24.	Sulphur determination apparatus ..	300
25.	Apparatus for volumetric determination of sulphur ..	75
26.	Saybolts Viscometer ..	600
27.	Dean and Stark tube with electric heating bath ..	150
28.	Standard apparatus for moisture determination ..	150
	GAS OILS	
29.	Standard distillation apparatus with electric heater..	750
30.	Standard U.Tube Viscometer ..	150
	GASOLINE	
31.	Doctor Test ..	300
32.	Loribond Tintometer ..	800
33.	Apparatus for deterimination of gum in gasoline ..	1200
34.	Apparatus for potential gum in gasoline ..	2500
35.	Parr's Sulphur Bomb ..	500
36.	Chemicals for determination of corrosive sulphur ..	100
37.	Tatra Ethyl lead ..	100
38.	Reid vapour pressure Bomb ..	650
	LUBRICATING OILS	
39.	Herschel Emulsifier ..	1600

1	2	3
40.	Dilution Trap and flasks for dilution Tests	200
GREASES		
41	Penetrometer for consistency test ..	800
42	Dropping point apparatus ..	200
43.	Chemicals for "Free alkali and acid contents" ..	100
44	Noma - Haffmann Testing apparatus for Chemical stability of grease ..	700
45	Stewarts Tester for grease lubricants ..	300
46	Grease channel Tester ..	1500

ENGINE ROOM EQUIPMENT.

1 STEAM LABORATORY:

(a) Stirling Boiler with super heater, economiser, automatic soot cleaners, air heaters, natural and forced draught arrangements, feed water, heaters etc. Boiler capacity 500 lb. steam per hour.
(b) Mountings -- safety valve, water and steam gauges, stop valves, feed check valves, etc.
(c) Accessories:- Feed Pump, Injector etc.
(d) Measuring Instruments: Panel mounts, Steam Pressure gauge, steam flow Indicator, Pyrometers etc.

II.	INDUSTRIAL MACHINERY- Anches, hullers, disintegrators etc. ..	15,000
III.	Reaction Turbine fitted for experimental purposes.	15,000
IV.	Calorimeters, steam traps and steam separators .	5,000
	INTERNAL COMBUSTION ENGINES LABORATORY.	
V.	Gas Engine for experiments coupled to a dynamometer	3,000
VI.	Gas Turbine with the necessary auxiliaries and dynamometers fittings suitable for laboratory experiments. ..	3,000
VII.	Explosion gas Turbine with dynamometer for laboratory experiments ..	3,000
VIII.	Exhaust Gas Calorimeter (4 Nos.) ..	3,000
IX.	Refrigeration:-(a) Sulphur dioxide plant (b) Freon Plant ..	5,000
	INDICATORS:	
X.	High Speed Type Ionoc Indicators and cathode ray indicators ..	6,000
XI.	Pyrometers and thermometers ..	3,000
XII.	Tachometers and stop watches ..	1,000
	WORKSHOP EQUIPMENT.	
XIII.	Drilling machine with motor drive ..	3,000
XIV.	Universal milling machine ..	10,000
	PHOTOGRAPHIC EQUIPMENT.	
XV.	Cine Camera, Camera and auxiliaries ..	2,000
XVI.	Photographic materials ..	1,000
	FURNITURE.	
XVII.	Almirahs. 8 Nos. ..	1,500
	Work Benches. 2 Nos. ..	600
	Working tables for fuel laboratory 6 Nos. ..	5,000
	Racks for Stores. 6 racks ..	2,000
		1,46,650

EQUIPMENTS FOR AUTOMOBILE ENGINEERING LABORATORY.

21 (8)

		Rs-
I.	ENGINES.	
1.	Straight Eight (Side Valve) with dynamometer and stand. ..	3,500
2.	Straight Six (Side valve) with dynamometer and stand ..	3,500
3.	Dynamometer for Straight six-Overhead valve Engine already available with stand ..	1,500
4.	D.K.W.Engine with dynamometer and stand	2,500
5.	Four Cylinder Engine with dynamometer and stand ..	2,500
6.	Old Model T.Ford Engine with stand only ..	1,000
7.	Motor cycle Engines ..	
i.	2 Cylinder opposid, overhead valve Douglas Type with dynamometer and stand ..	1,500
ii.	Harley Davidson with dynamometer and stand ..	1,500
iii.	Ariel square Four Do Do ..	1,500
iv.	D.K.W. do do ..	1,500
v.	B.S.A.(Overhead) ..	1,500
II.	**TESTING EQUIPMENTS:**	
1.	Crank shaft Balancer, static and Dynamic ..	5,000
2.	Bendix Cowdry' Brake Testing equipment ..	5,000
3.	Exhaust Gas Analyser ..	300
4.	Wheel Balancing Equipment (Static and Dynamic) ..	1,500
5.	Accelerometer Equipment ..	500
6.	Extra Equipment for tests ..	4,000
III.	**ELECTRICAL EQUIPMENTS:**	
1.	Allen Electrical Test Bench ..	6,000
2.	Battery High rate discharge tester ..	1,000
3.	Battery building equipment ..	1,000
4.	Timing Light ..	30
5.	Battery charging Equipment ..	2,000
6.	Electric arc welding equipment ..	2,000
7.	Oxy.Acetylene Welding set ..	3,000
8.	Electric Lifts ..	3,000
9.	'Westing House' volt and Ammeter Tester (with highampere ahunt) ..	800
10.	Head Light Test Screen and focussing equipment ..	600
11.	Electric Furnace for heat treatment 1000 C.	1,000
12.	Pyrometers for above ..	2,000
IV.	**WORKSHOP EQUIPMENT:**	
1.	Lathes 2 Nos. ..	10,000
2.	Milling Machine ..	15,000
3.	Radial drilling, Boring and tapping machine ..	6,000
4.	Brake drum lathe ..	2,500
5.	Reboring bar ..	2,000
6.	Connecting rod bearing grinder ..	1,500
7.	Cylinder Head Surfacer ..	1,500
8.	Eccentric valve seat grinder wet type ..	2,000
9.	Valve refacer (wet type) ..	1,500
10.	Ridge reamer (Lempeco) ..	250
11.	Cylinder Hone (Small and large bores) ..	250
12.	Piston Pin Grinder ..	500
13.	~~Rebabbiting jigs for~~ Piston Pin Grinder	1,500
14.	Rebabbiting jigs for connecting rods and main bearing shells.	800
15.	Frame straighteners with (Front axale and front wheel alignment equipment) ..	2,500
16.	Clutch Plate aligning tool ..	150
17.	Clutch Pressure plate assembling jig ..	150
18.	Crown and Pinion setting gauge ..	200
19.	Universal main bearing reboring bar (Simplicity type)	1,000
20.	External Brake ~~shoe~~ shoe grinder (Sunnen or Scully Jones)	1,000
21.	Piston grinder simplicity or Lempeo ..	6,000
22.	Connecting rod re-borer ..	1,000
23.	Brake shoe relining machine ..	400
24.	Compressor Two stage ..	1,500
25.	Weighing machine 2 Nos.(1 ton) ..	500
26.	Distilled water plant ..	200

22

27. Pneumatic rivetter	..	500
28. Pneumatic rivet buster and Pneumatic chipping hammer	..	1,200
29. Differential Pulley Block	..	200
30. 2 ton Morris portable, Crane machanically operated	..	2,000

V. TOOLS.

1. Taps and Dies, Expansion, Reamers with and without pilots and valve seat cutters	..	1,600
2. Utility Puller set	..	200
3. General Purpose tools		2,500
4. Tool Stands		500
5. Measuring instruments and alignment indicators etc.		2,000

VI. LUBRICATION.

1. Complete Equipment for high pressure lubrication.		5,000

VII. TYRE REPAIR

1. Complete set for tyre forming and repair	..	2,000
2. Vulcaniser and Tools	..	3,000

VIII. PAINT SHOP EQUIPMENT.

1. Spray Painting Outfit	..	1,200
2. Air Purifier and regulator		370

IX. MISCELLANEOUS SECTION:

1. Fire Extinguishers (2 Nos)		500
X. LABORATORY FURNITURE	..	6,000
XI. DEPARTMENTAL LIBRARY	..	5,000
TOTAL ..	..	1,54,300

1/6

S. R. [illegible]
3.6.46
Superintendent.

57/24/6 College of Engg. Guindy - Mech. Engg. Dept - Strengthening of —

23 ODH(A)

9 P(C)

Read again G.O. (Ms) No. 2178 Edn d/ 22-12-45.

Ref. ~~From the Jt D. of I&C No. 7288 Cb/45 d/ 30-5-46~~ From the D.P.I. Re No 851 A/45 d/ 8.1.46

p13 CF

Rd 27/7/46

Memo No. 16984 A/46 - 3 Edn d/ 22-6-46

A Copy of the report of the the Committee appointed in G.O. No. 2178 Edn d/ 22-12-45 to examine the question of strengthening the Mech. Engg. Dept of the College of Engg. Guindy is forwarded to the DPI and he is requested to offer his ~~views~~ remarks on the several recommendations of the Committee and also to report the cost involved on each item.

To
The DPI ✓
(with encl)

Despd with encls
26-6-46

CS
17-6-46

17-6-46

18/6/46

Copy of pp 15-22 CF
take S.C. for stockfile

10 31

G.F. 88.

Education DEPARTME

In reply, please quote number, date and short title.*

Received ______ Registered ______

From (Name) Dr. S.R.U.Savoor, M.A., D.Sc., I.E.S.,

(Designation) Director of Public Instruction, Madras.

Post Box ______, (Station) ______,

Telegraphic Address ______

ASST. SECRETARY TO GOVERNMENT
72759
27 NOV 1946
EDUCATION AND PUBLIC HEALTH DEPT.

To

The Secretary to Government,
Education and Public Health Department, Madras.

Roc. No. 4265 K2/46, dated 28-10-1946 ~~26-11-1946.~~ 19 .

Sir,

College of Engineering, Guindy - Strengthening of the mechanical Engineering Department -

----

Enclosures ______

Spare Copies ______

Ref: Government Memo No.16984 A/46-3 Edn., dated 22-6-1946.

-----

p23 ante

I have the honour to state that I am in complete agreement with the several recommendations of the Committee constituted in G.O.No.2278 Edn., dated 22-12-45. I submit the following remarks.

(V)

1. Staff: The Committee report that the staff of the mechanical Engineering Department is inadequate. They recommend that an additional instructor and an additional Assistant Instructor are necessary. They feel that the Professor of Mechanical Engineering should be relieved of a considerable amount of clerical work which he is now doing and this will necessitate the employment of a stenographer in addition-the Principal has recommended the employment of the following additional staff:

p17 ante

1 Demonstrator in Chemistry in Fuels Laboratory.
1 Draughtsman.
1 Store Keeper.

N

The employment of the above staff may kindly be sanctioned.

The Committee are of opinion that the starting salaries offered to Instructors, Assistant Instructors and Demonstrators are not adequate to attract the best type of men. They recommend that a starting salary of Rs.260/- in the case of Instructors, Rs.150/- in the case of Assistant Instructors and a scale of pay of Rs.70-10/2-100 in the case of demonstrators will be necessary so as to attract the best and most suitable men. The fixing of a higher initial pay for a promotee to the Provincial Service has already been accepted by Government and therefore an Instructor will be started on Rs.260/-. I request that the recommendation to fix the initial pay at Rs.150/- to Assistant Instructors may be accepted. In G.O. No.1348 Edn., dated 11-7-46, Government sanctioned that the pay of Assistant Instructors and Laboratory Assistants in the Engineering College may be fixed at Rs.155/- on the analogy of the Supervisors in the Public Works Department. This concession will however expire after 31-12-1946. I submit that in order to attract the best type of men and in order to create a sense of security in service, Government may be pleased to sanction a starting pay of Rs.150/- for the Assistant Instructors. With regard to demonstrators, Government have already sanctioned the revision of the scale of pay to Rs.70--10/2--100. vide G.O.No.845 Edn., dated 18-4-46.

(W)

Not put up

p.t.o.

The Committee recommend the employment of additional mechanics and skilled workmen to look after the various machines and to keep them in working order and that the same scale as is provided for the Electrical branch of the College should be sanctioned. The following additional personnel will be required:-

A

1 Mechanic	Rs.38-2/2-50
1 Gas mechanic	do.
1 Laboratory Attender.	Rs.19--30.
2 Cleaners.	Rs.19--24
1 Fitter-turner	Rs.35--2/2--39--1/2--40.
1 Instrument Repairer.	Rs.35--3/2--53--2/2--55.

The employment of the above personnel may kindly be sanctioned. The Principal has pointed out that it is very doubtful whether skilled personnel under the various trades can be obtained on the starting pay mentioned above and that it may be necessary to start them on a higher initial salary if such a contingency arises.

2. Equipment. The provision of additional funds for increasing the equipment of the mechanical engineering laboratory and making them up to date is very essential. A grant of Rs.1½ lakhs for the mechanical engineering side, one lakh for the Automotive Engineering side and Rs.30,000/- for Foundry may be sanctioned. From the quotations I have recently obtained for Machines I find that the present prices are in some cases higher than those estimated by the Committee and if all the equipment is to be obtained it is likely to cost more than the amounts mentioned. However for the present an amount of Rs.2,80,000 may be sanctioned as a block grant spread over a period of 2 or 3 (preferably two) years. The list of equipment as suggested by the Committee may be approved. I may also bring to the notice of Government that many firms have stated that for some machine tools they want as much as one year for delivery. The Principal proposes to submit a separate scheme to overhaul the existing model room and it will be submitted on receipt.

1,50,000
1,00,000
30,000
2,80,000

May be awaited

3. Accommodation. The mechanical Engineering laboratory and testing room are completely cramped and require to be spread out immediately. As recommended by the Committee, ~~xx~~ arrangements may kindly be made to transfer the buildings constructed by the Labour Department of the Government of India.

4. Courses of study. In order to meet the proposed industrial requirements of this province, it is necessary to offer specialised courses in mechanical engineering. The Principal reports that ~~xx~~ a syllabus in Automotive Engineering is under preparation by the University and that with the Equipment already available in the College and with the additional equipment proposed by the Committee it will be possible to start a specialised course in Automotive Engineering or Transport or Maintenance in July 1947, if the necessary staff is sanctioned for this purpose. The course in Production and Manufacture can be started only after the syllabus is drawn up and approved by the University.

May be awaited

5. Admission. The Principal has suggested (1) that each student should be earmarked for a particular branch even at the time of admission and (2) that the number of seats in each branch should be definitely fixed. The suggestions of the Principal may be accepted. Proposals in this regard will be obtained by the Principal and submitted to Government separately.

May be awaited

6. Workshop and hours of work. The recommendation of the Committee that the workshop should be under the control of the Professor of Mechanical Engineering may be accepted. The Principal states that the staff of skilled personnel now employed in the workshop is inadequate to carry out indents placed by other departments on the workshop. With regard to the suggestion that fabricating and testing of machines and materials for the public are to be undertaken, the Principal states that this may be possible only if the staff has increased and allowed reasonable scale of pay. On the suggestion ~~tion~~ of the Committee that the laboratories and workshops should be kept open during the summer vacation, the Principal reports that as this is a major question, it has to be considered separately. Proposals will be obtained and submitted to Government in due course. As regards the utilisation of the full working period of the workshops for instructional

[illegible] - Please see pp 49-53 infra

purposes, the Principal states that it was not possible to do this during the last five years as the workshop was being utilised by the Government of India for the training of War Technicians and that suitable changes have been made in the current year.

Made ✓

The Committee has observed that the workshop is manned by a Junior Instructor and that it should be under a Gazetted Officer. To this end they have recommended the creation of a post of workshop Superintendent on a scale of Rs.420--700. This observation is incorrect as the workshop is at present under a senior workshop Instructor who is a gazetted Officer. Proposals for the revision of the pay of the Senior Workshop Instructor have been submitted to Government. Vide my letter Rc.No.2561 C/46 dated 5-8-46.

not furnished

Memo No 44389-3/46 dated 25-1-47

Pay revised from Rs 200-420 to Rs 260-420 in G.O. No. 6309 dated 14.8.47

not furnished

7. Research: The Principal expects that greater impetus will be given for research with the increased equipment and staff sanctioned for the department. He however recommends that as suggested by the Committee that Professors and Instructors may be deputed to foreign countries and factories to enable them to study the latest methods.

I request that the above recommendations may kindly be accepted and that the employment of the additional staff may be sanctioned with effect from the beginning of the next academic year.

25.11.46

for Director of Public Instruction.

k.h.26-11.

26.11.46

61/15/1

1611

very urgent

Edn and P.H. Dept
A.

Telephone Message by Post d/ 15/1/47

From
The Asst Secy to Govt, Edn and P.H. Dept

To the Dy D.P.I.

17/1

College - Eng. Guindy - strengthening of Mechanical Eng. Dept
Ref letter from the D.P.I.
No: 4265 K2/d 26.11.46.

pp 31-33 ante

Please furnish a clear financial statement showing the recurring and non-recurring expenditure involved on account of the proposals made in the letter cited above

2 Please also furnish information on the following points:—

56

(1) when ~~were~~ the buildings referred to in para 3 of the letter were constructed

(2) were any conditions imposed when the Govt of India was permitted to construct these buildings

(3) how many such buildings are there now and how many of them are required for the use of the college

(4) whether the buildings are used by anybody now and if so by whom.

(5) whether any expenditure will have to be incurred on alterations to these buildings in case they can be obtained for the use of the college and if so how ~~much~~ much.

3. Information about the staff now employed in the Mechanical Eng dept of the college may also be furnished

11/1/47

12/1/47

[Already out are hall handled]

45

(13)

C.F. 32.

In reply, please quote number, date and short title.

E D U C A T I O N DEPARTMENT.

Received .... Registered ....

From (Name) DR. S.R.U. SAVOOR M.A., D.Sc., I.E.S.,

(Designation) DIRECTOR OF PUBLIC INSTRUCTION,

Post Box ...., (STATION) M A D R A S.

Telegraphic Address ....

ASST. SECRETARY TO GOVERNMENT
8 - OCT 1947
EDUCATION AND PUBLIC HEALTH DEPT.

The SECRETARY TO GOVERNMENT,
EDUCATION & PUBLIC HEALTH DEPARTMENT.

Roc No. 4265.K2/40 dated 7th October 1947.

Sir,

80080

SUB: COLLEGE OF ENGINEERING, Guindy - strengthening of the machanical Engineering department.

REF: Telephonic Message by post dated 15..1..47.

******

ENCLOSURES .... pp35-36 ante.

SPARE COPIES ....

I have the honour to furnish in the appendix a statement showing the recurring and non-recurring expenditure involved on the proposals referred to above.

pp46-47 infra

2. With regard to para 2, I enclose herewith a copy of letter Rc.10-1-A/46 dated 21.4.47 from the Principal, College of Engineering, Guindy furnishing information on the points required. He states that only the extensions to the Mechanical Engineering Laboratory and the carpentry put up by the Government of India are involved in connection with the present proposal and that no alterations are required in these buildings. As regards other buildings constructed by the Government of India, the Principal has promised to submit separate proposals for alterations and these will be submitted on receipt.

3. The existing staff in the mechanical Engineering Department consists of:

- 1 Professor.
- 1 Instructor.
- 2 Asst.Instructors -in the subordinate Educational service.
- 2 Asst. Instructors-in the cadre of Supervisors of the P.W.D.
- 2 Laboratory Assistants(one temporary).
- 1 Mechanic.
- 1 Cooly.
- 1 Boiler attender(temporary)
- 1 Stoker and cleaner for boiler(temporary)
- 1 Gasman (temporary)
- 1 Stoker and cleaner for gashouse(temporary).

for DIRECTOR OF PUBLIC INSTRUCTION.

Ram.7/10/47.

7/10

(PTO)

APPENDIX.

para 2 p32 anti

			Rs.
Non-recurring:			
Equipment(Spread over 2 years)		..	2,80,000
Recurring (staff (in 1947-48 from 1.11.'47).			
1 Demonstrator	80-140	..	320
1 Draughtsman.	70-120		280
1 Store-keeper.	45-90		180
1 Mechanic.	40-65		160
1 Gas-mechanic.	40-65		160
1 Laboratory Attender.	24-35		96
2 Cleaners.	22-30		88
1 Fitter-turner.	40-55		160
1 Instrument repairer.	35-60		140
1 Instructor	260-700		1040
1 Assistant Instructor.	180-280		720
1 Steno-grapher	45-90 plus Rs.35/spl.pay.		320
			3664 or 3700/-

p31 anti

p32 anti

p31 anti

Ultimate cost.

Demonstrator	$116\frac{2}{3} \times 12$	1400
Draughtsman	95×12	1140
Store-keeper	$67\frac{1}{2} \times 12$	810
Mechanic	$52\frac{1}{2} \times 12$	630
Gas mechanic	$52\frac{1}{2} \times 12$	630
1 Laborary Attender.	$32\frac{1}{2} \times 12$	390
2 Cleaners.	$2 \times 26\frac{16}{45} \times 12$	633
Fitter - turner	$50\frac{5}{6} \times 12$	610
Instrument Repairer	$43\frac{1}{3} \times 12$	520
Instructor.	$475\frac{1}{9} \times 12$	5701
Assistant Instructor	$248\frac{3}{4} \times 12$	2985
Steno-grapher.	$67\frac{1}{2} + 35 \times 12$	1230
		16179 or
		16200

Copy of R.C.10-1-A/46 dated 21-4-1947 of the Principal, College of Engineering, Guindy.

...

Sub: College of Engineering, Guindy - Strengthening of the Mechanical Engineering Department.
Ref: Your Proceedings R.O.C.No.4265-K/2/46 dated 24-1-1947.

The first lot of buildings comprising 6 hostel blocks, block of kitchen, dinning rooms and a block of lavoratories.were constructed by the Labour Department, Government of India in May-June 1941. The estimated cost of these buildings was Rs.76,000/-.

The second block of buildings, comprising two additional hostel blocks, one hospital block, one block of servants' quarters and extensions to the Mechanical laboratory and Workshop xxxx were constructed in 1943. The estimated cost of these buildings was Rs.85,700/-.

Orders of the Director of Public Instruction or the Government of Madras permitting the Government of India to construct buildings in the College compound are probably in the files of the office of the Technical Training Centre which has been closed. However, I think that the Government of India had obtained the permission of the Government of Madras for construction of buildings in the college compound.

(P.T.O.)

As far as I know, no agreement was entered into with regard to the disposal of these buildings. The usual rules with regard to the disposal of such buildings will,therefore, apply. The Government of India can be requested to have these buildings removed from our premises. In that case, the Government of India will have to arrange to auction these buildings for dismantling and removal of the building materials. Alternately, the Government of Madras can negotiate with the Government of India for the purchase of these buildings.

The College has occupied all these buildings except one hostel block which is occupied by the Surveyor trainees who are being trained under the Re.settlement scheme for Demobilised Soldiers, successor of the War Technican Training Scheme. I understand that the buildings are being occupied with the permission of Mr.V.Ramakrishna I.C.S.,Regional Director of Resettlement and Employment.

I suggest that the Government of Madras may start negotiations with the Secretary to the Government of India, Works, Mines and Power Department, New Delhi for disposal of these buildings to the College.

In this connection, I would like to point out that the hostel buildings are what are known as hutments and I do not think that they are worth much more than their salvage value, as the trusses are of country wood which have already deteriorated after about 6 years. These blocks are not suitable for College students and considerable modifications will have to be made to make them suitable for the College students. The same spplies to the kitchen and dinning blocks, hospital and servants' quarte As regards the extensions to the Mechanical Laboratory and Workshop,thes are better types of buildings, but they have wooden trusses and their va may be fixed by negotiationx.

I also suggest that pending conclusion of the negotiations, the Government of India may be requested to hand over the buildings to the Madras Government so that the Madras P.W.D. may take over the maintenanc of the buildings. At present, these buildings are in charge of the Centr P.W.D. but are not being maintained by them, as according to them(the C.P.W.D.)these buildings are unoccupied.

When the buildings come into the possession of the College, it is proposed to use them as follows:-

1) 8 hostel blocks for residence of the College students.
2) the hostel block as common room for the students.
3) The block of kitchen and Dinning rooms as Kitchen and Dinning rooms for the College hostel.
4) Servants' quarters to be given as quarters for menials.
5) The extensions to the Mechanical Laboratory and the Workshop for expansionx of the Mechanical Engineering Department as suggested by the Strengthening Committee.

/True copy/

2/2

for DIRECTOR OF PUBLIC INSTRUCTION

RAM.7/10.

7/10

48

A

(15) 49

Office of the
ROC. No. 1409.K.2/47 Director of Public Instruction,
Madras, dated 30th Septr. 1947.

From
Dr. S.R.U. Savoor, M.A., D.Sc.(Lond), I.E.S.,
Director of Public Instruction, Madras.

To
The Secretary to Government,
Education and Public Health Department,
Madras.

Sir,

SUB:- College of Engineering, Guindy = Intensive Training for the college students during the summer vacation.

ASST. SECRETARY TO GOVERNMENT
38758
4 AUG [illegible]
EDUCATION AND PUBLIC HEALTH DEPT.

pp 51-53 infra

I have the honour to enclose herewith a copy of letter RC.No.1-90.B/47 dated 30th September 1947 from the Principal College of Engineering, Guindy submitting proposals for keeping open the college workshop during the summer vacation. I recommend that the proposals of the Principal may kindly be accepted.

2. As stated therein, the extra cost to Government on this account will be Rs.9,000/- (Rs.6,100 towards honorarium to the staff and the salary of the workmen and Rs.2,900/- towards the cost of materials and other contingent charges). I am including the necessary provision in Part II of my estimates for 1948--49.

for Director of Public Instruction.

KAN.30/9

To

The Director of Public Instruction,
MADRAS.

Sir,

Sub: Intensive training of college students during the summer vacation.

In my letter Rc.No.137/46 dated 26-2-47 requesting that the College Workshop may be kept open during the summer vacation of 1946-47, I had pointed out that it would be necessary to keep the workshop open for a number of years in order to cope up with the increasing orders from the increased number of departments in the college, and the inability of the workshop to cope up with these orders during the session owing to the increase in the workshop practice hours of the students, as well as the increase in the number of students.

2, A great drawback from which the students of our college have been suffering is lack of facilities for practical training in industries. It is most desirable that students should have practical training during the course, and as industries are not prepared to give such facilities for practical training, such training has to be arranged in the college during the vacation. I am submitting herewith proposals for intensive training of college students in the workshop during the summer vacation.

3, It is proposed that a student would keep workmen's hours and work for 48 hours per week. He would be employed, as far as possible, in productive work in preparing articles required by the various departments of the college. When this scheme is fully developed, it may be possible to take up even orders from outside bodies for execution during this intensive course period.

4. In submitting the financial implications of the proposal, I would say that the bulk of the expenditure in providing intensive training will be on account of wages of wor men. Since the workshop has to be kept open even without tr training, the only additional expenditure on account of in tensive training would be for materials required and the

remuneration that will have to be paid to the staff. I request the Director to consider whether this extra expenditure should not come from the additional income that is accruing from the enhancement of the fees of the college students and thereby contributing a small part of this extra income towards meeting the training of the students in the college and increasing their utility to the country. I may add that with 500 students in the Engineer class, the additional income from increase in fees by 20% would ultimately amount to approximately Rs.18,000 of which 25% would ~~have~~ bee used for increased number of scholarships and fee co cessions, leaving a balance of about Rs.13,500/- .

A portion is [illegible] for [illegible] half the scholarships

5. The Supervisory staff of the workshop, namely, the Senior Workshop Instructor, Junior Workshop Instructor and the Workshop Assistant will not be able to cope up with this intensive work and 2 non-Gazetted members of the staff from the Mechanical Engineering Department will have to be employed. In addition to this, we shall have to have the Professor of Mechanical Engineering for general supervision and for planning of training and production. It would not be enough to give these members of the staff the usual compensation for working during the vacation, namely 1/3 of the periods spent on duty. As their hours of work will be much larger than their hours of work during the regular session, and they will not only work during the very hot weather but after the end of a strenuous session, when they require rest and relaxation, I think that the grant of compensatory leave would be most inadequate remuneration for their extra work, and that each member of the staff should be granted at least 50% of his salary in addition to compensatory leave given.

6. The additional expenditure on account of the staff employed during the summer vacation would be as follows:--

Contd.

Designation.	Salary.	Compensation for 2 months.
Professor of Mech. Engineering.	900	900
Senior Workshop Instructor.	260	260
Junior Workshop Instructor.	180	180
Workshop Assistant.	100	100
Mechanical Laboratory Assistant.	180	180
Asst. Instructor in Mechanical Engineering.	180	180
		1800
Dearness Allowance.		... 315
TOTAL.		Rs.2115

7. In addition to the remuneration to staff, a sum would be required for materials such as, pig iron, coke and steel. Allowing an average of Rs.5/- per student, the amount on account of materials would come to Rs.2,500. The additional expenditure on account of the intensive course would be Rs.2115 on staff plus Rs.2500 on materials or a total of Rs.4615. Allowing for contingencies, the expenditure may be put at Rs.5,000 giving thereby an expenditure of Rs.10 per student for their intensive training. I submit that the amount is ~~xxxxxx~~ inappreciable compared with the enormous benefit that the students will derive from the training.

8. Even if the expenditure on account of workmen's wages which would amount to about Rs.4000 is debited to the cost of intensive training, the total expenditure would be Rs.5000 plus Rs.4000, or Rs.9000 for 500 students, giving Rs.18 as the cost of training per student.

9. At present, practical training during the vacation is not compulsory. It would be necessary to pass an order making the practical training during the vacation as compulsory.

J. J. Kudar

PRINCIPAL

~~Taking~~ 50 Copies

Part II ~~N~~ote for 1948-49. (18) E.P.4.(A)

Sub: College – Engg., Guindy – Strengthening of the Mechl. Engg Dept. – ~~Proposal~~.

Summary.

Heads of account (1)	Items of expre. (2)	Ultimate cost Recurring Rs (3)	Ultimate cost N.R. Rs (4)	cost in 1948-49 (for 6 months) Recurring Rs (5)	cost in 1948-49 (for 6 months) N.R. Rs (6)
37. Education – ~~A~~ Rety. d. Govt. Professional colleges – B Engg. college, ~~Guindy~~.					
1. Pay of officers	Voted 1 Instructor (Rs 260-40/2-500-50/2-700) Average pay Rs ~~480~~ 475·1	5,700 ~~5,800~~	–	2,100 ~~2,000~~	–
2. Pay of establishments P 203 of detailed Budget Estimates 1947-8	Voted 1 Draughtsman (Rs 70-2-90-3-120) Average pay ~~104.4~~ 95 1 Store keeper (Rs 45-3-60-2-90) Average pay 67.5 1 mechanic (Rs 40-2-50-1-65) Average pay 52.5 1 gas mechanic (Rs 40-2-50-1-65) Average pay 52.5 1 laboratory attender (Rs 24-1-32-½(A)-35) Average pay 30.2 2 cleaners (Rs 22-½(A)-30) Average pay 21.3 1 Fitter turner (Rs 40-2-50-1-65) Average pay 52.5 1 instrument repairer (Rs 35-2-55-1-60) Average pay 48.9 1 Assistant instructor (Rs 180-10-280) Average pay 241.1 1 stenographer (Rs 45-3-60-2-90) Average pay 67.5 Special pay (35)	9,400 ~~9,700~~	–	✓ 4,800	–
Workshop maintenance		–	2,500	–	2,500
~~Allowances and Honoraria~~ Other charges	Dearness and cost of living allowances ~~D.A. H.R.A.~~ ~~Other allowances~~	3,600 ~~900~~	–	2,000 ~~4,500~~	–
	Honoraria and other Compensatory (M.H.A and H.R.A)	3,800	–	3,200	–
~~Other charges~~	~~Lab and other equipment~~ Apparatus and materials	–	~~82,500~~ 2,80,000	–	~~1,52,500~~ 1,50,000
~~Contingencies~~	Pay of menials ~~Other contingencies~~	4,000	– ~~4,000~~	2,700	– ~~4,000~~
Other contingencies		400	– ~~400~~	300	~~400~~
Total.		~~19,400~~ 26,900	~~2,86,900~~ 2,82,500	~~11,300~~ 15,100	~~156,900~~ 152,300

p 204 of detailed Budget Estimates 1947-8.

333 3/8
2666.4
333 3/8
166.4

53

Explanatory note

In December 1945, the Govt. appointed a committee to examine the question whether the Mechl. Engg. Dept. of the Engg. college, Guindy, ~~required~~ should to be strengthened or expanded ~~with a view~~ to meet the demand for Mechl. Engrs., which the large programme of industrialisation ~~laid down~~ for the Presidency might require. The committee submitted its report in May 1946 and the remarks of the D.P.I. were then called for on the several recommendations contained in the report. The D.P.I. has recommended that the addl. staff mentioned in the Summary above may be employed. It is proposed to accept this recommendation and to sanction the posts for a period of two years from 1948-49, in the first instance. The Director has also recommended that a block grant of Rs 2,80,000/- spread over the next two years, may be sanctioned, for expr. towards increasing the equipment in the Mechl. Engg. laboratory and for making (the laboratory) ~~it~~ uptodate. It is proposed to accept this recommendation and to include a provision of Rs 1½ lakhs in the Budget ~~annual~~ Estimate ~~of expr.~~ for 1948-49 and the balance in 1949-50 for the purpose.

2. The D.P.I. has further proposed that, in order to cope up with the increasing ~~demands~~ orders from the ~~increased~~ various depts. in the college, and to provide intensive training to college students, the workshop of the college should be kept open during the summer vacation for some years. The addl. expr. on account of the proposal, in 1948-49 is estimated at about Rs 9,000/-. ~~In the circumstances~~ ~~It is proposed to accept~~ this proposal also. may be accepted

3. In order to meet the expr. on the above proposals, the ~~Dept. recommend~~ that provision may be included, as shown in the Summary at the top, in the annual estimate of expr. for 1948-49.

18/12/47

12-12-47

G.O. 2178 Edn 2-12-45

p 13 c.f.

p 23 c.f.

p 31-32 & 46 c.f.

vide 'A' on p 4 n.f. & p 11 n.f.

p 32 c.f.

vide 'B' on p 5 n.f.

p 49-53 c.f.

x p 49 c.f.

vide 'C' on p 6 n.f.

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(19) 56

Part II Scheme for 1948-49.

Sub: College- Engineering- Guindy- Strengthening of the Mechanical Engineering Department.

SUMMARY.

Heads of Account	Items of expenditure	Ultimate cost		Cost in 1948-49.	
		Recurring	Non-Recurring	Recurring	Non Recurring
(1)	(2)	Rs. (3)	Rs. (4)	Rs. (5)	Rs. (6)
37Edn.-University-d-Govt. professional colleges-B.Engg. college					
1 Pay of officers	Voted 1 Instructor (Rs260-40/2-500-50/2-700) Average pay:Rs.475-1	5,700	-	2,100	
2.Pay of establishments.	VOTED 1 Draughtsman (Rs.70-2-90-3-120) Average pay:95) 1 Store-keeper (Rs.45-3-60-2-90) Average pay:67.5. 1 machanic (Rs.40-2-50-1-65) (Average pay:52.5 1 Gas machanic (Rs.40-2-50-1-65) (Average pay: 52.5 1 Laboratory attender Rs.24-1-32-1(A)-35) Average pay: 30.2) 2 Cleaners Rs.22-1(A)-30) Average pay: 21.3) 1 Fitter Turner Rs- 40-2-50-1-65) Average pay: 52.5 1 instrument repairer (Rs.35-2-55-1-60) Average pay: 48.9 1 Asst. Instructor (Rs. 180-10-280) Average pay: 241.1) 1 Stenographer (Rs.45-3-60-2-90) Average pay: 67.5. Special pay(35)	9,400		4,800	
3.Workshop mainteance		--	2,500	-	2,500
4.other charges	Dearness and cost of Living Allowances	3,600	--	2,000	-
	Honoraria and other compensatory (M.H.A.) and(H.R.A.)	3,800	--	3,200	-
	Apparatus and materials		2,80,000	-	1,50,000

/p.t.o./

(1)	(2)	(3)	(4)	(5)	(6)
	Apparatus and materials	--	2,80,000	-	1,50,000
	Pay of menials	4,000	--	2,700	-
	Other contingencies	400	--	300	-
	Total	26,900	2,82,500	15,100	1,52,500

Explanatory Note.

In December 1945, the Government appointed a Committee to examine the question whether the Mechanical Engineering, Department of the Engineering College, Guindy should be strengthened, or expanded to meet the demand for Machanical Engineers, which the large programme of industrialisation of the Presidency might require. The Committee submitted its report in May 1946 and the remarks of the Director of Public Instruction were then called for on the several recommendations contained in the report. The Director has recommended that the additional staff mentioned in the summary above may be employed. It is proposed to accept this recommendation and to sanction the posts for a period of two years from 1948-49 in the first instance. The Director has also recommended that a block grant of Rs 2,80,000 spread over the next two years may be sanctioned, for expenditure towards increasing the equipment in the Mechanical Engineering laboratory and for making the laboratory uptodate. It is proposed to accept this recommendation and to include a provision of Rs 1½ lakhs in the Budget Estimate for 1948-49 and the balance in 1949-50 for the purpose.

2. The Director of Public Instruction has further proposed that, in order to cope up with the increasing orders from the various departments in the college, and to provide intensive trainin to college students, the workshop of the college should be kept open, during the summer vacation for some years. The additional expenditure on account of the proposal in 1948-49 is estimated at about Rs. 9,000/- This department consider that this proposal may be accepted.

/p.t.o/

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3. In order to meet the expenditure on the above proposals this Department recommend that provision may be included as shown in the summary at the top, in the annual estimate of expenditure for 1948-49.

M.V. Subramanian,
Secretary to Government.

RPS/19.12.

Education and P.H.Dept(A)

COLLEGE - Engineering- Guindy - Mechanical Eng. Department - Improvements - Orders Passed.

pp 31 + 45 cf.

From the D.P.I. No. 4265-K2/46 dated 28-10-1946
and 7-10-47.

ORDER/MS. ~~(Edn.)~~ 1142 Edn. DATED 6-5-48

- -

p 57 cf.

In December 1945 the Government appointed a Committee to examine the question whether the Mechanical Engineering Department of the Engineering College, Guindy, should be strengthened or expanded to meet the demand for Mechanical Engineers which the large programme of industrialisation of the ~~Presidency~~ Province might require. The Committee submitted its report in May 1946 and the remarks of the D.P.I. were then called for on the several recommendations contained in the report. The Director has submitted certain proposals to implement the recommendations of the Committee. The Govt. have examined these proposals and pass the following orders:

Additional Staff:

The Government sanction the employment of the following additional staff in the Mechanical Engineering Department of the College for a period of two years from the academic year 1948-49:

pp 4 + 11 cf

M

One Instructor	(Rs 260-700)
One Assistant Instructor	(Rs 180-280)
One Draughtsman	(Rs 70-120)
One Store-Keeper	(Rs 45-90)
One Mechanic	(Rs 40-65)
One Gas Mechanic	(Rs 40-65)
One Labaratory Attender	(Rs 24-35)
Two cleaners	(Rs 22-30)
One Fitter Turner	(Rs 40-65)
One Instrument Repairer	(Rs 35-[illegible])

One Stenographer (Rs 45-90 plus Rs 35 Special pay)

The Director is requested to explain the necessity for the appointment of a Demonstrator in Chemistry in the Fuels Labaratory. As regards the Director's suggestion that the salaries of Instructors, Asst. Instructors and Demonstrators are inadequate, he is informed that the Govt. have since revised the salaries of these categories of employees in G.Os. No.78 Finance dated 6-2-47 and No.630 Finance dated 14-8-47 and they do not consider that any further revision is necessary.

p11nf

p4nf

not put up

Equipment.

The Government sanction a blockgrant of Rs. 2,80,000/- for increasing the equipment of the Mechanical Engineering Laboratory. The expenditure will be spread over two years i.e. an expenditure of Rs. 1,50,000 may be incurred in 1948-49 and the balance in 1949-50.

pp5 & 11nf

The Principal's scheme to ~~overhand~~ overhaul the existing model room is awaited.

p5nf

Accommodation.

The buildings constructed by the Govt. of India in the compound of the Engg. College, Guindy, have since been made available to the college - vide G.O.No.3376 P.W. dated 13-11-47 and Directors letter No.4265 K2/46 dated 5-2-48.

p5nf

Ⓦ

p59 Ⓢ

Courses of study and admission.

The D.P.I. is requested to report the stagesat which the matters referred to in paras 4 and 5 of his letter No.4263-K2/46 dated 28-10-46 stand at present.

p5nf

p32cf

Workshop and hours of work.

The Govt. approve the proposal of the D.P.I. that the workshop may be placed under the control of the Professor of Mechanical Engg. They also approve of the Director's proposal that intensive training should be ~~proposed~~ arranged for the students of the colleges in the workshop during the summer vacation of the college. An additional expenditure not exceeding Rs. 9000 may be incurred on the purchase of materials required in this connection. Orders have already been issued in G.O.No. 670 Edn. dated 25-3-48 approving the Director's proposal to keep the workshop open ~~day and summer~~ during the ensuing summer vacation ~~vacation of 1948-49~~.

p5nf

pp9-11nf

Ⓝ

The Government are unable to approve the Director's proposal that members of the staff detailed for duty in the workshop during the summer vacation should be granted any special ~~recommendations~~ remuneration. They consider that it will be sufficient if they are granted compensatory leave in accordance with F.R. 82(6).

pp10-11nf

Research

~~The~~ As regards the Director's suggestion that Professors and Instructors may be deputed to foreign countries and factories to enable them to study the latest methods, he is informed that this is being done now; a number of persons from the Eng colleges have been sent for special training in certain Eng subjects to U.K. and U.S.A. So Govt. do not consider that any particular action is required now.

pp6-7nf

The D.P.I. is informed that necessary provision has been made in the Budget Estimate for 1948-49 under "37 Edn. University - Govt. Professional Colleges - B Engineering College"

To:

The D.P.I.
" Principal, Engg College, Guindy
" Fin.Dept(Budget)
" A.G.thro'Fin.
4 s/c

30/4/48

30/4/48

7-5-48

EXTRACT FROM THE FILE re: STRENGHTING OF MECHANICAL ENGINEERING DEPARTMENT IN THE ENGINEERING COLLEGE, GUINDY, bearing c.No.16984/ab.

* * *

1) Extracts from the report of the Engineering College, Mechanical Engineering Strengthing Committee.

X X X

(3) Accommodation: While the Committee are satisfied that the existing floorspace in the Engineering College is adequate, they are not satisfied with the space allotted to the mechanical engineering section. They find that the laboratory and the engine testing rooms are too cramped and the equipment requires to be spread out. They recommend therefore that more space should be allotted to the Mechanical branch and the blocks of buildings put up by the Labour and other Departments of the Government of India be transferred to the Mechanical Engineering branch.

x x x

Summary of the main recommendations.

(5) the blocks of buildings built by the Government of India be transferred to the Mechanical Engineering branch.

2) Extracts from the Director of Public Instruction's letter No. 4265-K2/46 dated 26-11-46.

x x x x

(3) Accommodation. The mechanical Engineering laboratory and testing rooms are completely cramped and require to be spread out immediately. As recommended by the Committee, arrangements may kindly be made to transfer the buildings constructed by the Labour Department of the Government of India.

x x x

Letter of the Principal, Engineering College, Guindy to the Director of Public Instruction No.10-1/A546 dated 21-4-47.

* * *

Sub: College of Engineering, Guindy - Strengthening of the Mechanical Engineering Department.

* * *

The first lot of buildings comprising 6 hostel blocks, block of kitchen, dining rooms and a block of lavatories.were constructed by the Labour Department, Government of India in May-June 1941. The estimated cost of these buildings was Rs.76,000/-

The second block of buildings, comprising two additional hostel blocks, one hospital block, one block of servants' quarters and extensions to the Mechanical laboratory and Workshop were constructed in 1943. The estimated cost of these buildings was Rs.85,700/-

Orders of the Director of Public Instruction or the Government of Madras permitting the Government of India to construct buildings in the College compound are probably in the files of the office of the Technical Training Centre which has been closed. However, I think that the Government of India had obtained the permission of the Government of Madras for construction of buildings in the college compound.

As far as I know, no agreement was entered into with regard to the disposal of these buildings. The usual rules with regard to the disposal of such buildings will, therefore, apply. The Government of India can be requested to have these buildings removed from our premises. In that case, the Government of India will

P.T.O.

65

have to arrange to auction these buildings for dismantling and removal of the building materials. Alternately, the Government of Madras can negotiate with the Government of India for the purphase of these buildings.

The College has occupied all these buildings except one hostel block which is occupied by the Surveyor trainees who are being trained under the Re.settlement scheme for Demobilised Soldiers, successor of the War Technican Training Scheme. I understand that the buildings are being occupied with the permission of Mr. V.Ramakrishna I.C.S., Regional Director of Resettlement and Employment.

~~[illegible] India,~~

I suggest that the Government of Madras may start negotiations with the Secretary to the Government of India, Works, Mines and Power Department, New Delhi for disposal of these buildings to the College.

In this connection, I would like to point out that the hostel buildings are what are known as hutments and I do not think that they are worth much more than their salvage value, as the trusses are of country wood which have already deteriorated after about 6 years. These blocks are not suitable for College students and considerable modifications will have to be made to make them suitable for the college students. The same applies to the kitchen and dinning blocks, hospital and servants' quarters. As regards the extensions to the Mechanical Laboratory and Workshop, these are better types of buildings, but they have wooden trusses and their value may be fixed by negotiation.

I also suggest that pending conclusion of the negotiations, the Government of India may be requested to hand over the buildings to the Madras Government so that the Madras P.W.D. may take over the maintenance of the buildings. At present, these buildings are in charge of the Central P.W.D. but are not being maintained by them, as according to them (the C.P.W.D.) these buildings are unoccupied.

When the buildings come into the possession of the College, it is proposed to use them as follows:-

1) 8 hostel blocks for residence of the College students.
2.) the hostel block as common room for the students.
3.) The block of kitchen and Dinning rooms as Kitchen and Dinning rooms for the College hostel.
4.) Servants' quarters to be given as quarters for menials.
5) The extensions to the Mechanical Laboratory and the Workshop for expansion of the Mechanical Engineering Department as suggested by the strengthening Committee.

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(24) 66 E. P.H. (A) 3

Memo. No. 100816 A-1/47 A Edn dated 3-1-48.

Sub: College - Engg., Guindy - Mechl. Engg. Dept. - Strengthening - Addl. accommodation.

Ref: Letter of the Principal, Engg. college, Guindy to the D.P.I. No. 10-1A/ub d. 21-4-47).

The attention of the D.P.I. is invited to G.O. No. 3376 ~~Edn~~ P.W., d. 13-11-47, in which the purchase of all the buildings of the G. of I. situated in the compound of the Engg. College, Guindy ~~referred to in the Principal's letter read above~~ ~~[illegible]~~ except ~~for~~ six hostel blocks, was sanctioned. The Director is requested to state whether the buildings of the G. of I. referred to in the letter of the Principal, Engg. college, Guindy read above are the same as those, ~~whose~~ the purchase of which ~~was~~ was sanctioned in the ~~abovementioned~~ G.O.

3/1/48

29-12-47 31/12/47

To the D.P.I.

~~4~~

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B 25

AS II

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O.F. 32.

Education Department

From (Name) Sri D.S.Reddi, M.A., (Oxon).,
Designation Director of Public Instruction,
Station Madras.

Received ___ Registered ___

To

The Secretary to Government,
Education & P.H.Department,
Madras.

Enclosures:

Rc No. 4265 K2/46 dated 5-2-1948. 194 .

9480

ASST. SECRETARY TO GOVERNMENT
9 - FEB 1948
EDUCATION AND PUBLIC HEALTH DEPT.

Sir,

Sub: College of Engineering, Guindy - Mechanical Engineering Department - Strengthening - additional accommodation.

Ref: Government Memo No.100816 A1/47-A Edn., dated 3-1-1948. of 3 ante

----

The Principal, College of Engineering, Guindy states that the buildings of the Government of India referred to by him are those purchased in G.O.No.3376 P.W. dated 13-11-1947.

M-2 ante

PRB 9/2/48

VRR 6/2

for Director of Public Instruction

k.h.6-2.

(W)

13/6/2

Extract from the notes in file bearing C. No. 16984/ub

~~NOTES FILE.~~

Extracts of notes from the file relating to strengthening of Mechanical Engineering department in the Engineering College, Guindy, bearing c. no. 16984/ub.

x x x

Accommodation.

Please see the Director's remarks on para 3 of his letter (on page 32 c.f.) and the Principal's letter on pages 46-47 c.f) Necessary extracts will be taken and a separate file started about the acquisition of the buildings in question.

M.V.S.
31-10-1947.

x x x x x x x

A draft memo to the D.P.I. is subd. [redacted]

[redacted]

iss
3/1/48

31/12/47

p 3 c.f. [Issued as Memo. No. 100816 A-1/47 A Edn. d. 3-1-48]

p 5 c.f. c.no. 9450 From the D.P.I. No. 4265 K2/ub d. 5-2-48.

Please see the D.P.I.'s letter on p 5 c.f. No further action is necessary. The papers

P.T.O.

71

may be added to the main file on the question of strengthening the Mechl. Engg. Dept. of the Guindy Engg. College.

x Part II Scheme 16984/...

6
9.2.48

10/2/48

27

72

C.F. 32.

In reply, please quote number, date and short title.*

EDUCATION DEPARTMENT.

Received ____________ *Registered* ____________

From (Name) SRI D.S. REDDI M.A., (OXON).,

(Designation) DIRECTOR OF PUBLIC INSTRUCTION,

Post Box ________, (STATION) MADRAS.

Telegraphic Address ____________

ASST. SECRETARY TO GOVERNMENT
22 JUL 1948
EDUCATION AND PUBLIC HEALTH DEPT.

54325

To

The SECRETARY TO GOVERNMENT,
EDUCATION AND PUBLIC HEALTH DEPARTMENT,

ROC.*No.* 4265-K2/46 *dated* 19th July 1948.

Sir,

*SUB: COLLEGE OF ENGINEERING, GUINDY - Strengthening of the Mechanical Engineering Department.

REF: G.O. No. 1142 Education dated 6th May 1948.

=====

(E) [illegible]

ENCLOSURES ____________

SPARE COPIES below

I have the honour to enclose herewith a copy of letter from the Principal, College of Engineering, Guindy Rc.104A/46 dated 5--7--1948 explaining the need for a Demonstrator in Chemistry for the Fuels Laboratory and proposals for overhauling the model room. In the circumstances stated Government may kindly sanction the employment of a Demonstrator, a carpenter Fitter and an attender.

A

2. The Principal has suggested that Automotive Engineering can be started either at Guindy or at Coimbatore during 1948-49. The Principal, Arthur Hope College of Technology reported that it will be feasible to start this course in the College during the current year as sufficient equipment was available. The Registrar, University of Madras has however refused to accept the proposal as it was received too late. The Principal has been requested to submit the proposal as a Part II Scheme for 1949=50. The question of introducting the course in Guindy or Coimbatore will be examined by me when proposals are submitted by the Principal, Arthur Hope College of Technology, Coimbatore.

Yours faithfully,

1/2

for Director of Public Instruction.

Ram.21/7. 21/7

Copy of R.C.No.104A/46 dated 5/6th July 1948 of the Principal, ~~Arthur Hope College of Technology, Coimbatore~~ College of Engg. Guindy to the Director of Public Instruction, Madras.

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(E)

Sub: Colleges - College of Engineering, Guindy - Mechanical Engineering Department- Improvements.

RER: G.O.No.MS.1142 Education dated 6th May 1948 and Director of Public Instruction's Proceedings Rc. No.4265-K2/46 dated 12--5--1948.

Additional Staff:- The Mechanical Engineering laboratory has a Fuels section. Students of the third year Mechanical........

2/73

mechanical, Electrical and Telecommunication Engineering have to carry out a certain number of tests in this department during the year. In addition, the final year Mechanical and Electrical students have to carry out advance tests in Fuels and Lubricating oils which is considered very essential to them in their studies. The fuels laboratory has got very delicate apparatus and considerable damage to the apparatus can be prevented if a Demonstrator is present to supervise the practical work of the students. In addition, the Department also conducts a number of tests forvarious Government Departments and other private engineering firms throughout the year. The Department has only two Laboratory Assistants and during any practical class, Laboratory Assistants are constantly engaged in supervising the work of the boys on engines, boilers and other engineering equipment and their attention cannot be all the time in the Fuels Department where work is going on simultaneously. There is sufficient work in the Fuels Laboratory for a whole time demonstrator and the salary paid to this member of staff would be more than compensated by the damage that would be prevented to delicate apparatus and would increase the efficiency of instruction to the students doing practical work in the Laboratory. The strengthening Committee considered this question very carefully and were of the opinion that a Demonstrator was necessary for this Department. I request that sanction for this appointment may be granted at an early date.

Equipment-Model Room:-With regard to the model room and the overhauling of the same, I have to report that the extension to the Carpentary shed constructed by the Central Government for the Air Force Mechanics have been purchased by the Government of Madras for the Engineering College, Guindy. This building is now being utilised as the Mechanical Engineering Department Model Room. The models have been arranged on tables available in the College, with the help of the existing staff and is already proving itself to be a source of great instructional value to the students. The model room is open daily from 6-30 in the morning to 4 P.M. in the afternoon. Many valuable models which were locked up in out-of-the way cupboards are now being displayed and are being made full use of by the students. It is, however, felt that in order to get full ~~xxx~~ value of the models and the model room, the model room must be brought up-to-date. Many of the existing models, are not in proper working order and in some cases damaged. In order to make the model room 100% effective for instruction to the students, it is felt that there should be a Carpenter Fitter and an Attender in charge of the Model Room who will attend to the necessary repairs, make new models and keep them in good working order. It is also necessary to print a small pamphlet giving the description of the model and its application so that the instructional staff and students may have a ready reference for making full use of the models. It is therefore requested that the following staff may be sanctioned and permission for printing a Brochure at a cost of Rs.200/- may be approved.

1. Carpenter Fitter - Rs.40-65. 40-55
2. Attender. - Rs.24-35 Gr III - 22-½-30

Couses of study and Admission:- A syllabus in Automotive Engineering has been prepared by a Special Committee and has been accepted by the University of Madras. It is possible to start this course either at the Guindy College or at the Coimbatore College, from the year 1948-49. The question of shortening the basic engineering courses from 4 years to 3 years is under the active consideration of the Government and the Special Committee has been appointed by the Government to go into this question. It is therefore felt that the introduction of specialised courses to meet the industrial requirements of the Province may await the decision of the Government as to whether such specialised courses should be a post-graduate course or basic engineering course.

With regard to the admission of students into the various colleges, and earmarking them for particular, branches according to instructions issued by the Director of Public Instruction in his Proceedings R.C.No.432-K2/47 dated 21-6-47 have been followed from the year 1947-48.

Sd. x x x x x
Principal.

======

/True copy/

2/2

for Director of Public Instruction.

743

Ed&PH(A)

T.M (by post) No. 54325 Alres-1 Edn d 11.8.48

From

The Secy to the Govt, Ed&PH Dept.

To The DPI.

Sub College of Engg, Guindy - Strengthening of the Mech. Engg. Dept.

From the DPI, No 4265 Kr 146 d 19-7-48

It is presumed that you do not recommend the proposal of the Principal, Engg. college Guindy for printing a Brochure at a cost of Rs 200. Pl. Confirm urgently.

11/8/48

15/8

JOICF

Pr 14/8/48

ES 9-8-48

10/8/48

A/ (29) 76/5

POST COPY OF THE TELEPHONIC MESSAGE DATED THE 20TH AUGUST 1948.

- - - -

ASST. SECRETARY TO GOVERNMENT
24 AUG 1948
EDUCATION AND PUBLIC HEALTH DEPT.

From
The DIRECTOR OF PUBLIC INSTRUCTION,
Madras.

To
The Secretary to Government,
Education and Public Health Department,
Fort St. George, Madras,

- - - - - - - - - -

Ref: My letter Rc. No.4265/K2/46, dated 19-7-1948 and your Telephonic message No.54325-A/48-1-Education dated 11th August 1948 regarding the strengthening of the Mechanical Engineering Department in the College of Engineering, Guindy.

£@£

62845

I recommend sanction for printing a brochure at a cost of Rs.200/- as it is found necessary.

M|

for DIRECTOR OF PUBLIC INSTRUCTION.

SNS/21.8/

B 23/8.

E 77

	Av. Pay	DA	HRA	Total
One Demonstrator (80-140)	116. 6	29	11	156. 6
One Carpenter fitter (40-55)	49. 1	22	7	78. 1
One Attender (22-30)	26. 3	19	5	50. 3
				285. 0
				12
Total cost p.a.				3420

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(30) 78

E.P.H. (A)

17/9

D.P.I. and E.A.

Memo. No. 54325-2/48A Edn. dated 16-9-48.

Sub: Colleges - Engg. College, Guindy - Strengthening of the Mechl. Engg. Dept. -

Read: G.O. No. 1142 Edn. d. 6-5-48.

e.no. 54325 From the D.P.I. No. 4265-K2/46 d. 19-7-48.

e.no. 62845 From the D.P.I. P.c. G.T.M. d. 20-8-48.

The Govt. sanction the employment of a Demonstrator in chemistry for the Fuels Laboratory ~~and~~ (in the second grade) a Carpenter fitter and an attender for the model room in the Mechl. Engg. Dept. of the Engg. College, Guindy, till the end of the academic year 1949-50 ~~for a period of two years from the date of employment~~.

2. The Govt. also sanction the proposal of the Principal to print at a cost of Rs 200/- a Brochure giving a description of the models and their

P.T.O.

~~(A) 129~~

E III

application for the benefit of the staff and the students.

26.8.48 / 26/8/48

30/8/48

Note: In G.O. No. 1142 Edn. d. 6.5.48, the D.P.I. was asked to explain the necessity for a Demonstrator in chemistry for the Fuels Laboratory. In the circumstances now explained by the Principal in his letter on pl-2 c.f., the post may be sanctioned. The employment of a carpenter fitter & attender for the model room may also be sanctioned for the reasons given by the Principal. The proposal to print a brochure at a cost of Rs 200/- may also be sanctioned. Finance may see for acceptance of the draft on pl. 2 above.

26.8.48 / 26/8/48.

30/8/48 Finance

To the D.P.I.
" A.G. thro. Fin.
S/C.

20.9.48

E/61 c.f.

ASST. SECRETARY TO GOVERNMENT
31 AUG 1948
FINANCE DEPARTMENT

81337

E III

E.P.H. u.o. 54325-1/48
dated 31.8.48

A

(31) 80

3

Finance (E III)

The proposals relate to the employment of a Demonstrator for the Fuels Laboratory, and a carpenter fitter and attender for the Model Room in the Engineering College Guindy, and (2) the printing of a Brochure at a cost of Rs 200/- for the benefit of the students. The extra cost involved is Rs 3400 p.a. recurring and Rs 200 non-recurring.

2/. In the circumstances explained by the D.P.I. on pp 1.2 c.f., the need for the additional staff may be agreed to. The post of Attender may however be on Gr. II (22-30) instead of Gr. I (24-35) as proposed by the D.P.I.

3/. As the extra cost involved exceeds Rs 3,000 p.a. E.P.H. may be requested to circulate the case to H.M. (Fin.) before issue of orders.

4/ Subject to the above remarks, the draft order on pp 1-2 above may be accepted.

attenders in Govt Colleges Gr II

ASST. SECRETARY TO GOVERNMENT
4 - SEP 1948
65727
EDUCATION AND PUBLIC HEALTH DEPT.

2.9.48.

Fin. U.O. 81337/(E III)-1
3.9.48

2/9/48 2.9.48

2.9.48

D.S.

3/9

E-P(1)

4

E.P.H.(A)

The suggestion of Finance at 'K' scale of may be accepted. Para 1 of draft on plate has been modified.

2. W.r.t. para 3 of Finance note the file may be circulated to H.M. (Edn) & H.M. (Fin.)

7.9.48

7/9/48

8/9/48

TSA 14-9.48

16.9

SECRETARY, EDN. AND P. H. DEPT.
16 SEP
GOVERNMENT OF MADRAS

9/9

---

32 16/11

Edn and P.H. Dept

Telephone Message by post

From The Asst. Secy to Govt., Edn & P.H. Dept

To The Dy D.P.I.

Addl staff sanctioned for the Mechanical Eng: dept of the Eng: College, Guindy -

Ref D.P.I's t.m of 29.10.48.

Please see working on page 77 of (A)

The carpenter fitter should be allowed pay only the scale of Rs 40-55.

PC 19/11

11/11/48

17/11/48

Edn and P.H. Dept

Office of the Director of
Public Instruction, M a d r a s.

Post copy of Telephonic message dated 29th October 1948.

ASST. SECRETARY TO GO
6 - NOV

From
The Director of Public Instruction,
Madras.

To
The Secretary to Government,
Education and Public Health Department,
Madras.

pp 78-79 of
G.O. Ms. 1142 Edn
6.5.4

81944

Ref: Govt. Memo. No. 54325-2/48-A. Edn. dated 16-9-48 sanctioning additional posts for the Mechanical Engineering Department in the Engineering College, Guindy.

--

Please let me know whether the scale of pay of Rs. 40--65 has been sanctioned for the post of carpenter-fitter as recommended by me----vide my letter Rc.No.4265-K2/46 dated 19-7-1948.

pp 72-73 7
(A)

Joint Director of Public Instruction.

PTO

kn.3.11.

8/4/11

33

Edn & P.H. Depts

c 2066 From the D.P.I., R.C. No 837 A/45 d 8.1.46

College – Engineering, Guindy – Mechanical Engineering Laboratory – Addl staff – Employment.

17-8

In G.O. No. 2178 Edn, d 22.12.45, Govt have appointed a Committee to examine the question of strengthening & expanding the Mechl. Engg depts of the Engineering College, Guindy. The D.P.I may be asked whether the employment of the addl staff now proposed cannot be deferred till the Committee's report is received. Draft TM on p. 2 cf. is for appl.

p 2 cf
A

CPA
28.1.46

RM
30/1/46

[Issued as T. M. dt. 30. 1. 46]

[P.C. of T.M. from the D.P.I. dt. 4.4.46.]

—

7 C.F.
A above
7-8
C.F. (L.F.)

The Director has agreed to the postponement till the committee appointed in G.O. 2178 dt 22.12.45 submits its report. The ~~Committee~~ D.I.d.C has been reminded for the Committee's report. This may lie over till 11.5.46 or till the report is received whichever is earlier

GP
11.4.46

RM
15/4/46

The report referred to above has not yet been recd. A draft reminder to the Jt D I & C is submitted in L.F. This file may lie over till 11-6-46 or till the report is recd whichever is earlier.

11.5.46
11.5.46

RM
11/5/46

The Committee appointed to examine the question of strengthening the Mech. Engg. Dept. of the College of Engg., Guindy has submitted its report which is at pp 15-18 cf. The Committee considers that the Mech. Engg. Branch of the College has not recd in the past, the attention which it deserves and the treatment which its sister branches have been able to obtain from time to time. It has, therefore made certain specific recommendations towards strengthening the staff and expanding the Dept. The p17cf

Summary of pp 17-18 cf

A copy of the report may be sent to the DPI and he may be asked to offer his ~~remarks also views~~ remarks on the several recommendations of the Committee and also to report the cost involved. B 21.6.S.

CS 17-6-46 W 17.6.46 JSM 18/6/46 $ B 21.6.S

[Issued as Memo No: 16984 A/46.-3 d/ 22.6.46] p 23cf

C. No: 72759A. From the D.P.I. No: 4265 K2/46 d/ 26.11.46. pp 31-33 cf

C. No: 80080A. From the D.P.I. No: 4265 K2/46 d/ 7.10.47. p 45 cf

C. No: 78159 A. From the D.P.I No: 1409 K2/47 d/ 30.9.47. p 49 cf

Eng: College, Guindy - Strengthening of Mechanical Eng: Dept.

In Jany: 1946. the D.P.I reported that the work in the laboratory of the Mechanical Eng: dept in the Engg. College, Guindy, had increased very much on account of the increased number of Students admitted to the Mechanical Eng course in recent years. and recommended the employment of certain addl staff for the laboratory viz one driver mechanic, one instrument repairer and two attenders. pp 1-2 cf p 2 cf

In G.O. No: 2178 Edn d/ 2.12.45 the Govt ~~had~~ appointed a committee to examine whether the Mechanical Eng: dept of the college required to be strengthened or expanded with a view to meet the demand for Mechanical Engrs. which the large programme of industrialisation laid down for the Presidency might require. The D.P.I was, therefore, asked whether the employment of the addl staff proposed by him could not be postponed till the Committee had submitted its report. The Director agreed to this suggestion. (V) p 2 cf p 9 cf

The Committee subd its report in May 1946. A copy of the report was then sent to the D.P.I. for remarks on the several recommendations contained in it and also for an estimate of the cost involved on each item. p 13 cf p 23 cf

The Director has forwarded his remarks and they are examined below: —. pp 31-33 & 45-53 cf

Staff

The existing staff in the Mechanical Eng: dept consists of:- p 45 cf

1 Professor
1 Instructor
2 Asst Instructors (in the S. E. S)
2 Asst Instructors (in the cadre of P.W.D Supervisors
2 Lab. Assts (one temporary)
1 Mechanic
1 Cooly
1. Boiler attender (temporary)
1 Stoker and cleaner for boiler (temporary)
1 Gasman (temporary)
1 Stoker and cleaner for gasplant (temporary)

The D. P. I has recommended that the following addl Staff may be appointed: –

pp 31-32 & 46cf

✕	1	Demonstrator	(Rs 80 - 140)	✕
✕	1	Draughtsman	(Rs 70 - 120)	✓
✕	1	Store keeper	(Rs 45-90)	✓
✓	1	Mechanic	(Rs 40-65)	✓
✓	1	Gas Mechanic	(Rs 40-65)	✓
✓	1	Laboratory attender	(Rs 24-35)	
✓	2	Cleaners	(Rs 22-30)	
✓	1	Fitter Turner	(Rs 40-65)	
✓	1	Instrument repairer	(Rs 35-60)	
✕	1	Instructor	(Rs 260-700)	✓
✕	1	Asst Instructor	(Rs 180-280)	-
✕	1	Stenographer	(Rs 45-90 plus Rs 35 Spl pay)	

The Directors recommendation may be accepted and the posts sanctioned for two years from the academic year 1948-49.

A
W

The Committee and the D. P. I. had remarked that the ~~pay~~ salaries of Instructors, Asst Instructors and Demonstrators were inadequate and that a higher starting salary should be given to these categories of employees. The Govt have since raised their salaries as shown below and the question of giving higher starting salaries does not arise now: –

p 31cf

	Old scale	New revised scale	
Instructors	Rs 200 - 700	Rs 260 - 700.	GO No: 6307 / 14.8.47 (B)
Asst Instructors	Rs 100 - 200	Rs 180 - 280.	Go No 789 / 6.2.47
Demonstrators	Rs 70 - 100	Rs 80 - 140	-do-

Stock ... (C)

Equipment.

p 32cf

The Director says that provision of addl funds for increasing the equipment of the mechanical Eng. laboratory and making them up to date is very essential and recommends that a ~~[illegible]~~ block grant of Rs 2,80,000 may be

sanctioned, the expenditure to be spread over a period of 2 or 3 years (preferably ~~three~~ two) years. The Directors recommendation may be accepted and a sum of Rs 1½ lakhs may be provided in the budget for 1948-49 and the balance in 1949-50.

B
W

The Principal has stated that he will submit a separate scheme to overhaul the existing model soon. This may be awaited.

Accommodation.

These buildings have already been purchased – please see papers at (S)

Extracts taken
k

Separate file has started
W

Please see the Directors remarks in para 3 of his letter on page 32cf and the Principals letter on pp. 46-47cf. Necessary extracts will be taken and a separate file will be started about the acquisition of the buildings in question.

Courses of Study

These have been referred to discussion this time on the Starting of Courses in the Various colleges – or the Expert Committee's report.
W

Please see para 4 of the D. P. I's letter on page 32cf. This may wait till the new syllabus is drawn up by the University. No action is called for at present.

Admission

I think this has been dealt with separately this time.
W

Please see para 5 of the D. P. I's letter on page 32cf. The Director has stated that he will submit proposals in this regard. These may be awaited.

Workshop and hours of work.

These are not readily traceable. The D may be asked ~~[illegible]~~ for the stages ~~[illegible]~~ when he will refer to the letter if he has addressed Govt. in the matters

W

Please see para 6 of the D. P. I's letter on page 32cf. The recommendation that the workshop should be placed under the control of the Professor of Mechanical Eng. may be accepted. Apparently it is now directly under the control of the Principal.

The question of keeping open the workshop during the summer Vacation of the college was recently examined. The Principal raised some difficulties and the Govt ratified ~~this~~ his

Go No. 1888 Edn / 28.8.47 (A)

action ~~of the Principal~~ in having run the workshop during the summer vaction of 1946-47. The Principal now proposes that the ~~college~~ workshop should be kept open during the summer vacation for some years ~~[illegible]~~ with a view to cope ~~up~~ with the increasing orders from the increased number of depts in the college and to provide intensive training for college students during the summer vacation. The addl expenditure is estimated to be about Rs 9,000 (Rs 6100 towards honorarium to the staff and the salary of the workmen and Rs 2900 towards the cost of materials and other contingent charges.)

pp 49-53 cf

p 49 cf

In the circumstances stated, the proposal to keep the workshop open during the summer vacation from ~~[illegible]~~ 1947-48 may be accepted. | C wf

The Principal proposes that ~~the~~ members of the staff detailed for duty in the workshop during the summer vacation may be granted compensatory leave and also 50 pc of their salary as remuneration. This concession seems extravagant. They may be given either the compensatory leave or 20 per cent of their pay. | D wf

p 52 cf

For orders.

Research

Please see para 7 of the D.P.I's letter on ~~p 33 cf. The Principal recommends suggests~~ page 33 cf. As regards the suggestion that Professors and Instructors may be deputed to foreign countries and factories to enable them to study the latest methods, it is Subd that this is being done now. A number of persons from the Eng colleges have been ~~are being~~ sent for special training in ~~[illegible]~~ [illegible]

Eng: subjects to U.K and U.S.A.. So no particular action is necessary ~~on~~ this suggestion

b2

The file may be sent to the Fin dept for remarks with reference to A, B, C and D on pp 4-6 ante.

wf 31/10/47

31/10/47 S

04183 E III ✓

30/10/47

E.P.H. G.O. 16984-7/47 A
dated 31-10-47

ASST. SECRETARY TO GOVERNMENT
3 NOV 1947
PUBLIC DEPARTMENT

Finance (Spl)

Part II scheme for 1948-49

The file has been sent to this depH. for remarks on the following points.

(1) additional staff for the Mechanical branch of the Engineering college, Guindy.
(2) provision for the purchase of machinery
(3) proposal to keep the workshop open during vacations.
(4) grant of compensation to the staff detailed for duty in the workshop during vacation.

(1) item (1) above: Addl. staff. 1 Instructor + 1 Asst. Instructor

pp. 7-8 of (V)

2/ The committee constituted in G.O No. 2178 E & P.H dated 22-12-45 to examine whether the Mechanical Engineering DepH. of the Engineering College, Guindy, required to be strengthened or expanded in order to meet the demand for mechanical engineers which the large programme of industrialisation laid down for the whole Province might require were of opinion that in the case of gazetted staff of the college, the general basis for allocation of work should be that no member of the staff had more than 22 hours of lecture, tutorial class or laboratory work, the remainder of the time being spent in research work and other duties incidental thereto. On an application of

A on p 15 c.f

the principle enunciated by them, they recommended the employment of one additional Instructor and one Additional Asst. Instructor in the Mechanical Engineering Branch. They were of opinion that this would permit of some of the unwieldy classes being sub-divided into sections. The D.P.I has proposed that the staff recommended by the Committee may be sanctioned. There are now 1 Professor, 1 Instructor, and 4 Asst. Instructors in the Mech. Engineering Deptt. Before examining the proposal further, E & P.H may be requested to obtain the following information from the D.P.I.

A on p.15 C.F

p.31 C.F

p.45 C.F

(a) The existing strength of students in Mech. Civil and Electrical Engineering classes.

(b) The existing teaching staff in the Civil and Electrical Engineering Depts.

MR 5/1/47

(II) One stenographer: The Committee was of opinion that the Professor of Mechanical Engineering should be relieved of a considerable amount of clerical work which he is now doing by the provision of a steno-typist for his section. It is not clear whether the Professors of Civil and Electrical Engineering have been allowed a steno-typist. If not, the necessity for providing a steno-typist for the Professor of Mech. Engineering alone needs justification. E & P.H may be requested to consult the D.P.I on the point.

M on p.15 C.F

MR 5/1/47

(III) One Demonstrator, One Draughtsman + one Store-keeper

N on p.31 C.F

The necessity for these posts has not been explained at all. E.P.H may be requested to consult the D.P.I as to how the need for these posts has arisen now.

MR 5/1/47

(IV) Skilled Establishment: The Committee recommended that in regard to additional skilled establishment, the same scale as was provided for // in the Electrical Branch of the College be sanctioned. The D.P.I has proposed the additional staff mentioned at A on p.32 C.F but he has not furnished information regarding the existing strength of the skilled establishment in the Electrical Branch. E & P.H may be requested to obtain necessary information from the D.P.I

B on p.15 C.F

This may be accepted. MR 5/1/47

(V) Item (2) on p.7 above: Equipment: The Committee have observed that the equipment in the Mech. Engineering Branch is inadequate. They have suggested ~~that~~ a block grant of Rs. 1½ lakhs for the Mech. Eng. ~~Branch~~ Laboratory, ~~and~~ Rs. 1 lakh for the Automobile Engineering Laboratory + Rs 30,000 for the former;. The D.P.I has ~~however~~ proposed a block grant of Rs. 2.8 lakhs spread over a period of two years, ~~for the reason that~~ though the machinery recommended by the Committee will cost~~s~~ more now. The proposal ~~may~~ is ~~be~~ accepted by E & P.H who suggest a provision of Rs 1½ lakhs in the B.E for 1948-49. This dept may agree.

para 2 pp.15-16 C.F

para 2 p.32 C.F

R 2/12/47

p.5 above. MR 5/1/47

(VI) Items (3) + (4): Opening of workshop during vacation

M on p.17 C.F

The Committee suggested that one method of intensifying the practical work would be to keep open the laboratories and workshop during the holidays and summer vacations in order to give facilities for students to work. The D.P.I has submitted detailed proposals in this direction on pp. 51-53 C.F. The following expenditure is involved:

P.53 C.F

Honorarium for staff	Rs. 2,100
Workmen's wages	Rs 4,000
Materials	Rs. 2,500
Contingencies	Rs 400
Total.	9,000

The D.P.I has proposed that in addition to the usual compensation for working during the vacation – Vide F.R 82(b) – the staff should be granted at least 50% of their salary

para 5 p.52 C.F

x p.80 Bk.154

P.H

however consider that the staff may be given either the compensatory leave or 20 % of their pay. As there is already provision ~~f~~ in the Fundamental Rules for the compensatory leave concession referred to above - vide F.R. 82(b), Finance may advise that it is not necessary to go further than that.

D on p 6 above

x p. 50 BK 154

M.

5/12/47

3/ With the above remarks the case may be returned to E & P.H.

2.12.47

5/12/47

E.P.H

Thro' B.E II
2/12/47

ASST. SECRETARY TO GOVERNMENT
EDUCATION
76628
8 DEC 1947

2.12.47

Fin no
4783(S/31)7
6.12.47

Edn and P.H. Dept

Notes from the bottom of page 2 ante may be read.

Para 2(i) of the Fin dept note.

pp 7-8 ante

pp 15 & 17 cf

The Committee recommended the appointment of an addl Instructor and Asst Instructor only after a careful analysis of the teaching work and the staff provided in the Mechanical Eng: course. Conditions in the Civil and Electrical depts may not be the same. In these matters Govt have to ~~a greater extent~~ to be guided to a great extent by technical experts. There seems to be no need to obtain the information required by Finance. This dept may press for the acceptance of the proposal.

Para 2(ii) of the Fin dept note.

p 8 ante

pp 15 & 17 cf

The Committee ~~[illegible]~~ remarked that the Professor of Mechanical Eng: has to attend to a considerable amount of clerical work. If he is given a steno-typist the ~~that~~ time spent on clerical work can be used for better purpose. It has been ascertained that the Professor of Tele-Communications Eng: has a steno-typist. The proposal may be pressed.

Go not [illegible]

Para 2(iii) of the Fin dept note

p 8 ante

p 17 cf

The appointment of a Draughtsman is ~~recommended~~ proposed in accordance with the recommendation of the Committee and may be pressed. It has been ascertained that there are separate store ~~tools~~-keepers for Tele-Communications and Electrical Eng: depts. The proposal to appoint a store ~~shop~~-keeper for the Mechanical Eng: dept may be pressed. The proposal for the appointment of a Demonstrator may perhaps be deferred.

A

Para 2(vi) of the Fin dept note.

The suggestion of the Fin dept at M on the ~~page~~ previous page may be accepted.

The file may be circulated to H.M. (Edn) and H.M. (Fin) for orders.

18/12/47

18/12/47 S

M. (Edn) ✓
M. (Fin)

TSA
11-12-47

15.12

~~E.P.H. u.o. 16984-9~~

SECRETARY, EDN. AND P.H. DEPT.
16 DEC 1947
GOVERNMENT OF MADRAS

A draft Part II note is subd for approval. Finance may see for acceptance.

17.12.47

18/12/47 S

E.P.H. u.o. 16984-9/WDA
dated 18-12-47

76951
DEC 1947
FINANCE DEPARTMENT

Finance (E III)

(Pre: Fin note on pp 7-9 above)
The further note of E.P.H. and the orders in circulation above may be perused. The draft Part II scheme note as amended in pencil may be accepted.

18/12 18/12

18/12/47 E.P.H

Dispatch copies as amended

18/12/47

Fin. u.o.
76951 E III
18/12/47

Thro B.E. II

30 copies of Part II note sent to finance with E.P.H. u.o. No. 16984-10/WDA dated 19-12-47

The budget has been pas

provision has been made for the Scheme in it. A draft order is subd. Fin may see.

30/4/48.

30/4/48

Finance

E.P.H. u.o. 16984 - 11/4

dated 30

Finance (E III)

(Pst finance note onp 11 above)

The draft order below may be accepted. (Necessary provision has been included in the B.E. for 1948-49. vide item 75 onp 146 of Budget Memorandum for 1948-49.)

3/5/48

3/5/48

ASST. SECRETARY TO G
33880 E III
MAY 1948
FINANCE DEPARTMENT

Fin. u.o.
33880 E III
3/5/48

ASST. SECRETARY TO GOVERNMENT
4 - MAY 1948
EDUCATION AND P

3/5

E-P.H.
A

32900

May issue

4/5/48.

6/5/48

S

6/5/48.