

Home (1917) Department.
(Education)

Ordinary SERIES.

G.O. No. 1258

DATED 16-X-19

INDEXED

[Despatch Abstract.]

Indent.-

Returning to the Director of Public Instruction the --- on
the India Office for stores for the ~~equipment~~ ^{for the} new Engineering College, Guindy for
transmission to the Director General of Stores.

PAPERS PUT UP WITH CURRENT No.

Papers of the department to which the current belongs.

Number.	Date.	Original (=O) or spare copy (= S.C.).	Remarks. (In this column such of the papers as have been removed for copying, printing, etc., should be marked with a cross.)	Initials of Referencer with date in token of return to Reference department
1104	20. 10. 16	sc		
652	13. 6. 16.	"		
1404	13. 12. 15	"		
1052	24. 8. 15	"		
142	11. 2. 15	"		
1204	2. 11. 14	"		
282	12. 3. 14	"		
746	13. 8. 13	"		

Papers of other departments.

Department.	Number	Date.	Original (= O.) or spare copy (= S. C.).	Initials with date of (1) Referencer acknowledging returns of the paper concerned or (2) Despatcher to denote the return of the papers to the department concerned.
858	5	12. 11.	"	
362	7	5. 5. 08	"	

P. 600	284	14. 6. 19		
" 264	2505C	9. 4. 19		
" 519	30.	30. 4. 18	sc	
Phil.	32	15. 1. 18	"	
" A	90	8. 8. 17.	0	
P. 600	4568C	9. 16. 17.	0	
" 184	184	19. 12. 16.	sc	
"	759	22. 4. 15	"	
"	1379	10. 7. 14	"	

526-27. 5. 3. 13

228. 9. 15. 3. 10.

cp. in linked file.

O.T. 1428 A-1
3.7.19

With reference to his letter, R.C. No. 3681, dated the 17th May 1919, the D.P.T. is requested to submit for the approval of Govt. the indent for the apparatus & machinery required for the electrical engineering laboratory of the new Engineering College at Guindy, before its transmission to the Director-General of Stores, India Office, London.

815
26. 6. 19.
30. 6. 19.
31. 7. 19.

2. 7. 19

70

The D.P.T.

Roe

Home (Ed) Dept.
Home
Education Branch
368/19
28-8-19

With reference to
in letter, No. 10381
dated 17th May 1919
the Director of Public Instruction
to submit for the ap
proval of Govt. the work
for the apparatus and
required for the electrical
engineering laboratory
of the College of Engineering
at Bombay.

91.7.2.1928.110

Office Home Dept.
Station Botacampus.
Dated 18th August 1919.

8K
15/8/19.

Indent for the apparatus
and machinery required for
the electrical engineering
laboratory of the College of
Engineering.

Home
Education Branch
368/19
28-8-19

REMINDER.

To *The Director of Public Instruction* To *The Secretary to Government,*
 Home (Education) department.

has the honour to invite
 The undersigned *is directed to invite*
invites

attention to the communication noted in the margin and to request that this reminder may be returned at once with information as to—

(1) the stage at which the matter now is,
 and (2) the date by which a reply may be expected, and
 (3) the circumstances which have caused the delay.

~~2. It is requested that the reply to this reminder may be sent not later than~~

Gananyabai
 Office Home Dept.
 Station Botacampus.
 Dated 18th August 1919.

Signature.
Registrar.
Designation.

SUBJECT.

Indent for the apparatus
and machinery required for
the electrical engineering
laboratory of the College of
Engineering.

REPLY.

With reference to reminder
dated 18-8-19 regarding the indent for
apparatus and machinery required for
the electrical engineering laboratory
of the College of Engineering called
for in Government Memorandum No. 1428
A-1, Home (Education) dated 3-7-19, I
have the honour to state that the in-
dent will be submitted on receipt of
certain information called for from the
Principal of the College.

I have the honour to be,
 Sir,
 Your most obedient servant,
Alumina
 for Director of Public Instruction
 P.V.N.

Home (Ed) Dept.
Codged.
8K
1.9.19.
3-9-19
may again be
reminded on 28.9.19

HOME (EDUCATION) DEPARTMENT.

Received



Registered

8-5-1919

Subject.

Submitting for the approval of Government
a manuscript copy of the indent for apparatus and
machinery required for the Electrical Engineering -
Laboratory of the new Engineering College at Guindy.

ENCLOSURES

No.

Spare copies

Re No. 3681/19

Station Madras, Dated the 5 September 1919.

From (Name) The Hon'ble Mr. R. Littlehales, M.A.

(Designation) Director of Public Instruction.

To The Secretary to the Government of Madras,
HOME (EDUCATION) Department.

Sir,

With reference to Government Memo. No.
1428-A-1, Home (Education) dated 3rd July 1919, I have
the honour to submit for the approval of Government, a
manuscript copy of the indent for the apparatus and
machinery required for the Electrical Engineering
Laboratory of the new Engineering College at Guindy
passed by the Indian Munitions Board with two printed
copies of the same, and to request that the manuscript
copy may be returned for transmission to the Director
General of Stores, London with the necessary number of

4

of spare copies. I beg to submit
(1) The Principal's letter also copies of the Principal's letters
R.C.No.199/19-20 dated 9th noted in the margin.
August 1919 with copies of
its enclosures.

(2) The Principal's letter I have the honour to be,
No.994/18-19 dated 1st Sir,
September 1919. Your most obedient servant,

[Signature]
For Director of Public Instruction.

[Handwritten mark]
M.S.R 4/9

5

Copy of letter R.C.No.994/18-19 dated 1st September
1919 from the Principal, College of Engineering, Madras, to
the Director of Public Instruction, Madras.

In reply to your R.C.No.3681/19 dated 28-8-1919,
I have the honour to submit herewith the original indent
countersigned by the Secretary of the Munitions Board.

2. In regard to obtaining the previous sanction of
Government only for items exceeding £25, this indent is of
a special kind, for according to instructions received from
the Chief Engineer, P.W.D., I am dealing with the matter "as
a Civil Officer acting as a P.W. disburser", and it was pre-
sumed the indent as a whole required the sanction of the
Government. Furthermore in your R.C. 3681/19 dated 9th
July 1919, I was definitely requested to submit the indent
for the sanction of Government.

3. Perhaps I should add that some of the plant is
urgently required and as there may be delay at home, it is
advisable for the indent to go through as quickly as possible.

Copy of letter R.C.No.199 of 19-20 dated 9th August
1919 from the Principal, College of Engineering, Madras, to the
Director of Public Instruction, Madras.

Adverting to this office letter R.O.C.No.994 of 1918-19,
dated 16th April 1919, I have the honour to submit herewith 11
copies of an indent for Laboratory & Workshop Equipment required
for Guindy. The cost is a charge against the provision for
equipment in the New College estimates and should accordingly be
met from the P.W.D. budget, and in this connection, I enclose copies

6
copies of extract from the correspondence with the Chief Engineer, Public Works Department.

2. The indent was sent to the Munitions Board for scrutiny and a copy of their reply is enclosed.

3. With reference to your R.O.C.No.3681/19 dated 9th July 1919, the services of Mr. Cartwright are required at home in an advisory capacity for purchases on this indent, and also to make the inquiries and obtain the detailed information necessary for the preparation of the indent to be sent next year which will include the following:- New Power Station Plant, Pumps and Turbines for Hydraulic Engineering Laboratory, compressor and Refrigerator plants for the Mechanical Engineering Laboratory and machine tools for the workshops.

In view of the postponement of the removal of the College till next July, one continuous period of deputation will probably be now the most convenient.

Extract from the letter C.No.994/18-19 dated 20th March 1919 from the Principal, College of Engineering, Madras to the Chief Engineer, P.W.D. (Buildings and Roads) Madras. (Para 1 and 2).

I have the honour to request you will be so good as to let me know the budget allotment, 1919-20 for equipment for the New Engineering College, Guindy.

2. I understand that the College is to deal with the sending of indents and I should be glad to know the procedure that is to be adopted.

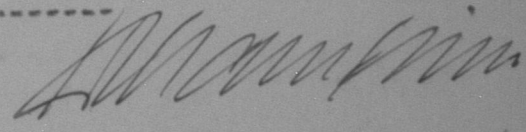
Extract from the letter No. 2505-C dated 4th April 1919 from the Chief Engineer, P.W.D. (Buildings and Roads) to the Principal, College of Engineering, Madras. RH

2
6
In reply to your letter No.C-994 of 18-19 dated 20th March 1919, I have the honour to state that a sum of Rs. 40 lakhs is immediately available for equipment for the New Engineering College, Guindy for 1919-20 and that any further demand towards it will be complied with later on when required. As regards the sending of indents etc., I may state that, as the execution of the work connected with the equipment for the College is to be undertaken by you as a Civil Officer acting as P.W. disburser, necessary indents for the materials required will have to be prepared and sent by you and for the procedure to be adopted in sending the indents, please see the Memorandum from the Munitions Board N.P.6-7 of 15-12-17 printed with G.O.No.32, Financial, dated 15-1-1918 (A copy enclosed.)

Copy of the letter No.B-39-24, dated 24th June 1919 from the controller, (Home Indents & Priority) Indian Munitions Board, Simla; to the Principal, College of Engineering, Madras.

In returning, herewith, duly countersigned, one copy of the indent for stores for the New College of Engineering, Guindy, received with your letter No.199 dated the 4th June 1919, I am directed to say that before the indent is transmitted to the Director-General of Stores, London, it should be prepared in the prescribed form, the entries being printed or typewritten, as pointed out in para 2 of the Indian Munitions Board's letter No. B-39/19, dated the 4th June 1919. A copy of the indent as sent to the Director-General of Stores may kindly be furnished to the Board.

(True Copies)


for Director of Public Instruction

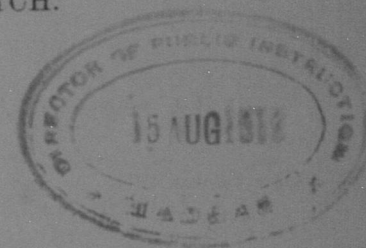
Indent on Stores required for the New College of
Engineering, Guindy.

MADRAS EDUCATIONAL DEPARTMENT.

Indent No. R.C. 199, dated 13 8 1919.
19-20

Telegraphic Code-word:—**DICTIONARY**.

Distinguishing Code-word for this Indent:—**NOTCH**.



Date when stores are required to reach India:—

30th DECEMBER (or earlier).

Port to which stores are to be shipped:—

MADRAS.

Note.—No articles which are available of Indian manufacture are included.

Note.—No articles which are available of Indian manufacture are included.

Item No.	Description of stores.	Number or quantity required.	Estimated cost.			Remarks by indenting officer.			
			Rate.	Unit.	Cost.				
II. Electrical Engineering Laboratory—cont.			£	s.	d.	£	s.	d.	
	Brought forward ...	...	...	...	...	1,891	10	0	
7	7.5 H.P. 220 volts 50 cycle. Three phase variable speed commutator motor.	1	60	0	0	1	60	0	0
8	Lathe 5½" centre 6' with gap and hollow spindle.	1	75	0	0	1	75	0	0
9	Drilling machine to drill 1" holes ...	1	50	0	0	1	50	0	0
10	Blower ...	1	20	0	0	1	20	0	0
11	Grinding machine ...	1	20	0	0	1	20	0	0
12	Bench vices, 6" jaws ...	2	2	0	0	1	4	0	0
13	Series Parallel Tramway Controller suitable for 50 H.P. 500 volt motors with resistances.	1	10	0	0	1	10	0	0
14	Duddell's double projection, heavier type Ocillograph with accessories.	1	150	0	0	1	150	0	0
	Duddell Mather Standard Wattmeter with resistances for pressure circuit. (100, 300, 600 volts) and combination shunt 10 amps. to 100 amps.	1	60	0	0	1	60	0	0
15	Transformers 2.5 K.V.A.—								
	67.5 volts low tension ...	6	7	0	0	1	42	0	0
	135 volts low tension ...								
	220 volts high tension ...								
16	Transformer, high tension, 30,000 volts high tension cycles 50 I.K.W.	1	30	0	0	1	30	0	0
17	Direct current motor 440 volts, 5 B.H.P. complete with pulley, slide rails, starter with no load and overload release shunt regulator, ammeter and voltmeter unmounted.	1	50	0	0	1	50	0	0
18	Direct current motor 2 B.H.P. 220 volts, complete with starter, shunt regulator.	2	20	0	0	1	40	0	0
19	Induction motor with wound rotor and starter, 220 volts 50 cycle 2 B.H.P.	1	20	0	0	1	20	0	0
20	Double pole multiple way volt switches, 4 live points on each side, with dead points between them.	4	2	0	0	1	8	0	0
21	Watt meter and voltmeter change over switches double pole 10 amp. mounted with six terminals on each, back connected.	4	2	0	0	1	8	0	0
22	Wing nuts, 3/8" ...	6 gross	2	0	0	1 gross	12	0	0
23	3/8" rod with thread to suit the winged nuts.	450 ft.	0	13	6	24 ft.	16	4	0
	Carried over ...	...	...	...	...	2,566	14	0	0

Note.—No articles which are available of Indian manufacture are included.

Note.—No articles which are available of Indian manufacture are included.

If any of the items are not available, items 29 to 46 may be duplicated to make up the amount.
If the estimated cost is low items 47 to 58 may be proportionately reduced.

Note.—No articles which are available of Indian manufacture are included

Note.—No articles which are available of Indian manufacture are included.

Item No.	Description of stores.	Number or quantity required.	Estimated cost.			Remarks by indenting officer.
			Rate.	Unit.	Cost.	
	IV. Workshop Tools, etc.—cont.		£. s. d.		£. s. d.	
	Brought forward ...				1,044 0 0	
11	Spare parts for preceding item, each set to consist of: fast headstock, loose headstock, compound slide rest, hand rest, face plate and countershaft.	4 sets	12 0 0	1	48 0 0	
12	Universal milling machine with horizontal and vertical spindles. Traverse of table; vertical 17", transverse 18", longitudinal 7".	1	300 0 0	1	300 0 0	W. Muir & Co., Manchester.
13	High speed planing machine to plane work 6' x 2' 6" x 2' 6" motor driven.	1	270 0 0	1	270 0 0	Dempster Moore & Co., Glasgow.
14	8" geared slotting machine to admit in height 12" and in diameter 3' 0".	1	100 0 0	1	100 0 0	W. Muir & Co., Manchester.
15	9" high speed, self acting shaping machine, table 12" x 9" x 9".	1	46 0 0	1	46 0 0	Jones Burton & Co., Liverpool.
16	30" plain radial drilling machine, with reverse motion to spindle, and fitted with swivelling table.	1	100 0 0	1	100 0 0	James Archdale & Co., Ltd., Birmingham.
17	Hollow spindle screw-cutting pedestal lathe, 4½" centres to take work 2'-8" between centres with self-acting feed, 4 jaw chuck, self centring chuck, hand rest, and tee; lathe to be driven either by foot or power.	1	35 0 0	1	35 0 0	George Adam, High Holborn, London.
18	Portable internal electric grinder to grind 3½" diameter holes up to 14" deep.	1	30 0 0	1	30 0 0	Alfred Herbert & Co., Ltd., Type C.
19	Universal portable electric grinder. Maximum diameter of wheel 6" x ½".	1	30 0 0	1	30 0 0	Do. Type 1-A.
20	One surface grinder to admit work about 16" x 10".	1	100 0 0	1	100 0 0	
21	Fitter's staple Bench Vices with 5" jaws.	28	3 0 0	1	84 0 0	
22	Special flasks and metal patterns for small surface plates and wheel blanks, in accordance with drawings to be furnished later, to fit moulding machine supplied by Messrs. Pickles & Co., and referred to in our letter to the India Office R.C. No. 447/15, of 22nd May 1916.	...	...	...	16 0 0	
23	Universal twist drill grinder with attachments to take drills from 0 to 2".	1	16 0 0	1	16 0 0	A.A. Jones Pollard & Shipman Ltd, Leicester.
24	Screwing machine for tubes and bolts complete with chaser type dies from ¼" to 2" for tubes and ¼" to 1½" for bolts and arranged with cutting off apparatus.	1	36 0 0	1	36 0 0	Jeebua Heap & Co. Ashton under Lyne.
25	Marking off table 4' 0" x 3' 0"	1	17 0 0	1	17 0 0	Atlas Eng. Co., New castle.
26	Surface plates 9" x 6"	6	1 2 0	1	6 12 0	Alfred Herbert & Co.
27	Double chambered tool furnace for hardening and tempering.	1	30 0 0	1	30 0 0	
	Carried over ...				2,308 12 0	

Note.—No articles which are available of Indian manufacture are included.

Item No.	Description of stores.	Number of quantity required.	Estimated cost.			Remarks by indenting officer.
			Rate.	Unit.	Cost.	
	IV.—Workshop Tools, etc.—cont.		£ s. d.		£ s. d.	
	Brought forward ...	...	...	...	2,308 12 0	
28	Electrically belt driven pneumatic hammer, 18" stroke, to hammer work up to 5" diameter, complete with motor and starter.	1	250 0 0	1	250 0 0	Jones Barton & Co., Liverpool.
29	Anvils, over all dimensions about—3' 0" x 6".	2	4 0 0	1	8 0 0	
30	Swage blocks, 18" x 18" x 6" ...	2	3 0 0	1	6 0 0	
31	Smith's hearths 3' 0" x 3' 0" x 6' 0" high, complete with troughs.	6	11 0 0	1	66 0 0	
32	Roots blower, capacity 600 cubic feet of air per minute for six black-smiths' fires, electrically driven, complete with motor and starter.	1	55 0 0	1	55 0 0	
33	Thwaites "Dwarf" enpola, melting capacity 5 cwt., complete with ganister for lining and motor driven blower to supply 200 cubic feet of air per minute.	1	80 0 0	1	80 0 0	
34	Set of shunt field coils for Lawrence Scott & Co., 2-B.H.-P. Shunt wound 220 volt, 8.8 amps, 1150 R.P.M. motor serial No. 12919, supplied on 1908-09 annual indent on Europe stores.	1 set of 4 coils.	8 0 0	1 set.	8 0 0	
35	Plummer blocks for attaching to columns, with 3-inch swivel bearings, ring lubrication and vertical adjustment, projection to centre, 7 inches.	20	3 0 0	1	60 0 0	} Croft & Perkins, Thornbury Bradford.
36	Special Stanchion clamps suitable for the above (size of stanchion flange 6 inches).	40	0 10 0	1	20 0 0	
	Total ...	...	...	...	2,861 12 0	
	Total cost of this indent ...	...	...	...	7,020 15 0	

Note.—Items I (1), II (1) and (2) and IV (35) and (36) are urgently required.

COLLEGE OF ENGINEERING,
Madras, 3rd June 1919.

W. H. JAMES,
Principal.

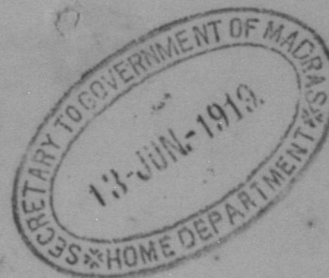
N.B.—This page is intended for use in the India Office only.

Note.—No articles which are available of Indian manufacture are included

242C No. 1428 A
13. 6. 19

16
Note for Secretary, Home (Education),

Please let me see any papers indicating the scope of the proposals for instruction in Electrical Engineering at the Engineering College, Guindy. Sir Alfred Bourne has asked me for information on the subject. I have some recollection of seeing detailed proposals on the subject accompanied by estimates indicating the nature and cost of the equipment required for constructional purposes.



Ld.
13. 6. 19

Instruction in electrical engineering is now imparted in the College of Engineering at Madras to students undergoing the mechanical engineering course. Page 53 of the calendar of the College contains the detailed ~~syllabus~~ syllabus in that subject. There is however no separate course in the College in electrical engineering. The object of the training given in the College is to turn out men qualified to design erect and keep in working order such plant as is usually required for commercial purposes, while the facilities provided in the Indian Institute of Science, ^(Bangalore) are understood to be for the development of technological studies in the way of research and ^(in electric techniques) higher work. No proposal has been submitted to Govt. for any alteration in the course when the College is removed to Coimbatore.

2. Staff. The Staff for electrical engineering consists of one Professor in the Indian Edn Service and one laboratory assistant. The post of Professor is held by Mr. H.B. Matthews who was formerly Assistant Professor of Electrical Engineering at the Bangalore Institute.

Of also p. 18. which gives the marks for the various subjects included in Mechanical Dept.

Mr. James' letter on page 3 of G.O. No. 858 of 5.12.11 (F)

B. No. 1052 (E)
24.9.15

Go. No. 607 ©
30.6.13

para 5, pay 5 of
Go. No. 1379 W (B)
10.7.14
also para 31, p. 898.

Go. No. 652 (W) 13.6.16 + 183. 1104 (W) 20.10.16

18
3 Equipment. Machinery & apparatus, costing nearly Rs. 30,000 have already been purchased for the electrical engineering section of the College. When the College is removed to Guindy, additional equipment costing Rs. 70,000 will be provided for this branch of engineering. An indent for the machinery required for the new College will shortly be forwarded to the India Office. A proposal is separately under consideration to ask the India Office to consult Mr. Cartwright, Professor in the College, who is now on leave in England, in the selection of the machinery.

4. Scholarships. The govt. have instituted three special scholarships of Rs. 30 each per mensem tenable for a period of four years in the College for the study of mechanical & electrical engineering.

SK

18.6.19.

Please see extract from the Principal's letter printed on page 4 of Go. No. 652-53. of 13.6.16. Which gives the course of study intended

(W)

Box 18
2064

4

for persons holding the Special Scholar-
ships for mechanical & Electrical
Engineering sanctioned in that order.
It is therein stated that in the case
of promising students arrangements
would be made to carry on their train-
ing in the higher branches of electrical
Engineering for an additional year
(beyond what is usually presented for
the regular course). On what lines this
additional course is to be we have no
information. Attention is also
directed to para. 7 of the Principal's
letter of 17-4-18 on page 5 of fo. no 1370.
of 25-10-18.

(A)
Removed

Ch
19.6.19
5

In the Engineering College, Electrical
Engineering is treated as a
subject in the course for Mechanical
Engineering & the ^{Syllabus} ~~Syllabus~~ is at
p 53 of the Colenden put up

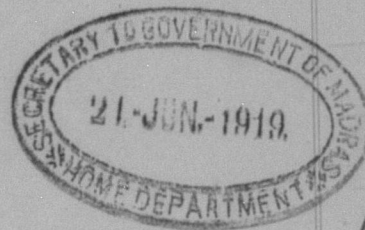
10/7/18
20/6/18

H. M.

Thank you. I have shown the pp. to
Mr. Alfred Hoar.

Note that para 87 of the PWD. Regulations

Committee's report contemplates the establishment of any higher development in Engineering Colleges & condemns the elaborate equipment proposed in Madras. This parochial & narrow view is directly contrary to the much wiser proposals of the Industrial Commission to develop higher courses in electrical & other branches of Engineering Science.



LD:
21-6-19

Please put this up when the indent for the Rs. 70,000 on extra electrical equipment comes. I hope this will not be long. D

Does this mean high up?

and 21/6/19

Go. No. 355 Int.
20/8/10

Flag (T) in linked file.

Submitted no. The D.P. is authorized to transmit indents direct to the India Office obtaining previous sanction for inclusion therein. From the Principal's letter on page 2 of current file in the linked file, it will be seen that he is preparing an indent for machinery & apparatus costing up to Rs. 1 lakh. This may include only a

position of the electrical equipment.
It is ^{submitted that} ~~for order whether~~ the D.P.I. may be
asked to submit a copy of the
position of the indent relating
to electrical engineering apparatus
for the approval of govt before
transmission to the India Office.

SK
21.6.19.

CA
24.5.19 Draft
MS 25/6/19

A draft memo is submitted.

SK
26/6/19
27.6.19

CA
30/6/19
11/7/19

[O.M. No 1428A-193.7.19.]

The D.P.I. has not yet submitted
the indent. For order whether he may
be reminded. If so, the reminder below
is for signature.

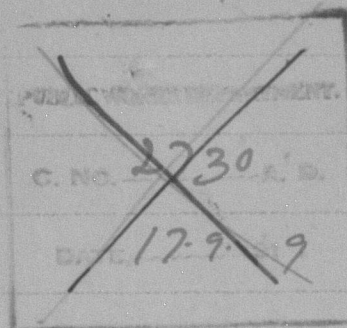
SK
15/8/19.
MK
16/8/19

CA
17.8.19

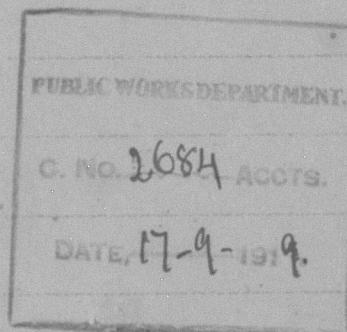
[O.M. No 1428A-193.7.19]

CN 2018 A. From the D.P.I., D.C. 3681/19 25.7.19

p. 3 of cv.



From 208010A-1



53/170
JAC
M

²²
The D.O. forwards copies of the indent for the apparatus & machinery required for the new Engineering College at Guindy. The indent relates not only to the electrical engineering laboratory but also to other laboratories & work shop in the College. The P.W.D may, it is submitted, be requested to advise whether the indent may be approved.

SK
9-9-19.
NB
11/9/19

CA
12-9-19

13/9/19

4/11/19

C.No.2684 Ac. From the Home (Edn) Dept. u.o.No.2018 A.1, dated 13-9-19

Indent No.R.C.199/19-20 dated 13-8-19 of the Principal College of Engineering for stores required for the New College of Engineering at Guindy.

D.S.

Please see the Home (Edn) Dept's note on p.7 of the notes files below requesting the advice of the P.W.D. as to whether the abovementioned indent may be approved. The indent in question which provides for apparatus and machinery required for (1) strength of materials laboratory, (2) Electrical Engineering laboratory (3) Mechanical Engineering laboratory, and (4) Workshops of the College, has already been countersigned by the Controller, (Home Indents and Priority), Indian Munitions Board. The indent, moreover, would seem to require scrutiny, if at all only so far as electrical stores are concerned; but, it is presumed that, in such cases, the Electrical Engineer would have been consulted by the Principal, wherever necessary, before the indent was prepared by the latter officer. c.f. in this connection pp.2-4 of G.O.No.784 W, dated 14-6-1919. In the above circumstances, it is for consideration whether the Home (Education) Department may be informed that the indent may be approved or whether the indent need be referred to the Electrical Engineer, u.o. before recommending it for approval.

G.V.A,
18-9-1919.

K.G.
19-9-19.

S.B.
22-9-19

24

There is no necessity I think to consult the Electrical Engineer because the indent would have been prepared by the Principal in close consultation with the Professors one of whom, Mr. Mathews, is Professor of Higher Electrical Engineering. Mr. Barker is Professor of Civil Engineering and there is an instructor of Mechanical Engineering-Mr. Webster.

In these circumstances I do not see any useful object in raising possible controversy by bringing in opinion of P.W.D. on matters of detail. The indent seems to me to have been carefully prepared but Mr. James must take the responsibility for the reasonableness and accuracy.

Home (Edna)

[Signature]
 4.10.19

Home (Edna) Dept

The file may now be submitted to H.M. with reference to his note at p. 5 and.

2K.
 7.10.19
 M
 7.10.19

Q
 7.10.19

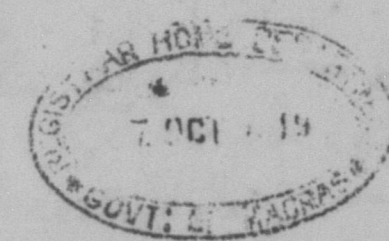
us. *[Signature]*
 7.10.19

L.D.
 8.10.19

(Please send for report
 Bourne to a copy of the
 report)



Pur no 2684 Ac/19-1
 27.10.1919



Please see Hui's note at p. 9. ²⁵ aut
A draft order and a draft D.O.
are subd. for approval.

D.O. 2018A-2

[Dear Sir,] 17/10/49

I am desired
by the Hon. Mr. L. Davidson
to forward to you a copy
of the indent on the India Office
for electrical and other equipments
required for the new College
of Engineering at Guindy which
is about to be forwarded to
England by the S.P.I.

Yours faithfully

Referred
To
Sir Alfred Bourne Esq.
M.C. J.E. D.Sc. F.R.S.
Director, Indian
Institute of Science,
Bangalore
(with a printed copy
of the indent kept
below).

RR
14.10.49
MS
14/10/49

CA
17/10/49

me
16/10/49

W. H. H. H.

A = Copy in full.
B = Not to be copied.
P = Copy abstract only.
Q = Copy heading only.