

Home (1918) Department.
Education

Ordinary SERIES.

G.O. No. 660

DATED 22.5.18

INDEXED

[Despatch Abstract.]

Technical Institute, Madura.-

Sanctioning the purchase of machinery and tools
at a cost of Rs. 14,865 for the mechanical engineering
section of the -----



Received

17 JAN 1918

Registered

1918

Abstract.

Technical Institute, Madura.

Directing that the provision of Rs. 70,100 for tools and plant and fittings be omitted from the estimate of Rs. 3,24,700 for the-----sanctioned in G.O. No. 957 W, dated the 26th June 1916, and stating that the cost of these items will be debited to 26 B Scientific and Miscellaneous Departments, Miscellaneous.

PUBLIC WORKS DEPARTMENT.

G.O. No. Mis. 75 W, dated 11th January 1918

again
Read the following papers:--

ENCLOSURES

G.O. No. 957 W, dated the 26th June 1916.
" 1756 W, dated the 23rd November 1916.

Read also:--

From the Superintending Engineer, VI Circle, No. 976 U.E., dated the 28th July 1917.

Note by the Chief Engineer, P.W.D., No. 2531 Wks.B/16-3, dated the 11th September 1917:--

In ~~connection~~ G.O. No. 957 W, dated the 26th June 1916, a revised estimate amounting to Rs. 3,24,700 for constructing a Technical Institute at Madura was sanctioned. This estimate contains a provision of Rs. 61,300 for tools and plant and Rs. 8,800 for fittings required for the Institute.

2. The Superintending Engineer, VI Circle, now submits an estimate amounting to Rs. 1,05,075 for the purchase of the tools and plant and fittings. The estimate has been framed with reference to a schedule of tools and plant prepared by the Superintendent of the Institute and approved by the Director of Industries. The intention was that the equipment should be ordered by the Department that was to run the Institute. It is accordingly recommended that the items in question viz items (8) and (9) in para 1 of Chief Engineer's note dated 5-6-16 read in G.O. No. 957 W, dated 26th June 1916, be omitted from the estimate sanctioned therein and that the amount of the estimate sanctioned in G.O. No. 957 W be reduced to Rs. 2,54,600 the cost of the tools and plant and fittings being debited to the civil head.

O R D E R:-Mis. No. 75 W, dated the 11th January 1918.

Government approve of the recommendation in the Chief Engineer's note read above. The amount of the estimate sanctioned in the G.O. read above will be reduced to Rs. 2,54,600 by the omission of the provision of Rs. 70,100 for tools and plant and fittings required for the Technical Institute at Madura. Orders will issue in the Home (Education) Department

No. 13/A-2 dated 31.1.1918

Communicated to the
Officer in charge of the Dept.
of Industries who is requested
to ^(a) submit proposals for
the organisation of the Mechan-
ical Engineering Section of
the Madras Technical Insti-
tute and (b) a revised list
of the machinery, tools and
plant required ~~there~~ for the

28-1-18

29/11/83

130 ^{8.} May 31/11/08

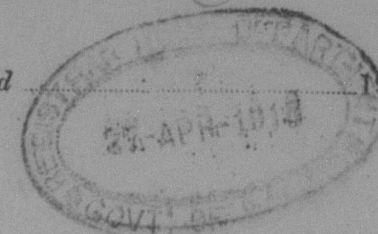
2 *april 1918*

The Officer in Charge of
the Dept^y of Education (p. 100)

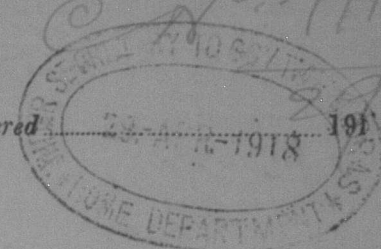
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DEPARTMENT.

Received



Registered



Subject.

Submitting revised list of machinery tools and plant required for the Technical Institute, Madura.

ENCLOSURES.

No.

Spare copies

No. R.O.C.727.

Station Madras, Dated the 24th April 1918 191From (Name) C.A. Innes Esq., I.C.S.(Designation) Director of Industries.

To The Secretary to the Government of Madras,
Home (Education) Department.

Sir,

With reference to Endorsement No.13/A.2 dated the 31st January 1918 on Proceedings of the Public Works Department No.75 W, dated the 11th January 1918, I have the honour to submit proposals for the preliminary equipment of the Mechanical Engineering Section of the Madura Technical Institute.

- (R) 2. In G.O. No.957 W. dated the 26th June 1916, a provision of Rs.61,300 was made for tools and plant, and Rs.8,800 for fittings required for the Institute. Subsequently an estimate amounting to Rs. 105,057 for the purchase of tools and plant was submitted by the Superintending Engineer VI. Circle. This estimate was framed with reference

SK
p. 27 p. 25 W
11.1.18

p. 3 Suprap. 1 Supra

to a schedule of tools and plant prepared in this office, but it has been found impossible to obtain this machinery from Home under existing conditions, and it accordingly became necessary to consider whether the minimum amount of machinery required for the opening of the new classes could be obtained from stocks held in India and by second hand purchases. I have made extensive enquiries, and as a result have drawn up a schedule of new and second hand machines, tools and fittings which I think can be obtained in India, and which will suffice until conditions revert to normal, and we are able to indent on Home manufacturers for the Electrical Apparatus, and for the balance of our other requirements.

3. I enclose the schedule of machinery, the cost of which amounts to Rs. 14,865, and request that sanction may be accorded at an early date for the purchase of the machinery and tools specified therein. According to the terms of Public Works Department Order No. 75 W. dated the 11th January 1918, the cost will be debited to 26 B Scientific and Miscellaneous Departments- Miscellaneous.

I have the honour to be,

Sir,

Your most obedient servant,

Calcutta

Director of Industries.

G.H.

Enclosure:-

Para 197 CBE for 1918-19 contains a provision of Rs 70,000 for this purpose.

List of Machinery, tools, and plant required for the preliminary equipment of the Madura Technical Institute.

Serial No.	Quantity.	Description of machine.	Approximate price Rupees.	Remarks.
<u>WOODWORKING SECTION.</u>				
1.	8	Carpenters' Benches.	240	To be made locally.
2.	20	" Tool chests.	300	" "
<u>FITTING SHOP.</u>				
3.	4	Fitters Benches	480.	" "
4.	6	Cast Iron Vices with 5" steel faced jaws.	240	To be purchased in India.
<u>BLACKSMITHS SECTION</u>				
5.	4	Chimneys for forges received from P.W. Workshops.	600	To be made locally.
6.	2.	Forges complete with chimney.	400	One for brazing and other foundry work. one for blacksmiths shop.
7.	1	5 cwt. Steam or Power Hammer.	2,500	To be purchased second hand in India if possible.
<u>FOUNDRY.</u>				
8.	1	Cupola. Firebrick Fireclay for Cupola	400	In process of manufacture at Madura.
		Air pipes, valves, supports and other Cupola accessories	350	
		Charging platform	900	To be manufactured at Madura from old rails and iron plates.
9.	1	Blower, with sheet iron case and vanes, mild steel shaft and cast iron plumer blocks mounted on frame of light girders or old rails.	450	To be made at Madura.
10.	1	Iron door for drying stove (Stove to be built of bricks lined with firebrick)	130	To be made locally.
11.	1	Furnace for crucibles to be built of bricks lined with firebricks and connected to chimney with byepass to drying stove cast iron plate, door and door ring.	100	"

MACHINE SHOP.

12.	1	Planing Machine to be capable of planing work 6' x 2' x 2".	2500.	To be purchased second hand in India.
13.	1	Slotting machine, self acting and geared	1300	To be purchased second hand in Madras.
14.	1	General ^{Geared} Punching and Shearing machine to shear 3/8" plates and punch 3/4" diameter holes through 1/2" plates.	750.	" "
15.	1	Emery Grinder with cast iron standards and gun metal bearings.	275.	To be made locally.
16.	2	Emery wheels 18" x 2"	300	To be purchased in India.

POWER PLANT.

17.	1	7 H.P. Vertical Steam Engine and Boiler mounted on same bedplate.	1450.	For driving machine shop and for demonstration
		Repairs, railage and replacements of missing parts	300	
18.	1	Twin Cylinder marine steam engine mounted on girder frame with link motion and copper surface condenser.	900.	For demonstration purposes

Rs. 14,865. ✓

NOTES.

W. H. E. D. Expt 6

[C. no 1317]
1291-207

from the P. W. D. No. mis 75 W 27 11-1-18.



Submitted the P. W. D. may be requested
w.o. to put up the original of No. mis
75 W 27 11-1-18 for reference return.

AP
11-1-18

W. H. E. D. for favor of compliance

209131A1

PUBLIC WORKS DEPARTMENT
C. NO. 247 W. H. E. D.
DATE 23/1/1918

P. W. D.

For 25

1/11/18

The original of No. 75 W 27 11-1-18 is put up in the file, which may be returned to Home (S. P.)

P. W. D. No 247 11-1-18

25-1-18

AP
24/1-24-1-18

25-1-18

TRK

In note file

Noted 25/1
Home Dept. may take
a copy of the notes to

Home tell us



Another department
linked case

Home Secy Dep't

Please see Mr. James' note on pages 11-12 and the Office note on page 13 of G.O. No. 75W of 11.1.18. Submitted Mr. James may be requested to submit ^(a) proposals for the organisation of the mechanical engineering section of the Madras Technical Institute and (b) a revised list of the machinery tool & plant required. A draft ~~is~~ ^{is} submitted for approval.

28.1.18

[Signature]

5/10

31/1/18

Page 3 CF

Pages 4-7 CF

[Enst. No. 131A-2, dated the 31st Jan 1918]

Enst. No. 1117A. From the offices in charge of the Dept. of Industries, No. 727 of 24.4.18.

Please see pages 7 to 12 of G.O. No. 75W, dated the 11th January 1918. In Enst. No. 131A-2 dated the 31st January 1918, Mr. James was asked to submit proposals

- (1) for the organisation of the mechanical engineering section of the Madras Technical Institute
 - (2) for the equipment of the institute with the necessary machinery
- ~~He now~~ ^(He now) submits a ^(preliminary) list of machinery to be purchased for the Institute. He has not submitted

p. 3 of cf.

pages 6 & 7 of cf.



Mr Jones will submit detailed proposals after orders are passed on his suggestions in regard to the policy to be pursued for the industrial education of mechanics.



Home (E.S.) No. 131A-3
CURRENT No. 4030
FINANCIAL
10095 10-5-18

mitted proposals in respect of the first item. The equipment of the mechanical engineering section should ordinarily be considered after the revised proposals for its organisation have been received and approved by the Govt. But the list of machinery now sent by Mr Jones represents minimum requirements and the purchase of the machinery and tools may be sanctioned at once. A draft order is submitted for approval. It may be sent to the Finl Dept for acceptance.

SK
6/5/18.
MK
7/5/18

S. We may as well get on with the case to this extent. This is one or two other cases will be cleared up when the General question is settled.

For S. M. 9/5/18

2 (uo)

Financial Dept
Subd that the draft may be accepted.

2. If the provision of Rs. 70,000 for

page 197 C.F.R.

equipment of the Madras Technical Institute is not likely to be fully utilized in the current year (it is proposed to spend only Rs. 14,865 — page 5 C.F.), Home (Educ.) may it is sub^d be requested to surrender the balance to this Dept.

G.S.K.

11.5.18.

C.S.

V.R.
12.5.18

✓ Yes. I will accept the draft subject to the concurrence of P.W.D., which might, I think, to see these proposals.

13.5.18

File no 4030-1
13.5.18.

Home info



Home (Educ.) Dept.

The sum of Rs 70,000 referred to by the Finl. Dept. is the provision for the equipment of all the sections, (mechanical engineering, weaving and dyeing), ~~and~~ of the Institute. The present proposal is only in respect of the mechanical engineering section. Even in this ^{section} only the minimum

[Faint, mostly illegible handwritten notes on the left page, possibly bleed-through from the reverse side.]

minimum requirement is provided for. As regards the weaving section proposal for equipment may be received after the recruitment of the weaving expert. It is now too soon to ask Mr. Innes to say how much of the provision of Rs. 70,000 will be spent in the current year and what portion of it can be surrendered.

2. The P.W.D. have stated that the equipment of the Institute should be arranged for by the administrative department. But the file may perhaps be sent to ~~the P.W.D.~~ that Dept. for acceptance of the draft order with reference to the Chief Secretary's remark.

SK
14.5.18.

NK
15/5/18

P.W.D. no. 1158

P.W.D.

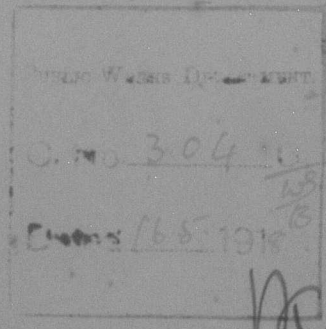
DS The draft order may be accepted & the file returned to the Home (Edl) Dept. - For a list of tools & machinery to be purchased, please see Mb 6-7 of

Accepted & paid
17/5 Home (281)

p. 1 of c.f.
vide
(Gw No 75W d 4.18)
4



Home (Edl) no.
No. 1117A-1
15.5.18



17.5.18

15/5

NOTES.

Page

6

Home (8dⁿ) Dept

Submitted that the draft order
may now issue

8K
20/5/18-

MK
20/5/18

h.f.

18. (6) *Home (Edn)* DEPARTMENT
Technical Institute, Madurai.

Sanctioning the purchase of machinery and tools at a cost of Rs. 14,865 for the mechanical engineering section of the

READ AGAIN G.O. No. 752, dated the 11. 1. 1918

191

READ ALSO:—

C. No. 131 A., From the _____, No. _____, dated _____ 191

1117A Officer in charge ^{R.O.C.} of the Dept. of Ind. 327 The 4.4.1918.

ORDER

Miss

No. 660, dated 22. 5. 1918

The Govt approve
the proposal to purchase
~~the~~ machinery and tools
~~specified in the list~~
~~enclosed to the letter~~
~~read above~~ for the
mechanical engineering
section of the Madras
Technical Institute
at a cost of Rs 14,865-.

2. The expenditure will be met from the lump provision of Rs 70,000 under the head "26 Bm - Scientific and Miscellaneous Dept^s - Miscellaneous - Madras Technical

(pages 6 & 7 of 7)

(page 197 of C.B.F. for 1918-19.)
(from 1918/19)

Institute, Mechanical

Engineering Branch, in the

8th Budget estimate for 1918-19

7/5/18.

MS 7/5/18

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To
The Officer in charge
of the Dept. of
A.G. through Fin.
(also)
Copy to the Fin. Dept.

When given for copying
When copied
When examined
When signed

191

READ AGAIN G.O. No. 191

CURRENT No.

ENCLOSURES TO G. No.

ORDER OF GOVERNMENT

LETTER OF GOVERNMENT

STATEMENT WITH LISTS

PAPERS NOT FILED UP, BEING KEPT FOR REFERENCE IN ORIGINAL

N.B.—
A = Copy in full.
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