

Home (Education) (1917) Department.

Ordinary SERIES.

~~G.O.~~ No. ^{Letter} 62

DATED 15-1-17

INDEXED

[Despatch Abstract.]

Oil Mill.

Forwarding to the Director of the Indian Institute of Science, Bangalore, a note of the Department of Industries giving particulars as to the hydraulic—which has been partly erected at Washermanpet, Madras.

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

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.

INDIAN INSTITUTE OF SCIENCE,
BANGALORE, INDIA.

POSTAL ADDRESS:
HEBBAL, BANGALORE DISTRICT.
TELEGRAMS:
"SCIENCE," BANGALORE.
CODE.
A. B. C. 5TH EDITION.

No. 4618

All letters, packages, &c., should be
addressed to the Director.

From SIR ALFRED G. BOURNE, D.Sc., F.R.S., K.C.I.E.

Director.

To

The Secretary to the Government of Madras,
Home (Education Department),
Fort St. George.

18th December 1916.

Sir,

With reference to your letter No. 1334 dated the
11th December 1916, I feel sure that my Council will
gladly accept the offer contained therein, but before
definitely laying the matter before them I will await
the replies from other local Governments. In the meantime
I am forwarding to them a copy of your letter under reply.

I should be glad to have details at an early date
as to what portions of the oil mill have arrived and to
hear whether it is known when the other portions are likely
to arrive. With regard to this matter Dr. Watson and I will
probably visit Madras some time in January and I shall be
obliged if you could let me know when and where we could
see the plant.

I have the honour to be,

Sir,

Your most obedient servant,

A. G. Bourne

Director.

SK

OFFICE NOTE.

SUBJECT. Oil industry ³

From The Director of the Indian
Institute of Science, Bangalore
No. 66 by the 10.12.16.

Register No. 4725.

There is no specific information here as to what portion of the large oil mill has been received & when the rest is likely to be received. Mr. Sures may be requested (as) to furnish this information. ~~The mill~~ The mill, ~~has~~ so far as it has been delivered, has been erected at Washermanpet. Mr. Sures may also be requested to state when Dr. Bourne & Dr. Watson may see the plant.

8th
20.12.16.

M
21/12/16

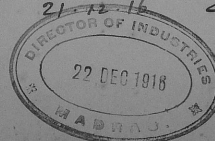
Mr Sures no. of
form of information

Uthmaniy

21.12.16

Ref no 4725-1

21.12.16



Page 42 of 80. 1334
11.12.16

4

The hydraulic Oil Crushing Plant which has been partly erected at Washermanpet comprises a steam engine and boiler, set of seed crushing rolls, steam heated kettle, moulding machine, Seeds Cage Presses, Edge runner mill, paring machine, Fullers Earth refining plant, oil cooling plant, filters and hydraulic pumps and accumulators.

2. The seed is passed through the crushing rolls where ~~it~~ it is reduced to meal. It is then elevated into the steam heated kettle where it is heated by coming into contact with hot plates and tempered by direct contact with moist steam. This operation facilitates the flow of oil and solidifies any albuminous matter present. From the kettle the meal is drawn off into a moulding machine where it is measured and receives a preliminary pressing, subsequently being delivered into the cage presses where the cake is pressed for the first time and the oil exuded. The resulting cakes are ground up in a stone mill before passing to the kettle to be heated for the final pressing. When the material is worked hot the second time the kettle acts simply as a collector or distributor for the first cold pressing. The oil from the press is then purified by being heated to 160 deg. F. in a jacketted cylinder and subjected to a brief and rapid admixture with fullers earth, finally passing to the oil cooling apparatus where the oil is reduced to a temperature at which the stearine may be removed.

3. Of the machinery above described, the seed crushing rolls, edge runner mill, hydraulic pumps and accumulators, oil cooling plant, fullers earth refining plant and filters and the steam engine and boiler have been supplied and erected. The balance of plant consisting chiefly of the

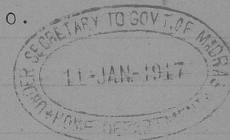
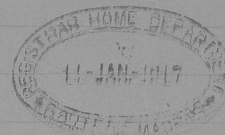
It is pressing machinery remains undelivered, and ^{it is} under-
^{not}stand ~~that~~ the manufacturers that there is little
 possibility of ~~their~~ being in a position to supply
 this machinery until after the war.

Omits in copying

4. The plant may be inspected by Sir Alfred
 Bourne and Dr. Watson at any time convenient to
 them.

Secy. to Govt., Home (Edl) Dept.,

U. O.



Noted in CO
11.1.17

Home (Edl) Dept

*A Draft letter to the Director
 of the Indian Institute of Science,
 Bangalore, is submitted for
 approval.*

8A
12.1.17.

14/1/17

15/1

Home (Education) Department

Letter No. 62 of the 15.1.17
Mis

To

The Director of the
Indian Institute of Science,
Bangalore.

Sir,

With reference to your letter No.4618,
dated the 18th December 1916, I am di-
rected to enclose ~~at~~ a note ~~by~~
~~the Officer in charge~~ of the Department
of Industries giving particulars as to
the hydraulic oil mill which has been
partly erected at Washermanpet. The
plant may be inspected at any time con-
venient to you when you visit Madras

Keep
with copy
of the
of the
pages 2 & 3 of note
for the notes to be
note of the
16.1.17

15/4

When given for copying
When copied
When examined
When signed

191

READ AGAIN G.O. No.
191

DATED

CURRENT No.

ENCLOSURES TO C. No.

ORDER OF GOVERNMENT

A A A A A A A

LETTER OF GOVERNMENT.

STATEMENT WITH ETTIO.

PAPERS NOT FILED UP, BEING MEANT FOR DISPATCH
IN ORIGINAL.

N.B.—

A = Copy in full.
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