

- (1) பக்கங்களின் எண்ணிக்கை 10
 (2) புதுக்கித் திருப்பிய நாள் 19-10-80
 (3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம் 10/8

தமிழ்நாடு ஆவணக் காப்பகம்.

(26)

தமிழ்நாடு அரசு

PWD துறை

அரசாணை எண். மு. கோப்புத் தாள் எண். <u>2484</u>	அச்சகம் பலவகை
நாள் : <u>16-9-1891</u>	198

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

5 Sheets

16TH SEPTEMBER 1891, No. 2484 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following paper:—

G.O., dated 1st September 1891, No. 4694, Revenue.

Read—the following letter from the Government Botanist and Director of Government Cinchona Plantations, &c., Nilgiris, dated 17th August 1891, No. 43:—

With reference to G.O., No. 642, dated the 16th July 1891, Revenue, I have the honour to inform you that Mr. Hooper, the Government Quinologist, has already examined the composition of the scrub exterminator. A copy of his report on the analysis of the compound is sent herewith.

2. A reference to the matter was also made in my annual report on the Government gardens and parks for the last year (*vide* para. vi-g.).

ENCLOSURE.

From D. HOOPER, Esq., Government Quinologist, to the Government Botanist and Director of Government Cinchona Plantations, Nilgiris, dated Ootacamund, 8th June 1891.

I have the honour to report upon the examination of a sample of scrub "exterminator" received last month from the Board of Revenue.

2. Under the microscope it was seen to consist of some white crystalline particles mixed with some yellow granular matter.

3. It was mostly soluble in water with a strong alkaline reaction; about 8 per cent. was insoluble. The liquid portion contained a large quantity of arsenic, which, when separated in the form of sulphide, amounted to 40 per cent., a quantity equivalent to 32.19 per cent. of white arsenic or arsenious oxide. The other constituents present in the mixture were sulphur, alkali and alkaline salts, and the preparation is probably manufactured by evaporating a mixture of arsenic and sulphur with some caustic liquor, whereby the slightly soluble arsenic and insoluble sulphur are rendered freely soluble in water.

4. I have tried a solution of the scrub exterminator on grass and other weeds and found it to produce the results claimed for it. A one per cent. solution is sufficiently strong to blacken and eventually destroy small annual plants in the dry weather, but, on repeating the experiment, when the ground is moist from recent showers, the poison becomes so diluted as to have little or no effect.

5. It should be pointed out that an arsenical preparation of this kind should be used with great caution as it is a deadly poison to animals and human beings. Each packet should be distinctly labelled with the word "poison," and persons, to whom it is distributed, should be made acquainted with its dangerous properties.

Order—dated 1st September 1891, No. 4694, Revenue.

Communicated to the Commissioner of Revenue Settlement and Director of the Department of Land Records and Agriculture.

(True Extract.)

(Signed) R. C. C. CARR,
Ag. Under-Secy. to Govt.

ORDER—dated 16th September 1891, No. 2484 W., Public Works.

Communicated to officers of the Public Works Department, for information, in continuation of G.O., No. 2294 W., dated 26th August 1891.

(True Extract.)

Major, R.E.,
Under-Secy. to Govt., P.W.D.

To the Chief Engineer for Irrigation.
To Superintending Engineers
To the Consulting Architect to Government.
„ Superintendent of Works, Periyar Project.

Exd. A. D. Xavier.
Spare Copies

2484
2

GENERAL
ACCOUNT.

Govt. of (1891) Madras.
PUBLIC WORKS.

Dated September, 16th.

Recd.

Encl.

G.O., 16th Sept. 1891, No. 2484 W.

SEPTEMBER.

Scrub Exterminator

Proceedings in the Revenue Department,
communicating report of the Government
Quinologist on the —, communicated to the
officers of the department.

Estacamento.
8th June 1891.

From
L. Hooper Esq. Govt. Quinologist
To
A. A. Lawton Esq. Govt. Botanist & Director
Govt. Cinchona plantations
Nilgiris.

Sir,

2484/3 1P

I have the honor to report upon
the examination of a sample of scrub
"Exterminator" received last month
from the Board of Revenue.

Under the microscope it was
seen to consist of some white crystalline
particles mixed with some yellow gra-
nular matter.

It was mostly soluble in water
with a strong alkaline reaction; about
8 per cent was insoluble. The liquid
portion contained a large quantity of
arsenic, which when separated in the
form of sulphide amounted to 40 per
cent, a quantity equivalent to 32.19 per
cent of white arsenic or arsenious oxide.
The other constituents present in the mixture
were sulphur, alkali and alkaline salts,
and the preparation is probably manu-
factured by evaporating a mixture of
arsenic and sulphur with some caustic
liquor, whereby the slightly soluble
arsenic and insoluble sulphur are
rendered

rendered freely soluble in water.

I have tried a solution of the ferrous exterminator on grass and other weeds and found it to produce the results claimed for it. A one percent solution is sufficiently strong to blacken and eventually destroy small annual plants in the dry weather, but on repeating the experiment when the ground is moist from recent showers, the poison becomes so diluted as to have little or no effect.

It should be pointed out that an arsenical preparation of this kind should be used with great caution as it is a deadly poison to animals and human beings. Each packet should be distinctly labelled with the word "poison" and persons to whom it is distributed should be made acquainted with its dangerous properties.

I have the honor to be,
Sir,

Your most obedient servant,

(Signed) L. Hooper.

Govt. Zoologist.

(Signed) W. A. Lawton

Govt. Botanist & Director

(True copy)

Recear

As under Secretary to Govt.

M

PROCEEDINGS OF THE MADRAS GOVERNMENT, Rev. Secy

Read the following letter from the

Government Botanist and Director of Government Cinchona Plantations & Nilgiris, dated 17 August 1891, No. 43.

B.N. 2294 & 26.8.91

With reference to G.O. No. 642 dated the 15 July 1891 received. I have the honor to inform you that Mr. Hooper the Government Zoologist has already examined the composition of the said exterminator. A copy of his report on the analysis of the compound is sent herewith.

Copy attached

A reference to the matter was also made in my Annual Report on the Government Gardens and Parks for the last year. Vide para VI.g.

Order thereon, 1 September 1891, No. 4694.

Communicated to the Commissioner of Revenue Settlement and Director of the Department of Land Records and Agriculture.

(True Extract)

Recear

As under Secretary to Govt.

The Commr. of Rev. Settlement & Director of the Dept. of L.R. & Agriculture.

Govt. Botanist & Director of Govt. Cinchona Plantations
Copy to the Public Works Department.

P. B. No 2710 W of 27. 9. 89
 Memo No 5445 C of 21. 11. 89
 P. B. No 536 W of 20. 2. 90
 " " 3140 W of 25. 11. 90
 Memo No 5172 C of 11. 12. 90
 P. B. No 374 W of 6. 1. 91
 " " 953 W of 6. 4. 91
 Memo No 4202 of 20. 6. 91
 P. B. No 2294 W of 26. 5. 91

No 9-9-91
 Encl sent
 3 sent
 No 2484 W of 16 Sept 1891
 Communicated to
 officers of the P.W. Dept
 for information in
 continuation of
 S.O. No 2294 W of 26
 August 1891.

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Ch: Eng for Smith
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 C.A. to Spat
 Supl. of Works P. Project

Obs 3. 17 16.9.91
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Public Works Department.

No. 2484 w
Dated 16 Sep.
Despatched
Received

17/9/91

2484/91

SUBJECT.

Scrub Exterminator

On the 16th Sept. being
present of the Govt. Quar-
termaster on the —, and
to the officers of the
Dept.

(5)

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112

16/9