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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Revenue

DEPARTMENT

G.O. No.	3075	Press.
B.P. No.		Mis.
<i>Revenue Dept.</i>		
Dated	3.10.1977	197

Not to be folded or roughly handled

GOVERNMENT OF MADRAS.
REVENUE DEPARTMENT.

3rd October 1877, No. 3,075.

Read the following paper :—

No. 51. Proceedings of the Board of Revenue, dated 3rd September 1877, No. 4,064.

Read the following letter from W. R. ROBERTSON, Esq., M.R.A.C., Superintendent of Government Farms, to C. A. GALTON, Esq., Acting Secretary to the Board of Revenue, dated Sydapet, 20th August 1877, No. 714 :—

THE absence of trustworthy analyses of the different kinds of agricultural produce raised in this country is a serious impediment to agricultural improvement and a detriment to the teaching of agriculture in the Agricultural College.

2. We possess some general information regarding the chemistry of a few of our crops, but such information, however good it may be, supplies only a portion of our wants.

3. Of a few of the food grains of Southern India analyses have been published, but there is nothing to show that they are worthy of trust, though again and again elaborate theories have been built on the faith of their value. Not long ago I had occasion to address the Compiler of the Catalogue of the Exhibits at the Vienna Exhibition regarding the analyses of Madras grains given in the catalogue, but he was quite unable to inform me by whom these analyses were made and direct me for information on the point to a gentleman in Madras who was found to be equally unable to afford any information. I believe that, if proper inquiry was made, the majority, if not all, of these analyses would be found to possess no value as affording a knowledge of the composition of the ordinary produce of the country.

4. At no time in the history of Madras has a knowledge of the exact composition of its agricultural produce (of food grains more especially) possessed such importance as now.

5. The grains and pulses of which analyses are most urgently required are the following :—

Paddy (*Oryza Sativa*), Cholum (*Sorghum Vulgare*), Cumboo (*Penicillaria spicata*), Wheat (*Triticum aestivum*), Raggy (*Elysiene coracana*), Varugu (*Panicum miliaceum*), Shamai (*Panicum Miliare*), Tennai (*Panicum Italicum*), Maize (*Zea Mays*), Horse-gram (*Lathyrus Uniflorus*), Bengal gram (*Cicer Arietinum*), Cotton seed (*Gossypium Indicum*).

6. Fair representative samples would need to be selected, and it would be well if a description of the soil on which each was raised, and the method or cultivation in raising the produce, could be placed on record.

7. An analyses of the composition of the produce as well as of its ash should be determined, for the first-mentioned object the following would suffice :—

	Per cent.			
Water	...	...	...	...
Albuminoids	...	...	...	...
Starch, &c.	...	...	...	...
Fat or oil	...	...	...	...
Gum and sugar	...	...	...	...
Cellulose digestible	...	...	...	...
Do. indigestible	...	...	...	...
Mineral matters	...	...	...	...

100.00

Revenue Department, 3rd October 1877, No. 3,075.

8. For the determination of the ash the following would suffice:—

Per Cent. of Ash.	Per cent.
Potash	
Soda	
Lime	
Magnesia	
Oxide of iron	
Phosphoric pentoxide	
Sulphuric trioxide	
Carbon dioxide	
Chlorine	
Silica	

100.00

9. As there is no one competent in this country to make the analyses required, I have the honor to suggest, if the foregoing proposals meet with approval, that the samples should be sent to the Secretary of State for India for analysis either by Dr. Veselker, F.R.S., Consulting Chemist to the Royal Agricultural Society, or to Professor Church, M.A., Professor of Chemistry at the Royal Agricultural College.

SUBMITTED to Government.

2. The Board recommend that samples of the seeds and grains mentioned by Mr. Robertson be forwarded, and that the Secretary of State be requested to have authoritative analyses made and the result communicated.

(A true Copy and Extract.)

(Signed) C. D. MACLEAN,
Additional Sub-Secretary.

No. 52.

ORDER THEREON, 3rd October 1877, No. 3,075.

Miscellaneous.

His GRACE the Governor in Council approves the proposal of the Board. The necessary samples should be prepared, and when ready they will be despatched to England for the purpose suggested by the Superintendent of Government Farms.

(True Extract.)

(Signed) C. E. MASTER,
Secretary to Government.

To the Board of Revenue.

Exd. A. F. Goodall.

Govt. of (1877) India
REVENUE.

THE BOARD OF REVENUE.

Ac., Ac., Ac.

Recd. Encl.

G.O., 3rd October 1877, No. 3,075.

OCTOBER.
Nos. 51-52.

Agricultural Produce of Southern India.
Approving the proposal of the Board of Revenue to send specimens of the — to the Secretary of State for an authoritative analysis; and directing the preparation of the necessary samples for despatch to England.

REVENUE DEPARTMENT.

No. 4139.

From Pres: Board of Revenue

Dated 3^d Sept. 1877.

FOR ORDERS.

Approved
W.H.

30/ X No 4139

FOR ORDERS.

Alouatta palliata
proper name in East
India etc.

2/10/7

PROCEEDINGS OF THE BOARD OF REVENUE, dated 3rd September 1877.

Read the following letter from W. R. ROBERTSON, Esq., M.R.A.C., Superintendent of Government Farms, to C. A. GALTON, Esq., Acting Secretary to the Board of Revenue, dated Sydapet, 20th August 1877, No. 714:—

The absence of trustworthy analyses of the different kinds of agricultural produce raised in this country is a serious impediment to agricultural improvement and a detriment to the teaching of agriculture in the Agricultural College.

2. We possess some general information regarding the chemistry of a few of our crops, but such information, however good it may be, supplies only a portion of our wants.

3. Of a few of the food grains of Southern India analyses have been published, but there is nothing to show that they are worthy of trust, though again and again elaborate theories have been built on the faith of their value. Not long ago I had occasion to address the Compiler of the Catalogue of the Exhibits at the Vienna Exhibition regarding the analyses of Madras grains given in the catalogue, but he was quite unable to inform me by whom these analyses were made and referred me for information on the point to a gentleman in Madras who was found to be equally unable to afford any information. I believe that, if proper inquiry was made, the majority, if not all, of these analyses would be found to possess no value as affording a knowledge of the composition of the ordinary produce of the country.

4. At no time in the history of Madras has a knowledge of the exact composition of its agricultural produce (of food grains more especially) possessed such importance as now.

5. The grains and pulses of which analyses are most urgently required are the following:—

Paddy (*Oryza Sativa*), Cholum (*Sorghum Vulgare*), Cumbod (*Penicillaria spicata*), Wheat (*Triticum spelta*), Raggy (*Eleusine coracana*), Varugu (*Panicum miliaceum*), Shamai (*Panicum Miliare*), Tennai (*Panicum Italicum*), Maize (*Zea Mays*), Horse-grain (*Dolichos Uniflorus*), Bengal gram (*Cicer Arietinum*), Cotton seed (*Gossypium Indicum*).

6. Fair representative samples would need to be selected, and it would be well if a description of the soil on which each was raised, and the method or cultivation in raising the produce, could be placed on record.

7. An analyses of the composition of the produce as well as of its ash should be determined; for the first-mentioned object the following would suffice:—

	Per cent.
Water	...
Albuminoids	...
Starch, &c.	...
Fat or oil	...
Gum and sugar	...
Cellulose digestible	...
Do. indigestible	...
Mineral matters	...
	100.00

8. For the determination of the ash the following would suffice:—

	Per Cent. of Ash.	Per cent.
Potash	...	...
Soda	...	...
Lime	...	...
Magnesia	...	...
Oxide of iron	...	...
Phosphoric pentoxide	...	...
Sulphuric trioxide	...	...
Carbon dioxide	...	...
Chlorine	...	...
Silica	...	...
		100.00

9. As there is no one competent in this country to make the analyses required, I have the honor to suggest, if the foregoing proposals meet with approval, that the samples should be sent to the Secretary of State for India for analysis either by Dr. Voelcker, F.R.S., Consulting Chemist to the Royal Agricultural Society, or to Professor Church, M.A., Professor of Chemistry at the Royal Agricultural College.

SUBMITTED to Government.

2. The Board recommend that samples of the seeds and grains mentioned by Mr. Robertson be forwarded, and that the Secretary of State be requested to have authoritative analyses made and the result communicated.

(A true Copy and Extract.)

Additional Sub-Secretary.

To the Secretary to Government, Revenue Department.
Copy to the Superintendent of Government Farms.

Edw. C. Howarth.

C. 25.5/1/11 R. 2/10/11

Agricultural Produce—raised in Southern India.— Submitting to Government letter from Superintendent of Government Farms regarding necessity for obtaining trustworthy analyses of different kinds of —, and recommending that samples of seeds and grains be forwarded, and that the Secretary of State be requested to have authoritative analyses made and the result communicated.

SEPTEMBER.
No. 4,064.

Received

23-10-77 No. 3075
24 September

PROCEEDINGS, 3RD SEPTEMBER 1877, No. 4,064.

24/9/77

Encl.

BOARD OF REVENUE,
MADRAS.

1877.

24/10/77

Revenue Officer to

No. 3075 of 3-10-77

Proceedings of the Madras Government
Under date the 10th October 1877

Read Proceedings
of the Board of Revenue
dated 3rd September 1877, No. 4,064, submitting letter from Superintendent Govt Farms regarding necessity for obtaining trustworthy analyses of different kinds of Agricultural Produce raised in Southern India and recommending that samples of seeds and grains be forwarded, and that the Secretary of State be requested to have authoritative analyses made and the result communicated.

His Grace the Governor
in Council approves the
proposal of the Board.

The

The necessary samples
should be prepared and
when ready they will be
despatched to England for
the purpose suggested by
the Sup^t of Govt. Farms.

W. H. Gill

14 Feb of Revenue (16-10-77)

The necessary samples

G.O.

Analyses of
different kinds of
Agricultural produce
raised in Southern India.