(1) Number of pages

(2) Date of repair

(3) Initials of the Referencer

MADRAS RECORD OFFICE.

Government of Madras.

Revenue DEPARTMENT.

G.O. No. 1428 Press / Mis.

Dated 16-10-1872.

Not to be folded or roughly handled

Proceedings of the Madras Government, Revenue Department,
16th October 1872.

No. 123. Read the following letter from Messrs. JAMES MACMEIKAN and Co., Melbourne, to the Chief Secretary to Government, Fort St. George, Madras, dated 32, King's street, Melbourne, 5th September 1872:—

HAVING seen a report from the Government Quinologist, Ootacamund, to you, dated 7th March 1872, we have taken the liberty of forwarding to you a cask of our manures, so that it may be tried in the growing of the trees of Cinchona Succirubra and Officinalis, as we believe it will answer the purpose as well if not better than Peruvian Guano or Sulphate of Ammonia, and at much less cost. We may say that our manures are fast taking the place of Peruvian Guano in the Mauritius market. Hoping that we may have a favourable report, we have, etc.

Enclosed are a few of our circulars. These manures are deodorized.

No. 124. ORDER THEREON, 16th October 1872, No. 1,428.

Miscellaneous.

ORDERED to be communicated to the Commissioner, Nilgiris, to whom the manure will be forwarded on receipt for trial on the Cinchona plantations and report as to the results.

(True Extract.)

(Signed) W. HUDLESTON,
Secretary Govt.

To the Commissioner of the Nilgiris.
,, the Collector of Sea Customs.
,, the Government Quinologist.
,, the Board of Revenue.
,, Messrs. James Macmeikan & Co.

Exd. F. R. Bantleman.

32 King Street
Melbourne, Sept 5. 1872

The Hon'ble the Chief Secretary
Fort St George
Madras

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We have the honor to be
Your Most Obt Servants
James Maemeikan & Co

Enclosed are a few of our Circulars
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Govt. of {1872} Madras.

REVENUE.

To

THE COMMISSIONER OF THE NILGIRIS, &c., &c.

Dated October 16th.

Read.

Encl.

G. O. 16th October 1872, No. 1,428.

OCTOBER.
Nos. 123-124.

Manure.—Letter from Messrs. Macmeikan & Co., intimating the despatch of a cask, communicated to the Commissioner of the Nilgiris with intimation that the manure will be forwarded on receipt for trial in the Cinchona plantations.

Vide No 3 535 of 1872
Nilgiris Ch. 727 Sept 1872

AWARDED MEDAL AT THE INTERCOLONIAL EXHIBITION, 1866.

The GOLD MEDAL, LONDON EXHIBITION, 1862.

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ANIMAL GUANO AND CONVERTING WORKS,

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ESTABLISHED 1855.

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SUPERPHOSPHATE OF LIME.—**(better known as Dissolved Bones.)**—This invaluable Manure is one which MACMEIKAN & Co. have at considerable expense prepared, and they trust, from its well-known merits, to receive extensive orders this Season.

ANIMAL GUANO.—This Manure is not only a quick, but a valuable addition to our Manures, supplying a want long felt, being an Ammoniacal Manure quick and of high value.

MACMEIKAN & CO.'S MANURES are manufactured in such a way as to ensure First-Class Fertilizers in the cheapest and best form for Immediate Use; and the best proof of their utility may be realized by reference to the following facts, viz.:—

"The FIRST PRIZE *for Wheat* (40 bushels), amounting to Forty Sovereigns, was awarded to Mr. J. G. Brisbane, of Berwick, who dressed the land with 6 cwts. to the acre of James Macmeikan & Co.'s BONE DUST the year previous, for potatoes, and got a splendid crop. To Mr. William Sim, of Ballaarat, FIRST PRIZE *for Tartarian Oats* (40 bushels), amounting to Fifteen Sovereigns, manured at the rate of 3 cwts. to the acre; also the FIRST PRIZE *for Malting Barley* (20 bushels), amounting to Fifteen Sovereigns, awarded to the Warrenheip Distillery Company, and SECOND PRIZE of Seven Sovereigns, to Mr. William Sim, of Ballaarat; both these Prizes were grown by the latter, and manured at the rate of 3 cwts. to the acre. All the above Prizes were the gift of the BOARD OF AGRICULTURE, at the Port-Phillip Farmers' Show, held on 28th March, 1866, in the Exhibition Building, Melbourne."

METHODS OF APPLICATION.—Superphosphate of Lime, 1½ to 2 cwts. per acre; Bone Dust, 6 cwts. per acre for Potatoes with Wheat for the following crop; Animal Guano, 2½ cwts. per acre; highly recommended. One ton of Bone Dust is considered equal to 40 loads of Farmyard Manure, hence it is at once apparent that there must be a great saving in cartage and spreading it on the land, as artificial manures can be hand-sown freely. In this dry climate, stable manure is never sufficiently rotted so as to destroy weed seeds, and they germinate freely again; but in using artificial manures you are free from all weeds, it being also apparent that if you have clean land you obtain better crops.

PRICES FREE ON BOARD OR AT STORE:—

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BONE DUST.....£6 10s. „	COFFEE MANURE.....£7 10s. „

Bags included, or if in Air-tight Casks, 22s. per Ton additional.

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Superphosphate of Lime:

Water, free and combined	2.47
Organic and Volatile matter	43.81
Soluble Phosphate	7.55
equal to Bone Earth	11.76
Phosphate of Lime & Magnesia, Bone Earth.	25.71
Sulphate of Lime	15.70
Sand and earthy matter	2.09
Soluble Salt	2.67
Nitrogen	5.96
equal to Ammonia N.H. 3	7.50
or to Sulphate of Ammonia	29.08
	100.00

REMARKS.—Of this preparation I can speak in terms of commendation. The Bones are well softened, a good proportion (one third) reduced to a state in which they are soluble in water, while the rest is disintegrated and readily diffusible. It contains a large proportion of Gelatine, and consequently is capable of yielding abundance of Ammonia.

Animal Guano (patented):

Water, free and combined	7.81
Organic matter (nitrogenous)	40.69
Alkaline Salts	0.73
Silica, soluble and insoluble	3.77
	53.00
Phosphate of Lime (Bone Earth)	29.79
Do. soluble (Superphosphate)	3.10
equal to Bone Earth	4.69
Total Phosphates	33.88
Sulphate of Lime	13.30
Magnesia and Loss	0.81
Nitrogen	4.59
equal to Ammonia N.H. 3	5.58
or Sulphate of Ammonia	21.64
	100.00

REMARKS.—It thus contains all the principal constituents of average crop, well mixed, finely divided, and in a favorable condition for distribution and assimilation. It is slightly acid, a good feature in an ammoniacal manure. It cannot fail to prove an excellent manure for Sugar, and especially adapted for Tobaccos.

Bone Dust:

Water, free and combined	7.74
Organic matter (nitrogenous)	27.06
Alkaline Salts	1.52
Silica, soluble and insoluble	5.20
Phosphate of Lime	48.12
Sulphate of Lime	10.36
Nitrogen	4.01
equal to Ammonia N.H. 3	5.3
or to Sulphate of Ammonia	20.57
	100.00

REMARKS.—It is of acid reaction. The Alkaline Salts contain Sulphates, and the Carbonate of Lime of the Bones is converted into Sulphates, indicating the addition of Sulphuric Acid, which of course has the effect of converting a portion of Bone Earth into Superphosphate. In Ammonia it is rich, and further I may say, a well prepared manure.

Coffee and Tobacco Manure:

Water, free and combined	6.55
Organic matter (nitrogenous)	38.35
Alkaline Salts *(see note)*	15.11
Silica, soluble and insoluble	4.15
Phosphate of Lime	25.30
Sulphate of Lime	6.14
Magnesia and Loss	1.39
Nitrogen	3.36
equal to Ammonia N.H. 3	4.08
or to Sulphate of Ammonia	18.87
	100.00

REMARKS.—The Alkaline Salts are Carbonate, Sulphate, Nitrate and Chloride, chiefly of Potass, all required for Coffee. The other constituents are valuable and well mixed. It is a capital preparation for the purpose intended. I may add that from its composition it would be an excellent application for Tobacco.

2nd August, 1871. (Signed) SYDNEY GIBBONS, F.C.S., &c., *Analyst.*

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Alkaline Salts	[illegible]
Silica, soluble and insoluble	8.77
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Do. soluble (Superphosphate)	3.10
equal to Bone Earth	4.69
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equal to Ammonia N.H. 3	5.58
or Sulphate of Ammonia	21.64
	100.00

REMARKS.—It thus contains all the principal constituents of average crop, well mixed, finely divided, and in a favorable condition for distribution and assimilation. It is slightly acid, a good feature in an ammoniacal manure. It cannot fail to prove an excellent manure for Sugar, and especially adapted for Tobaccos.

Bone Dust:

Water, free and combined	7.74
Organic matter (nitrogenous)	27.06
Alkaline Salts	1.52
Silica, soluble and insoluble	5.20
Phosphate of Lime	48.12
Sulphate of Lime	10.36
Nitrogen	4.01
equal to Ammonia N.H. 3	5.3
or to Sulphate of Ammonia	20.57
	100.00

REMARKS.—It is of acid reaction. The Alkaline Salts contain Sulphates, and the Carbonate of Lime of the Bones is converted into Sulphates, indicating the addition of Sulphuric Acid, which of course has the effect of converting a portion of Bone Earth into Superphosphate. In Ammonia it is rich, and further I may say, a well prepared manure.

Coffee and Tobacco Manure:

Water, free and combined	6.55
Organic matter (nitrogenous)	38.35
Alkaline Salts (*see note*)	15.11
Silica, soluble and insoluble	4.15
Phosphate of Lime	25.30
Sulphate of Lime	6.14
Magnesia and Loss	1.39
Nitrogen	3.36
equal to Ammonia N.H. 3	4.08
or to Sulphate of Ammonia	18.87
	100.00

REMARKS.—The Alkaline Salts are Carbonate, Sulphate, Nitrate and Chloride, chiefly of Potass, all required for Coffee. The other constituents are valuable and well mixed. It is a capital preparation for the purpose intended. I may add that from its composition it would be an excellent application for Tobacco.

2nd Aug , '871. (Signed) SYDNEY GIBBONS, F.C.S., &c., *Analyst.*

PRICES FREE ON BOARD OR AT STORE:—

SUPERPHOSPHATE OF LIME .....£10 0s. per Ton.
BONE DUST .....£6 10s. ,,
PATENT ANIMAL GUANO.....£6 10s. per Ton.
COFFEE AND TOBACCO MANURE...£7 10s. ,,

Bags included, or if in Air-tight Casks (suitable for Rum or Molasses), 22s. per Ton additional.

☞ *Orders by Post direct to the Office and Store, 32 King-street, Melbourne, will have prompt attention.*

STOCKS OF THE ABOVE MANURES ALWAYS KEPT ON HAND.

COOK & CO., General Steam Printers, 7 Leveson-street, Hotham.

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AWARDED MEDAL AT THE INTERCOLONIAL EXHIBITION, 1866.

The GOLD MEDAL, LONDON EXHIBITION, 1862.

ALSO, THE "GOLD MEDAL," SYDNEY AGRICULTURAL EXHIBITION, 1870.



JAMES MACMEIKAN & CO.,

ANIMAL GUANO AND CONVERTING WORKS,

FOOTSCRAY, ON HOBSON'S RIVER, MELBOURNE, VICTORIA.

ESTABLISHED 1855.

MACMEIKAN & CO.'S ARTIFICIAL MANURES have stood the test here for some Sixteen Years, and received the GOLD MEDAL at the GREAT INTERNATIONAL EXHIBITION, LONDON, for 1862, a FIRST-CLASS CERTIFICATE awarded by the COMMISSIONERS OF THE VICTORIAN EXHIBITION, 1862, as well as a BRONZE MEDAL at the BATAVIAN EXHIBITION, 1865; **and another honor is added to their list of Prizes, given by the Commissioners of the Inter-colonial Exhibition of 1866, for their Manufactured Manures—the ONLY MEDAL awarded in this class. And at the Sydney Agricultural Exhibition, 1870, the GOLD MEDAL was awarded against a number of competitors,** which places their Manures second to none in the world.

Their BONE DUST now so favorably known,—not only in these Colonies, but extensively used in the Sugar and Coffee Plantations of Ceylon, Mauritius, Batavia, &c.; being prepared from Bones steamed in close vats, as recommended by Professors Johnston, Stockhardts, and the Agricultural Societies of Great Britain, is therefore ground much finer; and years of experience have proved that Bones so prepared are much more prompt and vigorous than Crude Bones; for this reason it is more valuable to the Planter, Farmer, and Gardener.

SUPERPHOSPHATE OF LIME.—**(better known as Dissolved Bones)** this invaluable Manure is one which MACMEIKAN & Co. have at considerable expense prepared, and they trust from its well-known merits, to receive large orders.

ANIMAL GUANO.—This is a highly Ammoniacal Manure, prepared with Sulphuric Acid and Steam at a high temperature under letters patent. The Ammonia being sufficiently fixed so that the plant can draw it off as it requires stimulating; highly recommended. COFFEE AND TOBACCO MANURE is the Animal Guano, with the required quantities of Potash and Sulphate of Magnesia added. The Analyses of these Manures are herewith annexed, and their chemical constitutions are as follows in 100 parts, viz.:—

Superphosphate of Lime:

Water, free and combined	2.47
Organic and Volatile matter	43.81
Soluble Phosphate	7.55
equal to Bone Earth	11.76
Phosphate of Lime & Magnesia, Bone Earth	25.71
	15.70
Sulphate of Lime	2.09
Sand and earthy matter	2.67
Soluble Salt	
Nitrogen	5.96
equal to Ammonia N.H. 3	7.50
or to Sulphate of Ammonia	29.08
	100.00

REMARKS.—Of this preparation I can speak in terms of commendation. The Bones are well softened, a good proportion (one third) reduced to a state in which they are soluble in water, while the rest is disintegrated and readily diffusible. It contains a large proportion of Gelatine, and consequently is capable of yielding abundance of Ammonia.

Animal Guano (patented):

Water, free and combined	7.81
Organic matter (nitrogenous)	40.69
Alkaline Salts	0.73
Silica, soluble and insoluble	3.77
	53.00
Phosphate of Lime (Bone Earth)	29.79
Do. soluble (Superphosphate)	3.10
equal to Bone Earth	4.09
Total Phosphates	33.88
Sulphate of Lime	13.30
Magnesia and Loss	0.81
Nitrogen	4.59
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(Signed) SYDNEY GIBBONS, F.C.S., &c., *Analyst.*

2nd August, 1871.

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BONE DUST	£6 10s. „	COFFEE AND TOBACCO MANURE	£7 10s. „

Bags included, or if in Air-tight Casks (suitable for Rum or Molasses), 22s. per Ton additional.

☞ *Orders by Post direct to the Office and Store, 32 King-street, Melbourne, will have prompt attention.*

STOCKS OF THE ABOVE MANURES ALWAYS KEPT ON HAND.

COOK & CO., General Steam Printers, 7 Leveson-street, Hotham.

32 King Street
Melbourne
September 5. 1872

1928

The Honble the Chief Secretary
Fort St George
Madras

Sir

Having seen a report from the Government Quinologist Ootacamund to you dated 7th March 1872 We have taken the liberty of forwarding to you a Cask of our Manures so that it may be tried in the growing of the trees of Cinchona Succirubra & Officinalis as we believe it will answer the purpose as well if not better than Peruvian Guano or Sulphate of Ammonia and at much less cost— We may say that our manures are fast taking the place of Peruvian Guano in the Mauritius market— Hoping that we may have a favorable report

We have the honor to be
Your most Obt Servants
James Mannee Rau & Co

Enclosed are a few of our Circulars
These Manures are deodorized

Received 15th Sept 1872
No 3535.

Copy

C.M.O. R.K. Kennedy Esq

Queen's Office
Received 2 Nov 1872.

Forwarding to the
Court of Examiners for
Trial in the Practice of
the Use of Cinchona
Cultivation
"Cinchona"

32 King Street
Islington
London N. 1872

The Hon'ble the Chief Secretary
Fort St George
Madras

Sir

Having been supplied from the Government Quinologist Establishment upon date 7th March 1872 We have taken the liberty of forwarding to you a Cask of our Manures so that it may be tried in the growing of the trees of Cinchona Succirubra & Officinalis as we believe it will answer the purpose as well if not better than Peruvian Guano or Sulphate of Ammonia and at much less cost. We may say that our manures are fast taking the place of Peruvian Guano in the Nilgiris Market. Hoping to have a favourable report

We have the honor to be
Your most Obt Servants
James Mansell Ram & Co

Enclosed an advice from Avonbury
Bell Manures are described

Revenue 1872 Dept.

No. 3335

From

Messrs. James Macmeikan & Co.

Melbourne

Dated 5 Septr. 1872
Recd. 15 Octr. "

Encl. 2 Secy. to Commr. of Nilgiris

Stating that they have forwarded a Cask of Manures for trial on the growing of trees of Cinchona & Enclosing 2 Copies of their Circular

With Order
No. 1428 – 16th Octr./72

No. 1428

Ordered that the manure be sent to the Commr. Nilgiris for trial on the Government plantations & report the result. [illegible]

16 Octr./72

No. 123–124

3 To the Commr. of the Nilgiris Dis: 23rd Octr./72
2 " Collr. of Sea Customs Madras – " –
1 – Govt. Quinologist – " –
14 – Board of Revenue – " –
1 Messrs. James Macmeikan & Co. 24th Octr./72

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