

Department of Agriculture, Bombay.

BULLETIN No. 59 OF 1914.

COMMON SALT AND ITS USE AS MANURE IN THE
KONKAN DIVISION.

BY

VENKANNA HOSABNAIK GONEHALLI, M.A. (CANTAB.), ETC.,

Extra Deputy Director of Agriculture, Konkan Division.



BOMBAY

PRINTED AT THE GOVERNMENT CENTRAL PRESS.

1914

[Price—3a. or 3d.]

**OFFICIAL AGENTS FOR THE SALE OF INDIAN OFFICIAL
PUBLICATIONS.**

In England.

Constable & Co., 10, Orange Street, Leicester Square, W C.,
London.
Grindlay & Co., 54, Parliament Street, S. W., London.
Henry S. King & Co., 65, Cornhill, E. C., London.
P. S. King & Son, 2 & 4, Great Smith Street, Westminster, S. W.,
London.
Kegan Paul, Trench, Trübner & Co., 68-74, Carter Lane, E. C.,
London.
B. Quaritch, 11, Grafton Street, New Bond Street, W., London
W. Thacker & Co., 2, Creed Lane, London, E. C.
Luzac & Co., 46, Great Russel Street, London, W. C.
B. H. Blackwell, 50 & 51, Broad Street, Oxford.
Deighton Bell & Co., Cambridge.
T. Fisher Unwin, 1, Adelphi Terrace, London, W. C.

On the Continent.

Friedlander & Sohn, 11, Carlstrasse, Berlin
Otto Harrassowitz, Leipzig.
Karl W. Hiersemann, Leipzig.
Ernest Leroux, 28, Rue Bonaparte, Paris.
Martinus Nijhoff, The Hague.

In India.

Higginbotham & Co., Madras.
V. Kalyanarama Iyer & Co., Madras.
P. R. Rama Iyar & Co., Madras.
Thacker, Spink & Co., Calcutta.
W. Newman & Co., Calcutta.
S. K. Lahiri & Co., Calcutta.
R. Cambray & Co., Calcutta.
Thacker & Co. (Ld.), Bombay.
A. J. Combridge & Co., Bombay.
Superintendent, Government Central Press, Bombay
D. B. Taraporevala, Sons & Co., Bombay.
Sunder Pandurang, Bookseller, etc., Bombay.
Gopal Narayen & Co., Booksellers, etc., Bombay.
N. M. Tripathi & Co., Booksellers, etc., Bombay.
Mrs. Radhabai Atmaram Sagoon, Bookseller, etc., Bombay.
Ramchandra Govind & Son, Booksellers, etc., Bombay.
Bombay Tract and Book Society, Bombay.
N. B. Mathur, N. K. H. Press, Allahabad.

Department of Agriculture, Bombay.

BULLETIN No. 59 OF 1914.



COMMON SALT AND ITS USE AS MANURE IN THE
KONKAN DIVISION.

BY

VENKANNA HOSABNAIK GONEHALLI, M.A. (CANTAB., ETC.),

Extra Deputy Director of Agriculture, Konkan Division.



BOMBAY

PRINTED AT THE GOVERNMENT CENTRAL PRESS

1914

APPENDIX I.

No. 866 OF 1911-12.

Office of the Agricultural Chemist
to the Government of Bombay:
Poona, the 15th of December 1911.

Report on the composition of a sample of manure (salt) sent by the
Divisional Inspector of Agriculture, Konkan, with his letter No. C-10,
dated April 11th, 1911.

				Salt per cent
Sodium Chloride	...	...	...	92.56
Insoluble matter	...	...	...	3.10
Moisture	...	...	...	2.10

(Signed) H. H. MANN,
Agricultural Chemist to the
Government of Bombay.

(True copy.)

V. H. GONEHALLI,
Extra Deputy Director of Agriculture,
Konkan Division.

APPENDIX II.

O. 901 OF 1911-12.

*Office of the Agricultural Chemist
to the Government of Bombay:*

Poona, 22nd December 1911.

Report on the composition of two samples of salt soils sent by the Divisional Inspector of Agriculture, Konkan, with his letter No. C/10, dated April 11th, 1911:—

	Salt-earth.	Salt-mud.
	Per cent.	Per cent.
Calcium Carbonate ...	0·01	0·01
Calcium Sulphate ...	1·03	0·16
Magnesium Sulphate ...	0·70	0·49
Magnesium Chloride ...	0·23	Nil.
Sodium Sulphate ...	Nil.	0·05
Sodium Carbonate ...	Nil.	0·01
Sodium Chloride ...	6·55	3·47
Total Salts ...	9·50	5·45
Nitrogen ...	0·06	0·04
Potash ...	0·54	0·41
Phosphoric Acid ...	0·11	0·22

(Signed) H. H. MANN,

Agricultural Chemist to the
Government of Bombay.

(True copy.)

V. H. GONEHALLI,

Extra Deputy Director of Agriculture,

Konkan Division.

APPENDIX III.

Agricultural Experiments.

Supply of denaturalised salt to the cultivators in the Konkan for manurial purposes.

No. 1190.

REVENUE DEPARTMENT.

Bombay Castle, 5th February 1914.

Letter from the Director of Agriculture, No. A.-2578, dated 9th April 1912.

Letter from the Director of Agriculture, No. A.-6813, dated 20th September 1912.

Letter from the Director of Agriculture, No. A.-1376, dated 15th February 1913.

Letter from the Director of Agriculture, No. A.-10456, dated 27th November 1913.

Government Memorandum to the Commissioner of Customs, Salt, Opium and A'bkári, No. 11166, dated 10th December 1913.

Memorandum from the Commissioner of Customs, Salt, Opium and A'bkári, No. S. Mis.-2, dated 15th January 1914.

RESOLUTION.—The proposal made by the Director of Agriculture as regards the printing of Mr. Gonehalli's report as a bulletin of the Agricultural Department is sanctioned.

2. The Collector of Salt Revenue, Bombay, should be requested to arrange for the issue of as much salt as may be wanted by the Agricultural Department to meet the requirements of cultivators during the next three years at the price suggested by the Commissioner of Customs, Salt, Opium and A'bkári.

3. The procedure suggested by Mr. Gonehalli in paragraph 55 of his report should be followed.

(Signed) C. W. A. TURNER,
Under Secretary to Government.

(True copy.)

V. H. GONEHALLI,
Extra Deputy Director of Agriculture,
Konkan Division, Ratnágiri.

LIST OF AGRICULTURAL BULLETINS PUBLISHED BY THE DEPARTMENT OF AGRICULTURE FROM 1908 TO 1913.

No.	Year.	<i>Subject.</i>
80	1908	Field, Garden and Orchard Crops of the Bombay Presidency, by G. Gammie, Economic Botanist, Bombay
81	1908	Establishment and Management of the Dairy Farm, by G. K. Kelkar, Assistant Professor of Agriculture
82	1908	Locusts in India, by H. M. Lefroy, Imperial Entomologist, Pusa
83	1909	Cultivation of Broach Cotton in Dhárwar, by M. L. Kulkarni, Divisional Inspector of Agriculture, S. D.
84	1909	Night-soil—A Valuable Manure, by G. K. Kelkar, Assistant Professor of Agriculture, Agricultural College, Poona
85	1909	Kalar in Sind, by G. S. Henderson, Deputy Director of Agriculture, Sind
86	1910	First Experiments in the Treatment of Grape-vine Mildew in the Bombay Presidency, by W. Burns, Economic Botanist
87	1910	An Examination of the Seed-supply of the Broach District, by G. D. Mehta
88	1910	Experiments with the Water-finder, by H. K. Mehta, Assistant Professor of Physics, etc., Poona Agricultural College
89	1910	The Salt Land of the Nira Valley, by Harold H. Mann, Principal, Agricultural College, Poona, and V. A. Tamhane, Laboratory Assistant, Agricultural College, Poona
40	1911	Cultivation of Guavas near Poona, Dhárwar and Limbgaon, by L. E. Kulkarni, L.Ag., Agricultural Department, Bombay
41	1911	Groundnuts in the Bombay Deccan, by G. K. Kelkar, Assistant Professor of Agriculture, Poona
42	1911	Note on Long-stapled Cotton in Sind, by G. S. Henderson, N.D.A., N.D.D., Deputy Director of Agriculture, Sind
43	1911	An Examination of the Seed-supply of the Broach District, Part II, by G. D. Mehta, L.Ag. (Bombay), B.A. (Cantab.), N.D.A., N.D.D.
44	1911	Preliminary Study of the Red Rot of Sugarcane in the Bombay Presidency by G. S. Kulkarni, L.Ag., Assistant Mycologist
45	1911	Second Year's Experiments in the Treatment of Grape-vine Mildew in the Bombay Presidency, by William Burns, B.Sc. (Edin.), Economic Botanist to the Government of Bombay
46	1911	Seed Selection Series, I, Broach Cotton, by T. Forster Main, B.Sc., Deputy Director of Agriculture, Bombay Presidency, Poona
47	1911	San Hemp (<i>Orotolaria Juncea</i>), Táq (Maráthi), by P. C. Patil, L.Ag., Divisional Inspector of Agriculture, C. D.
48	1911	Poona Furnace (in the Sátara District), by P. C. Patil, L.Ag., Divisional Inspector of Agriculture, C. D.
49	1911	An Examination of the Seed-supply of the Ahmednagar District, Part I, by G. D. Mehta, L.Ag. (Bombay), B.A. (Camb.)
50	1912	An Examination of the Seed-supply of the Ahmednagar District, Part II, by G. D. Mehta, L.Ag. (Bombay), B.A. (Camb.)
51	1912	Third Year's Experiments in the Treatment of Grape-vine Mildew in the Bombay Presidency, by W. Burns, B.Sc. (Edin.), Economic Botanist to the Government of Bombay, and G. B. Patwardhan, B.Sc. (Bombay), Assistant Economic Botanist
52	1912	Muscovado Sugar Machinery and its scope for <i>Gul</i> manufacture in India by G. N. Sahasrabudhe, L.Ag.
53	1912	A Method of Improving the Quality of Cotton Seed, by G. D. Mehta, B.A. L.Ag., N.D.A., N.D.D., and V. G. Gokhale, L.Ag.
54	1912	A Note on Steam Ploughing, by A. A. Musto, P. W. D., Agricultural Engineer, Bombay Presidency
55	1913	An Examination of the Seed-supply of the Poona District, Parts I and II, from the Seed Testing Department, Agricultural College, Poona
56	1913	Present State of the Dairying Industry in Bombay, by J. B. Knight, M.Sc., Professor of Agriculture, and E. W. Horn, Manager, Government Civil Dairy
57	1913	Improvement of the Indigenous Plough of Western India, by S. S. Godbole, L.O.E., Assistant Professor of Physics, Agricultural College, Poona
58	1913	Prickly-Pear Experiments by E. W. Horn, Manager, Government Civil Dairy
59	1914	Common salt and its use as Manure in the Konkan Division, by Venkann Hosabnaik Ganehalli, M.A. (Cantab.), etc., Extra Deputy Director of Agriculture, Konkan Division