(1) Number of pages 48

(2) Date of repair 19.10.87

(3) Initials of the Referencer bms

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

P.W DEPARTMENT

G.O. No. / B.P. No:	1380 1381 1382 } W	Press. / Mis.
Dated	13.6.1885	~~198~~ .

1887

Not to be folded or roughly handled

Archives 1--10,006 1 -80.

1382-86
1

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Civil Works.
Irrigation.

READ—the following papers :—

From W. H. HALL, Esq., State Engineer, California, to Colonel J. H. M. SHAW-STEWART, R.E., Secretary to Government, Public Works Department, Madras, dated Sacramento, 2nd April 1885.

There is sent you by mail this day a half dozen copies of the advance sheets of my report on the Problems of Irrigation, together with as many copies of my last progress report to the legislature, which has now just adjourned.

2. In compliance with recommendations, provision has been made for the completion and publication of the work, and I am actively taking steps to that end.

3. The notice (pages 3 and 4), outline of matter (pages 5 to 31), and extract from introductory letter (page 32), will give you a general idea of the scope, arrangement, contents, and purpose of the work; while the advance sheets (pages 35 to 304) will afford you an opportunity to judge of the treatment which the subject is receiving.

4. I call your attention to the fact that chapters VII to X of part II (see page 17) relate to the subject as presented in your country.

5. It is the object of the present letter to ask that you will have sent to me certain information as follows :—

(1) The data from which I may write for India an article concerning the Governmental organisation, &c., and line of administration of water-courses, analogous to that written for France at pages 55 to 64 inclusive, and that for Italy at pages 193, &c., of the volume sent.

(2) Copies of such laws and reports of your country, with respect to water-courses, water-conservancy, water-rights, and irrigation, as you may have at command for distribution.

(3) Copies of such notable decisions of your courts, with respect to water-courses, water-rights and irrigation, as may be available to you for distribution.

(4) Any other printed data relating to your country, its condition as respects topography, soils, climate, rivers, water-supply, &c., that may throw light upon the physical problems of irrigation there presented, which you may have at command.

(5) Any other printed data with respect to the political institutions of your country, and the social condition of your people, which may throw light on the economic, political, and social problems of irrigation, which you may have at command.

(6) In the absence of printed information such as I seek being at your disposal, will you kindly cite to me the authorities in which I may find such information, and, if possible, state where and how I may obtain the works.

(7) In the absence of the data in printed form, will you kindly commission some one of your staff of assistants to make memoranda for me such as asked for in paragraph (1), (2) and (3) above.

(8) Particularly, please inform me whether or not your country has adopted the common law of England as the rule of decisions of its courts, and more particularly as to the ownership of natural water-courses. What class of rivers belong to the public, and what class to the bank owners? What is the legal test of navigability of a stream? How may water-rights for irrigation be acquired by private individuals or corporations, if at all?

6. The volumes sent you are for distribution to such of your engineers and officers as will be interested in their contents. Publications relating to engineering subjects, and especially to irrigation, which may be available for distribution will be welcome in return. Any engineer officer familiar with irrigation in your country on looking over the outline of my publication will readily know what information is specially desired in addition to that hereinbefore enumerated. I should much like to correspond with persons specially well informed on this subject, and I will esteem it a favor if you will name those in charge of great works and districts together with their respective addresses.

7. It will be several years before the report is all published, but I shall not neglect to make due acknowledgment of favors of the nature now asked of you, nor shall I forget to reciprocate so far as lies in my power.

8. By compliance with the requests above at an early date, you will personally oblige me, and render a service to the State of California.

From Major G. F. L. MARSHALL, R.E., Under Secretary to the Government of India, Public Works Department (Civil Works—Irrigation), to the Secretary to the Government of Madras, Public Works Department, dated Simla, 21st May 1885, No. 99 I.

With reference to the letter from the State Engineer, California, to the address of Colonel J. Shaw-Stewart, R.E., regarding irrigation in India, which has been sent to you under a separate cover from this office, I am directed to request that early attention may be given to the matter, and that the Government of India may be furnished with a copy of the reply which may be given to that gentleman, and of the list of the volumes, papers, &c., that may be sent to him.

2. The advance sheets of the State Engineer's Report on Problems of Irrigation will be sent to you when received.

From the same officer, dated Simla, 30th May 1885, No. 115 I.

In continuation of Public Works Department letter, No. 99 I., dated 21st May 1885, I am directed to forward a copy of each of the following reports received from the State Engineer, California, on the subject of irrigation:—

(1) Outline Matter and Advance Sheets of the Report on the Problems of Irrigation.
(2) Report of the State Engineer for the Years 1883 and 1884.

ORDER—dated 13th June 1885, No. 1380 W., Public Works.

Ordered that the documents specified in the annexed list be forwarded to the State Engineer, California, with the accompanying letter.

1380-82

2. The four copies of "Advance Sheets of the Report on the Legislative, Administrative, Technical, and Practical Problems of Irrigation," received from the State Engineer, will be distributed as follows:—

Chief Engineer for Irrigation...	1
Engineer Library, Madras	1
For circulation to Superintending Engineers and Executive Engineers selected by Superintending Engineers	2

3. A copy of these proceedings, and of the letter to the State Engineer, will be forwarded to the Government of India.

(Here enter No. 1381 W., dated 13th June 1885.)

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To Superintending Engineers.
„ the Chief Engineer for Irrigation.

ENDORSEMENT—dated 13th June 1885, No. 1381 W., Public Works.

Forwarded.

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

Exd. E. Fernandez.
Spare Copies

CIVIL WORKS.
IRRIGATION.

Govt. of {1885} Madras.

PUBLIC WORKS.

Dated June, 13th.

Recd. *Encl.*

G.O., 13th June 1885, No. 1381 W.

JUNE.

Irrigation

Forwarding copy of proceedings on application from the State Engineer, California, for information relating to — in the Madras presidency.

1382.82/3

List of papers to accompany letter to the State Engineer, California, No. 1382 W., dated 13th June 1885.

Irrigation Series No. I, Red Hills Tank.
Do. No. IV, Srivaikuntham Anicut Project.
Report on the Direct and Indirect Effects of the Godávari, Kistna, and Coleroon Anicuts.
Book of Narratives of the Godávari, Kistna, Pennér, and Cauvery Productive Public Works Systems.
Narratives of the Kurnool Canal, Madras Water Supply and Irrigation Extension Project, and Srivaikuntham Anicut System, contained in the following proceedings of the Madras Government:—
No. 455 I. of 10th June 1882.
„ 603 I. of 2nd August 1882.
„ 746 I. of 10th September 1883.
Proceedings of Government, No. 260 I., of 21st March 1882, forwarding the completion estimates of the Godávari Delta System.
Statement of Financial Results of Irrigation Works, contained in proceedings of Government, No. 941, of 24th November 1882.
Standing Order No. 24, giving quantity of water required for the irrigation of an acre of land under varying circumstances.
Professional Circular No. 7, giving water-supply for irrigation of crops.
Do. do. No. 30, giving results of experiments regarding quantity of water required for irrigation of crops.
Standing Orders Nos. 39 and 39-A, relating to the preparation of river diagrams.
Professional Circulars Nos. 22 and 31, on the subject of drainage from catchment basins.
Do. Circular No. 23, on tank surplus arrangements.
Do. do. No. 45, regulation of tank sluices.
Do. do. No. 45-A, discharge of tank sluices.
Do. do. No. 43-A, giving dimensions and cost of storage works in Bombay.
Do. do. No. 47, giving the most recent formulæ for the velocity and discharge of channels.
Proceedings of Government, No. 203, dated 23rd January 1885, Public. } General Report on Irrigation and Public Works in the Madras Presidency.
Proceedings of Government, No. 210, dated 26th January 1885, Public. }
The Madras River Conservancy Act No. VI of 1884.
Do. do. Amendment Act No. II of 1885.
Papers relating to a private tank affecting a railway, viz.:—
Proceedings of Government, No. 379 R., dated 15th June 1882.
Do. do. No. 379-A R., „ 15th „ „
Do. do. No. 556 R., „ 7th Sept. „
Do. do. No. 1006 R., „ 19th „ 1883.
Do. do. No. 3418 W., „ 30th Nov. „
Do. do. No. 3419 W., „ 30th „ „
Administration Report of the Irrigation Branch for 1883-84.
Molesworth's Note on High Masonry Dams.
Appendix V to the Report of the Indian Famine Commission on "Irrigation as a Protection against Famine."
Report on Forest Administration in the Madras Presidency, by Dr. Brandis.
Extracts from Marsh's "Man and Nature," together with Notes on Forests and Rainfall in Madras.
Irrigation Map of the Madras Presidency.

Checked
JJ
26.6.85.

1380-82
4

PUBLIC WORKS DEPARTMENT.

Civil Works.
Irrigation.

LETTER—from

COLONEL J. SHAW-STEWART, R.E.,

Secretary to the Government of Madras,

Public Works Department,

To

THE STATE ENGINEER,

California.

SIR,

I am directed to acknowledge the receipt of your letter, dated 2nd April 1885, forwarding advance sheets of your Report on Problems of Irrigation and asking for certain information on the subject of irrigation in the Madras presidency.

2. In reply, I am directed by the Right Honorable the Governor in Council to acknowledge, with thanks, the receipt of the enclosures to your letter, and to forward the documents specified in the accompanying list, with the hope that the information afforded will prove of value.

3. The articles embodied in the proceedings of this Government, No. 203, dated 23rd, and 210, dated 26th January 1885, give a tolerably complete view of the Government organisation and line of administration of irrigation works in the Madras presidency.

4. The "Madras Rivers Conservancy Act" (Act VI of 1884 and Amendment Act No. II of 1885), which is herewith sent, is the only legislative enactment affecting irrigation which has yet passed the Madras Legislative Council. Another important measure, known as the "Irrigation and Navigation Bill," is now under consideration. It is based on similar Acts already in force in other parts of India, and its object is to make provision for the construction, maintenance, and regulation of canals; for the supply of water therefrom; and for the levy of rates for the water so supplied.

5. With respect to notable decisions of courts, I am to state that there are none to communicate, with the exception of the case of a private tank affecting a line of railway, the papers containing the history of which are among the documents now sent.

6. If the documents herewith forwarded do not afford all the information required, I am to suggest your communicating direct with Colonel J. O. Hasted, R.E., Chief Engineer for Irrigation in this presidency, who will be happy to answer any further questions which you may desire to put.

I have the honor to be,
Sir,
Your most obedient servant,

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

OOTACAMUND,
13th June 1885.

Exd. E. Fernandez.
Spare Copies

CIVIL WORKS.
IRRIGATION.

Govt. of [1885] Madras.

PUBLIC WORKS.

Dated June, 13th.

Read. *Encl.*

13th June 1885, No. 1382 W.

JUNE.

Irrigation

Affording information relating to — in the Madras presidency.

1382-82/5

Report
Letter to D. today

C.R.W.

Are we to file as letter for R.M. Report to list of papers & put upto you to date.

7/6

5/6/85

1382-82/11

Note.

... the plans I have been able ... the book accompanying ... letter, I believe that nearly ... information that is required ... in the circumstances of ... in the Madras Presidency, ... obtained from the papers ... were collected for the ... of the Govt of Victoria. ... not on Irrigation Bunds ... was supplied to Dr. Heaton ... also be sent, to give a ... idea of the type of ... Bunds of the Department. ... of the River Embankments ... might be supplied. But the ... on Irrigation Bills has not ... been read, and as I believe ... must inevitably before it ... by the Legislative Council. ... not therefore I think be ... wanted, but it may be stated

Urgent

1352/82
6

S.A.W.

About November
1882, we sent to
Wm Munro,
Engr in Charge of
Construction Canada,
a Copy of Papers
re Irrigation
Enquiry.

Other Papers are
now required re

Note.

1352/82
11

Wm.

From the plans I have been able
to see to look accompanying
letter, I believe that nearly
the information that is required
explaining the circumstances of
matters in the Madras Presidency,
may be obtained from the Papers
which were collected for the
information of H. Govt. of Victoria.

The Note on Irrigation Branch
which was supplied to Dr. Maclean
can also be sent, & give a
printed copy of the Report of the Irrigation Branch of the Department.
Copy of the Rivers Undertakings
& Projects to be supplied. As to the
Irrigation & Navigation Bills they have not
become Law, and as I believe
Amendments Amendments before it
passed by the Legislative Council.
cannot therefore I think be
considered, but it may be stated

Possibly -

but it is wanted most particularly, of course, as the list of documents sent to Mr Merivale

Cn

2/6/65

Note

A regional list of papers sent to Govt in Australia was sent to Mr yesterday - the file relating to those sent to Mr Merivale of Ontario Canada, and another file regarding papers sent to Mr Waters for communication to the U.S. of America are now perhaps those it is thought will serve as a guide in meeting the requisitions from California - J.O.

5/6/65

R.M.

1388/82
1

C.R.W. says in his note that "a lot of papers" were sent to Mr Merivale - and asks for a list thereof.

The correspondence printed perhaps only to Mr. Waters' notes inserted for where no other papers sent at any other time?

C.R.W's note is marked "urgent"

H.B.

Who called for the list referred to?

Note

1388/82
11

C.W.

From the plans I have been able to make up the book accompanying this letter, I believe that nearly all the information that is required to explain the circumstances of Inscription in the Madras Presidency, may be obtained from the Papers which were collected for the information of the Govt of Victoria.

The Act on Inscription Brand which was supplied to Dr Mackenzie might also be sent, & for a complete view of the system of this Branch of the Department.

Copy of the Rules authorising Bills might be supplied. In both Inscription & Inscription Bills has not yet become law, and while I believe the alterations considerably before it is passed by the Legislative Council. It cannot therefore strictly be communicated, but it may be stated

15/6/65

first portion of
your note. I did
notice any
Requisition.
Asst Sec.

Mr Pearson Re-
-ferred to me the
files pertaining and
all that have
been sent
Co. Cl. 7/8.

As Mad and
for the last Post
yesterday & Mr
Requisition came
Rec'd from

I Reflect the Requisition
came in last Saturday
which was a holiday.
at any rate I B.
I do not
remember receiving it.

Tour

13/8/82
5

I have now obtained
from Madras, a copy
of the list of papers
collected by Mr Russell
in September, for the
Royal Commission Sydney.

For orders whether
items 10 to 18 in the
list shall be added
to the list already pre-
pared of documents
proposed to be sent
to the State Engineer
California.

If so, the books
&c will have to be got
together by the Madras
Office.

In the meanwhile
the list & draft Proc.
might, may provide, be
handed for issue.

If would be well
perhaps if were D&J

Lote

13/8/82
11

Lr W.

From the plans I have seen also
those in the book accompanying
this letter, I believe that nearly
all the information that is required
to explain the circumstances of
irrigation in the Madras Presidency
may be obtained from the Papers
which were collected for the
information of the Govt of Victoria.

The Act on Irrigation Bonds
which was supplied to Dr Macleod
might also be sent, & for a
complete view of the working
of this Branch of the Department.

Copy of the Rivers Embanking
Bill might be supplied. Both the
Irrigation & Navigation Bills have not
yet become law, and as I believe
be altered considerably before it
is passed by the Legislative Council.
It cannot therefore I think be
communicated, but it may be stated

12/8/82

at Madras to return the documents before they are packed up for Switzerland.

CA

6/6/85

4715 + 5079

5276

To I

1380/82
7

The four copies of "Advance sheets of the Report on Problems of Irrigation" received from State Engineer California, are understood to be sent to you -

Draft orders have been passed, relative to the distribution of these copies, & if you will kindly send them to the Office, they will be disposed of accordingly.

CA

C.A.W.

11-6-85

Secretary

CA

6/6/85

Lahore

1380/82
11

L to W.

From the plans I have been able to state as to book accompanying this letter, I believe that nearly all the information that is required to explain the circumstances of irrigation in the Madras Presidency may be obtained from the Reports which were collected for the information of H.R.H. of Victoria.

The work on Irrigation Branch which was supplied to Dr. Hunter might also be sent, & for a complete view of the working of this Branch of the Department

Copy of the Rivers Embankment Bill might be supplied to Hunter. The Irrigation & Navigation Bills has not yet become law, and as I believe to attend considerably before it is passed by the Legislative Council. it cannot therefore I think be communicated, but it may be stated

To S.A.W.

For distribution as ordered in the P. W. D.

12/6/85

D.S. 13/6/85.

G.O.S. 1380 1381 } W 13-6-85 1382

S.A.W. 1380 82/10

Please have typed copy of letter to Engr Calicut enumerated on Saturday & despatch by two out going mail.

It will have to be sent separately in cover addressed direct to Calicut & proper postage will be paid

To morrow I shall send you instructions about collecting the documents & about their despatch.

I shall also send you

Note 1380 82/11

S.W.

From the plans I have been able to make up the book accompanying this letter, I believe that nearly all the information that is required to explain the circumstances of irrigation in the Madras Presidency, may be obtained from the papers which were collected for the information of the Govt. of Victoria.

The book on Irrigation Brunel which was supplied to Dr. Hacker might also be sent, & for a complete view of the system of this Branch of the Department.

Copy of the Orissa Embanking Bill might be supplied to Hacker. Irrigation & Navigation Bills have not yet become law, and will I believe be altered considerably before it is passed by the Legislative Council. It cannot therefore I think be communicated, but it may be stated

Note.

1388 82
11

L W.

From the Plans I have been able to state as to the Note accompanying this letter, I believe that nearly all the information that is required to explain the circumstances of Inscription in the Madras Presidency may be obtained from the Papers which were collected for the information of H.M. of Victoria.

The Note on Inscription Bronze which was supplied to Dr. Haeberlin might also be sent, to give a complete view of the system of this Branch of the Department.

Copy of the Roman Urdu Song Book might be supplied to Inscription & Inscription Bible has not yet been sent, and will I believe be altered considerably before it is passed by the Legislative Council. It cannot therefore I think be communicated, but it may be stated

to DG&I, asking him to assist in the matter.

All the Inscription papers connected with the file will be sent down tomorrow.

11.6.85

Wm. Hall Hall
State Engineer.

STATE OF CALIFORNIA
OFFICE OF THE
State Engineer.

Duncan Beaumont
Secretary

1880?
17

Sacramento, April 2d, 1885

Col: J. H. M. Shaw Stewart.
Secretary for Public Works.
Madras.

Sir:

I have sent you by Mail this day a half-dozen copies of the Advance Sheets of my report on the Problems of Irrigation, together with as many copies of my last progress report to the Legislature which has now just adjourned.

In compliance with recommendations, provision has been made for the completion and publication of the work, and I am actively taking steps to that end.

The Notice (pp. 3 and 4), Outline of matter (pp. 5 to 31), and Extract from Introductory letter (p. 32), will give you a general idea of the scope, arrangement, contents, and purposes of the work; while the Advance Sheets (pp. 35 to 304), will afford you an opportunity to judge of the treatment which the subject

papers &c. that may be sent to him.

2. The Advance sheets of the State Engineer's Report on Problems of

that can't been read on there in
from in Bombay on N. W. Provinces
is now under consideration.

Pending decision of Govt, I think
we can have to communicate. Except
the notable case of the Zemindari
Tank Working - Railway.

I the papers think I Copies
Lithography do not fix the information
required. I shall in Lithography send
any questions the State Engineer
may wish to put, and I think he
might be requested to communicate
with the Chief Engineer for Irrigation
if he requires further information

As regards distribution of the
volumes when received. I would
suggest 1 Copy to Chief
Engineer for Irrigation 2 Copies for
circulation to P.Ws + Collectors
P.Ws and 1 Copy to the Engineers
Library.

JH

is receiving.

I call your attention to the fact that Chapters VIII to X of Part II (see page 17) relate to the subject as presented in your country.

It is the object of the present letter to ask that you will have sent to me certain information as follows:-

(1).- The data from which I may write for India, an article concerning the Governmental organization, etc, and line of administration of water courses, analogous to that written for France at pp. 55 to 64 inclusive, and that for Italy at pp. 193, etc, of the volume sent.

(2).- Copies of such laws and reports of your country with respect to Watercourses, waters conservancy, water rights, and irrigation as you may have at command for distribution.

(3).- Copies of such notable decisions of your courts, with respect to water courses, water rights and irrigation, as may be available to you for distribution.

(4).- Any other printed data relating to your country, its condition as respects topography, soils, climate, rivers, water supply,

Library.

Loh
245785

papers &c that may be sent to him.

2. The Advance sheets of the State Engineer's Report on Problems of

Wm Dam Hall,
State Engineer.

STATE OF CALIFORNIA.

Duncan Fammont
Secretary

OFFICE OF THE

State Engineer.

Sacramento,

Library.

Dh
1/17/05

1385 Dr
Ks 14
Ms 3

et, that may throw light upon the physical problems of irrigation there presented, which you may have at command.

(5).— Any other printed data with respect to the political institutions of your country, and the social condition of your people, which may throw light on the economic, political and social problems of irrigation, which you may have at command.

(6).— In the absence of printed information, such as I seek, being at your disposal, will you kindly cite to me the authorities in which I may find such information, and if possible state where and how I may obtain the works.

(7).— In the absence of the data in printed form will you kindly commission some one of your staff of assistants to make memoranda for me, such as asked for in paragraph (1) (2) & (3) above.

(8).— Particularly, please inform me whether or not your country has adopted the Common Law of England as the rule of decisions of its courts, and more particularly as to the ownership of natural water courses. What

papers &c. that may be sent to him.

2. The Advance sheets of the State Engineer's Report on Problems of

Wm. Blum Hall, Duncan Beaumont

STATE OF CALIFORNIA

State Engineer.

Library.

Loh
145785

class of rivers belong to the public and what class to the landowners? What is the legal test of navigability of a stream? How may water-rights for irrigation be acquired by private individuals or corporations, if at all?

The volumes sent you are for distribution to such of your engineers and officers as will be interested in their contents. Publications relating to engineering subjects and especially to irrigation, which may be available for distribution will be welcome in return. Any Engineer officer familiar with irrigation in your country, on looking over the outline of my publication will readily know what information is specially desired in addition to that herein before enumerated. I should much like to correspond with persons specially well informed on this subject, and I will esteem it a favor if you will name those in charge of great works and districts together with their respective addresses.

It will be several years before the report is all published, but I

papers &c. that may be sent to him.

2. The Advance sheets of the State Engineer's Report on Problems of

STATE OF CALIFORNIA

State Engineer.

Sacramento

Library.

Lth
24/785

ISSUED BY
T.H.

shall not neglect to make due acknowledgement of favors of the nature now asked of you, nor shall I forget to reciprocate, so far as lies in my power.

By compliance with the request above at an early date, you will personally oblige me, and render a service to the State of California.

I am, Sir, Respectfully
Your Obedient Servant
Wm. Hamm Hall.
State Engineer

papers &c that may be sent to him.
2. The Advance sheets of the
State Engineer's Report as published

Wm Shaw Stuart

STATE OF CALIFORNIA

Duncan Beaumont

OFFICE OF THE

Secretary

State Engineer.

Sacramento,

Only four copies sent
by Express Vide Note
Way Co dt. 11-6-85.

OLS 153/5.

Library.

Lth
24/7/85

No. 99 I.

1568/32
1887

fr 6

All communications should be addressed to the Secretary.

GOVERNMENT OF INDIA.

PUBLIC WORKS DEPARTMENT.

CIVIL WORKS.
Irrigation.

To The Secy: to the Govt of Madras.
P.W. Deptt

Simla, 21st May 1885.

Sir,

With reference to the letter from the State Engineer, California, to the address of Colonel J. Shaw Stewart, R.E., regarding irrigation in India, which has been sent to You under a separate cover from this Office, I am directed to request that early attention may be given to the matter and that the Govt of India may be furnished with a copy of the reply which may be given to that gentleman and of the list of the Volumes, papers &c that may be sent to him.

2. The Advance sheets of the State Engineer's Report on

of Irrigation will be sent to you when received.

I have the honor to be,
Sir,
Your most Obedt. Servt.
G.F.L. Marshall Major R.E.
Under Secy. to the Govt. of India.

No. 115 I.

All communications should be addressed to the Secretary.

GOVERNMENT OF INDIA.

PUBLIC WORKS DEPARTMENT.

CIVIL WORKS.
Irrigation.

To The Secy. to the Govt. of Madras.
P.W. Deptt.

Simla 30th May 1885.

Sir,

In continuation of P.W. Deptt. Letter No. 99 I., dated 21st May 1885, I am directed to forward a copy of each of the following Reports received from the State Engineer, California, on the subject of irrigation.

(1) Outline matter and advance sheets of the Report on the Problems of Irrigation.
(2) Report of the State Engineer for the years 1883 and 1884.

I have the honor to be,
Sir,
Your most Obedt. Servt.
G.F.L. Marshall Major, R.E.
Under Secy. to the Govt. of India

Documents accompanying Reports referred to.

Civil Works
Irrigation

PUBLIC WORKS DEPARTMENT.

No. 1380 W

1880-82/79

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 15th June 1883

READ the following

Letter from the State Engineer, California (No. of April 2nd 1883)

do from the Govt of India ..... (" of May 21st 1883 No. 991)

do do do ..... (" of May 30th No. 115-31)

Ordered that the documents specified in the annexed list be forwarded to the State Engineer, California, with the accompanying letter

2. The four copies of "advance sheets of the Report on the "Legislative, Administrative, Technical "and Practical Problems of "Irrigation," received from the State Engineer, will be distributed as follows:—

"Chief Engineer for Irrigation	1
Engineer Library, Madras	1
For circulation to Supdg Engineers and Executive Engineers selected by Supdg Engineers	2

3. A copy of these Proceedings and of the ~~List of Enclosures~~ * and letter to the State Engineer, will be forwarded to the Govt. of India.

(H.E. No. 1381 Wdf 13th June/85)

Forwarded.

(H.E. No. 1382 Wdf 13th June 1885)

To

The State Engineer,
California.

Sir,

I am directed to acknowledge the receipt of your letter dated 2nd April 1885, forwarding advance sheets of your Report on Problems of Irrigation and asking for certain information on the subject of Irrigation in the Madras Presidency.

2. In reply I am directed by the Right Honorable the Governor in Council to acknowledge with thanks the receipt of the enclosures to your letter, and to forward the document specified in the accompanying list,

* List will appear in papers as marked

Chief Engineer for Irrigation & Superintending Engineers

20/5/85

with the and to express a hope that the information afforded will prove of value.

3. The articles embodied in the Proc: of the Govt. No. 203 of 25th and 210 of 26th January 1885 will tolerably give a complete view of the Government organisation and line of administration of irrigation works in the Madras Presidency.

4. The "Madras Rivers Conservancy Act" (Act VI of 1858 and Amendment Act No. II of 1865) which is herewith sent, is the only legislative enactment affecting Irrigation, which has passed the Madras Legislature since ~~the present time~~ Another important measure is known as the "Irrigation and Navigation Bill," is now under

consideration. It is based on similar acts already in force in other parts of India; the Bombay Presidency and the N.W. Western Provinces and Oudh, and its object is to make provision for the construction, maintenance, and regulation of canals, for the supply of water therefrom, and for the levy of rates for the water so supplied. It will empower Canal officers to duly inspect and regulate the water supply, to remove obstructions, to execute repairs where the owner of a water-course fails to execute the repairs required of him by the Bill, and to charge the cost of such repairs to the owners, to settle disputes as to rights

and liabilities of persons interested in a water-course, and to take into custody persons causing wilful damage to canals, or interfering without proper authority with the supply or flow of water. It will probably be some time before this Bill can become law.

5. With respect to notable decisions of Courts, I am to state that there are none to communicate, with the exception of the case of a private tank affecting a line of railway, the papers containing the history of which are among the documents sent.

6. If the documents hereinth forwarded do not afford all the information required

upon communicating direct
with Colonel J. O. Hasted,
Royal Engineers, Chief Engineer
for Irrigation in this Presidency,
who will be happy to answer
any further questions which
you may desire to put.

August

W.S.
G.b.85

Lu
9/6/85.

Dead
13/6/85.

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Agl. 15/3/5.

List of papers to accompany letter to the
State Engineer, California, No. 1382 W d/13th
June/85.

Irrigation Series No. I, Red Hills Tank.
do do " IV. Sprinkumtham Ancient Project
Report on the Direct and Indirect effects of the
Godavari, Kistna and Cauvery Productive P.W. systems.
Narratives of the Kurnool Cud, Madras Water
Supply and Irrigation Extension project, and
Sprinkumtham Ancient System, contained in
the following Ppg. Pro: of the Madras Govt.
No. 455 I of 10th June 1882.
" 603 I of 2d August
" 746 I of 10th September 1883.
Pro: of Govt.
Ppg. No. 260 I of 21st March 1882, forwarding the
completion estimates of the Godavari Delta
System.
Statement of Financial Results of Irrigation
Pro: of Govt.
Works, contained in Ppg. No. 941 of 24th Nov. 1882
Standing Order No. 24, giving quantity of water
required for the irrigation of an acre of land under
varying circumstances

Professional Circular No 7, giving water supply for irrigation of crops.

do do No 30, giving results of experiments regarding quantity of water required for irrigation of crops.

Standing Orders Nos 39 & 39 A, relating to the preparation of river diagrams.

Professional Circulars Nos 22 & 31, on the subject of drainage from catchment basins.

Do Do No 23, on tank surplus arrangements

Do Do No 45, regulation of tank sluices

Do Do No 45 A, discharge of tank sluices

Do Do No 43 A, giving dimensions and cost of storage works in Bombay.

Do Do No 47, giving the most recent formulæ for the velocity and discharge of channels.

Pro: Govt.
G.D.
" No 203 dt 23d January 1885. (Public)
" " 210 dt 26th January 1885 (Public)

General Report on Irrigation & Public Works in the Madras Presidency

The Madras Rivers Conservancy Act No VI of 1884

Do ——— Amendment Act No II of 1885

Papers relating to a private tank affecting a Railway, viz:

Pro: Govt.
No 379 Rd/15th June 1882.
" 379 Rd/ —— do ——
" 556 Rd/7th Sept 1882.
" 1006 Rd/19th Sept 1883
" 3418 W d/30th Nov 1883
" 3419 W d/ —— do ——

Is it necessary to refer to these?

1380-82/83

Administration report of the Irrigation Branch for 1883/84

Molesworth's note on high masonry dams.

Appendix V to the Report of the Indian Famine Commission on Irrigation as a Protection against Famine.

Report on Forest Administration in the Madras Presidency by Dr. Brandis.

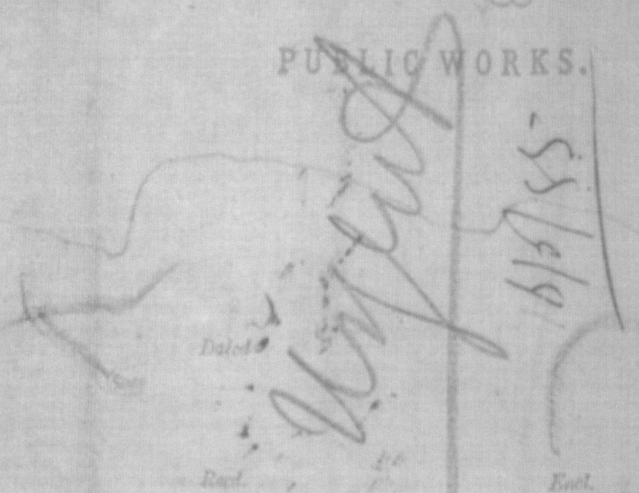
Extracts from Marsh's 'Man & Nature', together with notes on forests & rainfall in Madras.

Irrigation map of the Madras Presidency.

207

Govt. of 1885 Madras.

PUBLIC WORKS.



G.O. No. 13 June 1885, No. 1300

1301

302

Irrigation

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Orders on letter from the State Engr., California, licensed copies of "address Statement of the Report on Problems of Engineering" & requesting the info. desired with information relative to the Irrigation Works in the Madras Presidency

To State Engr.

Irrigation

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Asking for information relative to the Irrigation Works in the Madras Presidency

To Govt. India

Irrigation

150/1 15/1 48/1

Transmitting Copies of Govt. Order & letter from the State Engr. California requesting information relative to