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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

PW

DEPARTMENT

G.O. No.	20 76 (W)	Press.
B.P. No.		Mis.
Dated	2 9 1880	197

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Not to be folded or roughly handled

2076

GOVERNMENT OF MADRAS.
PUBLIC WORKS DEPARTMENT.

2nd September 1880, No. 2,076 W.

Buildings and Roads.
Civil Works.

Read the following paper:—

No. 12. From Captain W. P. TOMKINS, R.E., Assistant Secretary to the Government of India, Public Works Department (Civil Works—Miscellaneous), to the Secretary to the Government of Madras, Public Works Department, dated Simla, 24th August 1880, No. 203 M.

REFERRING to the reports of the several water-works schemes in Madras, forwarded with your letter, No. 2,849 W., of the 11th November 1879, I am directed to communicate the following remarks and observations, and to request to be furnished with information bearing on the points alluded to:—

- I. The report on the Madras scheme is rather a description of improvements to be made than an account of the existing condition of the project; it should be stated if the project has been carried out, and, if so, whether exactly in accordance with the design, and with what results.
 - II. The area of catchment supplying the Red Hills tank should also be stated, as well as the rainfall, &c.
2. Regarding the Presidency or Seven Wells scheme, the following details are required:—
- I. Difference between mean sea level and surface of the water in the wells, when not being drawn on.
 - II. Depth to which water surface is lowered, when the supply is being drawn off, and quantity drawn daily or hourly from each well.
 - III. Number of people supplied, so as to arrive at the average supply per head per diem.
 - IV. Height of lift from wells.
3. In connection with the Ootacamund project, the following additional details should be furnished, if obtainable:—
- I. Discharge from existing reservoirs.
 - II. Population supplied by existing reservoirs, and the quantity per head per diem.
 - III. Loss by evaporation in reservoirs.
 - IV. Proportion of rainfall running into reservoirs during each month.
 - V. Small map showing the reservoirs, channels, &c.
4. Lastly, the information required in connection with the Wellington scheme is as follows:—
- I. Quantity of water delivered from each source of supply.
 - II. Number of persons using the water in each case, and the quantity used per head per diem.
 - III. Measurements of discharge (if any) as compared with the calculated discharges of the piping.
 - IV. If possible, the actual consumption per head per diem of the two district services, drinking and ablutionary, might also be stated with advantage.

5. In all cases where reports of the rainfall stored are recorded, the fullest information on the following points is desirable, and should be furnished :—

- I. Percentage of rainfall in inches, stored after certain recorded rainfalls, on periodical dates, *e.g.*, 15th August a rainfall of, say, 6.38 inches in 24 hours. Increase of water in reservoir 2.7 feet, made up by 6.38 inches on reservoir, and .85 inches gathered on catchment, and passed to the reservoir, and then measured as 26.02 inches.
- II. Area of catchment (excluding tanks or reservoirs).
- III. Area of reservoirs.
- IV. Description of soil and geological formation of catchment area.
- V. Description of catchment area, *i.e.*, whether bare or covered with grass, fields, low, or tree jungle, &c.

No. 13. ORDER THEREON, 2nd September 1880, No. 2,076 W.

THE President of the Madras Municipal Commission will be requested, in the Financial Department, to desire the Executive Engineer of the Municipality to supply the information required by the Government of India in regard to the Madras Water-supply Project.

2. The details required in connection with the Seven Wells scheme will be furnished by the Superintendent of Works, Presidency, and those regarding the Ootacamund and Wellington schemes by the Superintending Engineer, Second Circle.

3. Where the requisite records of rainfall exist, the information called for in paragraph 5 should be supplied.

(True Extract.)

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

To the Financial Department.
" Superintendent of Works, Presidency.
" Superintending Engineer, Second Circle.

Exd. A. F. Goodall.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of Madras.
PUBLIC WORKS.

To
THE FINANCIAL DEPARTMENT,
&c., &c., &c.

Dated September 2nd.

Issued

Recd.

Encl.

G. O., 2nd September 1880, No. 2,070 W.

SEPTEMBER.
Nos. 12-13.

Water-works Projects in Madras, Ootacamund, and Wellington.—Passing orders on letter from the Government of India requesting certain information in connection with the —

All communications
should be addressed
to the Secretary.

No. 203 M.

GOVERNMENT OF INDIA.

PUBLIC WORKS DEPARTMENT.

GENERAL
Civil Works
Miscellaneous

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

Sirinda 24th August 1880.

Sir,
Referring to the reports of the several water works schemes in Madras, forwarded with your letter No. 2849 of the 11th November 1879, I am directed to communicate the following remarks and observations, and to request to be furnished with information bearing on the points alluded to.

I. The report on the Madras scheme is rather

a description of improvements to be made, than on account of the existing condition of the project; it should be stated if the project has been carried out, and, if so, whether exactly in accordance with the design, and with what results.

II. The area of Catchment supplying the Red Hills Tank should also be stated, as well as the rainfall, &c.

2. Regarding the Presidency or Seven Wells Scheme, the following details are required.

I. Difference between mean sea level, and surface of the water in the wells, when not being drawn on.

II. Depth to which water surface is lowered, when the supply is being drawn off, and quantity drawn

drawn daily or hourly from each well.

III. Number of people supplied, so as to arrive at the average supply per head per diem.

IV. Height of lift from wells.

3. In connection with the Ootacamund project, the following additional details should be furnished, if obtainable.

I. Discharge from existing reservoirs.

II. Population supplied by existing reservoirs, and the quantity per head per diem.

III. Loss by evaporation in reservoirs.

IV. Proportion of rainfall running into reservoirs, during each month.

V. Small map showing the reservoirs channels &c.

4. Lastly the information required in connection with the Wellington Scheme is as follows:-

- I. Quantity of water delivered from each source of supply.
- II. Number of persons using the water in each case, and the quantity used per head per diem.
- III. Measurements of discharge (if any) as compared with the calculated discharges of the piping.
- IV. If possible, the actual consumption per head per diem of the two distinct services, drinking and ablutionary, might also be stated with advantage.

5. In all cases where reports of the rainfall stored are recorded, the fullest information on the following points is desirable, and should be furnished. -

I.

I. Percentage of rainfall in inches, stored after certain recorded rain-falls, on periodical dates, E.g. 15th August a rain-fall of say 6.38 inches in 24 hours. Increase of water in reservoir 2.7 feet, made up by 6.38" on reservoir, and .85 inches gathered on Catchment, and passed to the reservoir, and then measured as 26.02".

II. Area of Catchment (excluding tanks or reservoirs).

III. Area of reservoir.

IV. Description of soil and geological formation of Catchment - area.

V. Description of Catchment area, i.e. whether bare or covered with grass, fields, low, or tree-jungle.

jungle &c.

I have the honour to be,

Sir,

Your most Obedt. Servt

P.W.D.

1 SEP 80

W. Tomkins Capt. R. E.
Asst. Secy. to the Govt. of India

S. J. U.

No 2076 W

B. H. Clark

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 2^d Sept 1880

Read the following:—

From

The Govt. of India (S. L. No. 303 No. 324 Supp.)

The President of the
Madras Municipal
Commission will be
requested, in the Finan-
cial Department, to
advise the Executive
Engineers of the Municipality
to supply the information
required by the Govt.
of India in regard to
the Madras water supply
Project.

2. The details required
in connection with
the

R. S.

the Sewer well Scheme
will be furnished by
the Superintendent of
Works, Presidency and
~~the Superintending~~
~~Engineer and Civil~~ will
~~supply the information~~
~~called for in regard to~~
~~those regarding~~
the Bobacamund and
Wellington schemes by the S.E. 2nd Class

3. Where the requisite
records of rainfall
exist, the information
called for in para 5
should be supplied.

P₂₉

Encl. Departe
Supt. of Works, Presy
Supt. Engr & 2nd Civil
Des. No
18/9/50

5542

Gobt. of Madras.

PUBLIC WORKS.

To

Dated

Issued

Recd.

Encl.

G. O., 7th Sept. 1880, No. 2076W.

Nos. 12-13

Water Works Projects
in Madras, Cochinam,
& Wellington.

Passing order on
letter from the Govt
& requesting certain
information in
connection with the