

(1) Number of pages _____

(2) Date of repair 7-1-43

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MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. 413	Press Mis
78-79	
Dated 2 - 2.	1866.

Not to be folded or roughly handled

7-1-43

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*Proceedings of the Madras Government, Public Works Department,
2nd February 1866.*

No. 78. Read the following Endorsement of the Superintending Engineer 4th Division, dated Madras, 20th January 1866, No. 3,733 :—

Read the following letter from the Executive Engineer Fort Range, to the Superintending Engineer, 4th Division, dated Fort Saint George, 13th December 1865, No. 448.

1. In obedience to your Order No. 2,269, dated 17th ultimo, I have the honor to submit the following.
2. I would propose to store water in two tanks on the surface of the ground, to avoid the expense of pumping. One tank for men's Barracks to contain 2,000,000 gallons of water, and the other for family quarters to contain 750,000 gallons of water. To be erected in convenient localities in the vicinity of the buildings.
3. The water to be conducted by spouts from the roofs to subterraneous cast-iron pipes leading to the tanks. The water to pass through a charcoal and sand filter, consisting of a chamber with a diaphragm, before entering into the tanks.
4. The quantity of water required to be stored will be about 2½ millions of gallons for 1,500 souls, at the rate of two quarts per diem for each individual.
5. The cost including spouting, piping, filter and tank will be—

	RS.
For the Men's Barracks	68,000
For Family Quarters	45,000
Total	1,13,000

6. A block plan is enclosed.

1 Plan.

1. The foregoing letter contains the information called for in Proceedings of Government, No. 3,015, dated 11th

October 1865, and is submitted to Government as being in accordance with the views of the Superintending Engineer.

2. There are upwards of 500,000 square feet of roofing in Fort Saint George, and allowing only two feet of rain to be caught in the year, 1,000,000 cubic feet or upwards of six millions of gallons of water may be retained, being far in excess of the wants of the Garrison. As, however, the greater part of the rain falls between October and the end of the year, it is apprehended that there will be a difficulty in retaining the water 'sweet' for the long period it will be necessary to keep it stored, whereas a change of waters, i. e., recurring to the Seven Wells Water after drinking rain water is likely it is thought to be prejudicial to the health of the men.

3. The cost roughly stated at 1,13,000 is more likely to be 1½ lakhs of Rupees.

4. It is left for the Government to decide if the project is, under these circumstances, to be worked out in detail.

(Signed) A. J. M. BOILEAU, Colonel, R. E.,
Superintending Engineer, 4th Division.

*price and name will be for the 113000 08000
for family quarters. Rs 45000
Total Rupees 113000
a*

Proceedings of the Madras Government, Public Works Department,
2nd February 1866.

No. 79. ORDER THEREON, 2nd February 1866, No. 413.

MILITARY WORKS, No. 9.

The Government, from this brief and incomplete report, are unable to form any opinion on the merits of the proposed mode of obtaining and storing water for the use of the Troops in the Fort, by collecting it from the rain fall on the roofs of the public buildings, and they desire that the subject may be carefully investigated and submitted to them in a clear and definite shape, with properly prepared plans and estimates.

(True Extract.)

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government

To the Superintending Engineer, 4th Division, with Plan.
Military Department.

Exd. S. T. Augustin.

N. 148.
Supply of rain water in Fort St. George
To
The Superintending Engineer
4th Division
Madras.

Sir,

In obedience to your order N. 2269 dated 17th Ultimo. I have the honor to submit the following.

2. I would propose to store water in two tanks on the surface of the ground to avoid the expense of pumping. one tank for Irwin's Barracks to contain 2,000,000 gallons of water and the other for family quarters to contain 750,000 gallons of water. To be erected in convenient localities in the vicinity of the buildings.

3. The water to be conducted by spouts from the roofs to subterraneous cast iron pipes leading to the tanks. The water to pass through a charcoal and sand filter consisting of a chamber with a diaphragm before entering into the tanks.

4. The quantity of water required to be stored will be about $2\frac{3}{4}$ millions of gallons for 1500 souls at the rate of 2 quarts per diem for each individual.

5. The cost including spouting, piping, filter and tank will be for the Irwin's Barracks Rs 68000 for family quarter Rs 45000

Total Rupees 113000

a

6. A block plan is enclosed

I have the honor to be

Sir,

Your Most Obedt. Servant

Bartlett George
13th December 1865

Mr. J. P. ... Captain R.E.
Executive Engineer C.R.

N^o 3733.

The foregoing letter contains also the information called for in Pro. of Govt. Plan N^o 3015 dated 11th October 1865 and in accordance with the views of the Sup^r Engineer -

2. There are upwards of 500,000 square feet of roofing on Fort George and allowing only 2 feet of rain to be caught in the year, 1,000,000 cubic feet or upwards of 6 millions of gallons of water may be retained, being far in excess of the wants of the Garrison. As, however, the greater part of the rain falls between October & the end of the year it is apprehended that there will be a difficulty in retaining the water 'sweet' for the long period it will be necessary to keep it stored, whereas a change of waters i.e. recurring to the seven well water, after drinking rain water is likely it is thought to be prejudicial to the health of the men.

3. The cost roughly stated at 1,13,000 is

more likely to be 14 lakhs of Rupees.

4. It is left for the Govt. to decide if the project is, under these circumstances, to be worked out in detail.

This is but a very incomplete report in detail a question to say nothing of the mistake noticed in the previous page. The cost is evidently a mere guess. The mode in which this is proposed to store the water is by no means clear and defined. I do not see any reason why the water should, if proper precautions are taken, become unfit for drinking for although the great bodies of water falls between October & the end of the year there are frequent showers at other seasons which would fill up the tanks with fresh & sweet water. I am therefore of opinion that the Plan should be matured & submitted in detail to the Govt.

Q. 7. Not uncommonly fully with an inch of rain fall from the middle of Dec till middle of April or sometimes more. But I have no objection to the plan being more fully investigated. J.P.

Certainly as the report now stands it is difficult to come to any conclusion as to the feasibility of the project. - or as to whether it would be better left to the hands of one of our officers who would have the advantage of the Govt. & the Sub. Comd^r. W.M.

W. Lloyd

From
The Rev. Eugene W.D.

To the Congressmen

Do the duty & pay to
Dec 13th } December 1858
Dec 15th }
1858.

Enclosure.

Dear Madam
I have the honor to acknowledge the receipt of your letter of the 11th inst. in relation to the above named matter. I have the honor to inform you that the same has been forwarded to the proper authorities for their consideration. I am, Madam, very respectfully,
Yours, &c.

Liebt
Mutter Oden

Swift Hokers

The Government, from
this brief and incomplete report,
are unable to form any opinion
on the merits of the proposed
mode of obtaining and storing
water for the use of the troops in
the fort, by collecting it from
rain fall on the roofs of the
Public Buildings, and they
deem that the subject must
be carefully investigated
and submitted to them
a clear and definite
shape, with proper prepa-
rations and estimates.

670 S. E. 4 DuHalle / Plans
20 Military Dept ✓

✓ Sent St George's
2nd Sunday 1866 }

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To 1866 Dept
Pr. of Gov. for February
From No. 283.

The Superintending Engineer
4th Division

To
The Secretary
to Government P.P.D.

dated 20th 13
Rec. 22 January 1866

By No. 3733

Forwarding a letter No. 448
dated 13th December 1865 from
the Executive Engineer Fort
Range, regarding the supply
of rain water in Fort Mang.

A. 278.79

C. 245 Decr 1866. R. 29 Aug.

rec. 413-2nd Feby 1866.