(1) பக்கங்களின் எண்ணிக்கை 24

(2) புதுக்கித் திருப்பிய நாள் 28-7-90

(3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

(206)

தமிழ்நாடு அரசு

P.W.D. துறை

அரசாணை எண். / மு. கோப்புத் தான் எண்.	1451 / 1452
அச்சகம் / பலவகை	

நாள் : 22-5-1891 19

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

12 sheets

ஆணை.-கா-1—18,000—15-6-87.

(3)

1451-5/1

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers:—

From J. W. MARTIN, Esq., Officiating Superintending Engineer, VI Circle, to the Chief Engineer, Public Works Department, dated Trichinopoly, 11th April 1891, No. 80 T.C.

With reference to G.O.. No. 184 W., dated 20th January 1891, in regard to the water-supply at the Central Jail, Trichinopoly, I have the honour to report that the well referred to in the correspondence as west of the Deputy Jailor's quarters has been increased in depth 15 feet, but there is no appreciable increase in the supply of water.

2. The deepening was carried through dark gray crystalline rock, very hard and compact, which apparently is granite. After deepening the well, water continued to flow from the stratum over the rock, but practically little or no water came from the rock itself. In consequence of this it was considered advisable to stop the work.

3. The covering over the rock consists first of red earth, then laterite, and lastly, what is often called, "decayed rock," but, I believe, a more correct description is broken gneiss. All the existing wells at the jail and about the station of Trichinopoly penetrate this description of soil, but go very little into the hard rock. In consequence of this, all the wells at the jail are comparatively shallow, the bottom of the deepest being only 53 feet below the ground line, and, so far as I know, there are no deep wells about Trichinopoly, the reason being no doubt that experience has shown it is useless to pierce the granite below. This is in accordance with what might be expected, for granite underlies the lowest or "primary" stratified rocks, though it is often found rising through or over them in dykes and veins. I think, however, this is not the case with the rock at the well, for the laterite, &c, which overlies all the rock in the neighbourhood of Trichinopoly, has been passed through, and, consequently, it is improbable there is any overlap under the rock now exposed.

4. For the reasons stated I think it is perfectly useless to continue deepening the well with the hope that a fairly good supply of water will be obtained; but, before abandoning it finally, it might be advisable to ask for the views of the Geological Department on the subject. I may mention that, when I was in charge of the Coimbatore division a short time ago, we deepened a well at the Remount Depôt, Hosúr. The rock passed through was the same as I have described above and called granite. Up to the time I left the well was carried down to a depth of 75 feet, but without any appreciable increase to the supply of water and without any sign of a good spring. I believe the work was finally stopped shortly after I left.

5. In regard to what other measure can be recommended to supply the jail with potable water, I cannot see that it is possible to do anything * beyond either making a masonry catch-water drain round the large isolated rock on the east side of the jail, known as the "Golden rock," to catch the rain water and store it in a masonry reservoir, or make a concreted platform to catch rain water in the same manner as is now being carried out at the Central Jail, Coimbatore. These two schemes are practically the same in principle and, I think, it would cost a large sum to carry either of them out. The reservoir should, I think, be large enough to hold a supply for six months and be lined and floored with first quality masonry, for otherwise it will leak and saline impurities would probably soak through the sides and bottom.

* Except distil some of the water available in the wells.

6. In regard to expense, the quantity of water to be provided for per head per day is of course a very important point; but I understand that the Superintendent of the Central Jail, Trichinopoly, has had an estimate, which amounts to about Rs. 15,000 made out for a concreted platform and reservoir, &c., on the same design as has been adopted at Coimbatore, providing for five gallons per head per day. I do not know whether this quantity has been finally approved. However should you feel inclined to recommend collecting rain water from a platform, I think it would be well to obtain instructions about the quantity of water required per head per day.

7. In regard to the quantity of water at present available in the wells, the supply is, I think, ample for at least some time. I am sending sections of the wells and a rough sketch, showing their position, from which you will notice that in those marked good there was a fair supply on the 31st of last month.

Note by the Chief Engineer, Public Works Department.

The Chief Engineer considers that it will be of very little use deepening the well in question, but the opinion of the Geological Department should be obtained as suggested by the Superintending Engineer.

2. If that opinion be adverse to deepening the well, there seems nothing else to be done but to catch the rainfall as proposed.

(Signed) A. C. SMITH, Lieut.-Colonel, R.E.,
21st April 1891. Ag. Chief Engineer, P.W.D.,
General Branch.

ORDER—dated 27th May 1891, No. 1451 W., Public Works.

Communicated to the Judicial Department with reference to its endorsement, dated 17th January 1891.

2. As suggested in the papers above recorded, the question whether the well might be further deepened with advantage will be referred to the Geological Department for opinion.

3. Para. 6 of the Superintending Engineer's letter regarding the quantity of water required per head per day will meanwhile be considered in the Judicial Department.

(Here enter No. 1452 W., dated 27th May 1891.)

(True Extract.)

(Signed) A. C. SMITH, Lieut.-Colonel, R.E.,
Ag. Joint Secy. to Govt., P.W.D.

To the Superintending Engineer, VI Circle.
„ Judicial Department.

LETTER—to A. BRUCE-FOOTE, Esq., Superintendent, Geological Survey of India, dated Ootacamund, 27th May 1891, No. 1452 W.

I am directed to forward copies of the correspondence noted in the margin and to request the favour of your opinion whether the well at Trichinopoly referred to therein might with advantage be further deepened.

P.G., No. 184 W., dated 20th Jan. 1891.
„ „ 1451 W. „ 27th May „

2. Two plans are forwarded for inspection.

(Signed) A. C. SMITH, Lieut.-Colonel, R.E.,
Ag. Joint Secy. to Govt., P.W.D.

Exd. A. D. Xavier.
Spare Copies

1451-52
2

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1891} Madras.

PUBLIC WORKS.

Dated May, 27*th*.

Recd. *Encl.*

G.O., 27th May 1891, Nos. 1451, 1452 W.

MAY.

Well

Forwarding, for opinion, correspondence relating to the deepening of a—west of the Deputy Jailor's quarters at the Central Jail, Trichinopoly.

1451-52/3

27TH MAY 1891, No. 1452 W., PUBLIC WORKS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

LETTER— from

LIEUT.-COLONEL A. C. SMITH, R.E.,
Acting Joint Secretary to Government,
Public Works Department,

To

A. BRUCE-FOOTE, ESQ.,
Superintendent, Geological Survey of India.

SIR,

I am directed to forward copies of the correspondence noted in the margin and to request the favour of your opinion whether the well at Trichinopoly referred to therein might with advantage be further deepened.

P.G., No. 184 W., dated 20th Jan. 1891.
„ „ 1451 W. „ 27th May „

2. Two plans are forwarded for inspection.

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

Lieut.-Colonel, R.E,
Ag. Joint Secy. to Govt., P.W.D.

OOTACAMUND,
27th May 1891.

Exd. A. D. Xavier.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1891} Madras.

PUBLIC WORKS.

Dated May, 27th.

Read. *Encl.*

27th May 1891, No. 1452 W.

MAY.

Well

Forwarding, for opinion, correspondence relating to the deepening of a—west of the Deputy Jailor's quarters at the Central Jail, Trichinopoly.

No. 80 TC

1452 W

OFFICE OF THE SUPERINTENDING ENGINEER,
6TH CIRCLE.

Trichinopoly, 11 April 189/

From

J. W. Martin Esqr
Offg. Superintending Engineer,
6TH CIRCLE.

To

The Chief Engineer,
PUBLIC WORKS DEPARTMENT.

SIR,

ENCLOSURES. 2
1 Sketch of Well
1 Links of wells (Tracings)

With reference to P.O No 1845 dated 20 January 1891 in regard to the water supply at the Central Jail, Trichinopoly, I have the honor to report that the well referred to in the correspondence noted in the Deputy Jailor's Quarters has been increased in depth 15 feet, but there is no appreciable increase in the supply of water.

2. The deepening was carried through dark grey cryptalline rock very hard and combach which apparently is granite. After deepening the well water continued to flow from the stratum over the rock, but practically little or no water come from the rock itself. In consequence of this it was considered advisable to stop the work.

3.

3. The covering over the rock consists first of red earth, then laterite, and lastly what is often called "decayed rock" but I believe a more correct description is broken gneiss - All the existing wells at the jail and about the station of Trichinopoly penetrate this description of soil, but go very little into the hard rock. In consequence of this, all the wells at the jail are comparatively shallow, the bottom of the deepest being only 53 feet below the ground line; and, so far as I know, there are no deep wells about Trichinopoly, the reason being no doubt, that experience has shown it is useless to pierce the granite below - This is in accordance with what might be expected for granite underlies the lowest or "primary" stratified rocks, though it is often found rising through or over them in dykes and veins - I think however this is not the case with the rock at

1451-57/6

the well for the laterite in which overlies all the rock in the neighbourhood of Trichinopoly has been passed through and consequently it is improbable there is any overlap under the rocks now exposed -

4. For the reasons stated I think it is perfectly useless to continue deepening the well with the hope that a fairly good supply of water will be obtained - But before abandoning it finally it might be advisable to ask for the views of the Geological department on the subject. I may mention that when I was in charge of the Coimbatore Division a short time ago, we deepened a well at the Removal depôt, Erode - The rock passed thro' was the same as I have described above and called granite. Up to the time I left, the well was carried down to a depth of 75 feet, but without any appreciable

increase

increase to the supply of water and with-
-out any sign of a good spring.
I believe the work was finally
stopped shortly after I left.

5. In regard to what other measure can be recommended to supply the jail with potable water I cannot see that it is possible to do anything beyond either making a masonry catch water drain round the large isolated rock on the east side of the Jail known as the "Golden Rock" to catch the rain water and store it in a masonry reservoir; or make a concreted platform to catch rain water in the same manner as is now being carried out at the Central Jail, Coimba-
-tore. These two schemes are practically the same in principle, and I think it would cost a large sum to carry either of them out. The reservoir should, I think,

* Except that some of the water available in the wells

be large enough to hold a supply for six months and be lined and floored with first quality masonry, for otherwise it will leak and saline impurities would probably soak through the sides and bottom.

6. In regard to expense, the quantity of water to be provided for per head per diem is, of course a very important point. But I understand that the Superin-
-tendent of the Central Jail, Sri-
-chinnappa, has had an estimate which amounts to about Rs. 15,000 made out for a concreted plat-
-form and reservoir &c on the same design as has been adopted at Coimbatore, providing for five gallons per head per day. I do not know whether this quantity has been finally approved. How-
-ever should you feel inclined

to recommend collecting rain water from a platform, I think it would be well to obtain instructions about the quantity of water required per head per day.

7. In regard to the quantity of water at present available in the wells, the supply is, I think, ample for, at least, some time. I am sending sections of the wells and a rough sketch showing their position from which you will notice that in those marked good there was a fair supply on the 31st of last month.

I have the honor to be
Sir
Your most obedient Servant

J W Martin
Offg Supt Engineer
Viceroy

1451-57/8

P. W. Circle 4118

Memo No 2398 dt 6-6-90
" " 4430 dt 14-7-90
for Bro 2057 dt 28-7-90
" " 1846 dt 20-1-91

P. W. D. 6TH CIRCLE.

From

The Superintending Engineer,

6th Circle.

To

THE CHIEF ENGINEER,

PUBLIC WORKS DEPARTMENT.

No. 80 TC

Dated 11 / 3 } April 1891
Received

Enclosures. 2.

Water supply Festival
at Sait Technology

Submits proposals on
the subject of -

0/19/16

145 W
145 S
Cir 4118

Cs/21.10
Colonel Ward
Contract

Sir orders.

In communicating
this order to the Irrl
Dept. it will apparently
be necessary for the
Chief Engr to give
his views on the S.E
report & proposals.

Cir
15-4-91

I think that the
high might be taken
down a little deeper
& that by Platform &
obtain the services of
a professional Engineer
a Good one —
If advance, there
seems nothing else
for some but Cabot
& principals as
proposed over
16/4/91

General Branch
Cir

P. W. D.

1451/5/10

Note by the Chief Engineer
P. W. D. dated 21st April 1891.

From the Supdg Engr 11 Circle C.No. 80 T. C. dated
11th April 1891.

The Chief Engineer
is inclined to think that
considers that the well
use deepening the well in question
~~employed be taken~~ ~~advisable~~
would
~~before the month is over~~
but
~~could be obtained~~, the opinion
of the Geological dept.
~~successful~~
should be obtained as
suggested by the Supdg:
Engineer.

2. If that opinion be adverse to deepening the well, there seems nothing else to be done but to catch the rainfall as proposed.

H. Smith Lt Colo
Sy. Chief Engr P.W.D.
General Branch

Cn

No 1451 W of 27th May 1891

Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

1451-52/11

Read the following

From the Supdg. Engr. 11 Circle
Nilgiris, to the Chief Engr. P.W.D.

No 80 T. Cdf. 11 April 1891
dy 21st April 1891

Communicated to the Judicial Department with reference to its endorsement of 17th January 1891.

2. As suggested in the papers above recorded, the question whether the well might be further deepened with advantage will be referred to the ~~Supdt:~~ Geological ~~Department of India~~ Department for opinion.

3. Para 6 of the Superintending Engineer's letter regarding the ~~quantity~~ of water required per head per day will meanwhile be considered in the Judicial Department.

To
The Supdg. Engr. 11 Circle
" Judicial Deptt:

H. E. No

A.C. No 1452 w d 27 May 1871

To H. Bruce Esqre &c
The Superintendent
Geological Survey
~~Party working~~ of India
~~in the Madras Presy~~

Sir,

I am directed to forward copies of the correspondence noted in the margin and to request the favor of your opinion whether the well at Trichinopoly referred to therein might with advantage be further deepened.

2 Two plans are forwarded for inspection.

I have &c

H. L.

23 May.

I have called the Secretary's attention to the delay which has occurred in this case. The papers were delayed pending the receipt of a report from the Superintending Engineer, Trichinopoly Division, which was received on the 5th instant.

Pl. No 104 w d 20.1.91
A.C. No 1451 w d 27-5-91

27 MAY 91

1451-52/72

1416

Govt. of [18] Madras.

PUBLIC WORKS.

Dated

Rect Encl.

G.O. 27th May 1891 No. 1145 W.
1452 W.

Water supply

Report of the Revd Clerk
regarding the a— at the
Central Jail, Trichinopoly,
Caused to the Jail Dept.
with Remarks.

Well

Facts for opinion Correspondence
relating to the deepening
of a Well inside of the
Dy Jailors Quarters at
the Central Jail Trichinopoly