

- (1) பக்கங்களின் எண்ணிக்கை 12
 (2) புதுக்கித் திருப்பிய நாள் 3/89
 (3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம் 6/89

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

44

PWD

துறை

அரசாணை எண். மு. கோப்புத் தாள் எண்.	319	அச்சகம் புலவகை
நாள் :	5. 2. 1889	108

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மடிக்கவோ கண்டபடி கையாளவோ கூடாது

6 Sheets

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following paper:—

G.O., dated 17th December 1888, No. 3934 W., Public Works.

From W. KING, Esq., D.Sc., Director, Geological Survey of India, to the Secretary to the Government of Madras, Public Works Department, dated Calcutta, 26th January 1889, No. 63.

I am in receipt of your letter, No. 3935 W., Public Works, of 17th December 1888, with accompanying copies of Proceedings of the Government, by which I find that the experimental artesian boring in the Kortalayár valley has reached a depth of 405 feet without meeting any sheet of water other than the presumable one at 42 feet below the level of the ground.

2. It is almost impossible for me to judge accurately of the age of the different strata passed through from the record of samples given, but I think we may consider that much of the lower portion does not belong to the alluvial deposits proper. I am inclined rather to think that the boring tool may have been for about 190 feet in strata underlying the Cuddalore sandstones (Red Hills laterite, &c.), and in these I do not think, from what we know so far, that there can be available water-sheets of any promise.

3. It is true that the boring does not show any trace of having touched the gneiss, but I really recommended that it should reach that rock only on the supposition that the alluvial deposits might have been found to lie directly on it.

4. On the whole, therefore, I do not recommend that the boring should be made deeper in the expectation of meeting rising water. Of course it would be of great geological value were the hole run right down to the gneiss, but not sufficiently so to warrant any further expenditure.

5. It does not seem to me that the tapping of the water-sheet at 42 feet would materially add to the water-supply in the canal.

6. There is no necessity to plug up the boring in any substantial way, and I presume that the tubing will be extracted for further utilization in case of need. The expenditure of money and time on the boring seems to have been excessive, the working through the 11 inches of limestone, or whatever form of calcareous rock it was, having been far beyond any reasonable knowledge of the getting through such an obstacle.

ORDER—dated 5th February 1889, No. 319 W., Public Works.

His Excellency the Governor in Council directs that the artesian boring in the Kortalayár valley be not proceeded with any further, and the Superintending Engineer will be directed to close the work; and as it is not probable that the cost of taking up the piping would be covered by the value of the pipes, the head of the boring should be plugged and a block of masonry built over it.

2. There should be no delay in the settlement of the accounts of the work and the plant on the work should be returned to store. It is believed that Mr. deClossets has agreed to sink the 8-inch pipe to 42 feet for Rs. 200. It is to be understood that the work is to be done in a reasonable time, and the Superintending Engineer's report will be awaited.

(True Extract.)

(Signed) H. R. MEAD, Colonel, R.E.,
Ag. Secretary to Govt., P.W.D.

To the Superintending Engineer, V Circle.
" Chief Engineer for Irrigation.
" Revenue Department.

Exd. A. D. Xavier.
Spare Copies

319
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BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1889} Madras.
PUBLIC WORKS.

Dated February, 5th.

Recd.

Encl.

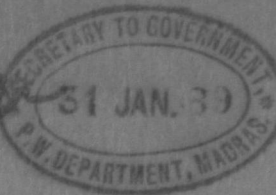
G.O., 5th Feb. 1889, No. 319 W.

FEBRUARY.

Artesian boring in the Kortala-
yar Valley

Orders issued for closing the work in
connection with the —.

Gy. O. 9.17 - Dec 88 No. 3934
No. 63



FROM

THE DIRECTOR,

Geological Survey of India,

TO

Colonel H. R. Mead, R.E.,

Ag. Secretary to the Government of Madras,
Public Works Department.

Dated Calcutta, January 26, 1889.

SIR,

I am in receipt of your letter No. 3935 W.,
Public Works, of 17th December 1888, with accompanying
copies of Proceedings of the Government, by which I
find that the experimental artesian boring in the
Kortalayar Valley has reached a depth of 405 feet,
without meeting any sheet of water other than the
presumable one at 42 feet below the level of the
ground.

It is almost impossible for me to
judge accurately of the age of the different strata pass-
ed through from the record of samples given: but I think
we may consider that much of the lower portion does
not belong to the alluvial deposits proper. I am in-
clined rather to think that the boring tool may have
been, for about 190 feet, in strata underlying the Cudda-
lore Sandstones (Red Hills laterite, &c.) and in these I
do not think from what we know so far, that
there can be available water-sheets of any promise.

It is true that the boring does not
show any trace of having touched the gneiss, but I

really recommended that it should reach that rock only on the supposition that the alluvial deposits might have been found to lie directly on it.

On the whole therefore, I do not recommend that the boring should be made deeper, in the expectation of meeting rising water. Of course, it would be of great geological value were the hole run right down to the gneiss: but not sufficiently so to warrant any further expenditure.

It does not seem to me that the tapping of the water sheet at 42 feet would materially add to the water supply in the canal.

There is no necessity to plug up the boring in any substantial way: and I presume that the tubing will be extracted for further utilization in case of need. The expenditure of money and time on the boring seems to have been excessive; the working through the 11 inches of limestone, or whatever form of calcareous rock it was, having been far beyond any reasonable knowledge of the getting through such an obstacle.

I have the honour to be,

Sir,

Your most obedient Servant,

Will. King Esq.

Director, Geological Survey of India.

319
4

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 5th Feb. 1889

Read the following

GO. 3934 N dated 17th December 1889
 Letter from the Director
 Geological Survey of India } (Hans. 63 of 26th Jan. 1889)

His Excellency the
 Governor in Council directs
 that the Austrian boring in
 the Kumbhalgarh Valley be not
 proceeded with any further,
 and the Superintendent will
 be directed to close the
 work; and as it is not
 probable that the cost of
 taking up the piping
 would be covered by the
 value of the pipes, the
 head of the boring should
 be plugged and a block
 of masonry built over it.

2. There should be
 no delay in the settlement
 of the accounts of the

GO. 3934. 5W. 17. 12. 88

work, and the plank on
 the work should be re-
 -burned to stone. This
 believed that Mr. deLoe's
 has agreed to sink the 8
 inch pipe ~~to~~^{to} 42 feet for
 \$200. It is to be under-
 -stood that the work is
 to be done in a reasonable
 time, and the superintending
 engineers report will be
 awaited.

M. L.
 1/2/89

~~The Hon. Mr. H. S. Ketchum~~
~~His Excellency the Governor~~

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 6

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1/2
 89

Edw. T. Cusack ✓
 Capt. J. ✓
 Road Superintendent ✓
 2/2/89

Jan. 1. ii. 89
 R. 5. ii. 89

Govt. of Madras.
PUBLIC WORKS.

Dated

Recd.

Encl.

G.O. 5th 1889 No. 3194

Artesian boring in
the Kortalayor Valley
Orders issued for
closing the work in
connection with the

(6)

EJ
5-3-89

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