

MADRAS RECORD OFFICE.

Government of Madras.

Revenue DEPARTMENT.

G.O. No.	1234	Press
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96-97 Dated	4-5-1869	N

Not to be folded or roughly handled

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*Proceedings of the Madras Government, Revenue Department,
4th May 1869.*

No. 96. Read the following Proceedings of the Madras Government in the
Public Works Department:—

Recording Endorsement of the Superintending }
Engineer of the 5th Division, relative to the } (Here enter 23rd April 1869, No. 1,340.)
working of Norton's Tube Wells at Bangalore. }

No. 97. ORDER THEREON, 4th May 1869, No. 1,234.

Miscellaneous.

COMMUNICATED to the Revenue
Board.

(True Extract.)

(Signed) H. WELLESLEY,
Acting Under Secretary to Government.

To the Board of Revenue, with Proceedings Public Works Department, No. 1,340.

Exd. E. C. Shunker.

*Proceedings of the Madras Government, Public Works Department,
23rd April 1869.*

No. 591. Read the following Endorsement of the Superintending Engineer, 5th Division, dated Cuddalore, 14th April 1869, No. 12 :—

Read the following:—

Report on driving Norton's Tube Wells at Bangalore.

1. The first tube was driven, to a depth of eighteen feet (with little difficulty) in the waste channel of the Shooley Tank. After twenty-four hours, a few inches of water stood at the bottom of the tube. A second tube was then driven to a depth of nine feet, and after being left for twenty-four hours had some four feet of water standing in it. This was soon pumped out, but the supply of water was insufficient to refill the tube in any moderate space of time. The locality was evidently one where a few feet of earth (through which water slowly percolated) was superimposed on a bed of stiff clay.

2. A third tube was driven on the dry bottom of one of the small tanks situated at the corners of the band stand. The bed of the tank is about ten feet below the surface of the ground, and the tube was driven to a depth of eighteen feet through stiff clay, in which there was no appearance of water, until it was stopped by rock.

3. A fourth tube was driven in the hollows situated at the south-east corner of the Race Course plateau, where there appeared to be every probability of striking water, as a minute stream generally trickles in the adjacent nullah. Although the tube was driven beyond a depth of twenty feet, no water appeared in the tube. It would seem, therefore, that the moisture observed in the neighbourhood is due only to the thin covering of earth superimposed on the clay, which, in this instance, was so hard, that the tube, on being withdrawn (after some difficulty) was found to be polished.

4. It was contemplated to drive a tube in the bottom of the well situated on the Race Course plateau, at the south end of the Cavalry family quarters. The well appeared to be almost dry at a depth of forty feet, but on clearing out the debris at the bottom of it, the water rose from a depth of 3 feet 2 inches on February 5th, to 8 feet on 19th February, and is now standing at a depth of 9 feet 6 inches. It would, therefore, have been useless to drive a well at that point as it was evident that water existed. I may add that I have been endeavouring to induce Well sinkers to deepen this well, but without success, as they fear that the lining would fall in on them. Colonel Prendergast has, however, come to my assistance, and the Sappers are at present engaged in making the necessary cylinders of pottery with which they will sink a fresh well at the bottom of the present one, in accordance with paragraph 2 of G. O., Military Department, 23rd July 1868, No. 2,872, communicated with G. O., Public Works Department, 6th August 1868, No. 2,517.

5. It may be worthwhile to remark, that the experience gained by the above operations seems effectually to dispose of the necessity urged by the Sanitary Commissioner for subsoil drainage at Bangalore. In the upper six feet of ground (generally speaking) there appears to be very little water, while in the next forty feet there appears to be none at all. I would deduce consequently that there is no necessity for subsoil drainage at this station.

BANGALORE,

8th April 1869.

(Signed) H. W. WOOD, Captain, R. E.,

Executive Engineer, Bangalore.

Norton's Tube Wells at Bangalore
Communicated to the Public Works Department
23rd April 1869.

RECEIVED

1869

G. O. 4117, 1869, 26.1.1869.

Public Works Dept.
Recd.

Recd.

THE BOARD OF REVENUE

REVENUE

G. O. 4117, 1869, 26.1.1869.

*Proceedings of the Madras Government, Public Works Department,
23rd April 1869.*

SUBMITTED for the information of Government, with reference to G. O., 6th
November 1868, No. 3,466.

(Signed) E. A. FOORD, Colonel, R. E.,
Superintending Engineer, 5th Division.

No. 592.

ORDER THEREON, 23rd April 1869, No. 1,340.

MILITARY WORKS, No. 25.

Ordered to be recorded.

(True Extract.)

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

True Copy

Charles A. Orr
Colonel R.E.
Secretary to Government

To the Superintending Engineer, 5th Division.

.. Military Department.

Revenue Department

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Comm: to the
Revenue Board

Exd. S. T. Augustin.

11. May 1869

11. May 1869

Revenue *Off.*
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Govt. of 1869 Madras.

PUBLIC WORKS.

To

THE SUPERINTENDING ENGINEER.

C. P. D. S.

C. P. D. S.

Dated April 1869.

10th May.

G. O. No. 1234-11 May 1869.

APRIL.

Nos. 591-592

No 1234-11 May 1869

Norton's Tube Wells.—Endorsement of
the Superintending Engineer of the 5th
Division relative to the working of Norton's
Tube Wells at Bangalore. *recorded*

With order
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