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(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No. <u>2017 3242</u>	Press <u>Mis.</u>
<u>230-231</u>	
Dated <u>12</u> - <u>11</u> - <u>1864</u>	

Not to be folded or roughly handled

*Proceedings of the Madras Government, Public Works Department,
12th November 1864.*

No. 230. Read the following Proceedings of the Madras Government in the Revenue Department:—

Communicating Proceedings of the Board of Revenue submitting letter from Mr. Oldham, Deputy Superintendent Geological Survey of India, on the subject of the water supply of the Bellary District. } (Here enter 7th November 1864, No. 2,017,

No. 231. ORDER THEREON, 12th November 1864, No. 3,242.

1. Communicated to the Superintending Engineer, 3rd Division, with reference to the orders noted in the margin.

No. 3,045, dated 24th October 1864.

2. The Superintending Engineer will be requested to adopt the suggestions contained in paragraph 6 of Mr. Oldham's letter.

(True Extract.)

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

To the Superintending Engineer, 3rd Division.

Exd. S. T. Augustin.

*Proceedings of the Madras Government, Revenue Department,
7th November 1861.*

1. Ordered that the foregoing letter be submitted to Government in continuation of the Board's Proceedings quoted by Mr. Oldham, and with the Board's renewed recommendation that the proposed borings be sanctioned. The Board also request that instructions may be given for recording all the ascertained facts, as proposed by Mr. Oldham, and communicating them to that gentleman with a complete series of specimens of the soils passed through by the boring.
2. Copy of Mr. Oldham's letter will also be furnished to the Collector of Bellary for his information and for communication to Captain Fischer.
3. The Board are much obliged to Mr. Oldham for this letter.

No. 86. ORDER THEREON, 7th November 1861, No. 2,017.

Miscellaneous.

Miscellaneous. Ordered to be communicated to the Public Works Department in continuation of the Proceedings dated 14th October 1861, No. 1,895. Instructions will be issued from that Department to the Superintending Engineer, 3rd Division, to adopt the suggestions made in paragraph C of Mr. Oldham's letter.

(True Extract.)

Secretary to Government.

To the Board of Revenue.
" Public Works Department.

Exd. S. T. Augustin.

210.3242

Communicated

to the Superintendent of the

3^d $\frac{5}{11}$ with reference to the

order noted in the margin

08-22-20

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*Proceedings of the Madras Government, Revenue Department,
7th November 1864.*

No. 85. Read the following Proceedings of the Board of Revenue, dated 21st October 1864, No. 6,951 :—

Read the following letter from C. O. OLDHAM, Esq., Deputy Superintendent Geological Survey of India, to W. HUDLESTON, Esq., Secretary to the Board of Revenue, dated 15th October 1864, No. 81c :—

1. I have only just received on my arrival in Madras, the Proceedings of the Board of Revenue, No. 6,380, dated September 29th, 1864, with two enclosures. First, an abstract forwarded by the Collector of Bellary, of localities in that District in which the want of water has been most felt; and second, a Memorandum from the Executive Engineer on the subject of the water supply of the District.

2. The long list of localities abundantly shows how generally throughout the District the want of water has been felt, and how very desirable any additional or more permanent supply would be.

3. From want of personal acquaintance with the District, and in the present defective state of our information regarding its geological conditions, I feel that I can add but little if any practical value to the observations in the Memorandum of the Executive Engineer.

(a) With reference to the first locality in which Captain Fischer proposes a deep boring, viz. in the open place above the Darogah tank, the comparatively abundant rain-fall, the rapid flow of the water down the steep hill sides and subsequent absorption in the valley, from which, as described, the outfall, at least the surface outfall is comparatively insignificant, seem to indicate a probability of water being found: and if the porous subsoil of sand gravel boulders, &c., should prove to be continuous under the more retentive surface soils, and there is, as it appears, no natural outlet for the water which must percolate into and circulate through this subsoil, there would seem to be a high degree of probability, sufficient to justify the experiment being made, especially as it appears that it would not be needful to incur any great expense.

(b) The second locality indicated by Captain Fischer seems also to present features rendering a successful boring probable. In this case however, judging from the data given, I think the available store is over estimated at 180,000,000 cubic yards. One third of this amount, or 60,000,000 appears to be as much as could be relied on. This, however, would be a most valuable reservoir, if it exists and can be reached.

4. But I would point out, that as far as we are acquainted with the character of the rocks underlying the subsoil, there is much to check over-sanguine anticipations, as the numerous joints and fissures, in all probability occurring there, as elsewhere in similar rocks, are so many hidden causes, or possible causes of failure.

5. Considering, however, the immense importance of an increased or more constant supply of water, and the urgent want of it, and that the expense of the proposed operations would not be great, while, if successful, the result would be of incalculable advantage, I think there is ample ground to justify the experiment being made in one at least of the localities proposed.

6. As Captain Fischer has well suggested, the experiment, even if unsuccessful in procuring the desired supply of water, might be of great value, "if only as a means of adding to our knowledge," and supplying more definite grounds upon which to form an opinion in similar cases. With a view to this most important result being attained, as effectually as possible, I would suggest that means be adopted to have a careful and detailed record kept of the nature of the soils, subsoils, and other strata passed through in the boring, if carried out; the depth to which each extends; the thickness, variations, and mineral character of each successive layer or deposit, with any other remarks of interest, which might suggest themselves to the officer superintending the boring; and specimens of the rocks met with, and I should be much obliged by being favored with a copy of such detailed record, from which perhaps some more definite conclusions might be drawn as regards the probabilities and causes of success or failure in this and similar cases.

7. I may remark that any artesian effect is highly improbable.

8. I return the original enclosure No. 1.

7th 1864 Dep
Pro. of Govt for Revenue

No 4873

Prin. of Govt in the
Rev. Dept

Of 7th Nov
Recd. R.

No 2047

Communicating

From the Secy of the Board submitting
letter from the ^{Bishop} Bishop of the
Survey of India on the subject of
the water supply of the Bellary
Dist.

No 3212-1252 dated 1864

No 200201

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